TAMPA BAY WATER
Supplying Water To The Region

2575 Enterprise Road, Clearwater, FL 33763
Phone: 727.796.2355 / Fax: 727.791.2388
tampabaywater.org

Board of Directors
Harry Cohen
Lisset Hanewicz
Chopper Davis
Dave Eggers
Jack Mariano
Charlie Miranda
Ron Oakley
Kathleen Peters
Joshua Wostal

General Manager
Charles H. Carden

General Counsel
Kelly M. Fernandez
Persson, Cohen, Mooney, Fernandez & Jackson, P.A.

BOARD AGENDA

March 17, 2025 – 9:30 AM

REGULAR MEETING

OPEN TO THE PUBLIC

PUBLIC COMMENT
The Tampa Bay Water Board of Directors welcomes comments from the public about any issue of concern. Opinions provide valuable input to the board members. However, we request that public comments be directed to issues and not directed personally against any board member or staff member. This provides a mutual respect between the board members and the public.

Public comment may be provided in person, via teleconference during the public comment portion of the meeting, or by submitting written comments for the record and distribution to the Board. Anyone wishing to speak in person must submit a completed speaker card to the Agency Clerk prior to the beginning of the meeting. To submit written comment or to participate via teleconference, please contact Krista Simon at 727-791-2347 or ksimon@tampabaywater.org. by 4:00 p.m. on March 14, 2025. Each speaker shall have a maximum of three (3) minutes to address any matter on the agenda.

The next Board Meeting is scheduled to be held on Monday, April 21, 2025 at 9:30 a.m.

ACCOMMODATIONS
Anyone requiring reasonable accommodations for this meeting as provided for in the Americans With Disabilities Act should contact the Records Department at 727-796-2355 x2401 or 813-996-7009 at least three working days prior to the public meeting. If a person decides to appeal any decision made by the Board, with respect to any matter considered at this meeting, he/she will need a record of the proceedings, and for such purposes, he/she may need to ensure that a verbatim record of the proceedings is made, such record includes the testimony and evidence upon which the appeal is to be based.

Regular Meeting Agenda

MONDAY, MARCH 17, 2025 – 9:30 AM

9:30 AM - CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENT - (3 Minutes per speaker)

AGENDA

A. CONSENT ITEMS

- A.1 February 24, 2025 - Regular Meeting - Draft Agenda Minutes - *Approve*
- A.2 Tampa Bay Water Performance Dashboard Update - *Receive Report*
- A.3 Regional Water Supplies, Member Demands and Environmental Conditions - *Receive Report*
- A.4 Capital Improvement Program - Task Order Authorization - *Approve*
- A.5 South Hillsborough County Program Update - *Receive Report*
- A.6 South Hillsborough Pipeline, Projects 01610 and 01606 - Property Acquisition Status Report - *Receive Report*
- A.7 South Hillsborough Pipeline, Project Nos. 01610 and 01616 - Adopt Eminent Domain Resolution - *Approve*
- A.8 Conflict of Interest Waiver for GrayRobinson related to the South Hillsborough Pipeline Project - *Approve*
- A.9 Cosme Water Treatment Plant Yard Piping Improvements, Project No. 07131, Cancellation of Joint Project Agreement, No AGR 2015-007 - *Approve*
- A.10 Dam Safety Compliance Engineer of Record, Contract No. 2025043 with Gannett Fleming, Inc. - *Approve*
- A.11 Independent Annual Financial Statement Audit, and As-Needed Services for Fiscal Year 2025 Fees - *Approve*
- A.12 Contract Option Year Renewals - *Approve*
- A.13 Procurement Exceptions Vendor Limits - *Approve*

REGULAR AGENDA

B. GENERAL MANAGER & GENERAL COUNSEL

- B.1 General Manager's Report - *Receive Report*
- B.2 Legislative and Grant Funding Program Update - *Receive Report*

C. ACTION ITEMS

C.1 Water Conservation Month Proclamation and Tampa Bay Water Wise Program Update - *Approve*

C.2 Surface Water Treatment Plant Expansion, Project No. 01014, Amendment 2025-18 for Construction Phase Services of Agreement No. 2000-028 with Veolia Water North America Operating Services, LLC - *Approve*

D. PRESENTATIONS & REPORTS

D.1 Member Government Report - City of St. Petersburg - *Presentation*

D.2 Long-term Master Water Plan Feasibility Program and Developmental Alternatives Study Status Report - *Presentation*

D.3 Water Quality Update - *Presentation*

E. OTHER ADMINISTRATIVE MATTERS AND OLD BUSINESS

No items to report.

F. RECEIVE & FILE

F.1 Agency Division Activity Reports for February 2025 - *Receive Report*

F.2 Legal Services Activity Report for February 2025 - *Receive Report*

F.3 Legal Services Budget Report through February 2025 - *Receive Report*

F.4 Comprehensive Check List with Delegated Check Approval Items for February 2025 - *Receive Report*

F.5 Disposition of Fixed Assets for February 2025 - *Receive Report*

F.6 Financial Statement - February 2025 - *Receive Report*

F.7 Investment Schedules for February 2025 - *Receive Report*

F.8 Potential True-Up of Fixed Costs between Member Governments through February 2025 - *Receive Report*

F.9 Vendor's Status Report for February 2025 - *Receive Report*

ADJOURNMENT

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.1

DATE: March 3, 2025

TO: Board of Directors

FROM: Charles H. Carden, General Manager

SUBJECT: February 24, 2025 - Regular Meeting - Draft Agenda Minutes - *Approve*

SUMMARY

On February 24, 2025, Tampa Bay Water's Board of Directors held its Regular Board Meeting. A quorum of the Board of Directors of Tampa Bay Water met in person at the Clearwater Administrative Offices.

SUGGESTED ACTION

Approve Minutes.

COST/FUNDING SOURCE

N/A

DISCUSSION

Draft minutes are attached for the Board's review and approval.

Attachment (1)

February 2025 Board Meeting Minutes DRAFT

AGENDA ITEM A.1

Tampa Bay Water

Regular Meeting

February 24, 2025 Minutes

9:30 AM - CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

Present: Chairman - Commissioner Harry Cohen, Hillsborough County
Vice Chair - Lisset Hanewicz, City of St. Petersburg
Mayor Chopper Davis, City of New Port Richey
Commissioner Dave Eggers, Pinellas County
Commissioner Jack Mariano, Pasco County
Councilman Charlie Miranda, City of Tampa
Commissioner Ron Oakley, Pasco County
Commissioner Kathleen Peters, Pinellas County
Commissioner Joshua Wostal, Hillsborough County

Staff: Chuck Carden, General Manager

Presenters: Chuck Carden, General Manager
Kelly Fernandez, General Counsel
Maribel Medina, Project and Planning Director
Christina Sackett, Chief Financial Officer
Warren Hogg, Chief Science Officer
Rick Menzies, Construction Manager
Garrett Marlowe, Mauldin & Jenkins

General Counsel: Kelly Fernandez, General Counsel

A list of others who were present and who signed the attendance roster was filed in the permanent files of Tampa Bay Water. Staff and consultants presenting to the Board are listed above.

DRAFT

Chairman Cohen called the meeting to order at 9:30 a.m. The meeting was properly noticed in the Florida Administrative Register and a quorum present.

PLEDGE OF ALLEGIANCE

Vice Chair Hanewicz led the Pledge of Allegiance.

ROLL CALL

Roll call was taken. All Board Members were present.

Chairman Cohen asked if there are any changes to the agenda. Chuck Carden, General Manager, stated there were no changes to the agenda.

PUBLIC COMMENT - (3 Minutes per speaker)

Chairman Cohen opened the Regular Board meeting to public comment. The following speaker(s) made public comment to the Board of Directors:

David Ballard Geddis

Public comment was duly recorded and is filed in the permanent records of Tampa Bay Water.

AGENDA

A) CONSENT ITEMS

A.1 January 27, 2025 - Regular Meeting - Draft Agenda Minutes
Approve Minutes.

A.2 Tampa Bay Water Performance Dashboard Update
Receive Report.

A.3 2020 Management and Performance Audit Task Update
Receive Report.

A.4 Legislative and Grant Funding Program Update
Receive Report.

A.5 Regional Water Supplies, Member Demands and Environmental Conditions

Receive Report.

A.6 Hurricane Response on Tampa Bay Water's Infrastructure for Hurricanes Helene and Milton
Receive Report.

A.7 South Hillsborough County Program Update
Receive Report.

A.8 Water Quality Update
Receive Report.

A.9 Tampa Bay Water Wise Update
Receive Report.

A.10 Long-term Master Water Plan Feasibility Program and Developmental Alternatives Study Status Report
Receive Report.

A.11 Capital Improvements Program Executive Quarterly Report
Receive Report.

A.12 Capital Improvement Program - Task Order Authorization
Approve Task Orders.

A.13 Surface Water Treatment Plant Expansion, Project No. 01014, Project Status Report
Receive Report.

A.14 South Hillsborough Pipeline, Projects 01610 and 01606 - Property Acquisition Status Report
Receive Report.

A.15 South Hillsborough Pipeline, Project Nos. 01610 and 01616 - Adopt Eminent Domain Resolution
It is recommended that the Board adopt the attached Resolution 2025-005 declaring the public purpose of the South Hillsborough Pipeline, determining the necessity of acquiring the parcels for the project, and authorizing the initiation of eminent domain proceedings.

A.16 Eldridge-Wilde Wellfield Pumps and Motors Replacement and Underground Powerline Replacement, Project No's. 50016 and 50040 - Contract No. 2016-031 First Amendment with Black and Veatch
Approve First Amendment to Contract No. 2016-031 with Black and Veatch.

A.17 Cross Bar Ranch Wellfield Water Transmission Main Utility Conflict, Project No. 07153 - Submittal of Environmental Resource Program Permit Application
Approve submittal of the Environmental Resource Program Permit Application for the Cross Bar Ranch Wellfield Transmission Utility Conflict Project No. 07153.

A.18 Cosme Water Treatment Plant Yard Piping Improvements, Project No. 07131, Contract No. 2021-046 Task Authorization
Approve negotiated work assignment with Amici Engineering Contractors under Contract No. 2021-046.

A.19 As Needed Professional Services Agreement - Second Amendment for Name Change from WSP USA Environment & Infrastructure, Inc. to WSP USA, Inc. and Exercise the First Option Year Renewal, Contract No. 2022-031
Approve the Second Amendment to Contract No. 2022-031 with WSP USA Inc., formerly known as WSP USA Environment & Infrastructure, Inc.

A.20 Security Guard Services, Contract No. 2025714 with Universal Protection Service, LLC d/b/a Allied Universal Security Services, LLC in the amount of $1,162,950.00.
Approve Contract No. 2025714 with Universal Protection Service, LLC d/b/a Allied Universal Security Services, LLC in a not to exceed value of $1,162,950.00.

A.21 Sole-Source Procurement No. 2025-509 for Analytical Equipment, Replacement Parts and Consumable Supplies with Hach Company
Approve Sole-Source Procurement for Hach Company Analytical Equipment, Replacement Parts and Consumable Supplies.

A.22 Contract Option Year Renewals
Approve contract renewals.

A.23 Fiscal Year 2024 Year-end Reporting of Encumbered and Unencumbered Funds Transfers Receive Report.

Motion: Councilman Miranda moved to Approve CONSENT ITEMS. Mayor Davis seconded the motion.

Vote: The motion CARRIED by a vote of 9 - 0.

REGULAR AGENDA

B) GENERAL MANAGER & GENERAL COUNSEL

B.1 General Manager's Report
Receive Report.

Chuck Carden, General Manager, provided an update on the agency's regional system, PFAS litigation, Knowledge to Implementation (K2i) platform, City of Tampa Permit Renewal, General Manager's Quarterly Travel, the agency's Hurricane Response - Improvement Report, and recent outreach efforts. Mr. Carden congratulated the agency's Finance Team for receiving the GFOA's Award for Outstanding Achievement in Popular Annual Finance Reporting, and the Purchasing Department for receiving the Award for Excellence in Public Procurement from the Florida Association of Public Procurement Officials.

Mr. Carden addressed questions concerning fueling options during hurricanes, meeting with member governments to discuss strengths and weaknesses, and easement issues and concerns.

B.2 General Counsel Contract Renewal
Approve Contract 2025-045.

Kelly Fernandez, General Counsel, spoke briefly about the renewal of the contract and the proposed changes to the contract. Ms. Fernandez noted that she and David Jackson have spoken to each board member on the renewal and changes.

Ms. Fernandez addressed Board comments and questions concerning the contract increase and termination date.

Motion: Council Member Hanewicz moved to Approve the General Counsel Contract Renewal as amended to extend the contract for one year with the proposed increase, with no automatic renewal and no automatic increase, and to schedule a discussion for contract renewal at least 60 days prior to termination of the contract. Councilman Miranda seconded the motion.

Vote: The motion CARRIED by a vote of 9 - 0.

C) ACTION ITEMS

C.1 South Hillsborough Pipeline, Restated and Amended Joint Project Agreement with Hillsborough County

Maribel Medina, Projects and Planning Director, provided an update on the South Hillsborough Pipeline, Restated and Amended Joint Project Agreement (JPA) with

Hillsborough County. She noted that Hillsborough County approved the Amended JPA at their February 19, 2025 Board meeting. The Amended JPA includes the addition of the county-requested infrastructure and identifies the location of the new Point of Connection at the Balm (AgMart) Water Resources Department future Water Campus, and adds the design and construction for improvements at the County's Lithia Water Treatment Plant. The requests will be funded 100% by the County.

Motion: Commissioner Eggers moved to Approve the Amended and Restated Joint Project Agreement with Hillsborough County. Commissioner Wostal seconded the motion.

Vote: The motion carried by a vote of 9 - 0.

C.2 Surface Water Treatment Plant SCADA System Upgrade, Project No. 06912, Amendment 2025-17 for Design Phase Services of Agreement No. 2000-028 with Veolia Water North America - South, LLC
Approve Amendment 2025-17 of Agreement 2000-028 with Veolia Water North America - South, LLC.

Maribel Medina, Projects and Planning Director, provided an update on the Surface Water Treatment Plant SCADA System Upgrade. Ms. Medina stated the upgrade is included in the agency's Capital Improvement Program (CIP). The project, which will take place in two phases. Phase 1 includes the design of upgrades and improvements of the existing SCADA system with the expanded facilities.

Motion: Council Member Hanewicz moved to Approve the Surface Water Treatment Plant SCADA System Upgrade, Amendment 2025-17 of Agreement 2000-028 with Veolia Water North America - South, LLC. Commissioner Wostal seconded the motion.

Vote: The motion CARRIED by a vote of 9 - 0.

D) PRESENTATIONS & REPORTS

D.1 Reports of Certified Public Accountants Regarding Financial Statements for the Year Ended September 30, 2024
Receive Report.

Christina Sackett, Chief Finance Officer, stated an independent audit of the agency's financial statements for fiscal year 2024 was completed by Mauldin & Jenkins. Ms. Sackett introduced Garrett Marlowe, auditor with Mauldin & Jenkins, to provide the audit results. Mr. Marlowe provided a brief history of Mauldin & Jenkins. Mr. Marlowe stated Mauldin & Jenkins have issued an unmodified opinion, which is the highest form of assurance they can render with regards to the fairness of the financial statements. No significant difficulties were encountered

or issues discussed with management and there was no auditor proposed adjustments, no uncorrected misstatements and no disagreements with management. Mr. Marlowe reviewed statistical schedules for 2024 including water sales, operating expenses, revenues by member government for 2023 and 2024, and the total debt and capital assets from 2015 through 2024.

D.2 Annual Demand Forecast Update and Evaluation
Receive Report.

Warren Hogg, Chief Science Officer, provided an update on the Annual Demand Forecast. Mr. Hoggs stated the forecast projections are for seven Water Demand Planning areas that coincide with member government service areas. This updated demand forecast is for the Tampa Bay area for Fiscal Years 2025 through 2044. Mr. Hogg stated the median demand for the year 2044 has decreased by approximately 3 million gallons per day (mgd) since last year's update. Next, Mr. Hogg reviewed the probabilistic demand forecast and next steps.

Mr. Hogg addressed questions on meeting water requirements, zoning changes, decrease from 2023 to 2024, adjusting for urban growth, and water supplies.

D.3 Capital Improvements Program - Construction Update
Receive Presentation.

Rick Menzies, Construction Manager, provided an update on the Capital Improvement Program Construction. Mr. Menzies provided updates on the seven active projects, nine upcoming projects, and recently completed projects.

Mr. Menzies addressed questions concerning Cross Bar Ranch. Mr. Carden addressed questions concerning the desalination facility.

E) OTHER ADMINISTRATIVE MATTERS AND OLD BUSINESS

E.1 Election of Officers - Board Organizational Action
Elect a Chairman and Vice-Chairman to serve for a one-year term of office.

Chairman Cohen passed the gavel to Chuck Carden, General Manager. Mr. Carden opened the nominations for the position of Chairman of the Tampa Bay Water Board of Directors. Councilman Miranda nominated Commissioner Cohen as Chairman. With no other nominations, Mr. Carden closed nominations and requested a vote on Commissioner Cohen as Chairman to serve for a one-year term of office.

Vote: Commissioner Cohen was elected Chairman by vote of 9-0 of the Board.

Chairman Cohen opened the nominations for Vice Chairman of Tampa Bay Water Board of Directors. Councilman Miranda nominated Council Member Hanewicz as Vice Chairman. With no other nominations, Chairman Cohen closed nominations and requested a vote on Council Member Hanewicz as Vice Chairman to serve for a one-year term of office.

Vote: Council Member Hanewicz was elected Vice Chairman by a vote of 9-0.

PUBLIC COMMENT - (3 Minutes per speaker)

Chairman Cohen stated there was another individual requesting the opportunity to make public comment. The following speaker made public comment to the Board of Directors:

Mary Odum

Public comment was duly recorded and is filed in the permanent records of Tampa Bay Water.

F) RECEIVE & FILE

F.1 Agency Division Activity Reports for January 2025
Receive and File.

F.2 Legal Services Activity Report for January 2025
Receive and File.

F.3 Legal Services Budget Report through January 31, 2025
Receive and File.

F.4 Comprehensive Check List with Delegated Check Approval Items for January 2025
Receive and File.

F.5 Disposition of Fixed Assets for January 2025
Receive and File.

F.6 Financial Statement - January 2025
Receive and File.

F.7 Investment Schedules for January 2025
Receive and File.

F.8 Potential True-Up of Fixed Costs between Member Governments through January 2025
Receive and File.

F.9 Vendor's Status Report for January 2025
Receive and File.

Motion: Councilman Miranda moved to Approve RECEIVE & FILE. Commissioner Wostal seconded the motion.

Vote: The motion CARRIED by a vote of 9 - 0.

ADJOURNMENT

The meeting adjourned at 10:49 a.m.

Attest: _____
Charles H. Carden, General Manager/Secretary

Date: _____

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.2

DATE: March 4, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Shane Johnson, Continuous Improvement Director

SUBJECT: Tampa Bay Water Performance Dashboard Update - *Receive Report*

SUMMARY

Tampa Bay Water's performance dashboard measures key performance indicators against Tampa Bay Water's internal benchmarks and policies and American Water Works Association's water utility industry benchmarks. The attached performance dashboard provides overall agency performance to the Board of Directors.

SUGGESTED ACTION

Receive Report.

COST/FUNDING SOURCE

N/A

DISCUSSION

Tampa Bay Water staff updated the Board Performance Dashboard to measure key performance indicators identified in the strategic plan and established by agency staff. Regular reports on performance are provided to the Board of Directors with the agenda package. The Board Performance Dashboard has been updated to include metrics aligned with the updated strategic plan, and the most recent benchmarks from the 2022 American Water Works Association Utility Benchmarking Study. These metrics are intended to provide the Board of Directors with a snapshot of the Agency's current

performance.

BACKGROUND

Tampa Bay Water strives to continually improve and become more efficient in operating and maintaining the water supply system and planning for the region's future drinking water needs. In 2023, the Agency's Board of Directors approved the current strategic plan. The Agency assigned key performance indicators to the strategic plan goals for measuring against Tampa Bay Water's internal benchmarks and policies, and the American Water Works Association's water utility industry benchmarks using a performance dashboard. The dashboard uses key performance indicators created as part of the update to the strategic plan and established by agency staff.

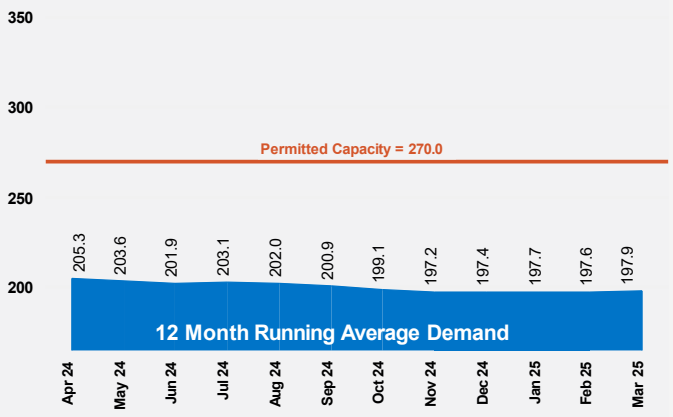
Attachment (1)

Tampa Bay Water Overall Performance Dashboard March 2025

Tampa Bay Water Overall Performance Dashboard

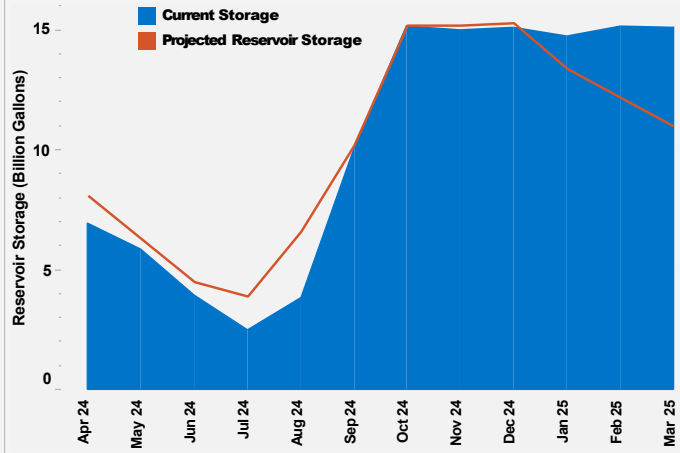
Available Capacity

This indicator shows how much water the utility is permitted to use and the 12 month running average demand. Average demand should not exceed permitted capacity.



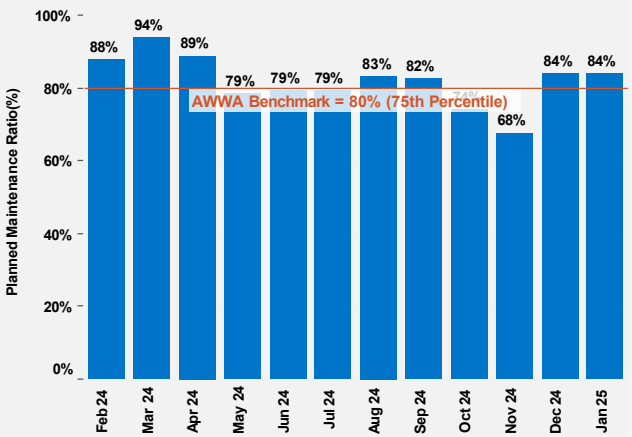
Meeting Projected Reservoir Storage Volume

This indicator provides a measure of the reliability of the utility's forecasted reservoir use by comparing forecasted storage against actual levels.



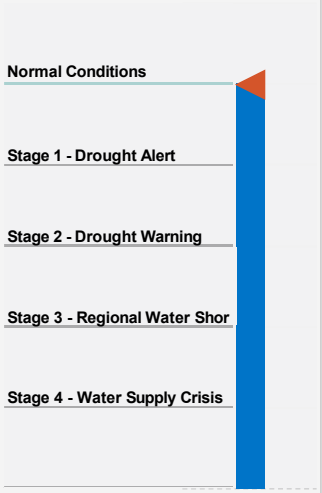
Planned Maintenance Time

This indicator provides a measure of the time spent on planned maintenance shown as a percent of total maintenance time. Utilities should strive to be above the AWWA 2022 benchmark.



Water Shortage Mitigation

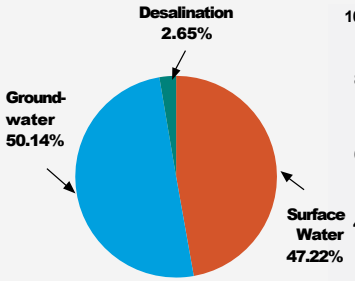
This chart highlights the current stage of Water Shortage Mitigation Plan of Tampa Bay Water.



Water Sources / Water Use Permits / Water Quality

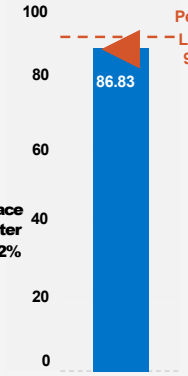
Total Production by Sources Fiscal Year To Date

This chart provides the percentage distribution of sources used to supply water.



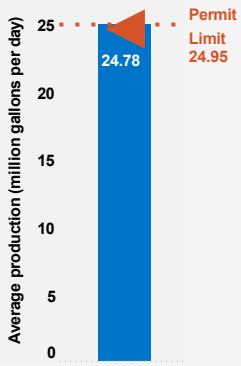
Consolidated Water Use Permit

This indicator provides the 12-month running average for groundwater pumping rate from 10 wellfields and corresponding permit limit.



South-Central Hillsborough Wellfield Permit

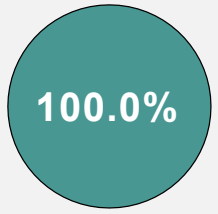
This indicator provides the 12-month running average for groundwater pumping rate from the South-Central Hillsborough Wellfield against its approved pumping limit.



Safe Drinking Water Act Compliance

This indicator quantifies the percentage of time each year that the utility meets all standards in the Safe Drinking Water Act National Primary Drinking Water Regulations averaged over the previous 12 months.

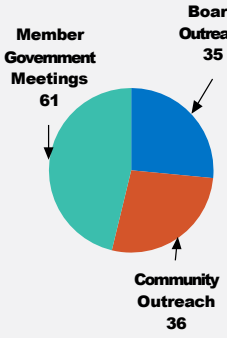
AWWA Benchmark: **100%**



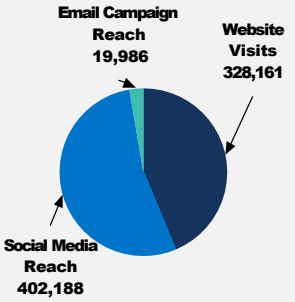
Stakeholder Outreach Fiscal Year To Date

These charts show stakeholder outreach activities of the agency by digital means and through other engagements.

Engagement and Outreach



Digital Reach

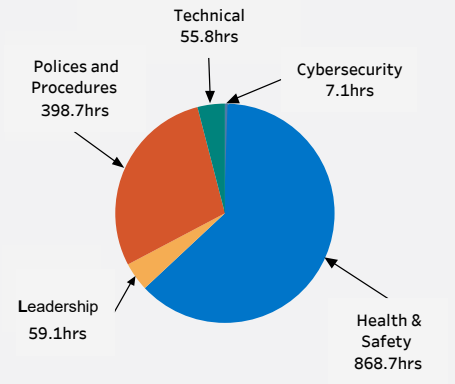


American Water Works Association (AWWA) benchmarks are based on results from participating utilities in the 2022 Utility Benchmarking Study. Participating utilities include retail entities with factors not relevant to wholesale utilities like Tampa Bay Water.

Tampa Bay Water Overall Performance Dashboard

Employee Training Fiscal Year To Date

This chart shows the categories of training provided to Tampa Bay Water employees and the total number of hours of training for each category to date in Fiscal Year 2025. (Source: NeoGov). Total Hours of Training this Fiscal Year: 1389.4hrs



Optimized Staffing Levels

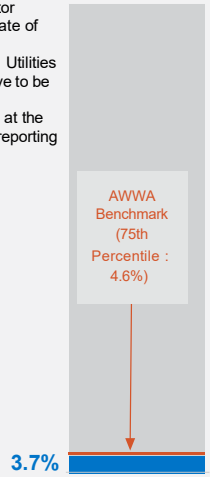
Current Filled Positions

This indicator provides a measure of filled, full-time positions shown as a percentage of total positions for the fiscal year to date.

Current Filled Positions..	Current Staff Level(FTE)
154	163

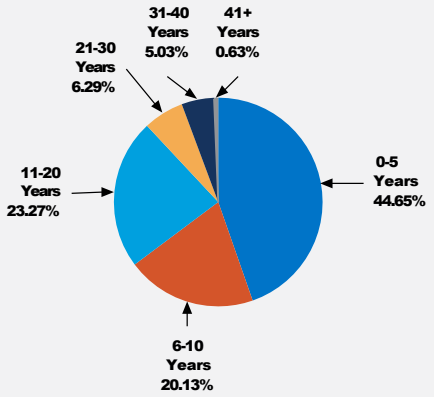
Employee Turnover For Last Month

This indicator quantifies rate of employee departures. Utilities should strive to be below the benchmark at the end of the reporting period.



Employee Experience Distribution

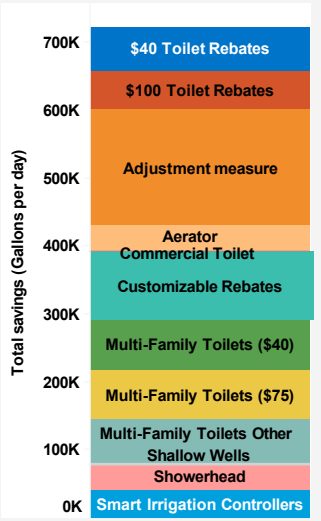
This chart shows relative distribution (percentage) of number of employees based on their total years of experience across all departments for fiscal year to date (Source: Munis).



Tampa Bay Water Wise Program Savings

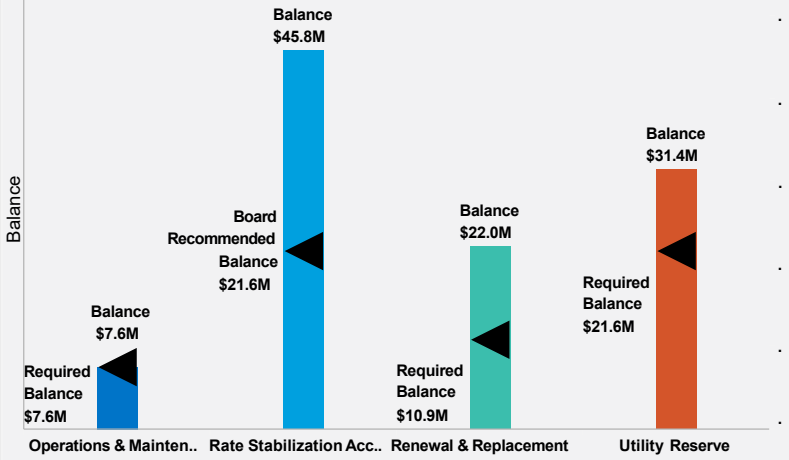
This chart shows the rebate program savings (gallons per day) for all programs since its inception on March 30, 2020.

(Source: Tampa Bay Water Wise Dashboard)



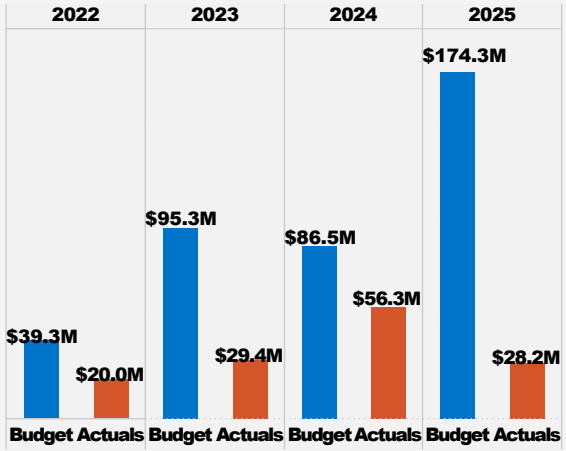
Reserve Funds Balance

This chart tracks the utility's total reserve fund balance across all types against its total contractual or policy based minimums (data is current as of February 2025).



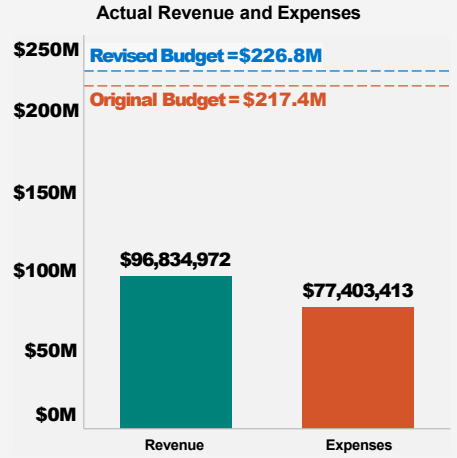
Capital Improvement Program

This chart shows the approved budget of the Capital Improvement Program against actual expenditures over fiscal years including fiscal year to date (Source: Masterworks/Munis).



Operating Within Budgets As Forecasted

This indicator provides a measure of the utility's ability to operate within budget forecasts for Fiscal Year (data current as of February 2025).



American Water Works Association (AWWA) benchmarks are based on results from participating utilities in the 2022 Utility Benchmarking Study. Participating utilities include retail entities with factors not relevant to wholesale utilities like Tampa Bay Water.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.3

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Warren Hogg, Chief Science Officer

SUBJECT: Regional Water Supplies, Member Demands and Environmental Conditions - *Receive Report*

SUMMARY

This item provides the status of Tampa Bay Water's water demand and water supply conditions including hydrologic conditions, climate, surface water and reservoir management, and source rotation. Water Shortage Mitigation Plan status and an outlook for the spring season are also included.

SUGGESTED ACTION

Receive Report.

COST/FUNDING SOURCE

N/A

DISCUSSION

Summary Highlights

Since the beginning of this fiscal year through February 28, 2025, the Agency delivered an average of 195.10 million gallons per day (mgd) to meet the member government demands. This is 2.71 mgd (1.4%) less water delivered than for the same period last year. Although below-average rainfall was

received in November 2024 through February 2025, the rainfall received from Hurricane Milton at the beginning of October sustained normal to above-normal river flow conditions through February 2025. A summary of demand and hydrologic conditions are highlighted below.

- The region received 2.1 inches of rainfall in February 2025, which is 0.7 inch below the long-term average for February.
- The Regional Reservoir storage volume was 15.11 billion gallons as of February 28, 2025 (97.5% full).
- The 12-month running average pumping rate for the Consolidated Permit Wellfields was 86.83 mgd at the end of February 2025.
- The 12-month running average pumping rate for the South-central Hillsborough Regional Wellfield was 24.78 mgd at the end of February 2025, which is 0.17 mgd below the permit limit of 24.95 mgd.

Climate Outlook

The climate outlook issued by the National Oceanic and Atmospheric Administration (NOAA) on March 3, 2025, is for a La Niña Advisory, indicating that La Niña climate conditions are present and should persist through March to May 2025. A La Niña climate condition often brings reduced rainfall and warmer temperatures to our region in the winter and early spring months and staff is closely monitoring these forecasts. The 90-day climate outlook issued by NOAA on February 20, 2025, predicts below-average precipitation and above-normal temperatures in Florida for the period of March to May 2025.

Hydrologic Conditions

The Tampa Bay region received 2.1 inches of rain in February 2025, based on average rainfall from all gauges throughout the service area (Figure 1). This is approximately 0.7 inch below average for the month of February. Streamflow in the Alafia River has steadily declined since October and was normal for February 2025. Streamflow in the Hillsborough River also declined but remained above normal for February 2025 (Figure 2):

- Average monthly flow in the Alafia River was 105 mgd for February 2025.
- Average monthly flow in the Hillsborough River was 127 mgd for February 2025.

Water Demand and Supply Summary

The Water Year 2025 budgeted annual delivery to Tampa Bay Water's member governments is 209.7 mgd. The budgeted water delivery is based on the Agency's long-term demand forecasting models and a planned annual average delivery of 4.1 mgd to the City of Tampa during the Water Year. Total average delivery to the member governments in February 2025 was 192.18 mgd. This was 3.62 mgd (2%) more water delivered for February 2025 as compared to February 2024. Below-average rainfall, as well as relatively warmer temperatures for much of February 2025, increased outdoor water use in the region. Treated surface water totaled 90.0 mgd in February 2025. Repair of the Tampa Bay Seawater

Desalination Facility, as approved by the Board, is complete and this facility resumed production of desalinated seawater on December 18, 2024. Surface water withdrawals and conditions for February 2025 were as follows:

- Average withdrawal from the Tampa Bypass Canal was 56.35 mgd in February 2025.
- Average withdrawal from the Alafia River was 26.10 mgd in February 2025.
- The District approved an Emergency Order on January 30, 2024, allowing Tampa Bay Water to increase withdrawal from the Alafia River from 10% to 19% of flow above the established Minimum Flow for the river. This Emergency Order was extended on July 31, 2024 through March 31, 2025 and also temporarily increased the maximum withdrawal amount from 60 mgd to 75 mgd from the Alafia River Pumping Station. This order was granted to help Tampa Bay Water store as much river water as possible in the Regional Reservoir for use in the 2025 dry season.
- The average diversion from the Regional Reservoir to support surface water production at the regional surface water treatment facility was 7.9 mgd in February 2025.
- The City of Tampa's Hillsborough River Reservoir was at an elevation of 21.68 ft. at the end of February 2025. No water diversion through Harney augmentation occurred in February 2025.
- No water was purchased by the City of Tampa at the Morris Bridge Point of Connection in February 2025.
- The Tampa Bay Seawater Desalination Facility resumed production of desalinated seawater in December 2024 and the average production in February 2025 was 9.0 mgd.
- The Regional Reservoir stored volume was 15.11 billion gallons at the end of February 2025 (97.5% full).
- Aggregate groundwater production from the 13 Tampa Bay Water wellfields averaged 94.69 mgd in February 2025.
- Production from the Consolidated Permit Wellfields averaged 66.84 mgd in February 2025. The 12-month running average withdrawal rate was 86.83 mgd through February 28, 2025 (Figure 4).
- The 12-month running average water production rate from the South-central Hillsborough Regional Wellfield was 24.78 mgd through February 28, 2025 (Figure 5). This is 0.17 mgd less than the permit limit of 24.95 mgd.

Comparison of total water production from different supply sources through the end of February between Water Year 2024 and Water Year 2025 is shown in Figure 6. Tampa Bay Water continues to work with Hillsborough County to implement supply and demand management measures in the South Hillsborough County service area. Hillsborough County continues to take approximately 3 mgd of additional regional water at their Central Point of Connection following changes made in their distribution system in late June 2023. This allows Tampa Bay Water to reduce the pumping rate at the South-central Hillsborough Regional Wellfield by an equal amount. Additional regional water supply delivery to the Lithia Point of Connection started through the temporary Brandon Booster Station in August 2022. The permanent Booster Station is now online and has increased the regional water flow to Lithia by up to 7 mgd, based on regional water availability. This additional regional water flow to Lithia also reduces the pumping rate from the South-central Hillsborough Regional Wellfield by an equal amount. The 12-month running average pumping rate from the wellfield is expected to remain close to the permit limit for the remainder of the fiscal year considering the continued growth in water

demand in the service area. An application for a Water Use Permit modification through a net-benefit transfer will be submitted to the Southwest Florida Water Management District in March to transfer groundwater credits acquired from two donor water use permits which agreed to retire permitted quantities. This quantity includes a 10% net benefit to the Upper Floridan Aquifer and upon approval, will increase the South-central Hillsborough Regional Wellfield annual average permit limit to 26.923 mgd.

Environmental Conditions

Tampa Bay Water closely monitors the environmental conditions around Agency wellfields and this data is used to guide production and wellfield management decisions. The water levels in area lakes and wetlands, which have a strong relation to rainfall conditions, were lower than expected through early summer 2024 then increased substantially with the rainfall from multiple hurricanes. Below-average rainfall in November 2024 through February 2025 resulted in a decrease in surface water levels. General water level changes are summarized as follows:

- Groundwater levels generally decreased by about 0.3 foot during February 2025.
- Groundwater levels in February 2025 were generally 1.23 feet higher than in February 2024.
- Average water levels in the 10 indicator lakes and wetlands located on and near Consolidated Permit Wellfields decreased about 1.6 inches through February 2025 (based on data collected throughout the month, not necessarily end-of-month).
- Average water levels in the 10 indicator lakes and wetlands in February 2025 were about 20.8 inches higher than water levels in February 2024.

Water Shortage Mitigation Plan

The Board approved the updated Water Shortage Mitigation Plan (WSMP) in April 2017. The WSMP uses rainfall, stream flow, and reservoir storage as indicators of the health of the region's water supplies. Figure 7 shows the surplus/deficit for regional rainfall and Hillsborough River flow for the past year.

- The Tampa Bay Water service area exited the Stage I Water Shortage Condition in August 2024 and is currently under no water shortage condition.
- Cumulative rainfall in the region was at a 12.9-inch surplus through February 2025.
- Stream flow was at a 36.1-mgd surplus through February 2025.
- The storage volume in the Regional Reservoir was 15.11 billion gallons (97.5% of full storage) on February 28, 2025.

Staff continues to work with the members in collecting watering restriction and conservation information, discussing and exploring various short-term and long-term demand management alternatives, implementing a consistent public awareness campaign throughout the region, and identifying additional opportunities to optimize existing water resources.

BACKGROUND

Data collection, analysis, and interpretation as well as decision-making are ongoing for a multitude of factors that influence and constrain Agency operations. These include hydrologic and environmental conditions, supply and demand conditions, treatment plant parameters, water quality constituents, along with equipment/machinery and infrastructure variables. A summary of monthly information is compiled and provided to the Board in each Agenda Packet and is supplemented as necessary. A summary of highlights is presented annually.

Attachments (1)

Demand, Supply and Environmental Conditions through February 2025

Figure 1: Water Year 2025

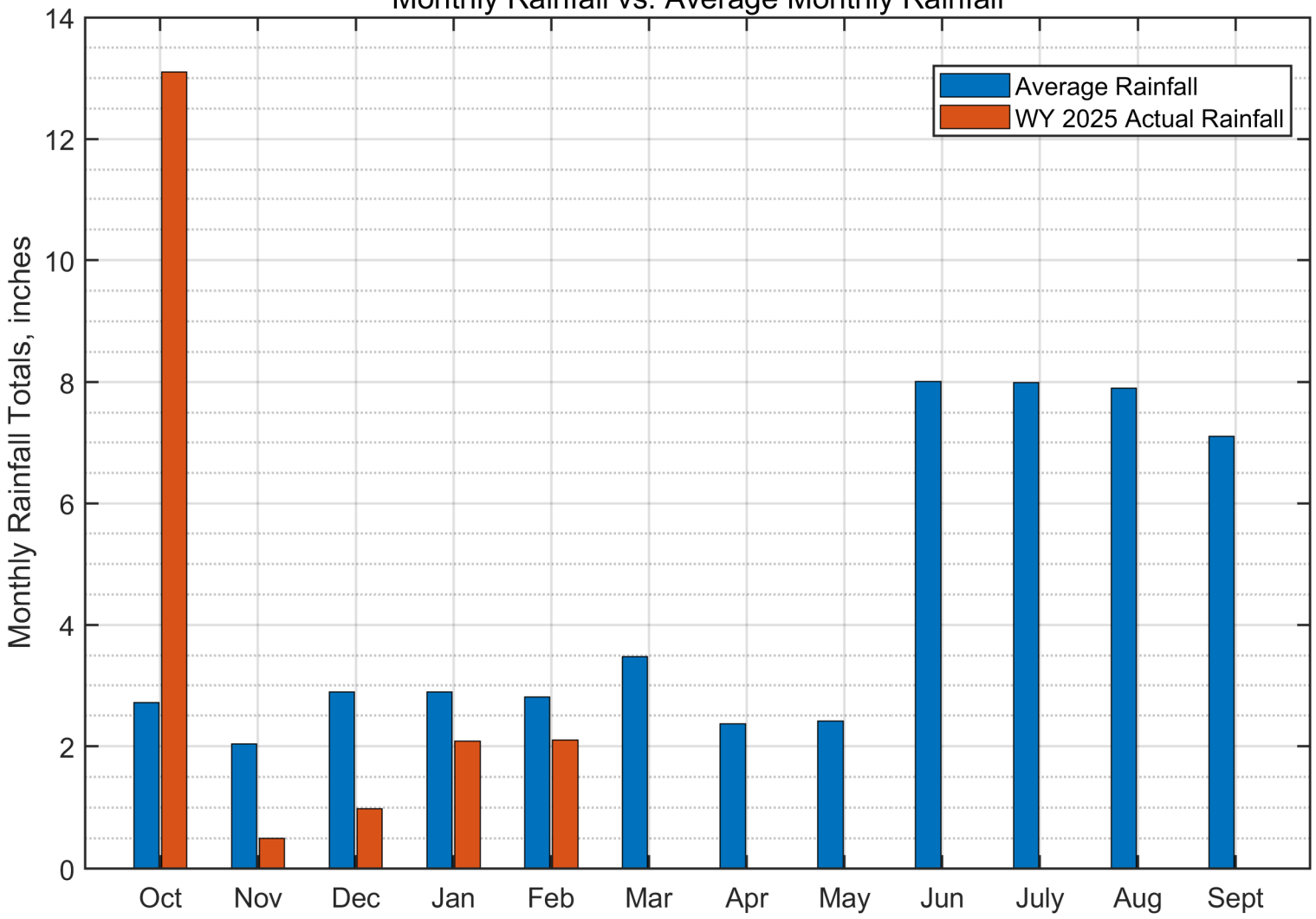


Figure 2: Streamflow Conditions at Alafia and Hillsborough Rivers Through Feb 28 2025

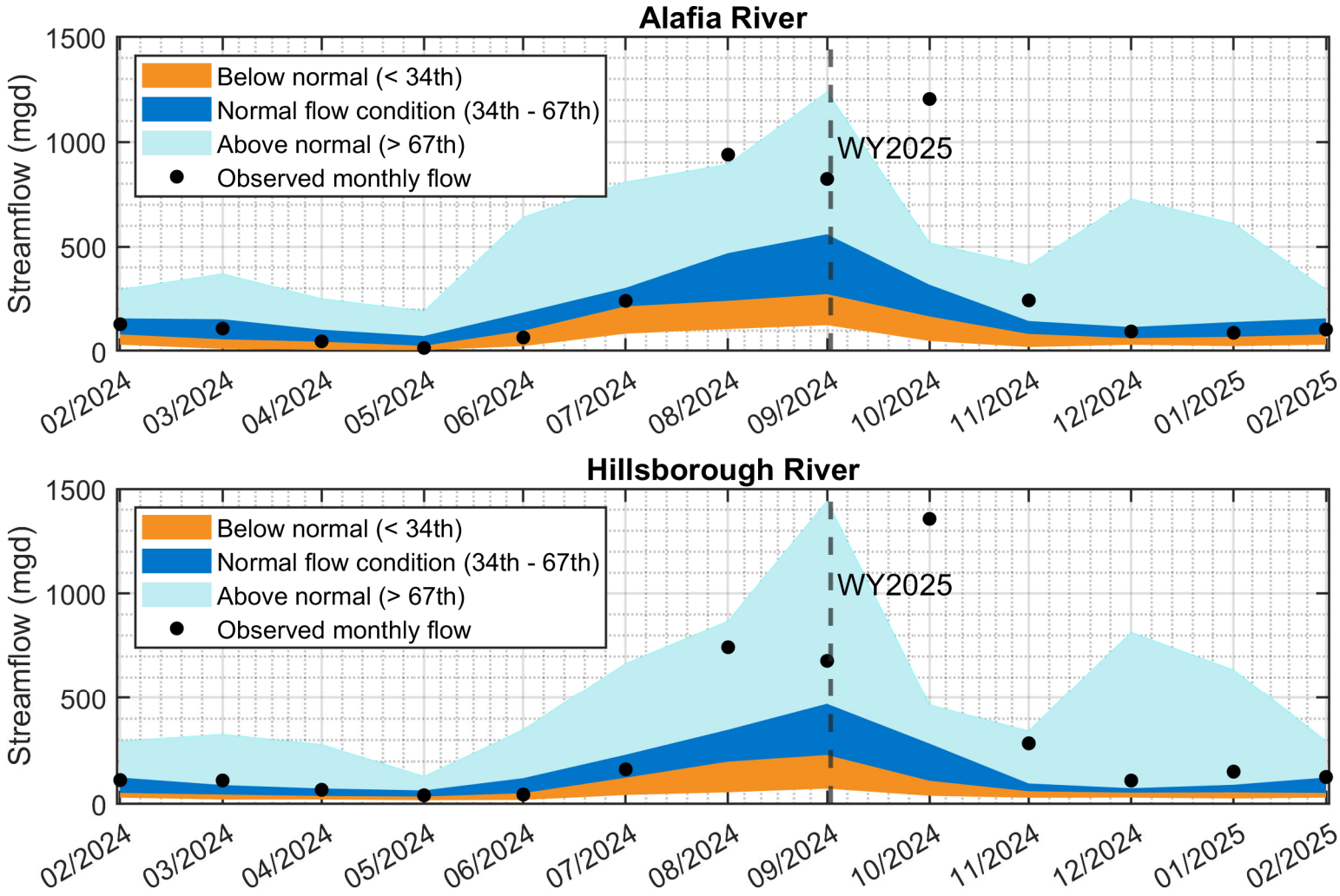


Figure 3: Tampa Bay Water Delivery Through Feb 28
Water Year 2025 Compared To Water Year 2024

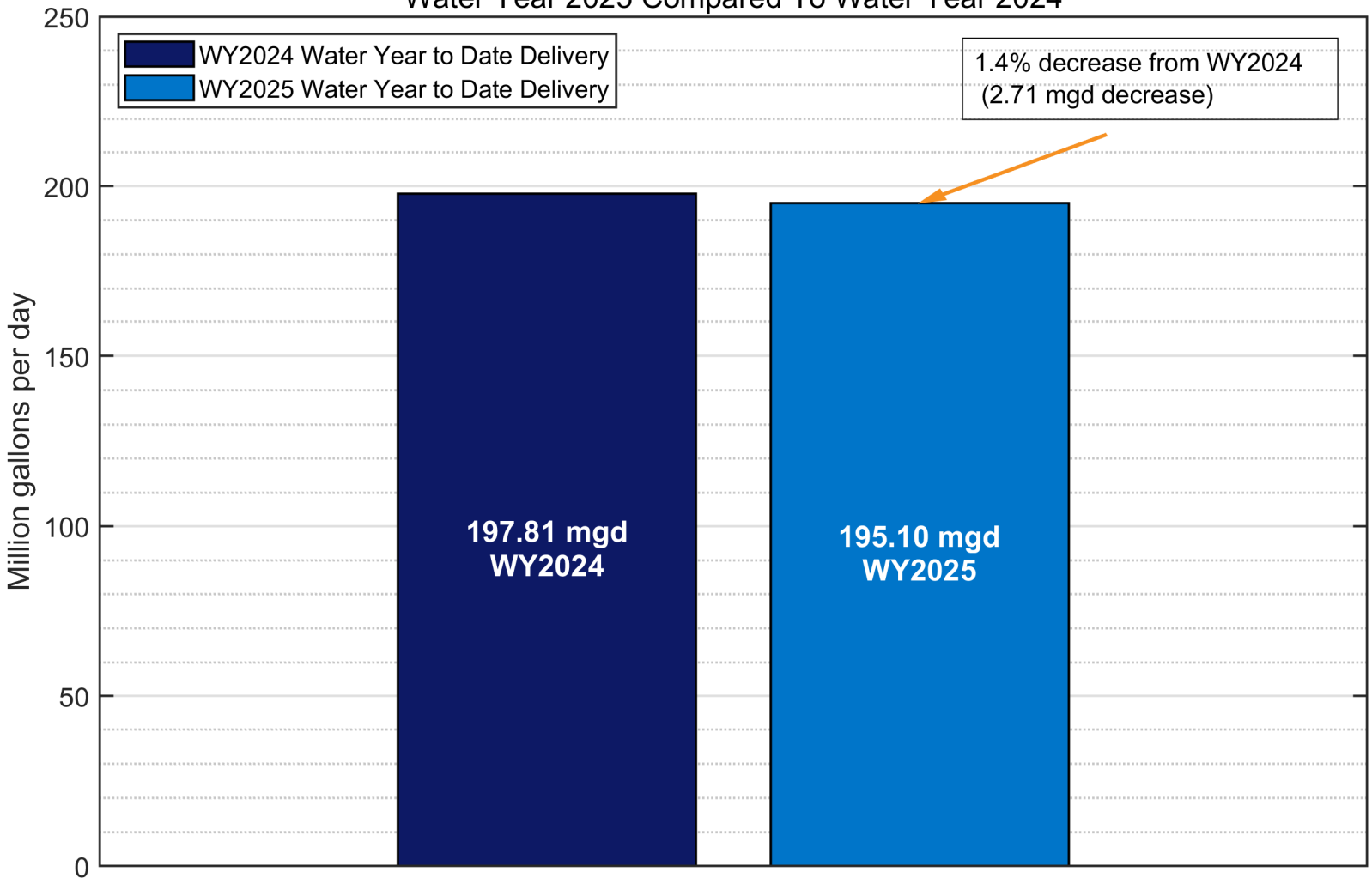


Figure 4: Consolidated Wellfield Production

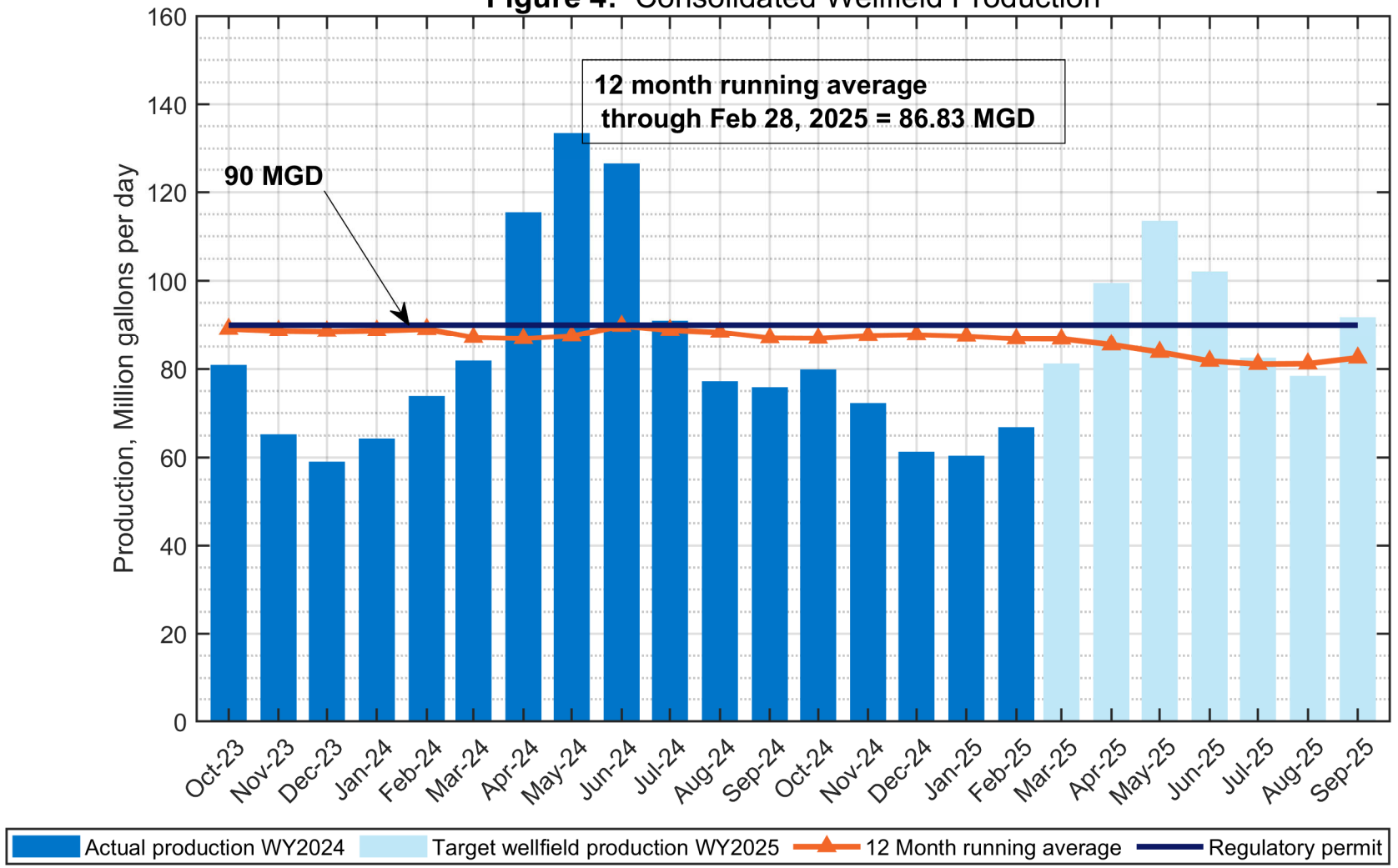


Figure 5: South-Central Hillsborough Regional Wellfield

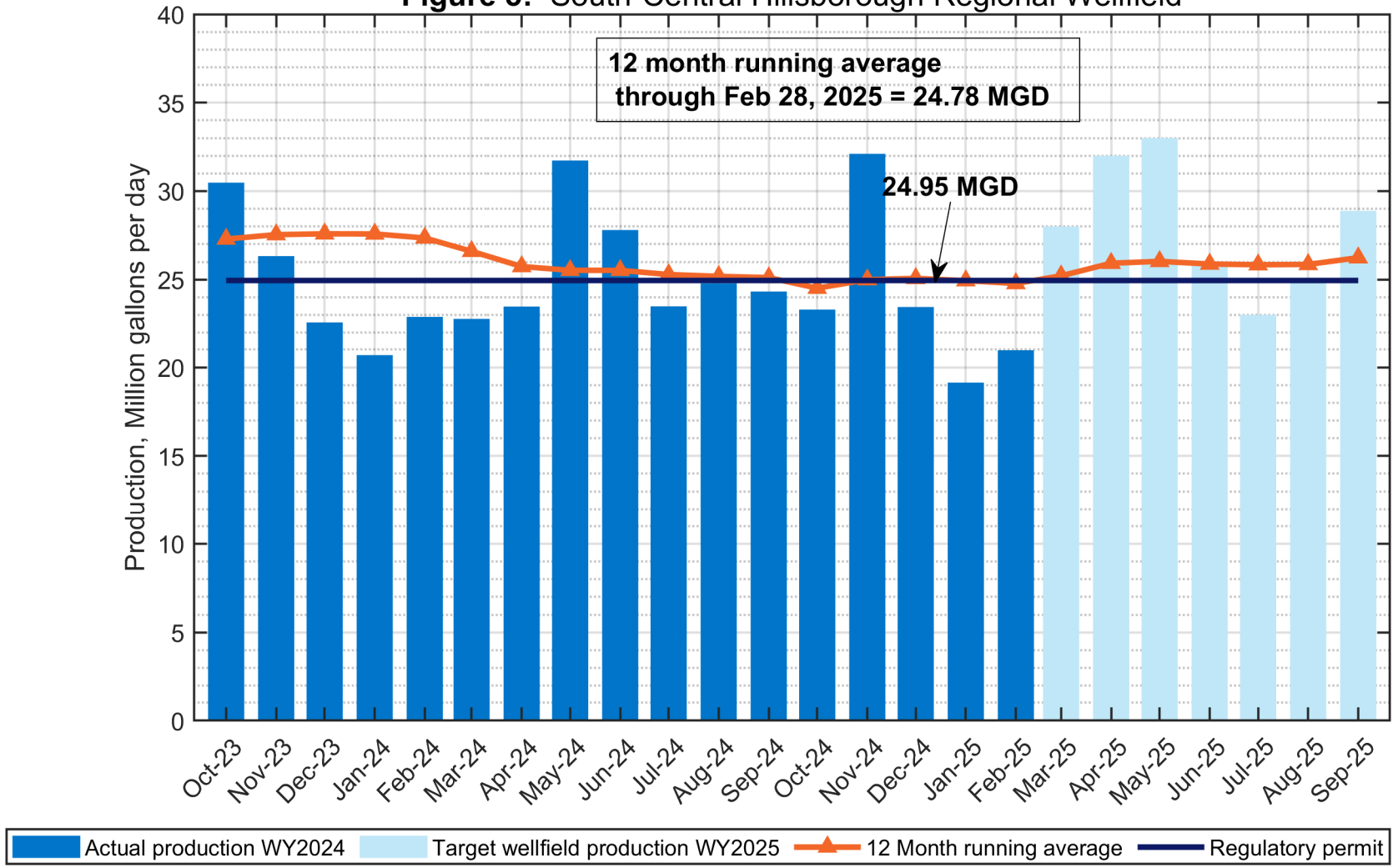


Figure 6: Tampa Bay Water Supply Sources Through Feb 28
Water Year 2024 Compared To Water Year 2025

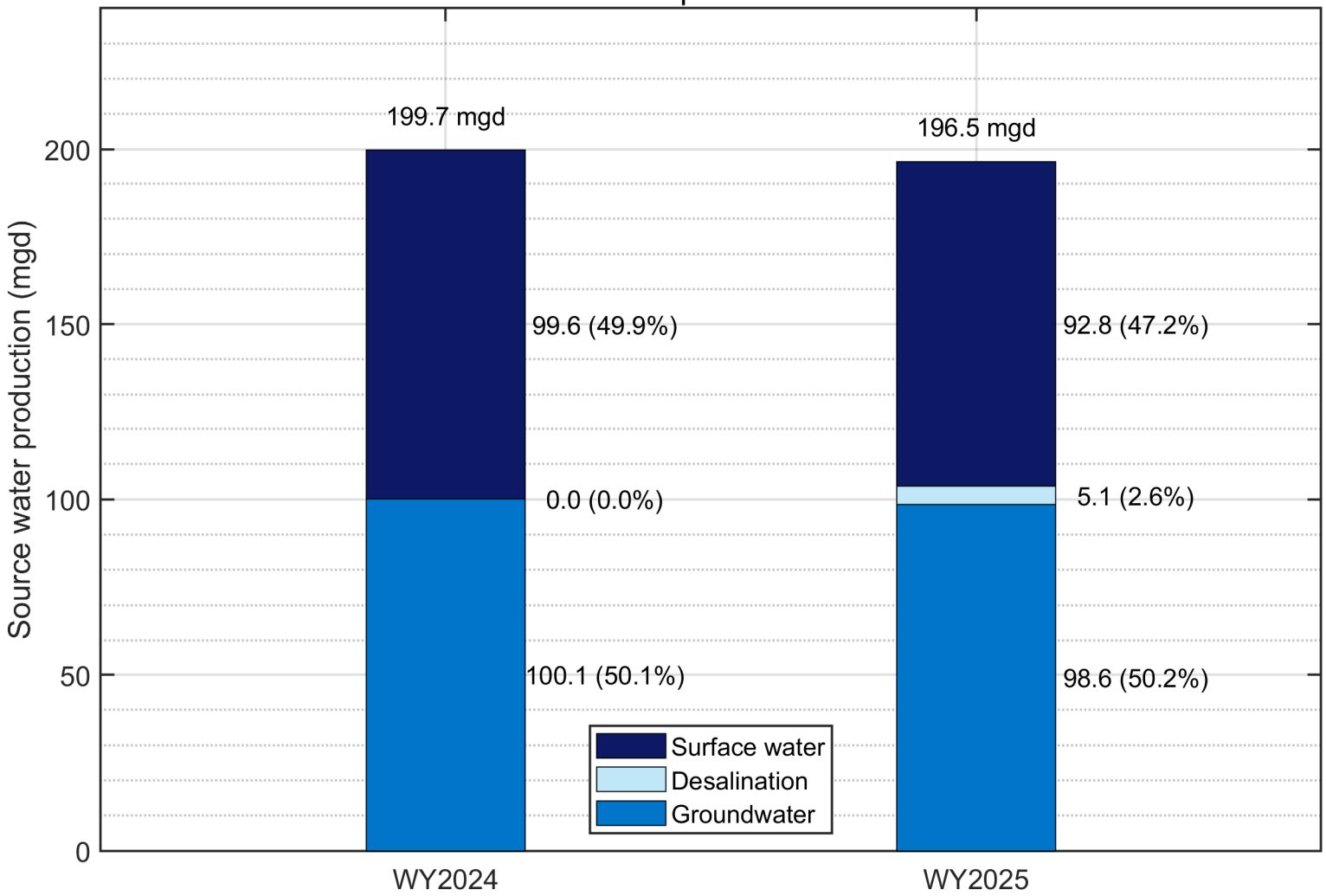
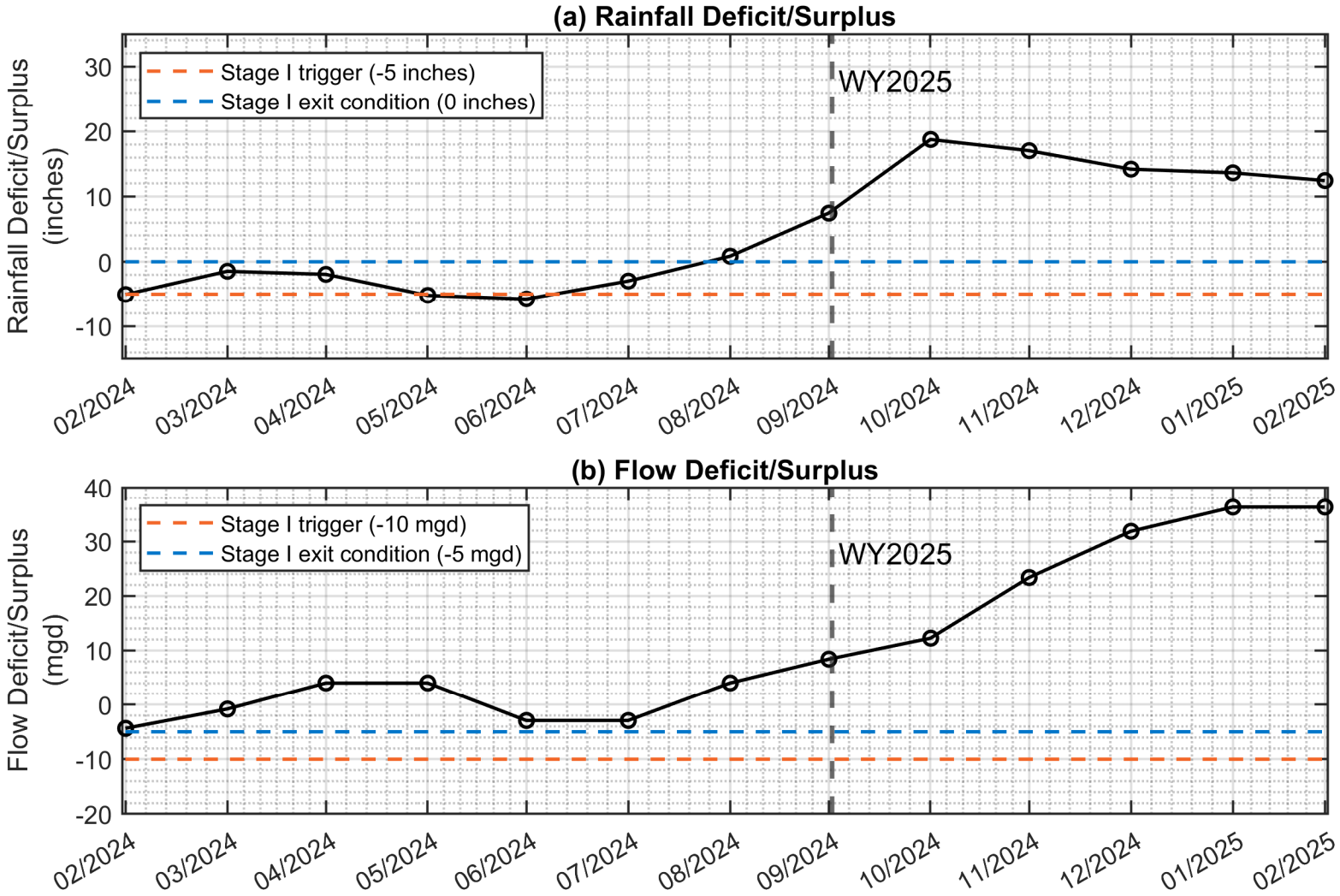


Figure 7: Regional Water Shortage Indicators
Through Feb 28 2025



TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.4

DATE: February 25, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Planning and Projects Director

SUBJECT: Capital Improvement Program - Task Order Authorization - *Approve*

SUMMARY

The 2025-2034 Capital Improvements Program (CIP) was accepted by the Board in May 2024. Task authorizations for individual project activity is required during the duration of the project's life cycle. This monthly report list proposed task assignments and dollar amounts recommended by staff for Board approval. There are no task assignments scheduled for approval during this period.

SUGGESTED ACTION

Approve Task Orders.

COST/FUNDING SOURCE

N/A

DISCUSSION

As identified to the Board on May 4, 2017, Board acceptance of the annual Capital Improvements Program document is an acceptance of the capital projects roadmap. Subsequent Board approvals of individual capital project activity is sought for planning, design and/or construction contracts and/or task authorizations under existing contracts for project fees and assigned funding source. There are no task authorizations scheduled for the period of March 2025 through April 2025.

BACKGROUND

Tampa Bay Water's CIP Plan is a comprehensive ten-year plan of approved and proposed capital projects. The CIP is updated annually and is subject to changes as the needs for specific projects become more defined and as final approval of individual projects is provided by the Board.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.5

DATE: February 27, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Planning and Projects Director

SUBJECT: South Hillsborough County Program Update - *Receive Report*

SUMMARY

Tampa Bay Water and Hillsborough County staff continue to develop additional pumping and transmission (pipeline) capacity to increase supply to rapidly growing South Hillsborough County through the August 2020 Memorandum of Understanding. The status of on-going activities is provided below.

SUGGESTED ACTION

Receive Status Report

COST/FUNDING SOURCE

N/A

DISCUSSION

Tampa Bay Water continues to meet with Hillsborough County staff to coordinate activities to increase wholesale system capacity to serve South Hillsborough County. Wholesale facilities under development include: a new booster pump station on the existing Brandon Transmission Main to increase its capacity by at least 5 million gallons per day (mgd) (now fully operational), a new pipeline system to deliver up to an additional 65 mgd of water supply, acquisition of permitted quantities for transfer to existing and future Tampa Bay Water wellfields, and a potential new wellfield to deliver new water supplies to south

Hillsborough County. This agenda item summarizes the status of the infrastructure projects, water supply projects and the current South-Central Hillsborough Regional Wellfield pumping rate.

Completed Projects:

- High Service Pump Station Expansion: 10 to 12 mgd average pumping capacity
- Lithia Control Valve Replacement: 1 mgd

On-going Projects:

Brandon Booster Station (Project 01609)

The project included acquiring fee property and the design, permitting, and construction of a new in-line booster station in Brandon. The Brandon Booster Station was designed to have flow-boosting capacity of 20 mgd with a net gain in transmission line flow of approximately 5 to 7 mgd. This project will receive up to $5,325,000 through the Southwest Florida Water Management District's (District) Cooperative Funding Initiative. Below is a list of completed and ongoing activities:

- Lithia Point of Connection control valve replacement completed at the end of March 2022.
- Temporary Booster Station became operational in August 2022.
- Permanent Pump Station began operating in February 2024.
- Reimbursement request No. 2 submitted to the District on December 4, 2004. Currently under District's review.

Permits have been closed; project will be brought to the Board for closure once the District's final cooperative funding reimbursement has been received.

South Hillsborough Pipeline (Projects 01610/01616)

This project includes the construction of a new regional transmission main to the South Hillsborough County area. When completed, the pipeline will be able to provide up to an additional 65 mgd of new supply to South Hillsborough County. This project is being cooperatively funded by the Southwest Florida Water Management District's (District) Cooperative Funding Initiative up to $147,954,000 for eligible project costs. The County and Tampa Bay Water entered into a Joint Project Agreement (JPA) in October 2021 for funding of the pipeline segment B. A restated and Amended Join Project Agreement was approved by Hillsborough County Board of County Commissioners (BOCC) and Tampa Bay Water Board in February 2025. Below is a list of completed and ongoing activities:

Design and Project Management

- 60% design received and reviewed. Comments provided to consultants. 90% design ongoing and due in March 2025.
- A 60% design Value Engineering workshop was held on October 16, 2024.
- 60% design cost estimate received. Construction costs were updated after Value Engineering considerations. Construction costs will be further updated once the Guarantee Maximum Price (GMP) No. 2 is received. GMP No.2 includes seven packages including trenchless installation, surveying services, erosion and sediment/environmental measures and controls, land/tree clearing

and arborist services, maintenance.

- Risk management meetings ongoing. Risk Register updated per Value Engineering items. A risk register meeting was held on February 27, 2025, to review all the risks associated with GMP No. 2.
- Basis of Design Report for the connection at the Regional Facilities Site was completed in December 2024.
- Design Engineer is currently revising their piping configuration recommendation and will progress the design to 60% due in May 2025.

Construction

- Guaranteed Maximum Price (GMP) No. 1 for early material procurement approved by the Board in October 2024.
- Owner Direct Purchase Orders issued for pipe and valve materials under GMP No. 1.
- Guaranteed Maximum Price (GMP) No. 2 for early construction activities and trenchless installation of sections of the pipeline is due at the end in March 2025: anticipated board approval in April 2025.

Permitting

- Developed Permitting Matrix.
- U.S. Army Corps of Engineers (USACE), Florida Department of Environmental Protection (FDEP) Environmental Resource Program (ERP) and Environmental Protection. Commission (EPC) permit applications submitted in early December 2024.
- A Transmission Right-Of-Way Joint Use Application has been submitted to Tampa Electric Company (TECO) for review and approval. The team will present to TECO's land use committee meeting on March 13th, 2025.
- A Minor Work Permit Application to Perform Work in Waters of the Hillsborough County Port District is being developed for submittal to Port Tampa Bay for approval.
- A CSX Utility Permit Application is being developed to submit to CSX Transportation for review and approval.

Property Acquisition

- Continued voluntary property acquisition activities. Statutory offer packages began mailing out and will continue. A property acquisition status report is provided as a separate item in this agenda packet. Fifty-nine parcels closed through January 2025.
- Tampa Bay Water approved the Right of Way Agreement with Hillsborough County needed for pipeline construction. The agreement is now fully executed. Continued to obtain Right of Entries for site visits, and data collection.
- Second and Third Eminent Domain Resolutions were approved at the January 2025 Board meeting and the fourth resolution was approved at the February 2025 Board meeting.

Joint Project Agreement

- The Amended and Restated Joint Project Agreement (JPA) was approved by the County's Board

of County Commissioners on February 19, 2025, and by Tampa Bay Water's Board on February 24, 2025.

- The Amended and Restated Joint Project Agreement (JPA) with Hillsborough County updated project cost estimates, funding commitments, and defined the Point of Connection locations at the Lithia Water Treatment Plant and Balm (AgMart) Water Resources Department Water Campus. Additionally, includes County- requested infrastructure including a full-size tee connection along the Segment A pipeline for a future Point of Connection and the design and construction of improvements at the County's Lithia Water Treatment Plant. Both of these additional requests will be funded 100% by the County.

Southwest Florida Water Management District (District) Cooperative Funding Agreement

- The District continues to update the Cooperative Funding Agreement
- Request for Board approval of the Amendment to the District Cooperative Funding Agreement is expected April or May 2025.
- Staff has submitted to the District the third reimbursement request.

South Hillsborough Wellfield (Project 01612)

The South Hillsborough Wellfield is one of the seven short-listed water supply projects recommended to the Board in November 2023 for implementation as a new water supply by the year 2033. The project involves designing and constructing a new fresh groundwater wellfield and associated treatment facilities (which includes ozone treatment for the removal of hydrogen sulfide) and could deliver between 6 to 12 million gallons per day (mgd) to southern Hillsborough County as described below.

A Water Use Permit can be obtained with up to 6 million gallons per day of permitted withdrawals based on providing evidence of a net-benefit to the aquifer associated with the County's operation of their reclaimed water aquifer recharge system to the west of the proposed wellfield. Between 4 and 6 mgd of water supply capacity is being obtained by acquisition of permitted quantities from private landowners and these new quantities are anticipated to be transferred to Tampa Bay Water by December 2025.

The feasibility study for this project was completed in 2022 and requires the following activities to be completed and approved by the Board before the project is ready for implementation. This project would help meet the near- and long-term needs of southern Hillsborough County.

Water Use Permit Quantity Acquisition

- The Board approved an agreement with Suburban Land Reserve, Inc. in February 2024 to acquire 590,100 gallons per day of permitted groundwater quantities in southern Hillsborough County. The acquired permitted capacity was transferred to Tampa Bay Water's Balm Farm Water Use Permit on the AgMart property and resulted in an additional 550,000 gallons per day (gpd) of permit quantity; the Balm Farm permit has been increased to an annual average quantity of 775,000 gpd. This quantity can be used to supplement the permit quantities that can be obtained through the long-term aquifer recharge credits from Hillsborough County.

- A subsequent agreement was negotiated with Land Reserve, Inc. (formerly Suburban Land Reserve, Inc.) and their sister entity, Farmland Reserve, Inc., to acquire between 3,121,803 gpd and 5,109,300 gpd of permitted quantities and approved by the Board in January 2025. This permitted quantity acquisition will increase our Balm Farm Water Use Permit by 3,127,619 to 5,171,400 gpd, with the final permit quantity determined during permitting with the District. A permit application to modify the Balm Farm Water Use Permit was approved by the Board in January 2025 and will be filed with the District in March 2025. This permit modification is expected to be issued by the District by December 2025.
- The Balm Farm Water Use Permit is expected to have an annual average quantity of 3.9 to 5.95 million gallons per day, depending on the final quantity approved by the District for the pending transfer of permitted quantities.

Property

- Cone Ranch/Lower Green Swamp Preserve Water Rights and Property Exchange with the Environmental Lands Acquisition and Protection Program (ELAPP): Finalize and obtain Board approval of an Interlocal Agreement for the exchange of Cone Ranch/Lower Green Swamp Preserve water rights for permanent and temporary easements for four production well sites and associated infrastructure on the former Ag-Mart property. The details of this exchange agreement were last presented to the Board at the June 2021 Board Meeting under Agenda Item D.2.
- Water Resources Department Ag-Mart Water Balm Campus Property: Acquire property from Hillsborough County including access agreements, permanent and temporary easements and/or in fee for the for three production wells, monitoring wells, wellfield collection main, and water treatment facilities and wellfield Point of Connection.

Long-term reclaimed water injection Agreement

- A long-term agreement with Hillsborough County for aquifer recharge credits associated with the injection of reclaimed water to the County's South Hillsborough Aquifer Recharge Program (SHARP) wells is needed to create up to 6 mgd of groundwater credits to be combined into the Water Use Permit for the South Hillsborough Wellfield.

Short-term South Hillsborough Production Well (Project 07540)

This project includes the conversion of a test well into a production well and the construction and operation of water treatment facilities by Hillsborough County. The new production well will deliver an average of 2.3 mgd of water supply under a short-term agreement with Hillsborough County for aquifer injection credits from their existing South Hillsborough Aquifer Recharge Program (SHARP) wells. Staff is implementing the test well conversion into a production well through the South Hillsborough Wellfield-Phase 1 Project.

- Short-term agreement for reclaimed water injection credits with Hillsborough County was executed on April 5, 2023.
- The Water Use Permit for the new production well was issued by the District on October 24, 2023.

- Design for the production well infrastructure is ongoing and has reached the 90% design.
- Hillsborough County is procuring an engineer/contractor to complete the design, permitting, and construction of the necessary water treatment infrastructure.
- Design of the well infrastructure has been placed on hold until the County completes their design activities for the water treatment infrastructure. However, this project may not be needed if the South Hillsborough Wellfield is implemented.

Demand Management

Tampa Bay Water and Hillsborough County staff continue to coordinate activities for demand management in the South Hillsborough County area. Agency and County staff resumed monthly meetings in October 2023 to address high demands and drought conditions in this service area. The main objective of these meetings is to coordinate work for the variety of activities undertaken by the County, Agency and Florida Friendly Landscaping TM agents, and to explore opportunities for collaboration. Agency staff continue to promote the Tampa Bay Water Wise Program and work with multi-family residential communities on rebate programs. The County continues to promote outdoor water wise practices and the Tampa Bay Water Wise rebate program directly to Hillsborough County customers. Staff of both agencies are exploring additional public information strategies to promote water conservation in this service area.

South-Central Hillsborough Regional Wellfield Supply

Tampa Bay Water continues to work with Hillsborough County to sustain the increase in the quantity of water the County is taking through the existing Central Point of Connection within this service area. Since late June 2023, the County has taken an average of 13 mgd through the Central Point of Connection, an increase of 3 mgd. This increased flow has allowed an equal reduction in the pumping rate of the South-Central Hillsborough Regional Wellfield.

The South-Central Hillsborough Regional Wellfield Water Use Permit was modified to increase the annual average permit limit from 24.1 to 24.95 mgd on July 26, 2022. The increase in the annual average quantity will revert back to 24.1 mgd when the new regional transmission main is placed in service as specified in the current Water Use Permit. Additional environmental monitoring will occur while the increased annual average permit rate is in effect if access to representative wetland monitoring sites can be obtained from local property owners. The 12-month running average pumping rate from the wellfield was 24.94 mgd at the end of January 2025.

The Board approved an agreement with the Tampa Electric Company (TECO) at the November 2024 meeting to acquire 590,500 gpd of permitted quantity no longer used on their property located east of the South-Central Hillsborough Regional Wellfield. The Board also approved an agreement with Hillsborough County at the January meeting to acquire 344,800 gpd of unused quantities from property owned by the County south of the wellfield. The Board approved an application to increase the annual average quantity of the South-central Hillsborough Regional Wellfield Water Use Permit to receive the quantities acquired from TECO and Hillsborough County at the January 2025 meeting and the application requests the annual average quantity of the South-central Hillsborough Regional Wellfield be increased to 26.922 mgd.

BACKGROUND

Tampa Bay Water and Hillsborough County staff continue to develop additional pumping and transmission capacity to increase supply to rapidly growing South Hillsborough County. The August 2020 Memorandum of Understanding provides for a status report at each regular meeting of the Tampa Bay Water Board of Directors until the projects are operational.

In the 1980's, the West Coast Regional Water Supply Authority (the predecessor agency to Tampa Bay Water) constructed temporary supply, treatment and pumping facilities to maintain pressure on behalf of the County and constructed the South-Central Hillsborough Regional Wellfield, the Lithia Treatment Plant, the 42, 36 and 24-inch diameter south county transmission mains and Brandon Transmission mains. The agency retained the wellfield but turned over the treatment, pumping, and transmission facilities to the County.

Again, in the early 2000's, some of the facilities built in the 1980's were nearing capacity, and Tampa Bay Water constructed temporary pumping and treatment facilities under a joint project agreement for the County's use while the County completed construction of its Central Water Treatment and Pumping Facility.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.6

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Planning and Projects Director

SUBJECT: South Hillsborough Pipeline, Projects 01610 and 01606 - Property Acquisition Status Report - *Receive Report*

SUMMARY

This item provides an update to the Board of Directors on property acquisition activities through the end of February 2025 per policy ADM-BD-0009 for property acquisition for the South Hillsborough Pipeline, Projects 01610 and 01616. A total of six (6) parcels (7 easements) were closed in February 2025.

SUGGESTED ACTION

Receive Status Report.

COST/FUNDING SOURCE

N/A

DISCUSSION

Tampa Bay Water is currently engaged in property acquisition activities with property owners along the approved South Hillsborough Pipeline route. Property Acquisition Policy ADM-BD-009 for the South Hillsborough Pipeline, Project Nos. 01610 and 01616, approved by the Board at the May 2024 Board meeting authorizes the General Manager:

- To acquire property rights valued in an amount not to exceed $400,000 per parcel.

- To execute and sign agreements and other required documents to complete transactions for projects previously approved by the Board.
- To secure fee simple title, easements, licenses, leases, mutual use agreements, and rights of entry; and
- To update existing licenses, grant licenses, sign permit applications, sign variance requests.

The Policy requires that:

- Documents associated with these transactions are reviewed and approval by the General Counsel or the General Counsel's designee prior to execution by the General Manager.
- Any purchase of property rights valued up to and including $100,000 may be based on an Opinion of Value.
- Any purchase of property rights valued over $100,000 requires a certified real estate appraisal report prepared by a M.A.I. designated appraiser in accordance with current Uniform Standards of Professional Appraisal Practice.
- The General Manager, or the General Manager's designee, will provide a list of completed transactions approved pursuant to this Policy at the next Board meeting.
- The purchase of property rights valued above $400,000 requires Board approval.

The attached report includes the following:

- Table No. 1: Number of Parcels Needed, Parcels with executed Purchase and Sale Agreements (PSA), and Parcels Closed through end of reporting month(s).
- Table No. 2: Costs associated with Parcels closed through end of reporting month, six (6) parcels (7 easements) were closed in February.
- Table No. 3: Overall property acquisition budget, actuals to date, and remaining budget.

The General Manager has executed necessary documents to complete the transactions listed on the attached Table No.2. Title insurance, survey and opinions of value were ordered as part of the due diligence process prior to closing.

BACKGROUND

Tampa Bay Water and Hillsborough County staff continue to develop additional pumping and transmission (pipeline) capacity to increase supply to rapidly growing South Hillsborough County. A new pipeline system is needed to provide the increased capacity required. The new system will expand delivery of water supplies to both the County's existing Lithia Point of Connection and a new Point of Connection farther south. The South Hillsborough Pipeline will be constructed in two segments. It requires the acquisition of approximately 218 parcels, a reduction from the originally anticipated 234 parcels, including permanent and temporary construction easements. Approximately 80 percent of the necessary parcels are in Segment A and approximately 20 percent of the necessary parcels are in Segment B. Segment A will convey alternative water supplies from the existing High Service Pump Station to Hillsborough County’s Lithia Water Treatment facility. Pipeline Segment B will connect to Pipeline Segment A and provide alternate water supplies to the new Hillsborough County Point of

Connection south of Hillsborough County's Lithia Water Treatment facility as approved by the Hillsborough County Board of County Commissioners in June 2021 and by the Tampa Bay Water Board of Directors in July 2021. Both segments will be planned, designed, and constructed by Tampa Bay Water and partially funded by the Southwest Florida Water Management District for eligible capital costs. The parties agreed through a Joint Project Agreement that Tampa Bay Water is responsible for the remaining share of capital costs for Segment A and Hillsborough County is responsible for the remaining share of capital costs for Segment B.

Attachments (1)

Feb 2025 South Hillsborough Property Acquisition Report

South Hillsborough Pipeline Property Acquisition Status Report

February 2025

Table 1-Parcels Needed

Segment	Total Parcels Needed (1)	Parcels with executed PSAs	Parcels Closed	Parcels with Executed PSAs or Closed	Parcels Included in Eminent Domain Resolutions	Pending (2)
A	170	8	62	70	59	41
B	48	1	3	4	20	24
Total	**218**	**9**	**65**	**74**	**79**	**65**

Notes:
1-Includes Properties in Fee, Temporary Construction Easements (TCEs), Permanent Utility Easements, and Leases
2-Includes parcels in negotiation, pending appraisal, or pending final sketch & legal.

Table 2-Parcels Closed - February 2025

6 Parcels Closed	Estimated Valuation/Certified Appraisal(1)	Actual(2) Total Costs	Avoided Costs(3)
Total	**$176,368.00**	**$136,796.30**	**$35,274.00**

Notes:
1-Certified Appraisal required only for parcels with costs greater than $100,000
2-Actual Costs include property rights costs, recording fees, and/or taxes
3-Avoided costs include costs Tampa Bay Water will have incurred beyond those included in the Actual Total Costs should the parcel have to go through Eminent Domain, Court, or Order of Taking. Avoided Costs are on a per parcel basis and could include attorney fees, additional appraisal fees, and/or engineers' or other experts' fees.

Table 3-Summary of Actual Costs vs Budget

Segment	Total Property Budget	Actual Costs(1) through Jan 2025	Actual Costs Previous Month(2) - February 2025	Remaining Total Property Budget
A	$ 13,375,000.00	$ 1,984,386.50	$ 136,796.30	$ 11,253,817.20
B	$ 9,000,000.00	$ 535,273.78	$ -	$ 8,464,726.22
Total	**$ 22,375,000.00**	**$ 2,519,660.28**	**$ 136,796.30**	**$ 19,718,543.42**

Notes:
1-Includes parcels reported per Policy ADM-BD-0009 and individual Board approved parcels
2-Details in Table 2

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.7

DATE: February 10, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Kelly M. Fernandez, General Counsel

SUBJECT: South Hillsborough Pipeline, Project Nos. 01610 and 01616 - Adopt Eminent Domain Resolution - *Approve*

SUMMARY

Property acquisition is underway for the South Hillsborough Pipeline. The project team continues to identify parcels that are unlikely to be acquired voluntarily. To keep the project on schedule, the project team requests the Board's authorization to initiate condemnation proceedings for those parcels.

SUGGESTED ACTION

It is recommended that the Board adopt the attached Resolution 2025-006 declaring the public purpose of the South Hillsborough Pipeline, determining the necessity of acquiring the parcels for the project, and authorizing the initiation of eminent domain proceedings.

COST/FUNDING SOURCE

Revenue Bonds

DISCUSSION

Property acquisition is underway for the South Hillsborough Pipeline. The project team has reached

agreement with many property owners for voluntary acquisition of easements for the pipeline, related facilities and temporary work areas. The project team also continues to identify parcels that are unlikely to be acquired voluntarily. While the project team is continuing to work with those property owners, in the interest of the project schedule they are also working on preparing those parcels for possible condemnation proceedings. Accordingly, the project team requests authorization to initiate condemnation proceedings for the designated parcels and to undertake all actions within the lawsuit determined to be necessary and appropriate, but with the understanding that project staff only intends to use that authority if it becomes apparent that a voluntary conveyance will not be forthcoming.

Attached is a resolution finding that the South Hillsborough Pipeline is a public purpose, declaring the listed parcels as necessary for the project, and authorizing the initiation of condemnation proceedings for those parcels. The resolution only pertains to the parcels identified in it. It is anticipated that subsequent resolutions for other parcels will be brought to the Board for approval over the coming months.

It is recommended that the Board adopt Resolution 2025-006. A copy of the Resolution, with attachments, is attached.

BACKGROUND

Tampa Bay Water and Hillsborough County staff continue to develop additional pumping and transmission (pipeline) capacity to increase supply to rapidly growing South Hillsborough County. A new pipeline system is needed to provide the increased capacity required. The new system will expand delivery of water supplies to both the County's existing Lithia Point of Connection and a new Point of Connection farther south.

The South Hillsborough Pipeline will be constructed in two segments. It requires the acquisition of approximately 218 parcels, a reduction from the originally anticipated 234 parcels, including permanent and temporary construction easements. Approximately 80 percent of the necessary parcels are in Segment A and approximately 20 percent of the necessary parcels are in Segment B. The Board considered and discussed selecting a route for the pipeline at its meetings in August 2022, September 2022, December 2022, and January 2023. The Board’s selection of a route was made after considering the required five factors: alternate routes, safety, costs, environmental concerns, and long-range planning.

Segment A will convey alternative water supplies from the existing High Service Pump Station to Hillsborough County’s Lithia Water Treatment facility. Pipeline Segment B will connect to Pipeline Segment A and provide alternate water supplies to the new Hillsborough County Point of Connection south of Hillsborough County’s Lithia Water Treatment facility as approved by the Hillsborough County Board of County Commissioners in June 2021 and by the Tampa Bay Water Board of Directors in July 2021.

Attachments (1)

South Hillsborough Pipeline - Eminent Domain Resolution 2025-006

TAMPA BAY WATER, A REGIONAL WATER SUPPLY AUTHORITY

RESOLUTION NO. 2025-006

A RESOLUTION TO BE ENTITLED:

A RESOLUTION DETERMINING THE NECESSITY OF ACQUIRING CERTAIN REAL PROPERTY INTERESTS LOCATED WITHIN HILLSBOROUGH COUNTY, FLORIDA TO BE USED FOR THE PUBLIC PURPOSE OF CONSTRUCTING, OPERATING AND MAINTAINING WATER TRANSMISSION FACILITIES ASSOCIATED WITH THE SOUTH HILLSBOROUGH PIPELINE PROJECT, AUTHORIZING THE ACQUISITION OF ALL NECESSARY INTERESTS BY THE POWER OF EMINENT DOMAIN, PROVIDING AN EFFECTIVE DATE.

WHEREAS, Tampa Bay Water is an interlocal governmental agency created pursuant to Sections 163.01 and 373.713, Florida Statutes, and its Amended and Restated Interlocal Agreement dated June 10, 1998 ("Interlocal Agreement"); and

WHEREAS, Tampa Bay Water is the sole and exclusive wholesale potable water supplier for its member governments; and

WHEREAS, Tampa Bay Water is authorized to acquire water and water rights; to develop, store and transport water; and to provide, sell, and deliver water for county or municipal purposes and uses; and

WHEREAS, Tampa Bay Water is authorized and required to design, construct, operate, and maintain facilities in the locations and at the times necessary to ensure an adequate water supply will be available to all citizens within Tampa Bay Water's geographic territory; and

WHEREAS, Tampa Bay Water has adopted the Master Water Plan that includes the construction and development of new alternative sources of potable water, pipelines and appurtenant facilities, a regional water treatment plant and a regional reservoir; and

WHEREAS, the Master Water Plan is intended to expand the capacity and enhance the reliability of Tampa Bay Water's regional water utility system to ensure an adequate water supply will be available to all citizens within Tampa Bay Water's geographic territory; and

WHEREAS, in furtherance of the Master Water Plan, Tampa Bay Water created the South Hillsborough Pipeline project (the "Project") to provide enhanced capacity and new transmission water service to eastern and southern Hillsborough County; and

WHEREAS, Tampa Bay Water's Board of Directors ("Board"), after consideration of alternative alignments, environmental factors, costs, safety and long range planning concerns, previously approved the Project route; and

WHEREAS, the construction of the Project improvements and related facilities is a valid public purpose that serves and furthers the public interest of Tampa Bay Water; and

WHEREAS, the acquisition of the real property interests set forth herein (the "Parcels") is necessary for the construction of the Project and for the operation and maintenance of the Project improvements; and

WHEREAS, Tampa Bay Water's staff ("Staff") and consultants have initiated negotiations to acquire by voluntary conveyance property interests necessary for the Project; and

WHEREAS, Staff has been unable to obtain voluntary conveyances for all of the property interests required for the Project; and

WHEREAS, Tampa Bay Water has surveyed the Project's line of construction; and

WHEREAS, Tampa Bay Water is authorized under Section 2.02 of the Interlocal Agreement and Chapter 163.01, Florida Statutes, to exercise the power of eminent domain to acquire such property and property rights as is deemed necessary by this Board for the Project;

WHEREAS, this Board now specifically determines that the Parcels set forth herein may be acquired by the power of eminent domain;

NOW, THEREFORE, be it resolved by Tampa Bay Water's Board of Directors as follows:

1. The foregoing recitals are true and correct and are incorporated herein by reference.

2. The Board hereby affirms and finds that the Project is for a valid public purpose.

3. The Board further finds that the Parcels, which are listed and legally described in Composite Exhibit "A," are necessary for the Project.

4. The Board further finds that for those Parcels designated as easements in Composite Exhibit "A," it is necessary to acquire the corresponding type of easement under the terms and conditions set forth in Composite Exhibit "B."

5. Tampa Bay Water's General Counsel, or her designees, together with the appropriate employees of Tampa Bay Water, are hereby authorized to exercise the power of eminent domain to condemn the property rights set forth herein and to utilize the provisions of Chapter 73 and 74, Florida Statutes.

6. This Resolution shall take effect immediately upon being passed and adopted.

7. If any phrase, portion or part of this Resolution is found to be invalid or unconstitutional by a court of competent jurisdiction, such phrase, portion or part shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remainder of the Resolution.

PASSED AND ADOPTED by the Board of Directors of Tampa Bay Water, A Regional Water Supply Authority, this _____ day of _____, 2025.

ATTEST:

Secretary

TAMPA BAY WATER, A REGIONAL WATER SUPPLY AUTHORITY

By:_____

Its:_____

Date:_____

(SEAL)

APPROVED AS TO FORM:

Office of the General Counsel

Composite Exhibit "A"

PARCEL NUMBER	INTEREST TO BE ACQUIRED
01616-01P	Permanent Easement
01616-07P	Permanent Easement
01616-07T	Temporary Construction Easement
01616-13P	Permanent Easement
01616-31P	Permanent Easement
01616-32P	Permanent Easement
01616-33P	Permanent Easement
01610-43P	Permanent Easement
01610-113T	Temporary Construction Easement
01610-114T	Temporary Construction Easement
01610-144T	Temporary Construction Easement
01610-145T	Temporary Construction Easement
01610-238T	Temporary Construction Easement

January 28, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-01P
Folio No. 076800-1002
Sec. 19, Twp. 30S, Rng. 21E

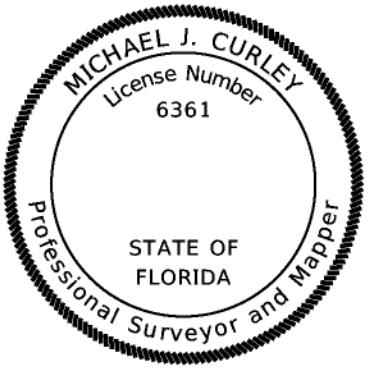
PROJECT NO.
01616

EXHIBIT "A"

A parcel of land, being a part of Tract B-19, per the plat of FISHHAWK RANCH WEST PHASE 2A/2B, as recorded in Plat Book 123, Page 165, of the Public Records of Hillsborough County, Florida, and per Instrument Number 2024427261, of the Public Records of Hillsborough County, Florida, lying in the southwest 1/4 of Section 19, Township 30 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the intersection of the south right-of-way line of Fishhawk Boulevard and the east right-of-way line of Hometown Lane per aforesaid plat of FISHHAWK RANCH WEST PHASE 2A/2B; thence along said south right-of-way line of Fishhawk Boulevard, South 89°27' 50" East, a distance of 231.79 feet, to the northwest corner of those lands described in aforesaid Instrument Number 2024427261 and the POINT OF BEGINNING; thence continue along said right-of-way line, South 89°27'50" East, a distance of 50.86 feet, to a point on a line lying 50.00 feet easterly of and parallel to the westerly boundary line of said Instrument Number 2024427261; thence departing said right-of-way line, and along said parallel line, the following five (5) courses: South 11°03'47" West, a distance of 145.38 feet; thence South 02°05'28" East, a distance of 121.36 feet; thence South 05°15'51" East, a distance of 114.28 feet; thence South 00°55'56" West, a distance of 60.29 feet; thence South 21°11'41" East, a distance of 290.76 feet; thence South 39°49'01" East, a distance of 201.30 feet to a point on the westerly boundary line of aforesaid Instrument Number 2024427261; thence along said westerly boundary line the following eight (8) courses: North 80°26'15" West, a distance of 52.21 feet; thence North 55°47'46" West, a distance of 82.45 feet; thence North 35°17'05" West, a distance of 92.81 feet; thence North 21°11'41" West, a distance of 306.72 feet; thence North 00°55'56" East, a distance of 67.36 feet; thence North 05°15'51" West, a distance of 112.96 feet; thence North 02°05'28" West, a distance of 128.51 feet; thence North 11°03'47" East, a distance 141.85 feet to the POINT OF BEGINNING.

Containing 46,161 square feet, or 1.060 acres more or less.



This document has been digitally signed and sealed under Rule 5J-17.062 of the Florida Administrative Code.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21

NOT VALID WITHOUT ALL SHEETS

		BY:	DATE	FIELD BOOK NO.: N/A			
TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355	PREPARED:	DE	1/28/25	SCALE:	N/A	SURVEY PROJECT NO. 21000900TS
		CHECKED:	MC	1/28/25	19	30 S. 21 E.	
		APPROVED:	MC	1/28/25	SEC:	TWP: RNG	SHEET 1 OF 5

PROJECT NO.
01616

Surveyor's Notes:

1. Bearings shown on this map are based on the south right-of-way line of Fishhawk Boulevard, being S89°27'50"E as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. The purpose of this sketch and description is to establish a permanent easement.
5. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-9.
6. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
7. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
8. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
9. This is a sketch and legal description only, not a field survey.
10. Certified to Tampa Bay Water.
11. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

(C)	CALCULATED
(CDD)	FISHHAWK COMMUNITY DEVELOPMENT DISTRICT IV
CO.	COUNTY
E	EASTING
INST	INSTRUMENT
FCM	FOUND CONCRETE MONUMENT
FIRC	FOUND IRON ROD AND CAP
FN&D	FOUND NAIL AND DISK
LB	LICENSED BUSINESS
L.H.G.T.C.E.	LAKE HUTTO GOPHER TORTOISE CONSERVATION EASEMENT
LS	LICENSED SURVEYOR
(M)	MEASURED
N	NORTHING
NO.	NUMBER
O.R.	OFFICIAL RECORDS BOOK
(P)	PER PLAT
P.B.	PLAT BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
PRM	PERMANENT REFERENCE MARKER
PSM	PROFESSIONAL SURVEYOR AND MAPPER
RNG	RANGE
R/W	RIGHT-OF-WAY
SEC	SECTION
STA	STATION
TP/RP	TRAVERSE POINT/REFERENCE POINT
TWP	TOWNSHIP

○	POINT ON EASEMENT DESCRIPTION
□	FOUND CONCRETE MONUMENT
△	FOUND IRON ROD
◉	FOUND NAIL AND DISK
	WETLAND CONSERVATION AREA
	GOPHER TORTOISE CONSERVATION AREA
	PROPOSED TAMPA BAY WATER PERMANENT EASEMENT

PARCEL NO. 01616-01P
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

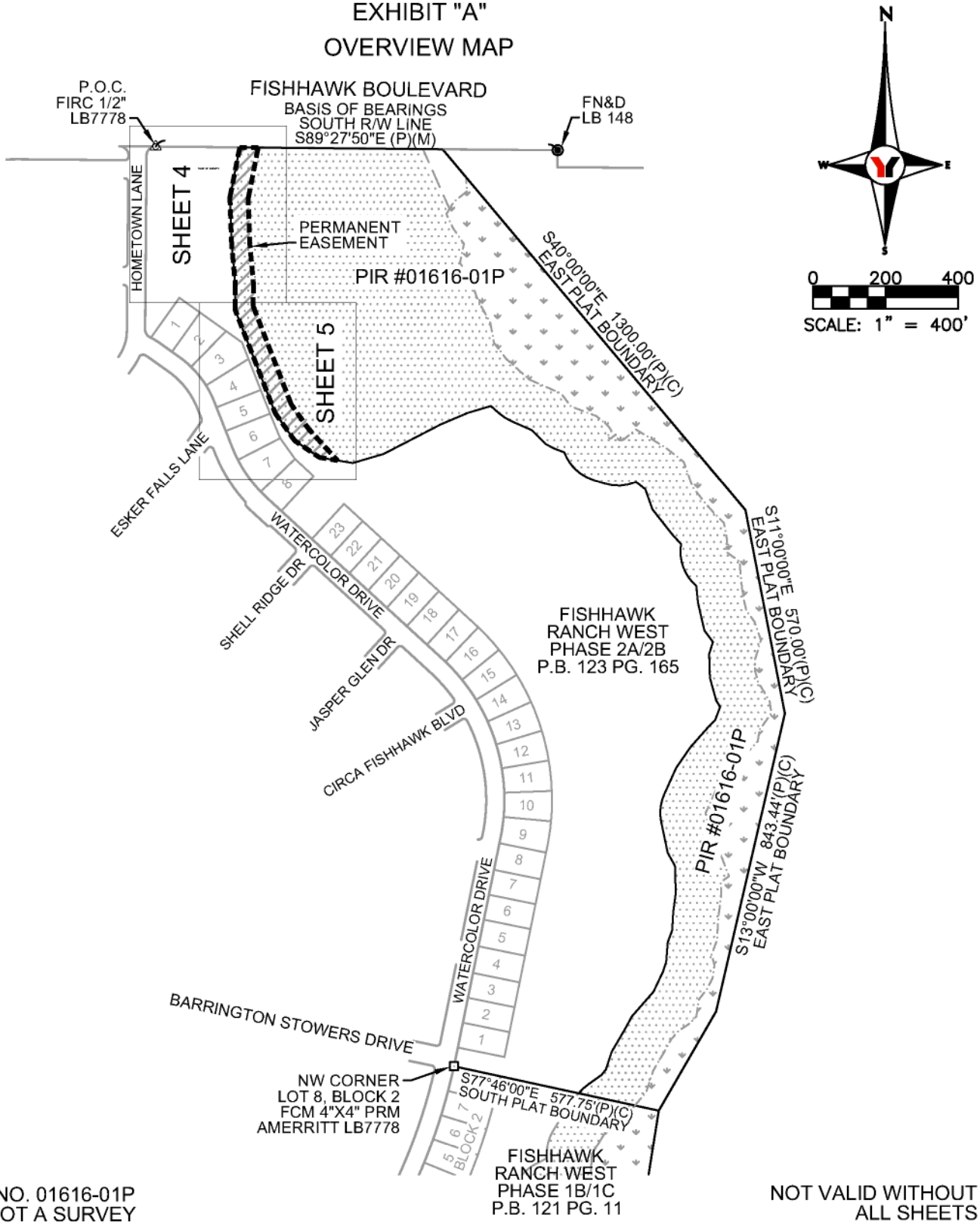
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
PREPARED:	DE	1/28/25	SCALE:	N/A		
CHECKED:	MC	1/28/25	19	30 S.	21 E.	
APPROVED:	MC	1/28/25	SEC:	TWP:	RNG	SHEET 2 OF 5

PROJECT NO.
01616

SECTION 19, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"
OVERVIEW MAP



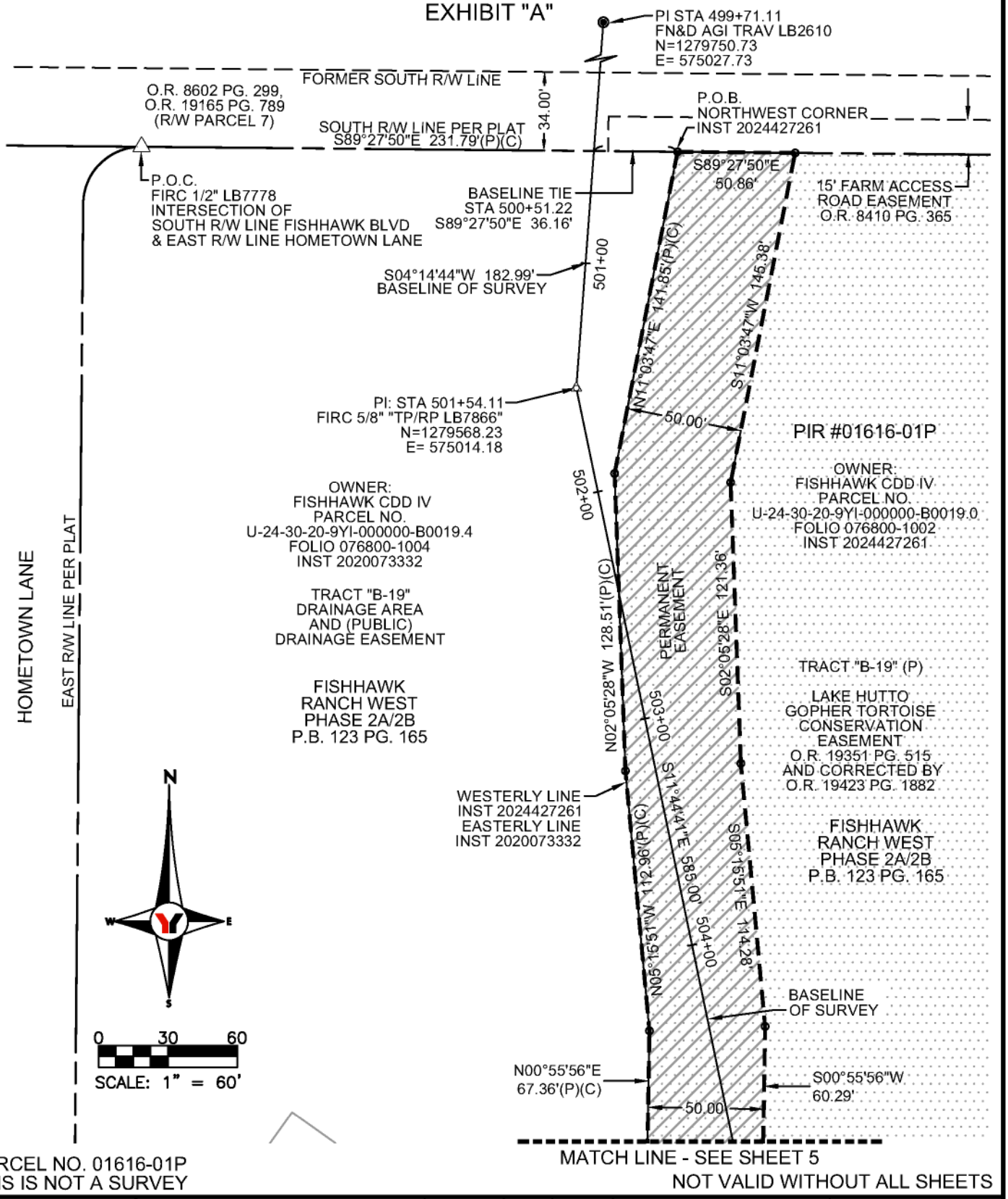
PARCEL NO. 01616-01P
THIS IS NOT A SURVEY

NOT VALID WITHOUT
ALL SHEETS

TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355		BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
		PREPARED:	DE	1/28/25	SCALE:	1"=400'		
		CHECKED:	MC	1/28/25	19	30 S.	21 E.	
		APPROVED:	MC	1/28/25	SEC:	TWP:	RNG	SHEET 3 OF 5

SECTION 19, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



PARCEL NO. 01616-01P
THIS IS NOT A SURVEY

MATCH LINE - SEE SHEET 5

NOT VALID WITHOUT ALL SHEETS

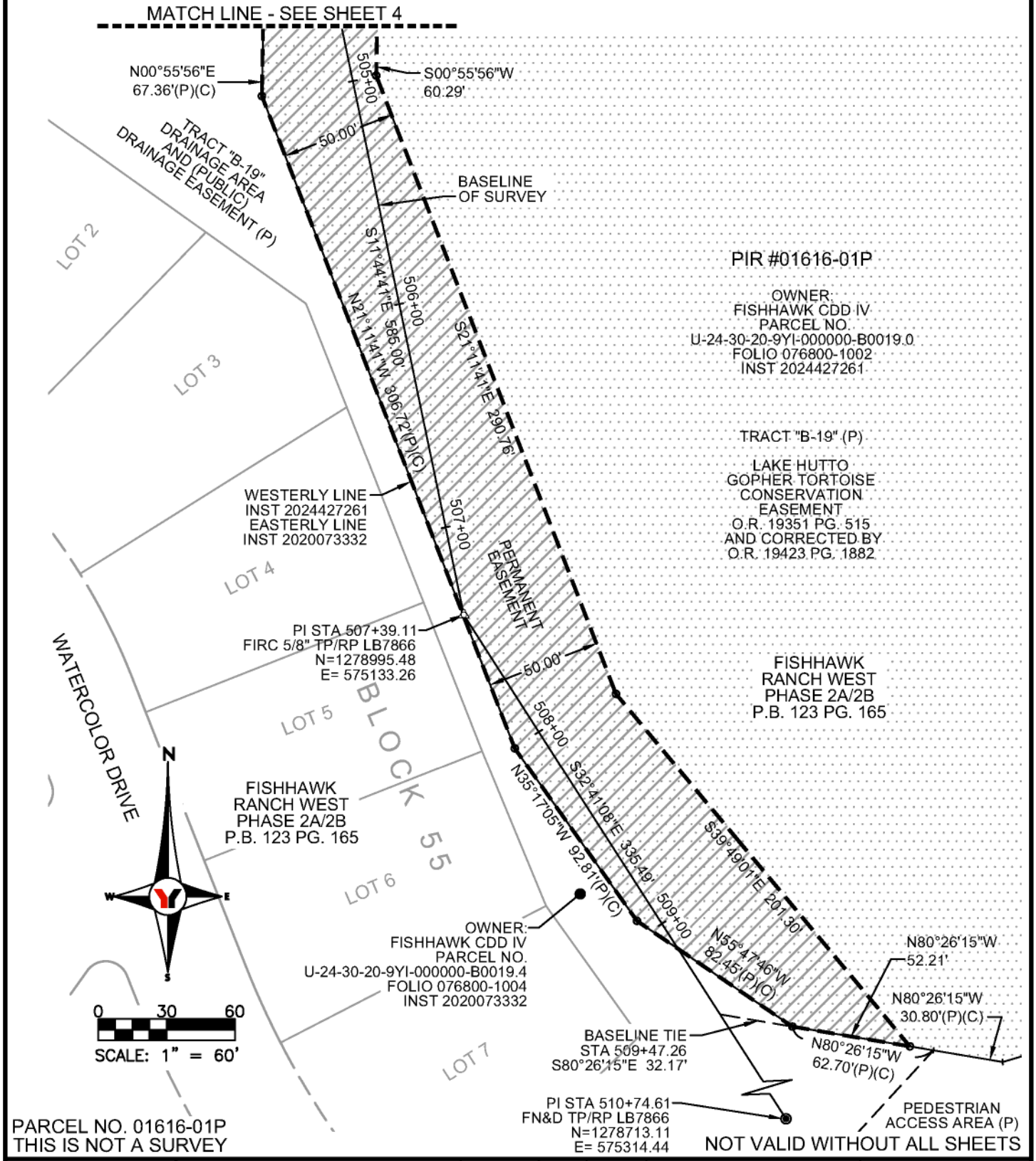
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO.
PREPARED:	DE	1/28/25	SCALE:	1"=60'		
CHECKED:	MC	1/28/25	19	30 S.	21 E.	21000900TS
APPROVED:	MC	1/28/25	SEC:	TWP:	RNG	SHEET 4 OF 5

SECTION 19, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



PARCEL NO. 01616-01P
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355		BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
		PREPARED:	DE	1/28/25	SCALE:	1"=60'		
		CHECKED:	MC	1/28/25	19	30 S.	21 E.	
		APPROVED:	MC	1/28/25	SEC:	TWP:	RNG	SHEET 5 OF 5

January 15, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-07P
Folio No. 088396-0550
Sec. 31, Twp. 30S, Rge. 21E

PROJECT NO.
01616

EXHIBIT "A"

A parcel of land, being a part of Tract "D", per the plat of HAMMOCK CREST, as recorded in Plat Book 140, Page 276 of the Public Records of Hillsborough County, Florida, lying in Section 31, Township 30 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the northeast corner of the northwest 1/4 of said Section 31; thence along the north line of said northwest 1/4, North 89°58'06" West, a distance of 80.02 feet; thence departing said north line, South 01°13'58" West, a distance of 103.90 feet to the northwest corner of an existing Tampa Bay Water Easement as recorded in Official Record Book 11469, Page 1320 and Official Record Book 12917, Page 1077 of the Public Records of Hillsborough County, Florida; thence along the west line of said easement, South 01°13'58" West, a distance of 46.05 feet to an intersection with the southwesterly boundary line of the 15 foot landscape easement, per the aforesaid plat of HAMMOCK CREST, and the POINT OF BEGINNING; thence continue along the west boundary line of said Tampa Bay Water Easement, South 01°13'58" West, a distance of 544.19 feet to a point on the south boundary line of aforesaid HAMMOCK CREST, also being the north boundary line of lands described in Official Record Book 2388, Page 682; thence along said south boundary line, North 89°59'23" West, a distance of 50.01 feet to a point on a line lying 50 feet from and parallel to the west line of the aforesaid Tampa Bay Water Easement; thence along said parallel line, North 01°13'58" East, a distance of 525.95 feet; thence departing said parallel line, North 47°01'25" West, a distance of 68.98 feet; thence North 79°26'06" West, a distance of 17.59 feet; thence North 00°00'00" East, a distance of 69.49 feet, to a point on the south right-of-way line of Boyette Road per aforesaid plat of HAMMOCK CREST; thence along said south right-of-way line, South 77°25'19" East, a distance of 18.30 feet; thence South 71°41'26" East, a distance of 30.40 feet; thence South 60°37'30" East, a distance of 26.46 feet; thence South 53°39'40" East, a distance of 9.58 feet; thence departing said right-of-way line, South 00°00'00" West, a distance of 18.62 feet, to a point on the south boundary line of a 15' landscape easement per the aforesaid plat of HAMMOCK CREST; thence along said southerly boundary line, South 53°39'40" East, a distance of 14.49 feet; thence South 35°13'07" East, a distance of 44.51 feet; thence South 29°56'00" East, a distance of 6.65 feet, to the POINT OF BEGINNING.

Containing 34,475 square feet, or 0.791 acres more or less.

NOT VALID WITHOUT
ALL SHEETS

			BY:	DATE	FIELD BOOK NO.: N/A			
TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355	PREPARED:	DE	1/15/25	SCALE:	N/A		SURVEY PROJECT NO. 21000900TS
		CHECKED:	MC	1/15/25	31	30 S.	21 E.	
		APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 1 OF 4

PROJECT NO.
01616

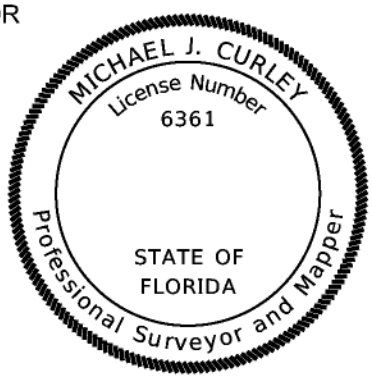
Surveyor's Notes:

1. Bearings shown on this map are based on the north line of the northwest 1/4, Sec 31, Twp 30S, Rng 21 E, being S89°58'06"E as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. The purpose of this sketch and description is to establish a permanent easement.
5. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-13
6. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
7. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
8. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
9. This is a sketch and legal description only, not a field survey.
10. Certified to Tampa Bay Water.
11. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

CO.	COUNTY
E	EASTING
FIRC	FOUND IRON ROD AND CAP
FN&D	FOUND NAIL AND DISK
INST	INSTRUMENT
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
MRW	MAINTAINED RIGHT-OF-WAY
N	NORTHING
O.R.	OFFICIAL RECORD BOOK
P.B.	PLAT BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
R/W	RIGHT-OF-WAY
SEC	SECTION
S.F.	SQUARE FEET
STA	STATION
TWP	TOWNSHIP
RNG	RANGE

- ○ POINT ON EASEMENT DESCRIPTION
- △ FOUND IRON ROD
- ● FOUND NAIL AND DISK



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Michael J Curley
Digitally signed by Michael J Curley
Date: 2025.02.04 10:36:20 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21

NOT VALID WITHOUT ALL SHEETS

PARCEL NO. 01616-07P

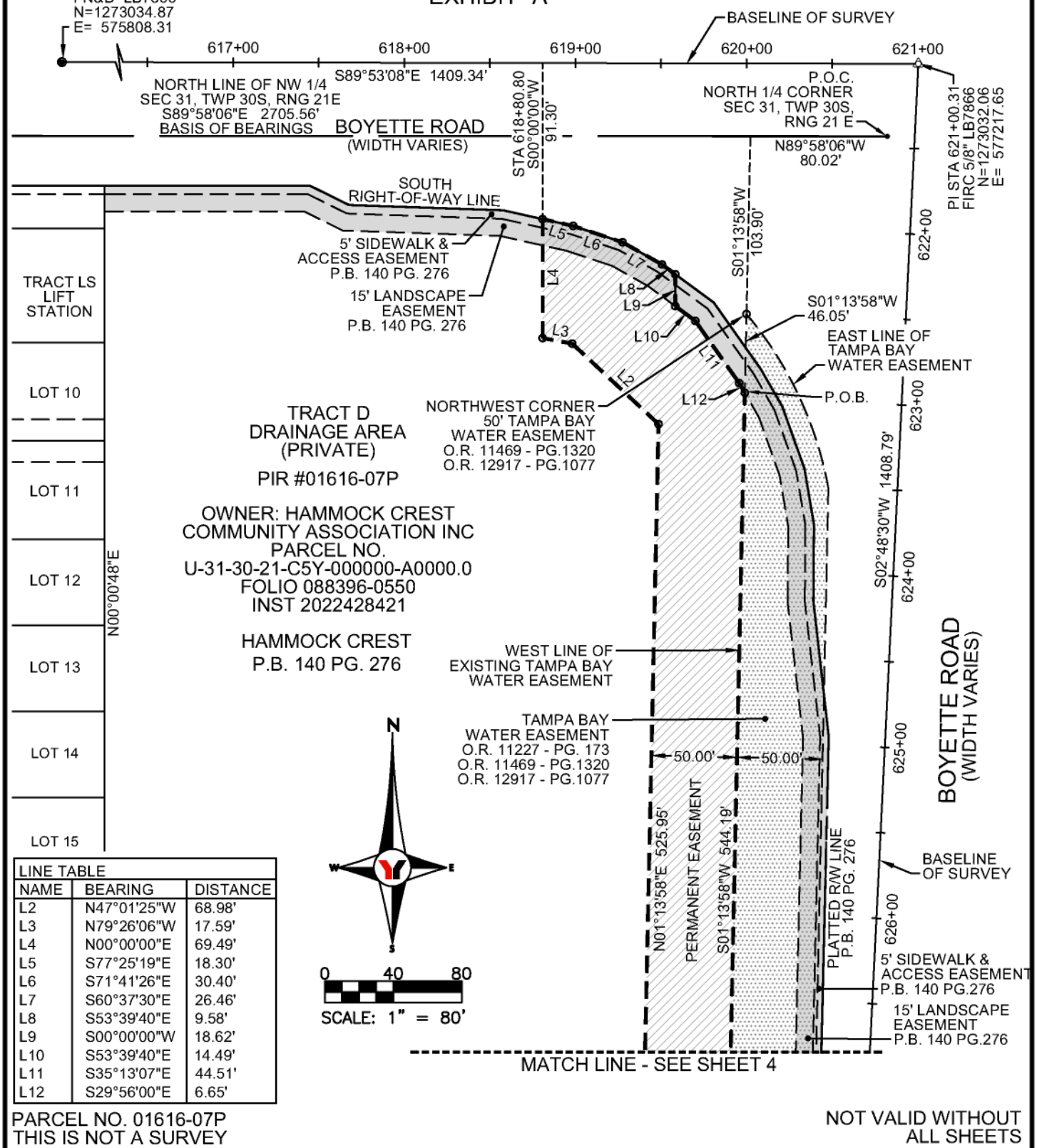
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
PREPARED:	DE	1/15/25	SCALE:	N/A		
CHECKED:	MC	1/15/25	31	30 S.	21 E.	
APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 2 OF 4

SECTION 31, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L2	N47°01'25"W	68.98'
L3	N79°26'06"W	17.59'
L4	N00°00'00"E	69.49'
L5	S77°25'19"E	18.30'
L6	S71°41'26"E	30.40'
L7	S60°37'30"E	26.46'
L8	S53°39'40"E	9.58'
L9	S00°00'00"W	18.62'
L10	S53°39'40"E	14.49'
L11	S35°13'07"E	44.51'
L12	S29°56'00"E	6.65'

PARCEL NO. 01616-07P
THIS IS NOT A SURVEY

NOT VALID WITHOUT
ALL SHEETS

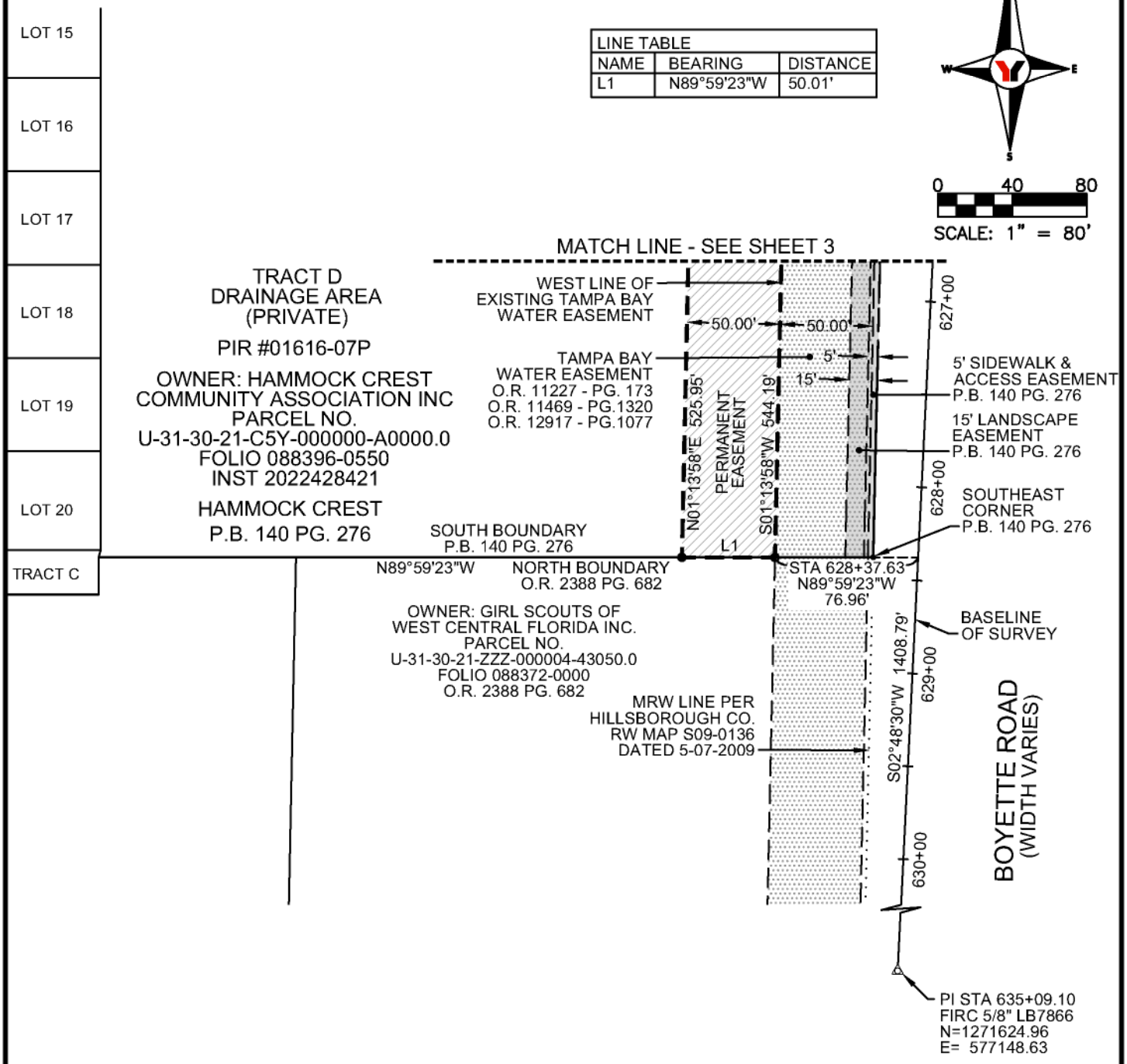
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO.
PREPARED:	DE	1/15/25	SCALE:	1"=80'		
CHECKED:	MC	1/15/25	31	30 S.	21 E.	21000900TS
APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 3 OF 4

SECTION 31, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



PARCEL NO. 01616-07P
THIS IS NOT A SURVEY

NOT VALID WITHOUT
ALL SHEETS

TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355		BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
		PREPARED:	DE	1/15/25	SCALE:	1"=80'		
		CHECKED:	MC	1/15/25	31	30 S.	21 E.	
		APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 4 OF 4

January 15, 2025
Tampa Bay Water
Temporary Construction Easement
Parcel No.01616-07T
Folio No. 088396-0550
Sec. 31, Twp. 30S, Rge. 21E

PROJECT NO.
01616

EXHIBIT "A"

A parcel of land, being a part of Tract "D", per the plat of HAMMOCK CREST, as recorded in Plat Book 140, Page 276 of the Public Records of Hillsborough County, Florida, lying in Section 31, Township 30 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the northeast corner of the northwest 1/4 of said Section 31; thence along the north line of said northwest 1/4, North 89°58'06" West, a distance of 80.02 feet; thence departing said north line, South 01°13'58" West, a distance of 103.90 feet to the northwest corner of an existing Tampa Bay Water Easement as recorded in Official Record Book 11469, Page 1320 and Official Record Book12917, Page 1077 of the Public Records of Hillsborough County, Florida; thence along the west line of said easement, South 01°13'58" West, a distance of 19.78 feet to an intersection with the southerly right-of-way line of Boyette Road per the aforesaid plat of HAMMOCK CREST, and the POINT OF BEGINNING; thence continue along the west boundary line of said Tampa Bay Water Easement, South 01°13'58" West, a distance of 26.27 feet to an intersection with the southwesterly boundary line of the 15 foot landscape easement, per the aforesaid plat of HAMMOCK CREST; thence along said southwesterly boundary, the following three (3) courses: North 29°56'00" West, a distance of 6.60 feet; thence North 35°13'07" West, a distance of 44.51 feet; thence North 53°39'40" West, a distance of 14.49 feet; thence departing said southwesterly boundary line, North 00°00'00" East, a distance of 18.62 feet, to a point on the south right-of-way line of Boyette Road per the aforesaid plat of HAMMOCK CREST; thence along said south right-of-way line the following two (2) courses: South 53°39'40" East, a distance of 27.96 feet; thence South 35°13'07" East, a distance of 32.39 feet to the POINT OF BEGINNING.

Containing 940 square feet, or 0.022 acres more or less.

NOT VALID WITHOUT
ALL SHEETS

TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
PREPARED:	DE	1/15/25	SCALE:	N/A		
CHECKED:	MC	1/15/25	31	30 S.	21 E.	
APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 1 OF 3

PROJECT NO.
01616

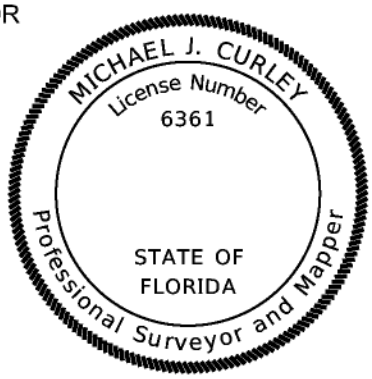
Surveyor's Notes:

1. Bearings shown on this map are based on the north line of the northwest 1/4, Sec 31, Twp 30S, Rng 21 E, being S89°58'06"E as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. The purpose of this sketch and description is to establish a temporary construction easement.
5. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-13
6. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
7. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
8. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
9. This is a sketch and legal description only, not a field survey.
10. Certified to Tampa Bay Water.
11. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

CO.	COUNTY
E	EASTING
FIRC	FOUND IRON ROD AND CAP
FN&D	FOUND NAIL AND DISK
INST	INSTRUMENT
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
MRW	MAINTAINED RIGHT-OF-WAY
N	NORTHING
O.R.	OFFICIAL RECORD BOOK
P.B.	PLAT BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
R/W	RIGHT-OF-WAY
SEC	SECTION
S.F.	SQUARE FEET
STA	STATION
TWP	TOWNSHIP
RNG	RANGE

- ○ POINT ON EASEMENT DESCRIPTION
- △ FOUND IRON ROD
- ● FOUND NAIL AND DISK



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Michael J Curley
Digitally signed by Michael J Curley
Date: 2025.02.04 10:37:13 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21

NOT VALID WITHOUT ALL SHEETS

PARCEL NO. 01616-07T

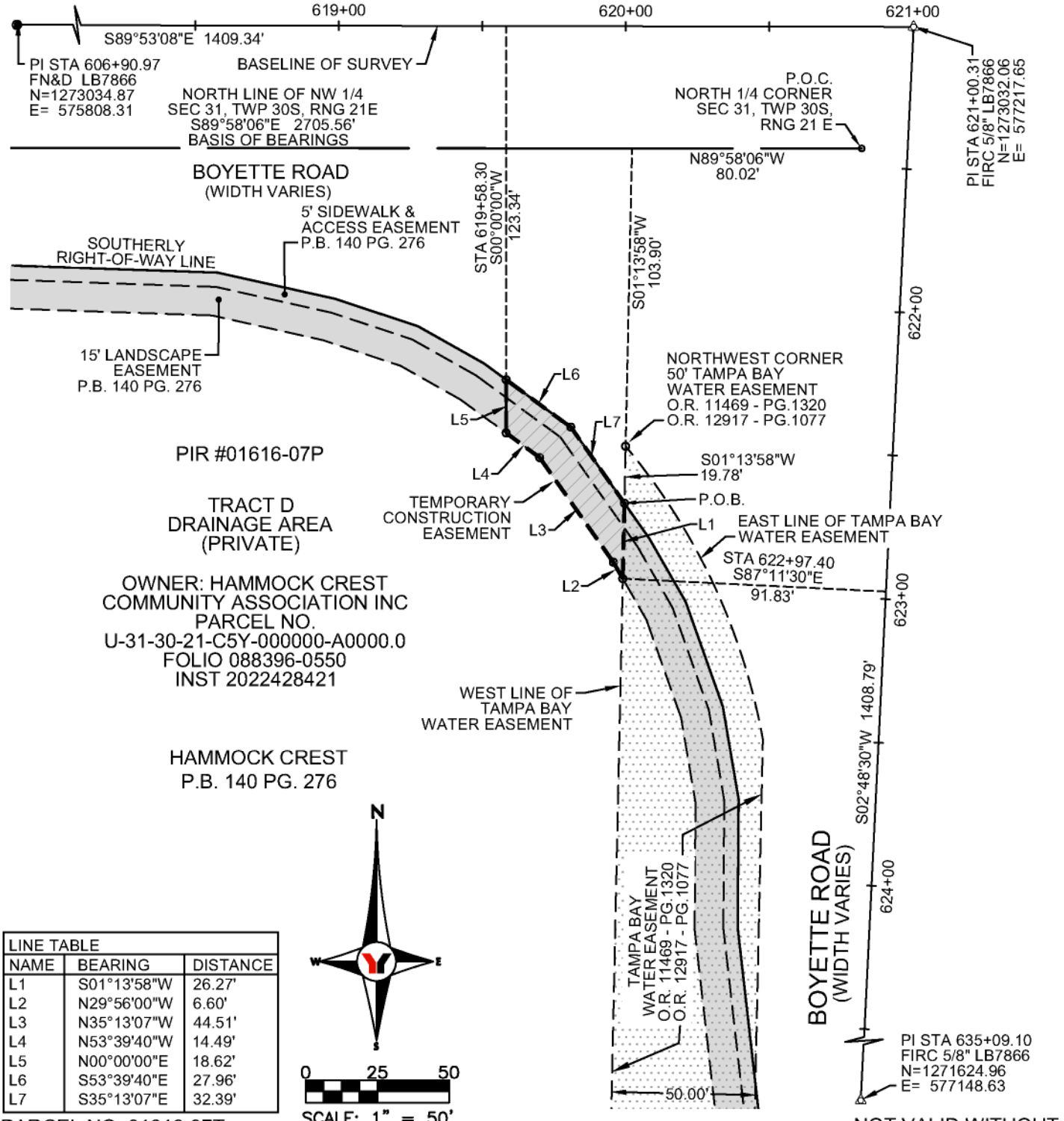
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
PREPARED:	DE	1/15/25	SCALE:	N/A		
CHECKED:	MC	1/15/25	31	30 S.	21 E.	
APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 2 OF 3

SECTION 31, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - TEMPORARY CONSTRUCTION EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L1	S01°13'58"W	26.27'
L2	N29°56'00"W	6.60'
L3	N35°13'07"W	44.51'
L4	N53°39'40"W	14.49'
L5	N00°00'00"E	18.62'
L6	S53°39'40"E	27.96'
L7	S35°13'07"E	32.39'

PARCEL NO. 01616-07T
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO.
PREPARED:	DE	1/15/25	SCALE:	1"=50'		
CHECKED:	MC	1/15/25	31	30 S.	21 E.	21000900TS
APPROVED:	MC	1/15/25	SEC:	TWP:	RNG	SHEET 3 OF 3

February 3, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-13P
Folio No. 088395-0000
Sec. 31, Twp. 30S, Rng. 21E

PROJECT NO.
01616

EXHIBIT "A"

A parcel of land lying in the southeast 1/4 of Section 31, Township 30 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the southwest corner of the southeast 1/4 of said Section 31; thence along the west line of said southeast 1/4, North 01°13'46" East, a distance of 946.81 feet; thence departing said west line, South 89°39'34" East, a distance of 30.00 feet to the northwest corner of those lands described in Official Records Book 9453, Page 1892 of the Public Records of Hillsborough County, Florida, also being a point on the south boundary line of those lands described in Instrument Number 2024398064, of the Public Records of Hillsborough County, Florida, and the POINT OF BEGINNING; thence along the east maintained right-of-way line of Boyette Road per Hillsborough County Map S09-0136A (per Maintained Right-of-Way Book 3, Page 81), North 01°18'35" East, a distance of 150.02 feet; thence continue along said east maintained right-of-way line, North 01°22'26" East, a distance of 196.82 feet to a point on the north boundary line of said lands; thence departing said maintained right-of-way line, and along the north boundary line of said lands, South 89°25'47" East, a distance of 52.30 feet; thence departing said north boundary line, South 02°02'35" West, a distance of 196.66 feet, to a point on a line 50.00 feet east of and parallel to said maintained right-of-way line; thence along said parallel line, South 01°18'35" West, a distance of 150.02 feet to a point on the aforesaid south boundary line of lands described in Instrument Number 2024398064, also being the north boundary line of those lands described in aforesaid Official Record Book 9453, Page 1892; thence along said south boundary line, North 89°39'34" West, a distance of 50.01 feet to the POINT OF BEGINNING.

Containing 17,562 square feet, or 0.403 acres more or less.

NOT VALID WITHOUT
ALL SHEETS

			BY:	DATE	FIELD BOOK NO.: N/A			
TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355	PREPARED:	DE	2/3/25	SCALE:	N/A		SURVEY PROJECT NO. 21000900TS
		CHECKED:	MC	2/3/25	31	30 S.	21 E.	
		APPROVED:	MC	2/3/25	SEC:	TWP:	RNG	SHEET 1 OF 3

PROJECT NO.
01616

Surveyor's Notes:

1. Bearings shown on this map are based on the west line of SE 1/4, Sec 31, Twp 30S, Rng 21 E, being N01°13'46"E as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. The purpose of this sketch and description is to establish a permanent easement.
5. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-17.
6. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
7. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
8. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
9. This is a sketch and legal description only, not a field survey.
10. Certified to Tampa Bay Water.
11. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

CO.	COUNTY
E	EASTING
FIRC	FOUND IRON ROD AND CAP
INST	INSTRUMENT
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
MRW	MAINTAINED RIGHT-OF-WAY
N	NORTHING
NO.	NUMBER
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
O.R.	OFFICIAL RECORDS BOOK
(P)	PER PLAT
P.B.	PLAT BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
RNG	RANGE
R/W	RIGHT-OF-WAY
SEC	SECTION
S.F.	SQUARE FEET
STA	STATION
TWP	TOWNSHIP

- o POINT ON EASEMENT DESCRIPTION
- ◬ FOUND IRON ROD

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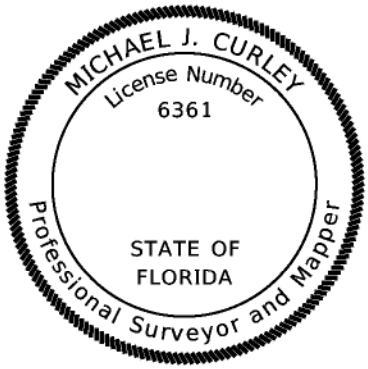
Michael J Curley Digitally signed by Michael J Curley Date: 2025.02.12 13:58:39 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21



NOT VALID WITHOUT ALL SHEETS

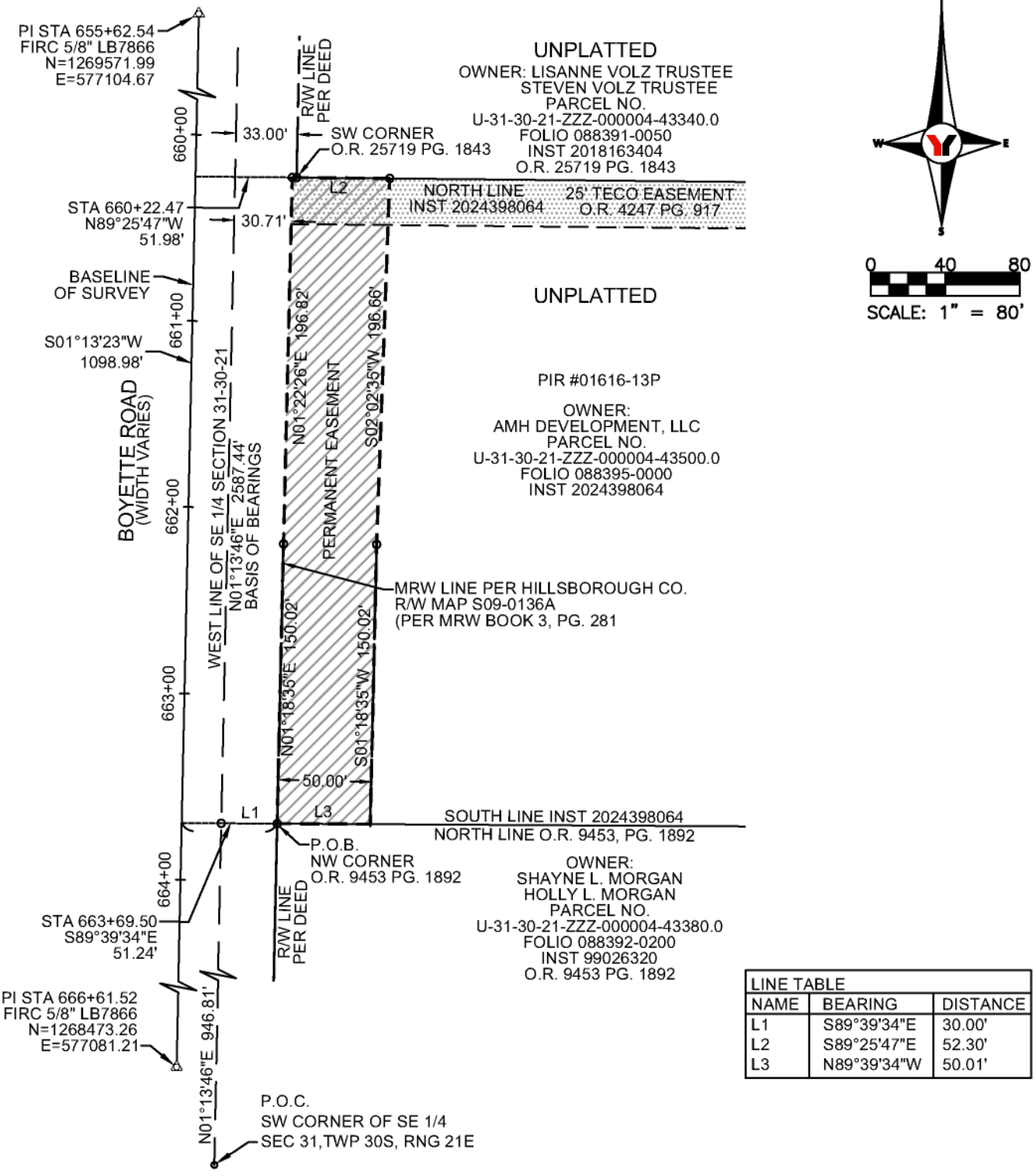
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.:	N/A		SURVEY PROJECT NO.
PREPARED:	DE	2/3/25	SCALE:	N/A		
CHECKED:	MC	2/3/25	31	30 S.	21 E.	21000900TS
APPROVED:	MC	2/3/25	SEC:	TWP:	RNG	SHEET 2 OF 3

SECTION 31, TOWNSHIP 30 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L1	S89°39'34"E	30.00'
L2	S89°25'47"E	52.30'
L3	N89°39'34"W	50.01'

PARCEL NO. 01616-13P
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO.
PREPARED:	DE	2/3/25	SCALE:	1"=80'		
CHECKED:	MC	2/3/25	31	30 S.	21 E.	21000900TS
APPROVED:	MC	2/3/25	SEC:	TWP:	RNG	SHEET 3 OF 3

January 24, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-31P
Folio No. 088502-0200
Sec. 7, Twp. 31S, Rng. 21E

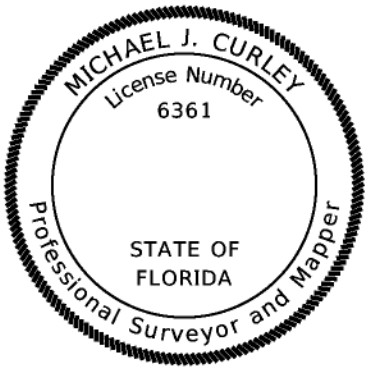
PROJECT NO.
01616

EXHIBIT "A"

A parcel of land lying in the northeast 1/4 of Section 7, Township 31 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the center of said Section 7 as marked by a railroad spike for Certified Corner Record 80277; thence along the south line of the northeast 1/4 of said Section 7, South 89°40'54" East, a distance of 24.00 feet, the southwest corner of those lands described in Official Record Book 26039, Page 475, of the Public Records of Hillsborough County, Florida, also being the northwest corner of those lands described in Official Record Book 21076, Page 1849, of the Public Records of Hillsborough County, Florida, and the POINT OF BEGINNING; thence along a non-tangent curve, concave easterly, having radius of 752.12 feet, arc length of 293.24 feet, delta of 22°20'20", chord bearing and distance of North 27°40'42" East, 291.39 feet; thence North 39°02'17" East, a distance of 396.10 feet, to the most northwesterly corner of said lands described in Official Record Book 26039, Page 475, also being the southwesterly corner of those lands described in Official Record Book 22118, Page 861, of the Public Records of Hillsborough County, Florida; thence along the northeast boundary line of said lands described in Official Record Book 26039, Page 475, also being the southwest boundary line of said lands described in Official Record Book 22118, Page 861, South 50°54'21" East, a distance of 50.09 feet; thence departing said northeast boundary line, South 42°34'57" West, a distance of 1.50 feet, to a point on a line lying 50.00 feet southeasterly of, and parallel to, the northwest boundary line of aforesaid lands described in Official Record Book 26039, Page 475; thence along said parallel line, South 39°02'17" West, a distance of 394.47 feet; thence along a curve, concave easterly, having a radius of 702.12 feet, arc length of 259.10 feet, delta of 21°08'38", chord bearing and distance of South 28°16'09" West, 257.63 feet, to a point on the south boundary line of said lands described in Official Record Book 26039, Page 475, also being the south line of the northeast 1/4 of said Section 7, and the north boundary line of the aforesaid lands described in Official Record Book 21076, Page 1849; thence along said line, North 89°40'54" West, a distance of 52.22 feet, to the POINT OF BEGINNING.

Containing 33,609 square feet, or 0.772 acres more or less.



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Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael J Curley
Digitally signed by Michael J Curley
Date: 2025.02.12 13:59:57 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21

NOT VALID WITHOUT
ALL SHEETS

		BY:	DATE	FIELD BOOK NO.: N/A			
TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355	PREPARED:	DE	1/24/25	SCALE:	N/A	SURVEY PROJECT NO. 21000900TS
		CHECKED:	MC	1/24/25	7	31 S. 21 E.	
		APPROVED:	MC	1/24/25	SEC:	TWP: RNG	SHEET 1 OF 3

PROJECT NO.
01616

SURVEYOR'S NOTES:

1. Bearings shown on this map are based on the south line of the NE 1/4 of Section 7, being S89°40'54"E, as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. Measurements and calculations referenced were used to accurately describe the easement.
5. The purpose of this sketch and description is to establish a permanent easement.
6. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-25.
7. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
8. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
9. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
10. This is a sketch and legal description only, not a field survey.
11. Certified to Tampa Bay Water.
12. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

A	ARC LENGTH
(C)	CALCULATED
CB	CHORD BEARING
CCR	CERTIFIED CORNER RECORD
CH	CHORD LENGTH
(D)	DEED
Δ	DELTA
E	EASTING
FCM	FOUND CONCRETE MONUMENT
FIR	FOUND IRON ROD
FIRC	FOUND IRON ROD AND CAP
FOP	FOUND OPEN PIPE
INST	INSTRUMENT
LB	LICENSED BUSINESS
(M)	MEASURED
N	NORTHING
NO.	NUMBER
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
O.R.	OFFICIAL RECORD BOOK
PG.	PAGE
PIR	PROPERTY INFORMATION REPORT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
R	RADIUS
RNG	RANGE
RR	RAILROAD
R/W	RIGHT-OF-WAY
SEC	SECTION
STA	STATION
TWP	TOWNSHIP

o	POINT ON EASEMENT DESCRIPTION
△	FOUND IRON ROD
●	FOUND IRON PIPE
⊖	FOUND RAILROAD SPIKE

This document has been digitally signed and sealed under Rule 5J-17.062 of the Florida Administrative Code.
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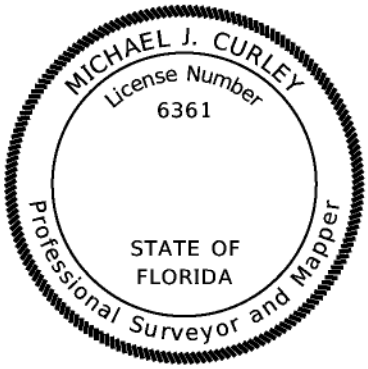
Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21



NOT VALID WITHOUT ALL SHEETS

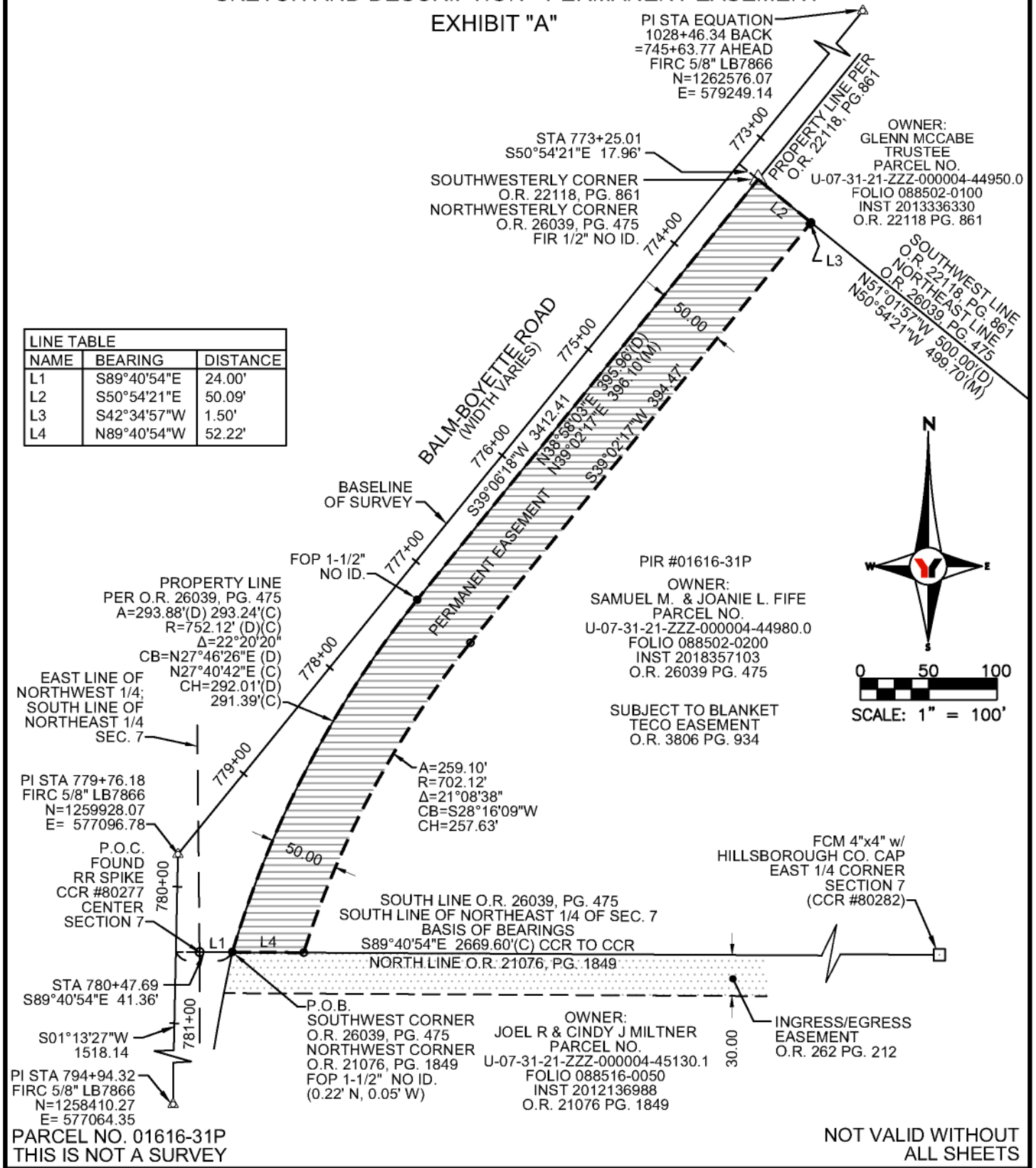
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.:	N/A		SURVEY PROJECT NO.
PREPARED:	DE	1/24/25	SCALE:	N/A		
CHECKED:	MC	1/24/25	7	31 S.	21 E.	21000900TS
APPROVED:	MC	1/24/25	SEC:	TWP:	RNG	SHEET 2 OF 3

SECTION 7, TOWNSHIP 31 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L1	S89°40'54"E	24.00'
L2	S50°54'21"E	50.09'
L3	S42°34'57"W	1.50'
L4	N89°40'54"W	52.22'

PARCEL NO. 01616-31P
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO.
PREPARED:	DE	1/24/25	SCALE:	1"=100'		
CHECKED:	MC	1/24/25	7	31 S.	21 E.	21000900TS
APPROVED:	MC	1/24/25	SEC:	TWP:	RNG	SHEET 3 OF 3

January 24, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-32P
Folio No. 088516-0050
Sec. 7, Twp. 31S, Rng. 21E

PROJECT NO.
01616

EXHIBIT "A"

A parcel of land lying in the southeast 1/4 of Section 7, Township 31 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the center of said Section 7 as marked by a railroad spike for Certified Corner Record 80277; thence along the south line of the northeast 1/4 of said Section 7, South 89°40'54" East, a distance of 24.00 feet, to the northwest corner of those lands described in Official Record Book 21076, Page 1849, of the Public Records of Hillsborough County, Florida, also being the southwest corner of those lands described in Official Record Book 26039, Page 475, of the Public Records of Hillsborough County, Florida, and the POINT OF BEGINNING; thence continue along said south line of the northeast 1/4, South 89°40'54" East, a distance of 52.22 feet, to a point on a curve lying 50.00 feet easterly of and parallel to the westerly boundary line of the said lands described in Official Records Book 26039, Page 475; thence along said curve, concave easterly, having a radius of 702.12 feet, arc length of 12.73 feet, delta of 01°02'19", chord bearing and distance, South 17°10'41" West, 12.73 feet, to a point on a curve lying 50.00 feet easterly of the east right-of-way line of Balm-Boyette Road, as described in aforesaid Official Record Book 21076, Page 1849, Public Records of Hillsborough County, Florida, also being the westerly boundary line of aforesaid lands described in Official Record Book 21076, Page 1849; thence along said curve, concave easterly, having a radius of 1315.68 feet, arc length of 195.63 feet, delta of 08°31'10", chord bearing and distance, South 07°56'00" West, 195.45 feet, to a point on the south boundary line of aforesaid lands described in Official Record Book 21076, Page 1849, also being the north boundary line of lands described in Instrument 2022034053, Public Records of Hillsborough County, Florida; thence along said south boundary line, North 89°40'54" West, a distance of 50.08 feet, to the southwest corner of aforesaid lands described in Official Record Book 21076, Page 1849, also being the northwest corner of the aforesaid lands described in Instrument 2022034053, and a point on the east right-of-way line of Balm-Boyette Road; thence along said east right-of-way line, along a curve, concave easterly, having a radius of 1365.68 feet, arc length of 207.93 feet, delta of 08°43'25", chord bearing and distance, North 07°54'45" East, 207.73 feet, to the POINT OF BEGINNING.

Containing 10,407 square feet, or 0.239 acres more or less.

NOT VALID WITHOUT
ALL SHEETS

TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355		BY:	DATE	FIELD BOOK NO.: N/A		SURVEY PROJECT NO. 21000900TS
		PREPARED:	DE	1/24/25	SCALE: N/A		
		CHECKED:	MC	1/24/25	7	31 S. 21 E.	
		APPROVED:	MC	1/24/25	SEC:	TWP: RNG	SHEET 1 OF 3

PROJECT NO.
01616

SURVEYOR'S NOTES:

1. Bearings shown on this map are based on the south line of the NE 1/4 of Section 7, being S89°40'54"E, as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. Measurements and calculations referenced were used to accurately describe the easement.
5. The purpose of this sketch and description is to establish a permanent easement.
6. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-20.
7. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
8. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
9. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
10. This is a sketch and legal description only, not a field survey.
11. Certified to Tampa Bay Water.
12. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

A	ARC LENGTH
(C)	CALCULATED
CB	CHORD BEARING
CCR	CERTIFIED CORNER RECORD
CH	CHORD LENGTH
(D)	DEED
E	EASTING
FCM	FOUND CONCRETE MONUMENT
FIRC	FOUND IRON ROD AND CAP
FOP	FOUND OPEN PIPE
INST	INSTRUMENT
LB	LICENSED BUSINESS
N	NORTHING
NO.	NUMBER
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
O.R.	OFFICIAL RECORD BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
R	RADIUS
RNG	RANGE
RR	RAILROAD
R/W	RIGHT-OF-WAY
SEC	SECTION
S.F.	SQUARE FEET
STA	STATION
TWP	TOWNSHIP

- ○ POINT ON EASEMENT DESCRIPTION
- △ FOUND IRON ROD
- □ FOUND CONCRETE MONUMENT
- ⊖ FOUND RAILROAD SPIKE

This document has been digitally signed and sealed under Rule 5J-17.062 of the Florida Administrative Code.
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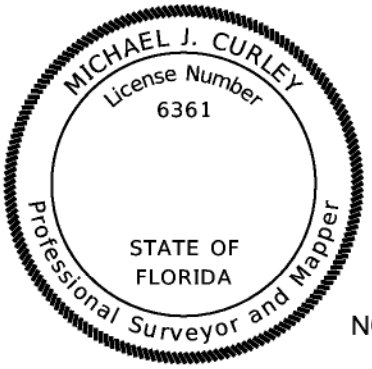
Michael J Curley
Digitally signed by Michael J Curley
Date: 2025.02.12 14:01:01 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21



NOT VALID WITHOUT ALL SHEETS

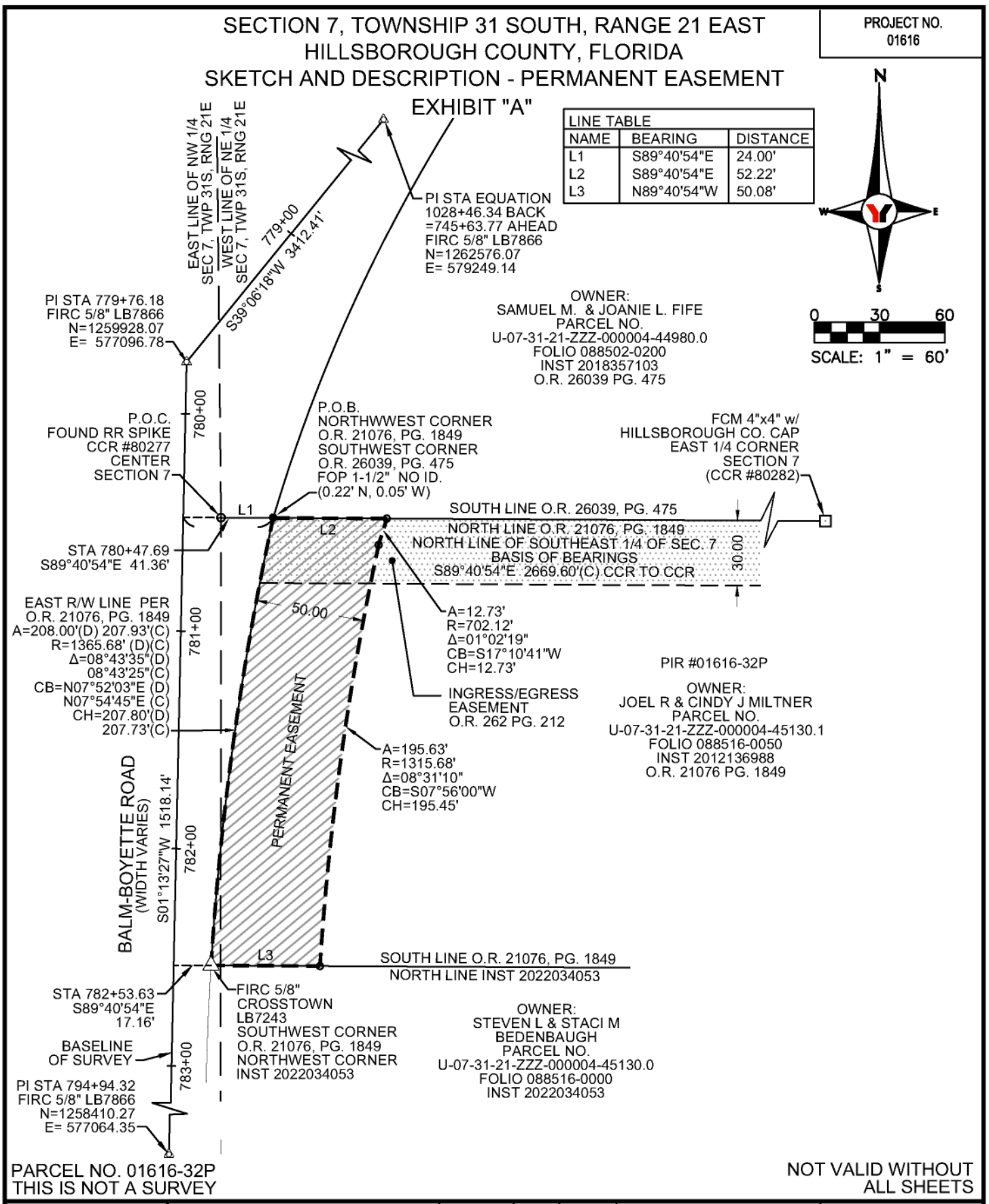
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.:	N/A		SURVEY PROJECT NO.
PREPARED:	DE	1/24/25	SCALE:	N/A		
CHECKED:	MC	1/24/25	7	31 S.	21 E.	21000900TS
APPROVED:	MC	1/24/25	SEC:	TWP:	RNG	SHEET 2 OF 3

SECTION 7, TOWNSHIP 31 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L1	S89°40'54"E	24.00'
L2	S89°40'54"E	52.22'
L3	N89°40'54"W	50.08'

PARCEL NO. 01616-32P
THIS IS NOT A SURVEY

NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
PREPARED:	DE	1/24/25	SCALE:	1"=60'		
CHECKED:	MC	1/24/25	7	31 S.	21 E.	
APPROVED:	MC	1/24/25	SEC:	TWP:	RNG	SHEET 3 OF 3

January 2, 2025
Tampa Bay Water
Permanent Easement
Parcel No.01616-33P
Folio No. 088516-0000
Sec. 7, Twp. 31S, Rng. 21E

PROJECT NO.
01616

EXHIBIT "A"

A parcel of land lying in the southeast 1/4 of Section 7, Township 31 South, Range 21 East, Hillsborough County, Florida, being described as follows:

COMMENCE at the center of said Section 7 as marked by a railroad spike for Certified Corner Record 80277; thence along the north line of the southeast 1/4 of said Section 7, South 89°40'54" East, a distance of 24.00 feet, to a point on the east right-of-way line of Balm-Boyette Road; thence along said east right-of-way line, along a curve, concave easterly, having a radius of 1365.68 feet, arc length of 207.93 feet, delta of 08°43'25", chord bearing and distance, South 07°54'45" West, 207.73 feet, to the northwest corner of those lands described in Instrument Number 2022034053, of the Public Records of Hillsborough County, Florida, also being the southwest corner of those lands described in Official Record Book 21076, Page 1849, of the Public Records of Hillsborough County, Florida, and the POINT OF BEGINNING; thence departing said east right-of-way line, along the north boundary line of said lands described in Instrument Number 2022034053, also being the south boundary line of said lands described in Official Record Book 21076, Page 1849, South 89°40'54" East, a distance of 50.08 feet to a point on a curve being 50.00 feet east of and parallel to the aforesaid east right-of-way line of Balm-Boyette Road; thence southerly along said curve, concave easterly, having a radius of 1315.68 feet, arc length of 54.46 feet, delta of 02°22'17", chord bearing and distance, South 02°27'40" West, 54.45 feet; thence South 00°12'47" West, a distance of 187.13 feet, to a point on the south boundary line of aforesaid lands described in Instrument Number 2022034053, also being the north boundary line of those lands described in Official Record Book 4817, Page 1117, of the Public Records of Hillsborough County, Florida; thence along said south boundary line, North 89°41'05" West, a distance of 50.00 feet to the southwest corner of said lands described in Instrument Number 2022034053, also being the northwest corner of said lands described in Official Record Book 4817, Page 1117, and a point on the aforesaid east right-of-way of Balm-Boyette Road; thence along said east right-of-way line, North 00°12'47" East, a distance of 187.55 feet, to a point of curvature; thence northerly along a curve, concave easterly, having a radius of 1365.68 feet, arc length of 54.03 feet, delta of 02°16'00", chord bearing and distance, North 02°23'32" East, 54.02 feet, to the POINT OF BEGINNING.

Containing 12,079 square feet, or 0.277 acres more or less.

NOT VALID WITHOUT
ALL SHEETS

			BY:	DATE	FIELD BOOK NO.: N/A			
TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355	PREPARED:	DE	1/2/25	SCALE:	N/A		SURVEY PROJECT NO. 21000900TS
		CHECKED:	MC	1/2/25	7	31 S.	21 E.	
		APPROVED:	MC	1/2/25	SEC:	TWP:	RNG	SHEET 1 OF 3

PROJECT NO.
01616

SURVEYOR'S NOTES:

1. Bearings shown on this map are based on the north line of the SE 1/4 of Section 7, being S89°40'54"E, as measured on the Florida State Plane Coordinate System, West Zone, North American Datum of 1983, 2011 Adjustment.
2. Distances shown hereon are in U.S. Feet.
3. All distances are calculated (C) unless otherwise noted.
4. The purpose of this sketch and description is to establish a permanent easement.
5. This sketch and description was prepared with the benefit of a property information report prepared by American Government Services Corporation, AGSC File No. 32231-27.
6. This legal description has been prepared based on the survey baseline and associated centerline of construction shown on that certain Control Survey prepared by Stantec Consulting Services Inc. entitled Southern Hillsborough County Supply Expansion Pipeline Segment B (Stantec Project No.177311699 having a last date of field survey of 9/5/2024).
7. The subject easement's positional relationship to the survey baseline has been verified by field survey and the ties between the easement and baseline are as shown hereon.
8. Monumentation delineating existing boundary lines herein is derived from a Record Survey/Base Map of the project route performed by George F. Young Inc, last date in field, November 5, 2024.
9. Measurements and calculations referenced were used to accurately describe the easement.
10. This is a sketch and legal description only, not a field survey.
11. Certified to Tampa Bay Water.
12. Unless it bears the original signature and seal, or the digital equivalent, of a Florida Licensed Surveyor and Mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.

LEGEND:

A	ARC LENGTH
(C)	CALCULATED
CB	CHORD BEARING
CCR	CERTIFIED CORNER RECORD
CH	CHORD LENGTH
(D)	DEED
E	EASTING
FIRC	FOUND IRON ROD AND CAP
FOP	FOUND OPEN PIPE
INST	INSTRUMENT
LB	LICENSED BUSINESS
(M)	MEASURED
N	NORTHING
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
O.R.	OFFICIAL RECORD BOOK
PG.	PAGE
PI	POINT OF INTERSECTION
PIR	PROPERTY INFORMATION REPORT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
R	RADIUS
RNG	RANGE
RR	RAILROAD
R/W	RIGHT-OF-WAY
SEC	SECTION
S.F.	SQUARE FEET
STA	STATION
TWP	TOWNSHIP

- ○ POINT ON EASEMENT DESCRIPTION
- △ FOUND IRON ROD
- □ FOUND CONCRETE MONUMENT
- ⊖ FOUND RAILROAD SPIKE

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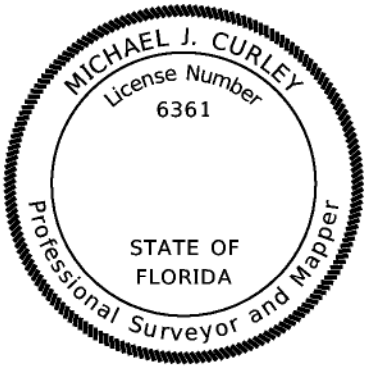
Michael J Curley

Digitally signed by Michael J Curley
Date: 2025.01.15 16:11:00 -05'00'

Michael J. Curley, PSM
Florida Professional Surveyor and Mapper
License Number LS 6361
George F. Young Inc. LB21



NOT VALID WITHOUT ALL SHEETS

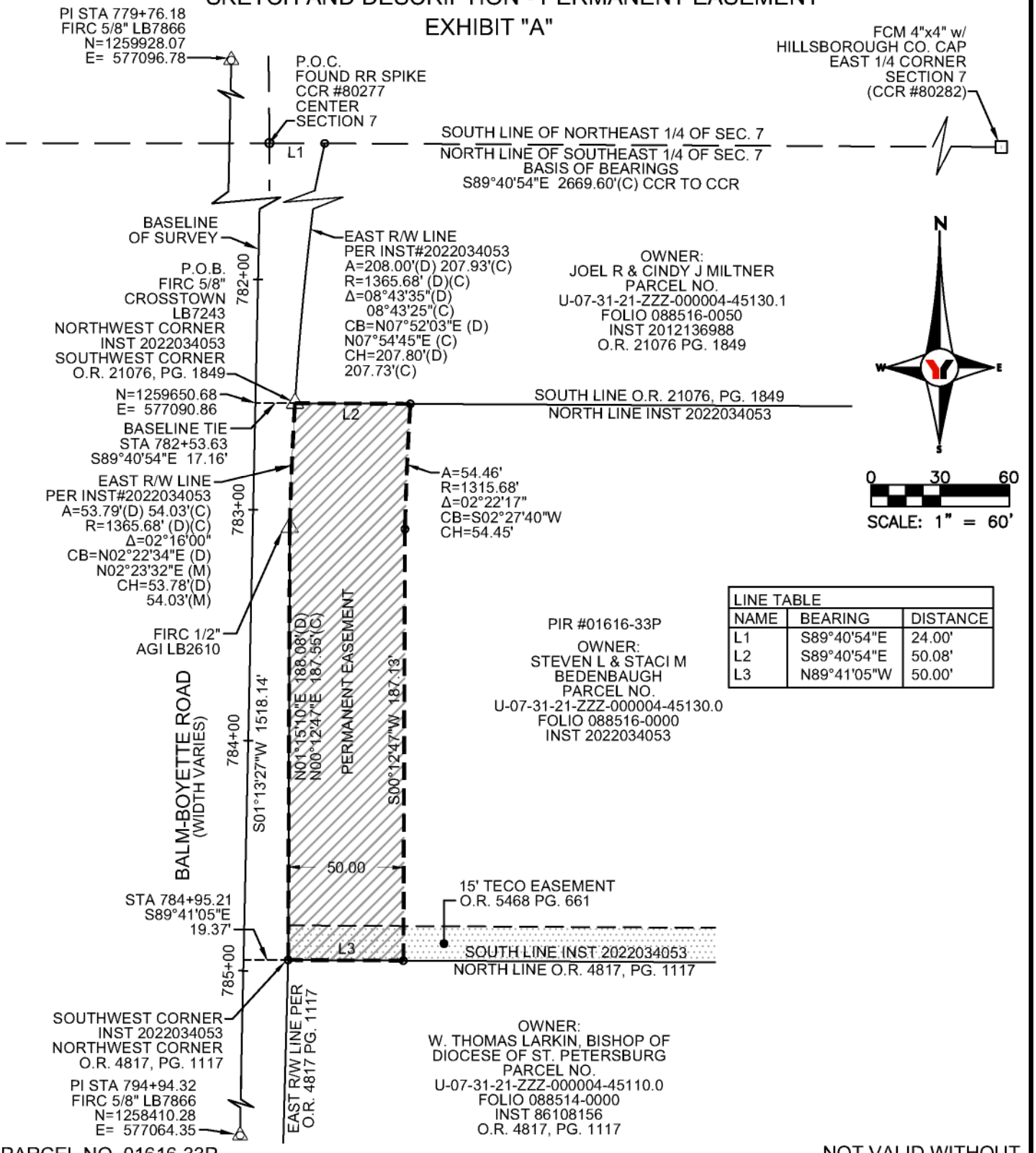
TAMPA BAY WATER
Supplying Water To The Region

TAMPA BAY WATER
2575 Enterprise Road
Clearwater, FL 33763
Phone: (727) 796-2355

	BY:	DATE	FIELD BOOK NO.:	N/A		SURVEY PROJECT NO.
PREPARED:	DE	1/2/25	SCALE:	N/A		
CHECKED:	MC	1/2/25	7	31 S.	21 E.	21000900TS
APPROVED:	MC	1/2/25	SEC:	TWP:	RNG	SHEET 2 OF 3

SECTION 7, TOWNSHIP 31 SOUTH, RANGE 21 EAST
HILLSBOROUGH COUNTY, FLORIDA
SKETCH AND DESCRIPTION - PERMANENT EASEMENT
EXHIBIT "A"

PROJECT NO. 01616



LINE TABLE		
NAME	BEARING	DISTANCE
L1	S89°40'54"E	24.00'
L2	S89°40'54"E	50.08'
L3	N89°41'05"W	50.00'

PARCEL NO. 01616-33P
THIS IS NOT A SURVEY

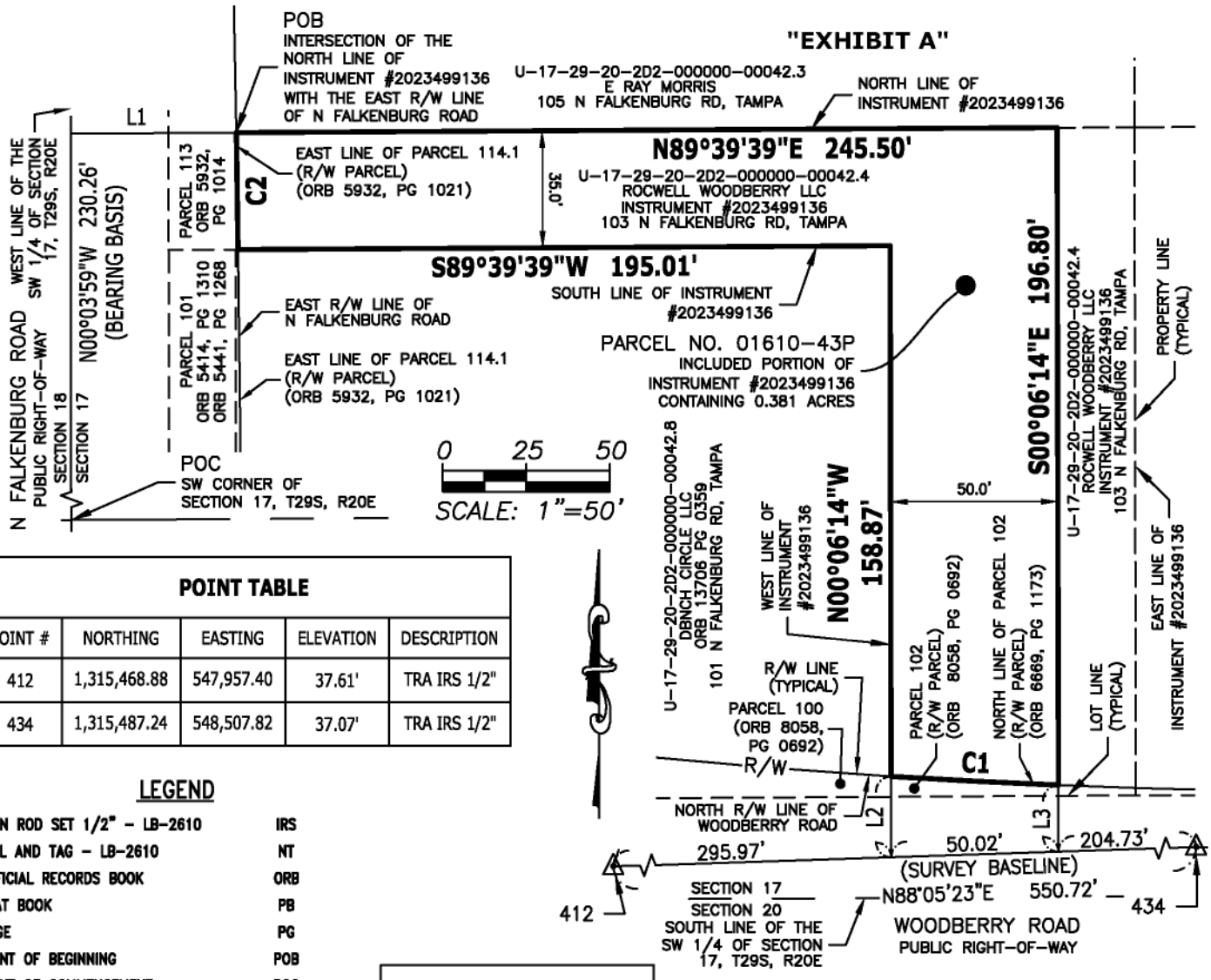
NOT VALID WITHOUT ALL SHEETS

TAMPA BAY WATER Supplying Water To The Region	TAMPA BAY WATER 2575 Enterprise Road Clearwater, FL 33763 Phone: (727) 796-2355		BY:	DATE	FIELD BOOK NO.: N/A			SURVEY PROJECT NO. 21000900TS
		PREPARED:	DE	1/2/25	SCALE:	1"=60'		
		CHECKED:	MC	1/2/25	7	31 S.	21 E.	
		APPROVED:	MC	1/2/25	SEC:	TWP:	RNG	SHEET 3 OF 3

THIS IS NOT A SURVEY

SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

"EXHIBIT A"



POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
412	1,315,468.88	547,957.40	37.61'	TRA IRS 1/2"
434	1,315,487.24	548,507.82	37.07'	TRA IRS 1/2"

LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	——E——E——E——
RIGHT-OF-WAY LINE	———R/W———
PROPERTY LINE	- - - - - - -

LINE TABLE

LINE	BEARING	DISTANCE
L1	N89°39'39"E	49.53'
L2	N00°06'14"W	24.18'
L3	S00°06'14"E	19.88'

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	50.08'	2,251.83'	1°16'27"	N86°59'19"W	50.07'
C2	35.00'	11,505.91'	0°10'27"	N00°54'21"W	35.00'

NOTE: SEE SHEETS 2 THROUGH 8 OF 9 FOR EXPANDED LEGEND
NOTE: SEE SHEETS 2 THROUGH 8 OF 9 FOR IMPROVEMENTS

CERTIFIED TO: TAMPA BAY WATER

PERMANENT EASEMENT PARCEL 01610-43P

SCALE	DATE	JOB No.		
1"=50'	01/29/2025	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
FRV	RVD	17	29S	20E

ARDURRA
COLLABORATE. INNOVATE. CREATE.
4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone: (813) 880-8881
www.Ardurra.com
License #2610

CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L. Kohler, State of Florida, Professional Surveyor and Mapper, License No. LS6201. This item has been electronically sign and sealed by Jeffrey L. Kohler, PSM, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

Jeffrey L Kohler
2025.02.14 07:31:34
-05'00'

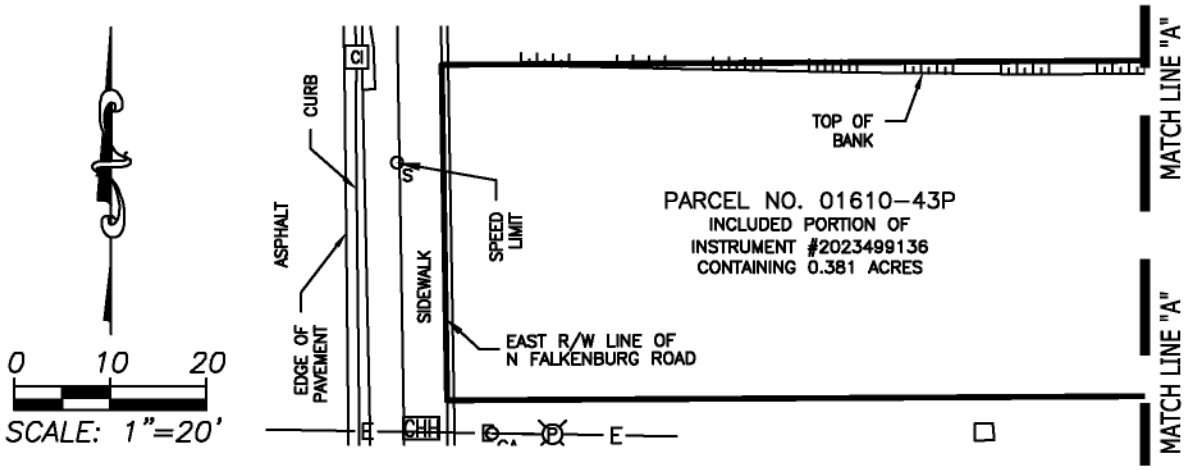
JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

Q:\SURVEY\00235\2021\1484\Production\Base\ADDITIONAL TEMPORARY EASEMENTS\TEP-43P.dwg, January 29, 2025 8:23 AM, ARDURRA GROUP, INC.

THIS IS NOT A SURVEY

SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

"EXHIBIT A"



LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR
- FLOOD LIGHT
- GUY WIRE ANCHOR
- GUY POLE
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE
- TELE, CTV, & POWER POLE
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE)
- CISTERN
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE
- STORM SEWER STUB

ELECTRICAL
- CIRCUIT BREAKER PANEL
- HANDHOLE
- MANHOLE
- OUTLET
- PEDESTAL
- TRANSFORMER BOX
- METER
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT)
- INDICATOR VALVE POST
- WATER METER
- METER PIT
- WATER VALVE
- WATER LINE STUB
- WATER TOWER BASE
- SHUT OFF VALVE
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT
- PUMPSTATION MANHOLE
- SANITARY MANHOLE
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE

- RIGHT-OF-WAY LINE

TOPOGRAPHIC FEATURES
- FLAG POLE
- MAIL BOX
- MONITORING WELL
- POST (ROUND)
- POST (SQUARE)
- ROCK
- RAILROAD SIGNAL
- SIGN POST
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- TRAFFIC SIGNAL
- UNDERGROUND MARKER
- U/G MARKER CABLE
- U/G MARKER ELECTRIC
- U/G MARKER FIBER OPTIC
- U/G MARKER GAS
- U/G MARKER TELEPHONE

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- COMMUNICATIONS HANDHOLE
- CABLE TV PEDESTAL

- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

PERMANENT EASEMENT PARCEL 01610-43P

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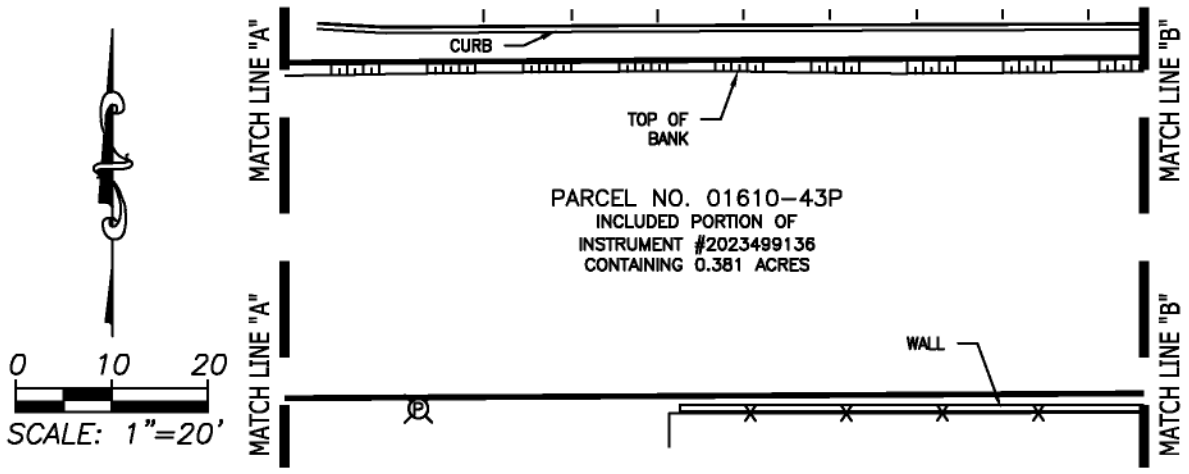

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE (FT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE
- MANHOLE (E)
- OUTLET
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE
- BACKFLOW PREVENTER (WSO)
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD (SH)
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
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- POST (ROUND) (P)
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- ROCK (ROCK)
- RAILROAD SIGNAL
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- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE
- CABLE TV PEDESTAL (CT)
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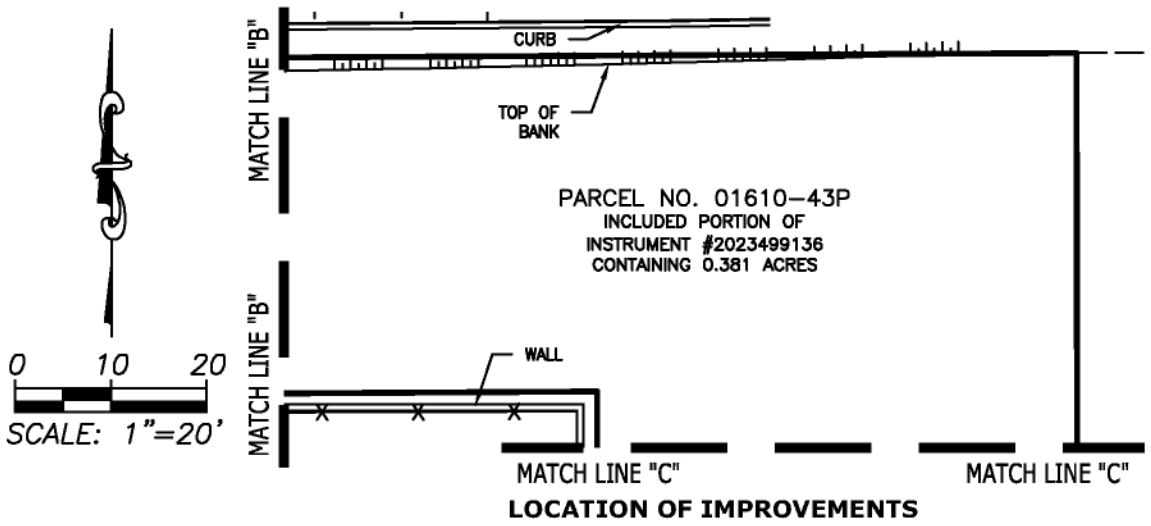

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
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- MONO POLE (FT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (E, CBP)
- HANDHOLE
- MANHOLE (E)
- OUTLET
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
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- INDICATOR VALVE POST
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- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
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- SANITARY MANHOLE (S)
- SEPTIC TANK
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- RIGHT-OF-WAY LINE —R/W—

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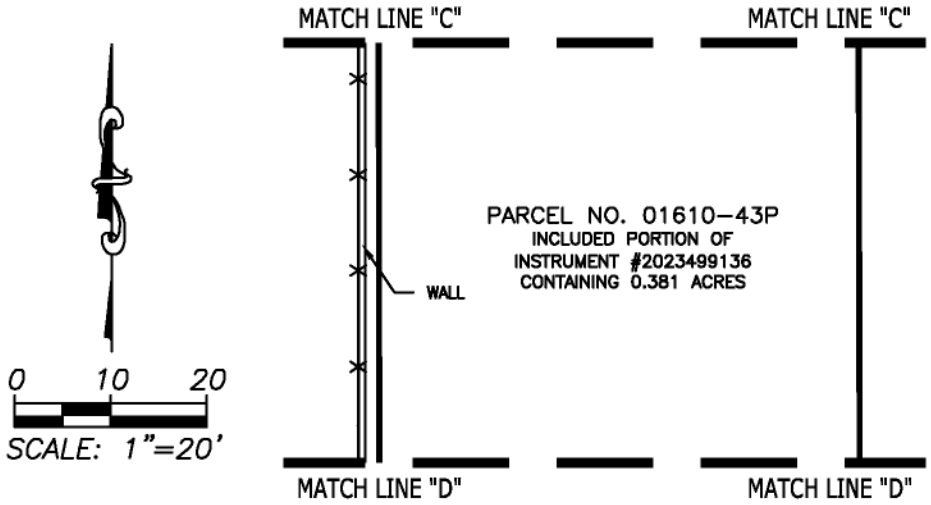

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LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
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WATER
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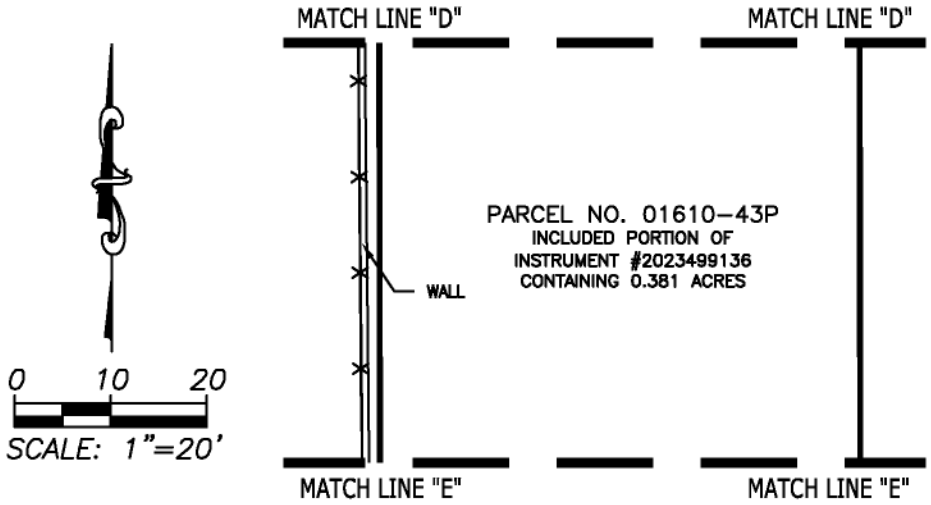

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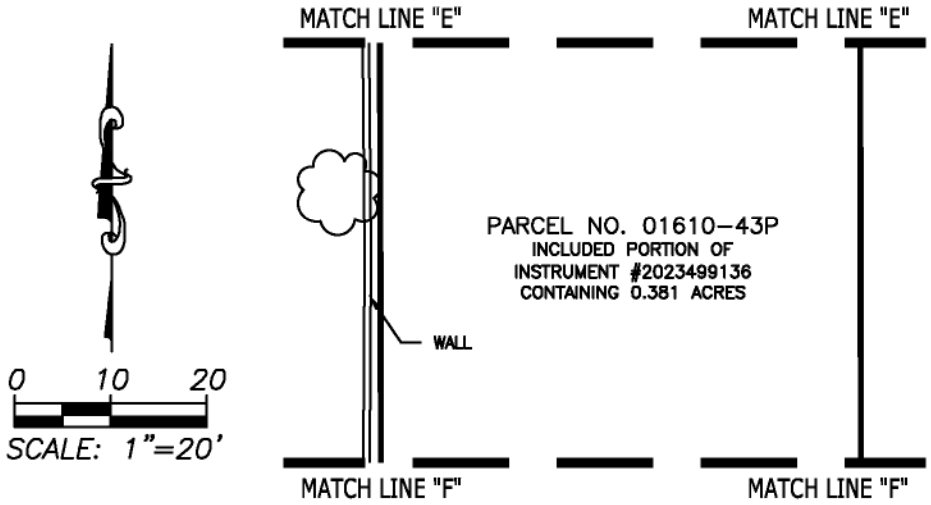

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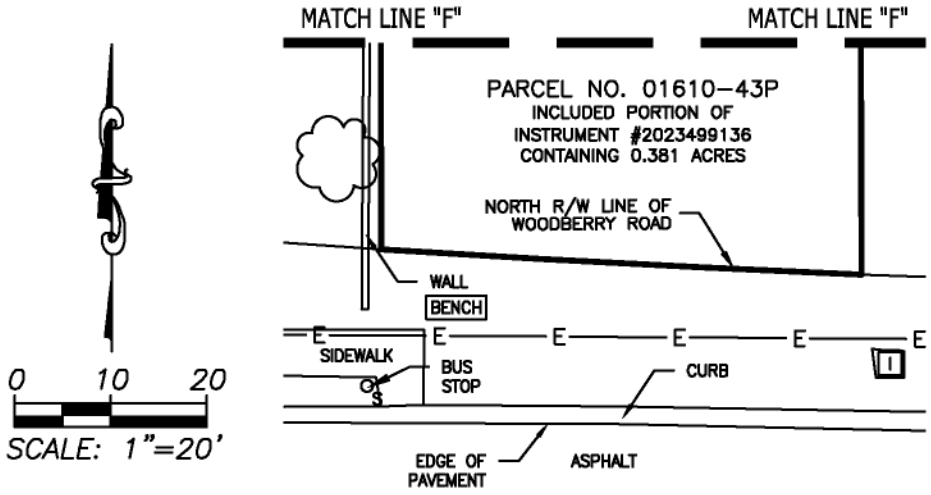

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- SECTION LINE
- OVERHEAD ELECTRIC

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT)
- INDICATOR VALVE POST
- WATER METER
- METER PIT
- WATER VALVE
- WATER LINE STUB
- WATER TOWER BASE
- SHUT OFF VALVE
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT
- PUMPSTATION MANHOLE
- SANITARY MANHOLE
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE

- RIGHT-OF-WAY LINE

TOPOGRAPHIC FEATURES
- FLAG POLE
- MAIL BOX
- MONITORING WELL
- POST (ROUND)
- POST (SQUARE)
- ROCK
- RAILROAD SIGNAL
- SIGN POST
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- TRAFFIC SIGNAL
- UNDERGROUND MARKER
- U/G MARKER CABLE
- U/G MARKER ELECTRIC
- U/G MARKER FIBER OPTIC
- U/G MARKER GAS
- U/G MARKER TELEPHONE

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- COMMUNICATIONS HANDHOLE
- CABLE TV PEDESTAL

- PROPERTY LINE

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PERMANENT EASEMENT PARCEL 01610-43P

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SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

LEGAL DESCRIPTION: (BY ARDURRA)

"EXHIBIT A"

A PARCEL OF LAND BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS INSTRUMENT NUMBER 2023499136, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SECTION 17, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA; THENCE NORTH 00°03'59" WEST, ALONG THE WEST LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 17, A DISTANCE OF 230.26 FEET; THENCE, LEAVING SAID WEST LINE, NORTH 89°39'39" EAST, A DISTANCE OF 49.53 FEET TO THE POINT OF INTERSECTION OF THE NORTH LINE OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS INSTRUMENT NUMBER 2023499136, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, WITH THE EAST LINE OF PARCEL 114.1, AS DESCRIBED IN OFFICIAL RECORDS BOOK 5932, PAGE 1021, OF SAID PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, ALSO BEING THE EAST RIGHT-OF-WAY LINE OF NORTH FALKENBURG ROAD, AND THE POINT OF BEGINNING; THENCE CONTINUE ALONG SAID NORTH LINE OF THE AFOREMENTIONED LANDS, NORTH 89°39'39" EAST, A DISTANCE OF 245.50 FEET; THENCE, DEPARTING SAID NORTH LINE, SOUTH 00°06'14" EAST, A DISTANCE OF 196.80 FEET TO A POINT ON THE NORTH LINE OF PARCEL 102, AS DESCRIBED IN OFFICIAL RECORDS BOOK 6669, PAGE 1173, OF SAID PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, SAID LINE ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF WOODBERRY ROAD, BEING A POINT ON A NON-TANGENT CURVE TO THE RIGHT; THENCE WESTERLY 50.08 FEET ALONG SAID NORTH RIGHT-OF-WAY LINE AND THE ARC OF SAID CURVE, HAVING A RADIUS OF 2,251.83 FEET, A CENTRAL ANGLE OF 01°16'27", AND A CHORD BEARING AND DISTANCE OF NORTH 86°59'19" WEST 50.07 FEET TO A POINT ON THE WEST LINE OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS INSTRUMENT NUMBER 2023499136 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE ALONG A LINE NON-TANGENT TO SAID CURVE AND SAID WEST LINE, NORTH 00°06'14" WEST, A DISTANCE OF 158.87 FEET TO A POINT ON THE SOUTH LINE OF SAID LANDS; THENCE SOUTH 89°39'39" WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 195.01 FEET TO A POINT ON SAID EAST RIGHT-OF-WAY LINE OF NORTH FALKENBURG ROAD AND SAID EAST LINE OF RIGHT-OF-WAY PARCEL 114.1, ALSO BEING A POINT ON A NON-TANGENT CURVE TO THE LEFT; THENCE NORTHERLY 35.00 FEET ALONG SAID EAST RIGHT-OF-WAY LINE, AND THE ARC OF SAID CURVE, HAVING A RADIUS OF 11,505.91 FEET, A CENTRAL ANGLE OF 00°10'27", AND A CHORD BEARING AND DISTANCE OF NORTH 00°54'21" WEST 35.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.381 ACRES (16,605 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-43P, DATED DECEMBER 11, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC1-EXSURVEY", DATED 07/17/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

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PERMANENT EASEMENT PARCEL 01610-43P

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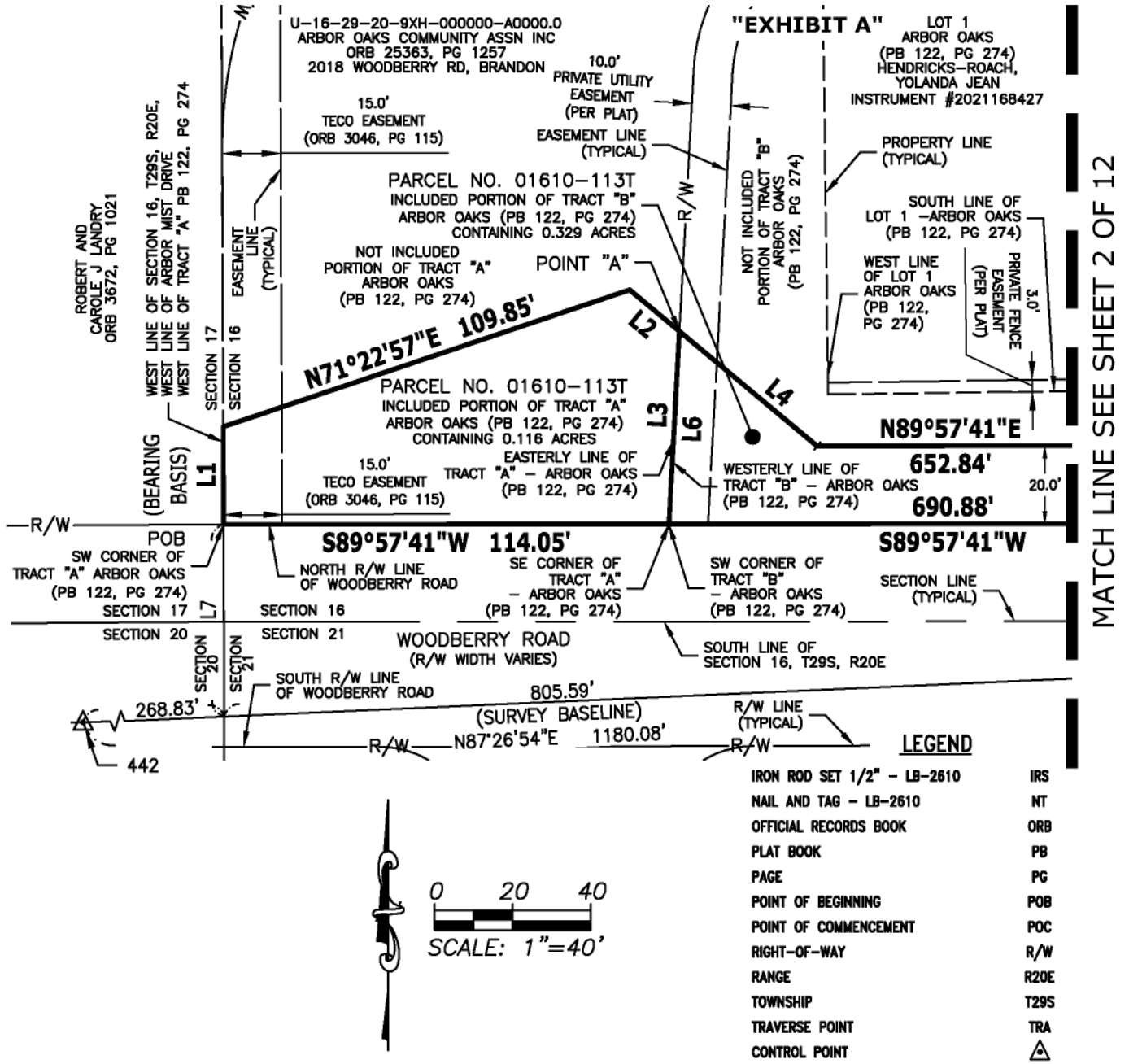
SECTION 16, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA



0 20 40

SCALE: 1"=40'

NOTE:
- **SEE SHEET 4 OF 5 FOR LINE AND POINT TABLES.**
- **SEE SHEETS 5 THROUGH 11 OF 12 FOR IMPROVEMENTS.**
- **SEE SHEETS 5 THROUGH 11 OF 12 FOR EXPANDED LEGEND.**

LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	
OVERHEAD ELECTRIC	-E-E-E-
RIGHT-OF-WAY LINE	R/W
PROPERTY LINE	

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TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-113T

SCALE	DATE	JOB No.		
1"=40'	11/26/2024	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
FRV	FRV	16	29S	20E

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CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L. Kohler, State of Florida, Professional Surveyor and Mapper, License No. LS6201. This item has been electronically signed and sealed by Jeffrey L. Kohler, PSM, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

Jeffrey L Kohler
2024.12.11 07:56:50
-05'00'

JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

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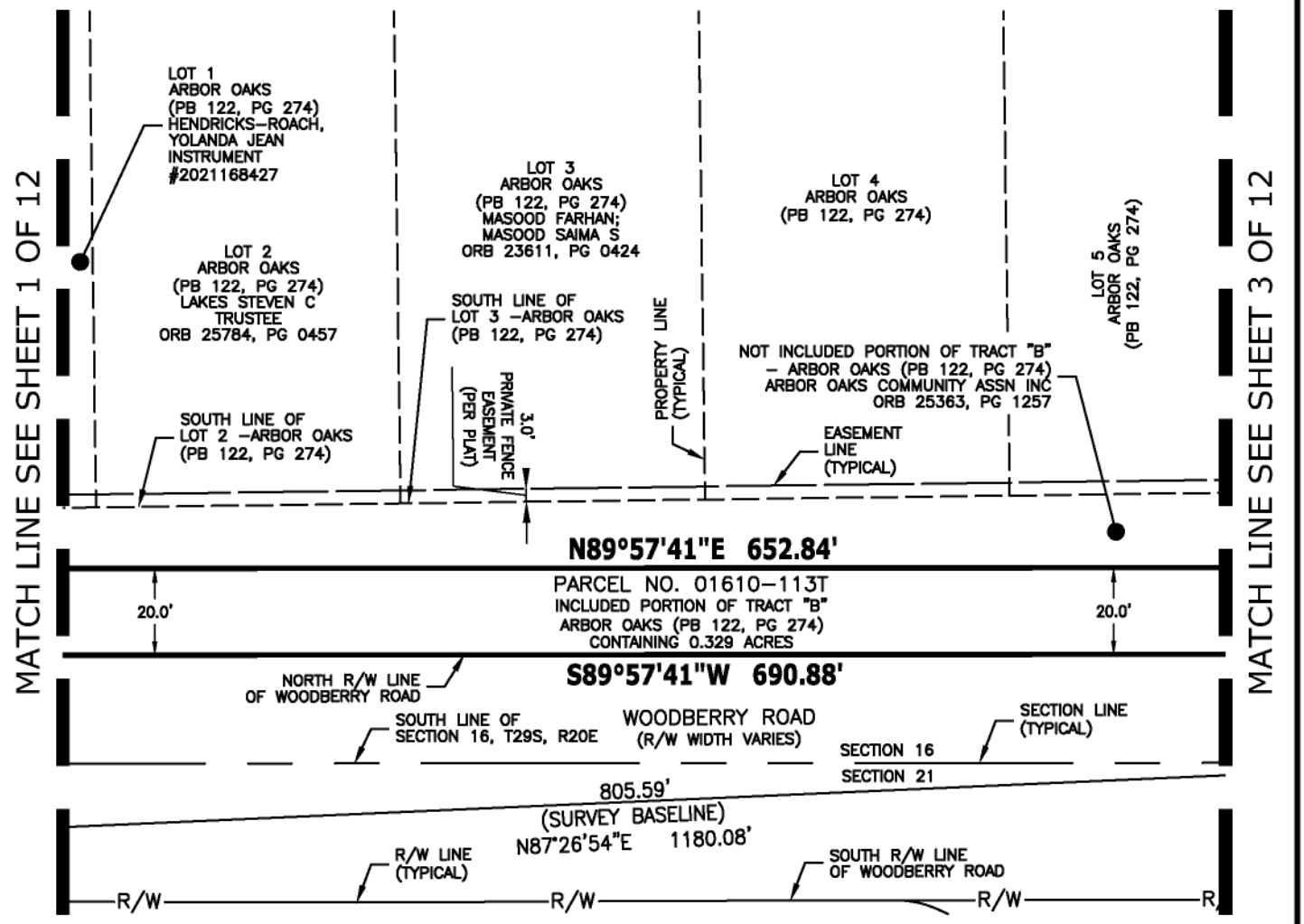

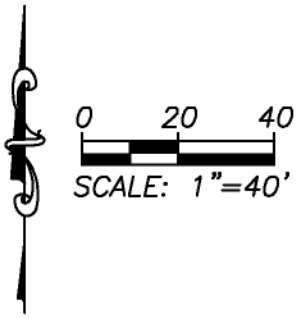

LEGEND

IRON ROD SET 1/2" – LB–2610	IRS
NAIL AND TAG – LB–2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT–OF–WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	⍙
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT–OF–WAY LINE	———R/W———
PROPERTY LINE	– – – – – –

NOTE:
- **SEE SHEET 4 OF 5 FOR LINE AND POINT TABLES.**
- **SEE SHEETS 5 THROUGH 11 OF 12 FOR IMPROVEMENTS.**
- **SEE SHEETS 5 THROUGH 11 OF 12 FOR EXPANDED LEGEND.**

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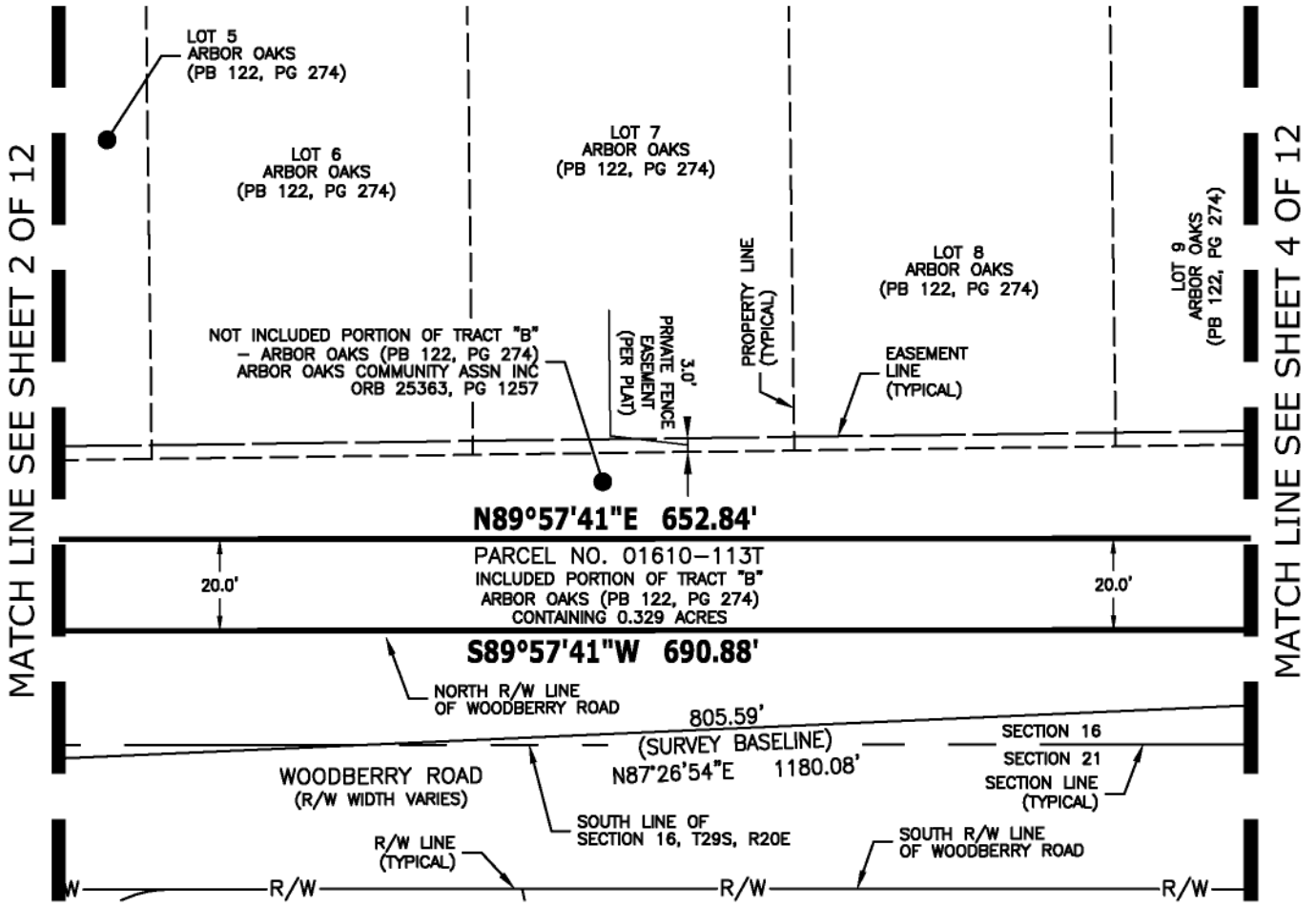

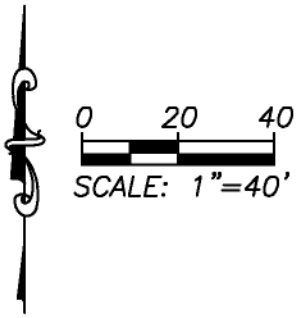

LEGEND

IRON ROD SET 1/2" – LB–2610	IRS
NAIL AND TAG – LB–2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT–OF–WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT–OF–WAY LINE	———R/W———
PROPERTY LINE	– – – – – –

NOTE:
- **SEE SHEET 4 OF 5 FOR LINE AND POINT TABLES.**
- **SEE SHEETS 5 THROUGH 11 OF 12 FOR IMPROVEMENTS.**
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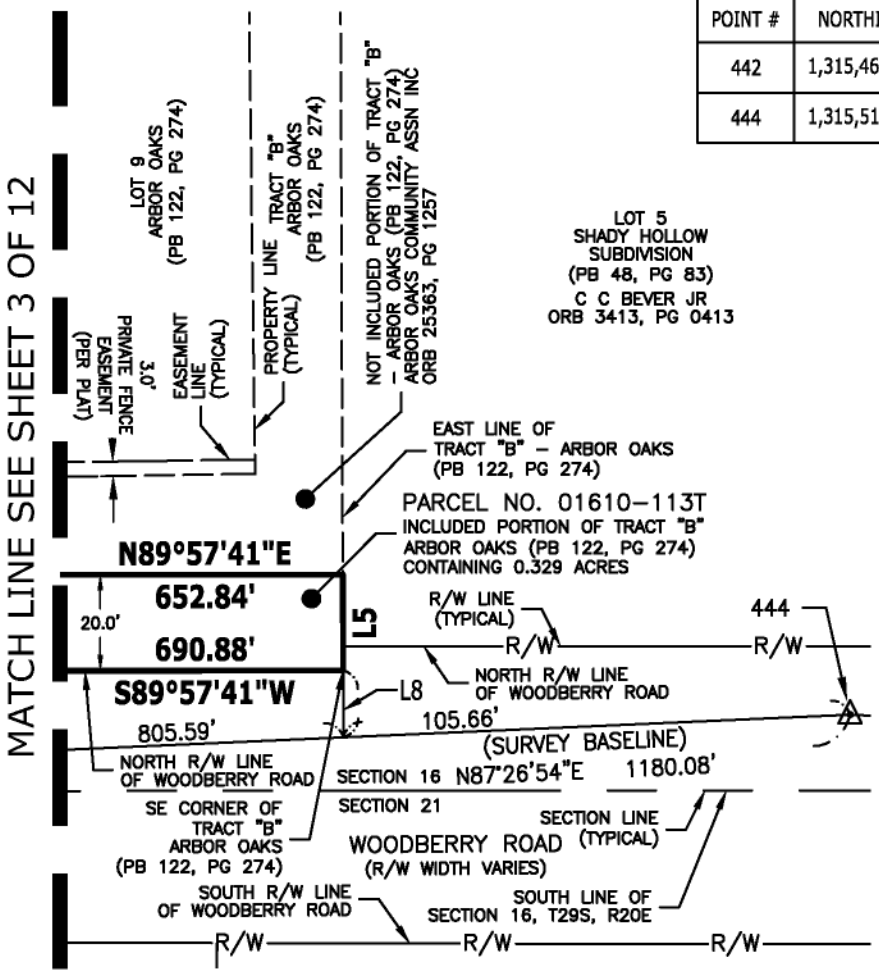
POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
442	1,315,463.46	553,054.79	58.96'	TRA IRS 1/2"
444	1,315,515.99	554,233.70	61.86'	TRA IRS 1/2"

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N00°13'03"W	25.00'
L2	S50°13'08"E	16.55'
L3	S03°06'19"W	49.47'
L4	S50°13'08"E	45.91'
L5	S00°12'51"E	20.00'
L6	N03°06'19"E	49.47'
L7	N00°13'03"W	49.21'
L8	N00°12'51"W	13.88'



LEGEND

IRON ROD SET 1/2" – LB–2610	IRS
NAIL AND TAG – LB–2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT–OF–WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT–OF–WAY LINE	———R/W———
PROPERTY LINE	– – – – – –

NOTE:
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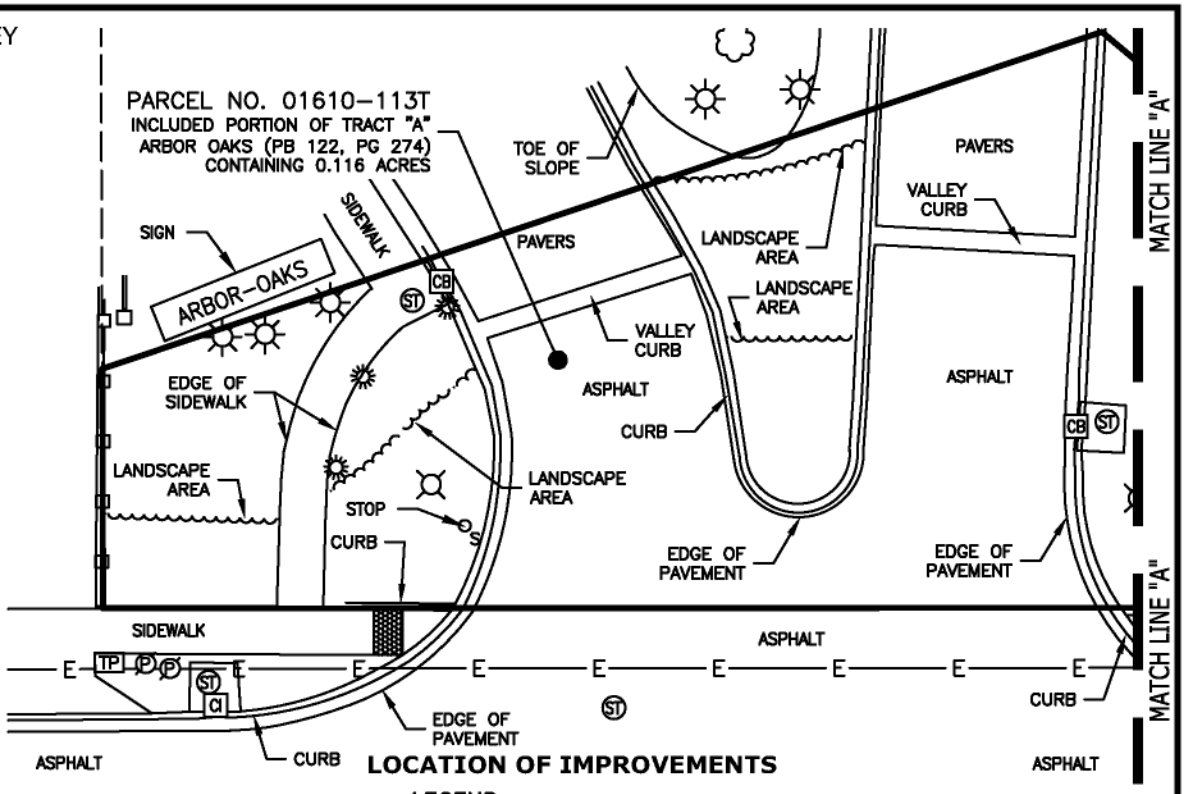

0 10 20

SCALE: 1"=20'

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE (FT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SS)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

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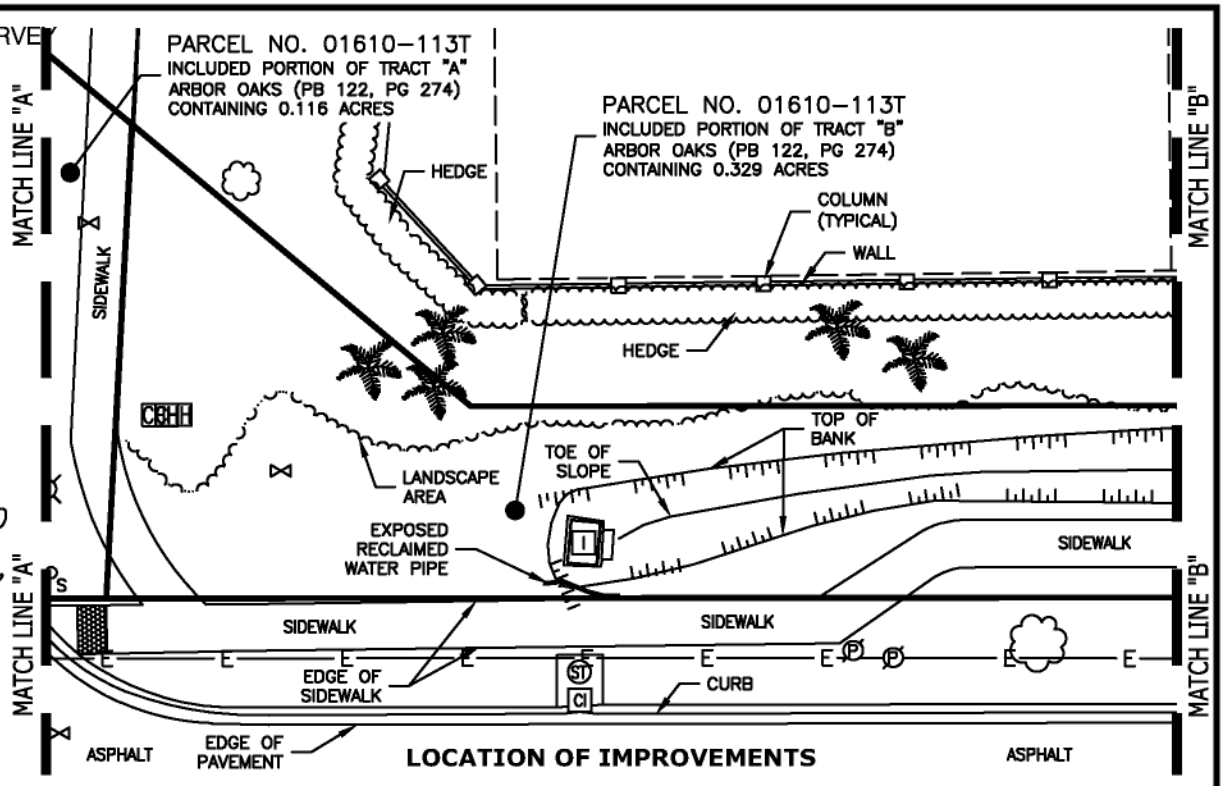

0 10 20

SCALE: 1"=20'

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
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- POWER & TELEPHONE POLE
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- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
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- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC (—E—E—)

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE (R/W)

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SS)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
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TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-113T

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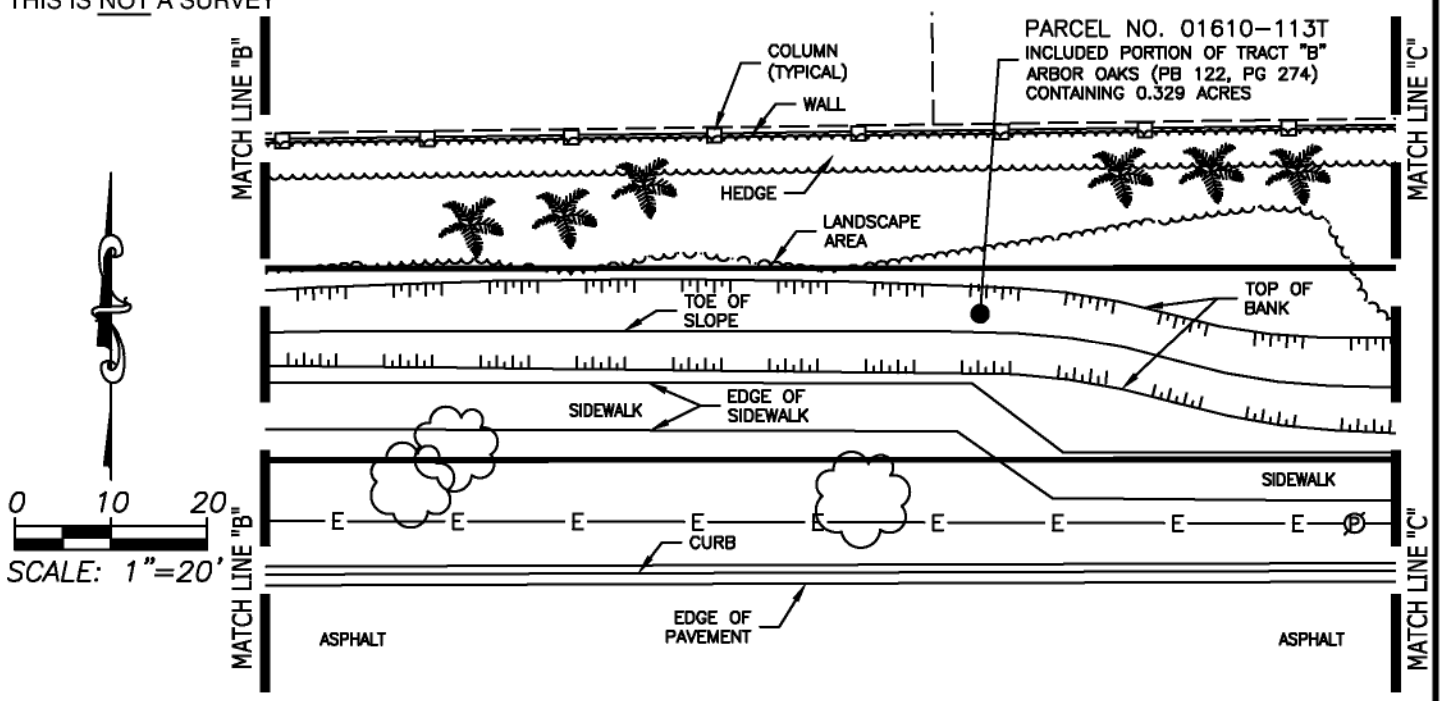

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SIDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE
- MANHOLE (E)
- OUTLET
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE
- BACKFLOW PREVENTER (WSO)
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-113T

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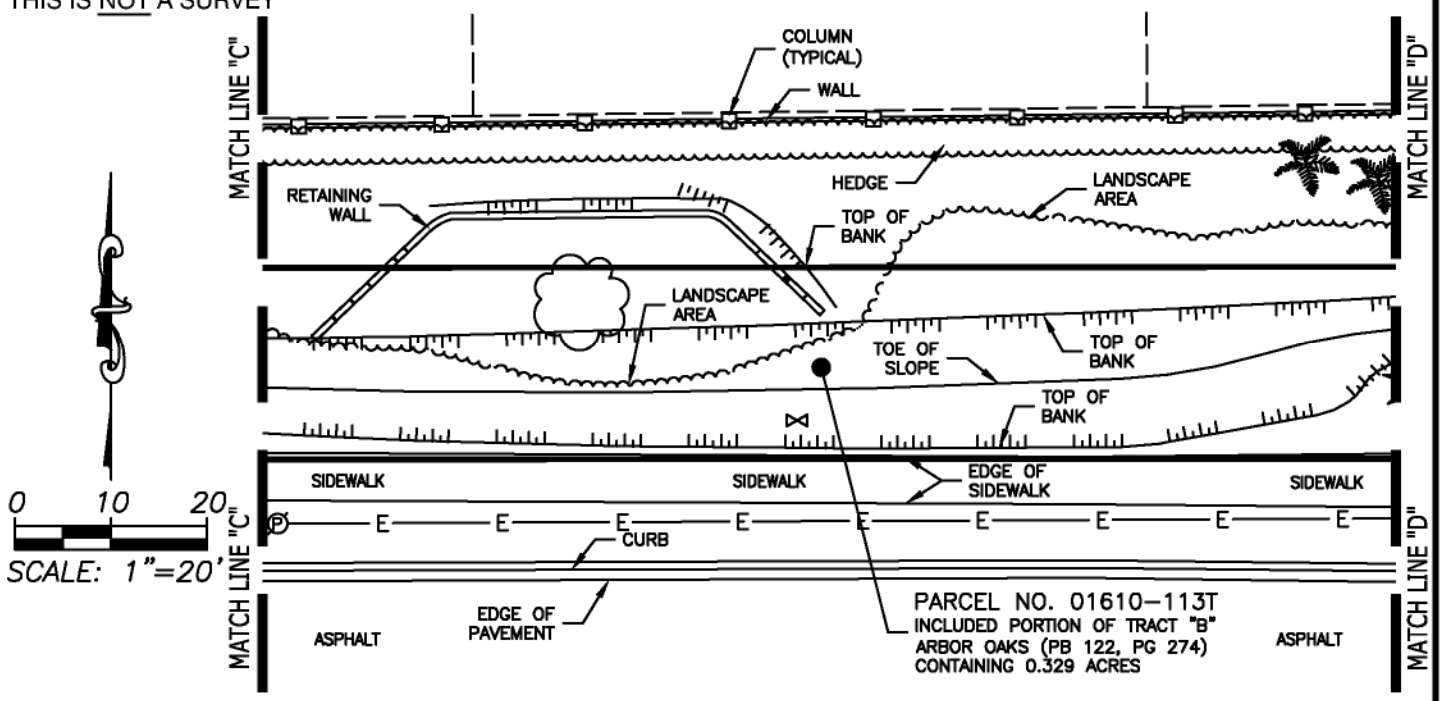

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VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
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OVERHEAD UTILITIES
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- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
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- STORM MANHOLE (ST)
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ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE
- MANHOLE (E)
- OUTLET
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE
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- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
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- SANITARY MANHOLE (S)
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TOPOGRAPHIC FEATURES
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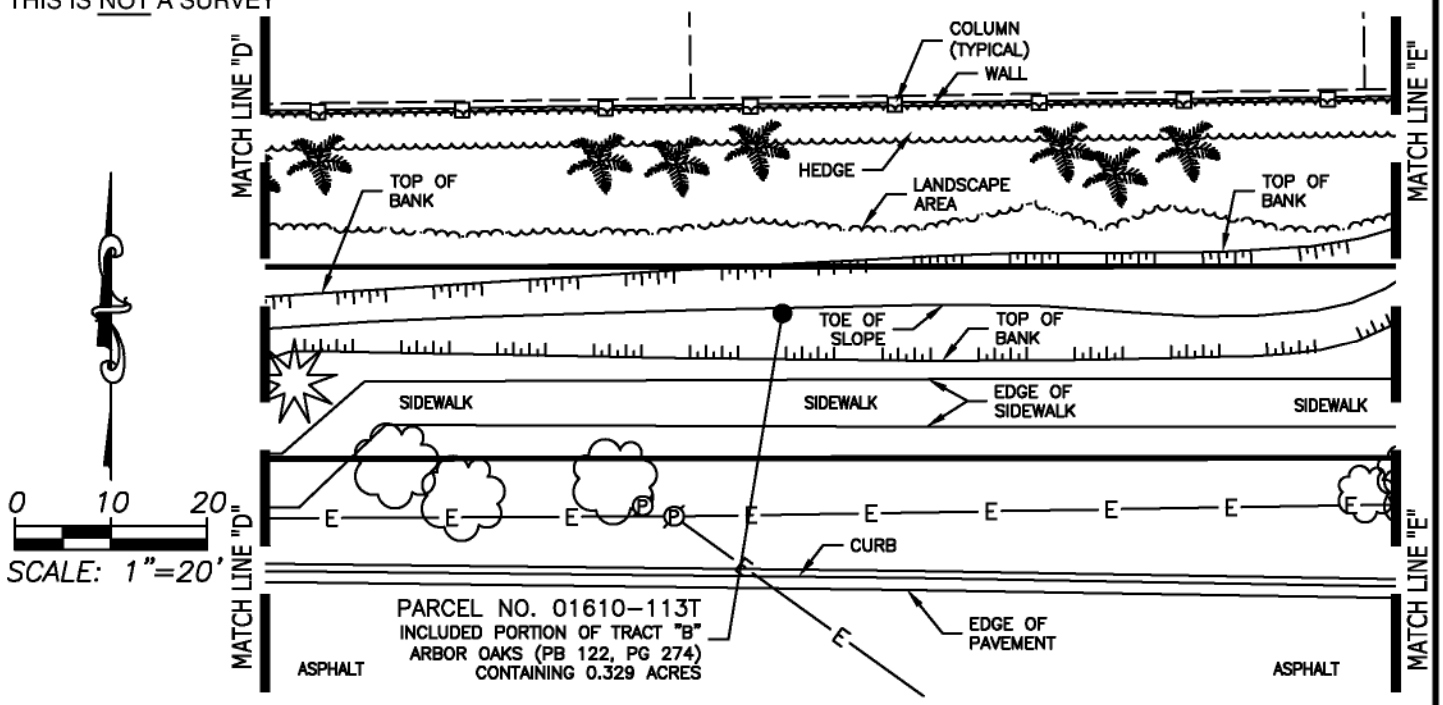

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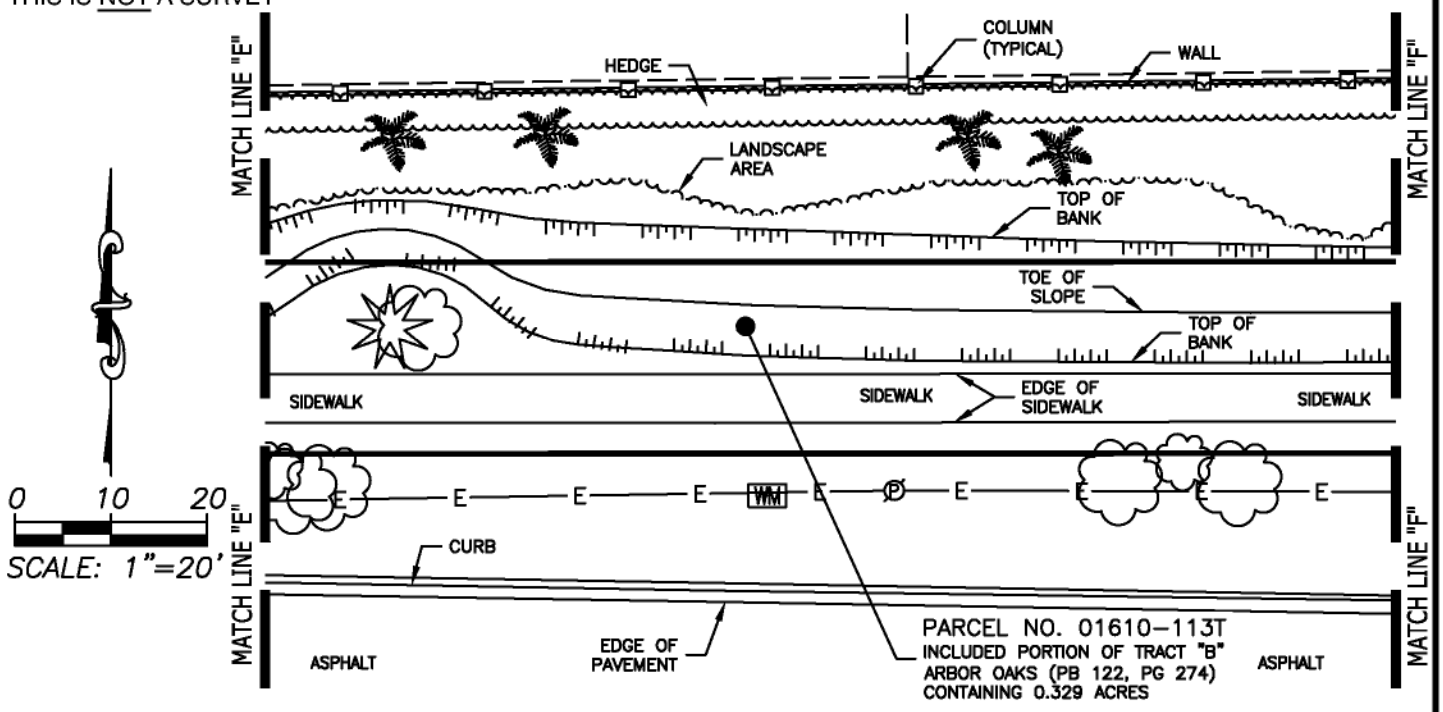

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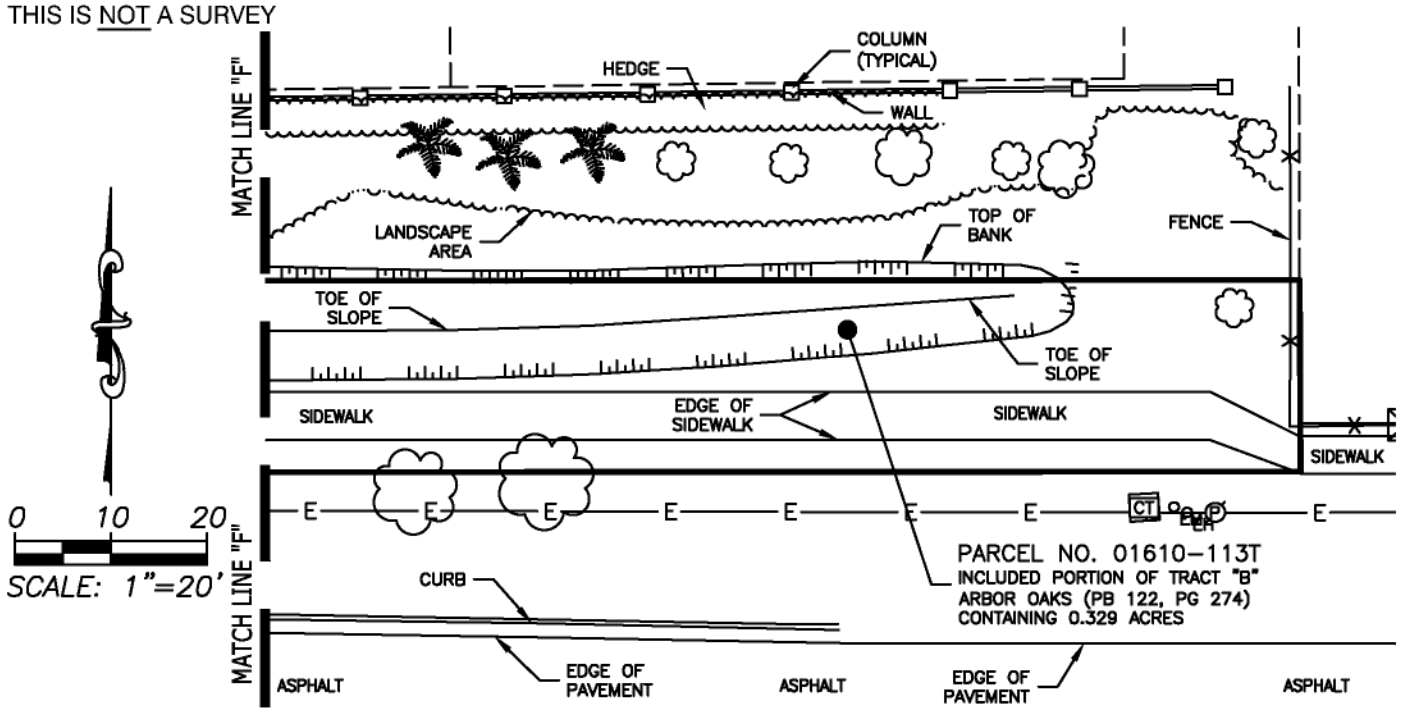

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LEGAL DESCRIPTION: (BY ARDURRA)

A PARCEL OF LAND BEING A PORTION OF TRACT "A", ARBOR OAKS, AS RECORDED IN PLAT BOOK 122, PAGE 274, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTION 16, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, BEING MORE PARTICULARLY AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF TRACT "A", ARBOR OAKS, AS RECORDED IN PLAT BOOK 122, PAGE 274, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE NORTH 00°13'03" WEST, ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 25.00 FEET; THENCE, DEPARTING SAID WEST LINE, NORTH 71°22'57" EAST, A DISTANCE OF 109.85 FEET; THENCE SOUTH 50°13'08" EAST, A DISTANCE OF 16.55 FEET TO A POINT ON THE EASTERLY LINE OF SAID LANDS, ALSO BEING THE WESTERLY LINE OF TRACT "B", ARBOR OAKS, AS RECORDED IN PLAT BOOK 122, PAGE 274, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND IDENTIFIED HEREIN AS POINT "A"; THENCE SOUTH 03°06'19" WEST, ALONG SAID EASTERLY LINE OF THOSE LANDS, A DISTANCE OF 49.47 FEET TO THE SOUTH LINE OF SAID LANDS AND THE NORTH RIGHT-OF-WAY LINE OF WOODBERRY ROAD; THENCE SOUTH 89°57'41" WEST, ALONG SAID SOUTH LINE OF THOSE LANDS AND SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 114.05 FEET TO THE SOUTHWEST CORNER OF SAID TRACT "A", ARBOR OAKS, AS RECORDED IN PLAT BOOK 122, PAGE 274, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING.

CONTAINING 0.116 ACRES (5,053 SQUARE FEET), MORE OR LESS.

TOGETHER WITH:

A PARCEL OF LAND BEING A PORTION OF TRACT "B", ARBOR OAKS, AS RECORDED IN PLAT BOOK 122, PAGE 274, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTION 16, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, BEING MORE PARTICULARLY AS FOLLOWS:

BEGINNING AT THE AFOREMENTIONED POINT "A"; THENCE SOUTH 50°13'08" EAST, A DISTANCE OF 45.91 FEET; THENCE NORTH 89°57'41" EAST, A DISTANCE OF 652.84 FEET TO A POINT ON THE EAST LINE OF SAID TRACT "B"; THENCE SOUTH 00°12'51" EAST, ALONG SAID EAST LINE, A DISTANCE OF 20.00 FEET TO THE SOUTHEAST CORNER OF SAID TRACT "B" AND THE NORTH RIGHT-OF-WAY LINE OF WOODBERRY ROAD; THENCE, LEAVING SAID EAST LINE, SOUTH 89°57'41" WEST, ALONG SAID SOUTH LINE AND SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 690.88 FEET TO THE SOUTHWEST CORNER OF SAID TRACT "B"; THENCE, LEAVING SAID SOUTH LINE, NORTH 03°06'19" EAST, ALONG THE WESTERLY LINE OF SAID LANDS, A DISTANCE OF 49.47 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.329 ACRES (14,348 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-113T, DATED MAY 14, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC1-EXSURVEY", DATED 07/17/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-113T

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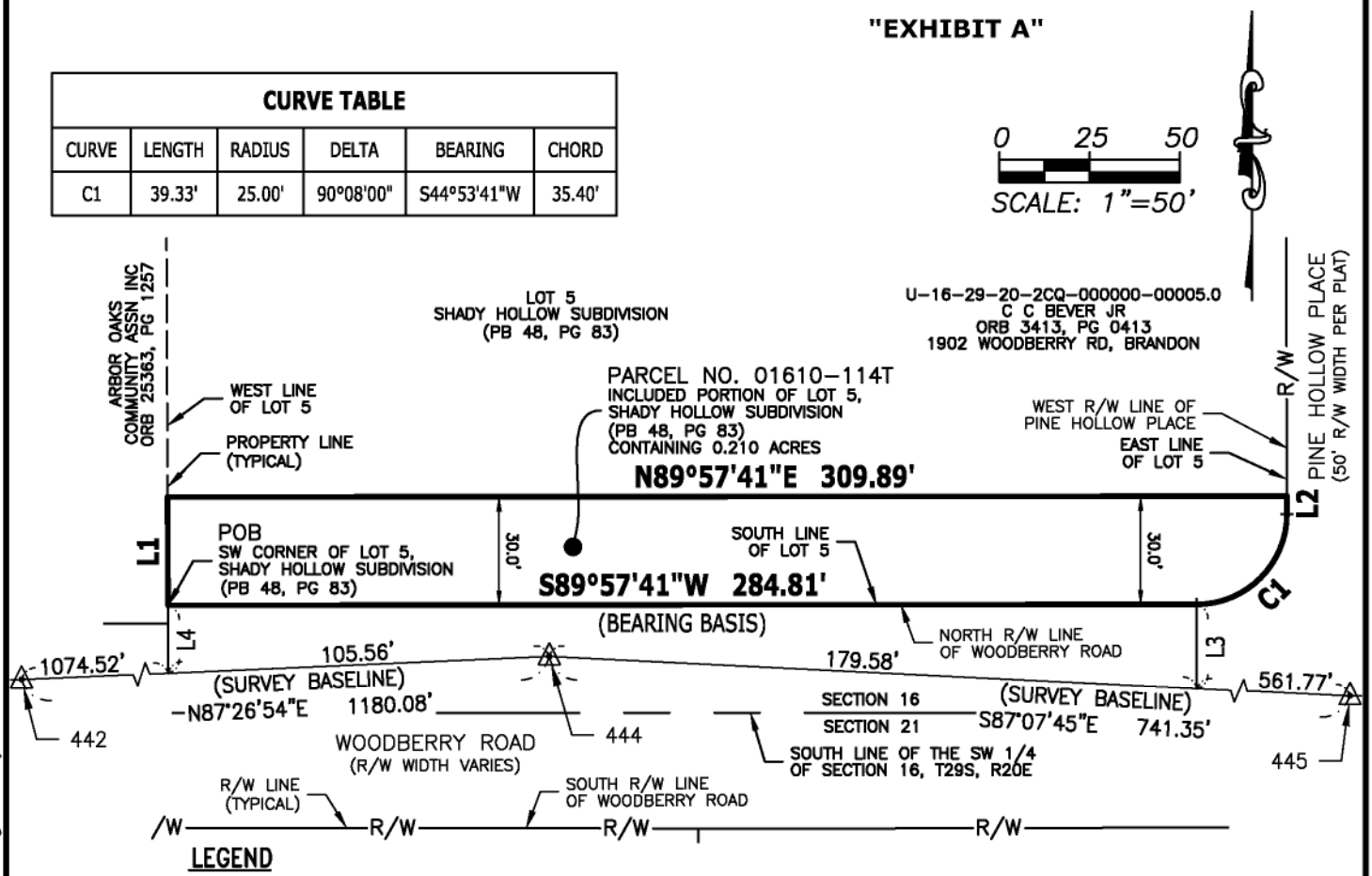
SECTION 16, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

"EXHIBIT A"

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	BEARING	CHORD
C1	39.33'	25.00'	90°08'00"	S44°53'41"W	35.40'



LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T30S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT-OF-WAY LINE	———R/W———
PROPERTY LINE	– – – – – –

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N00°12'51"W	30.00'
L2	S00°10'19"E	4.94'
L3	N00°10'19"W	23.37'
L4	N00°12'51"W	18.88'

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
442	1,315,463.46	553,054.79	58.96'	TRA IRS 1/2"
444	1,315,515.99	554,233.70	61.86'	TRA IRS 1/2"
445	1,315,478.86	554,974.13	56.01'	TRA IRS 1/2"

NOTE: SEE SHEETS 2 THROUGH 4 OF 5 FOR EXPANDED LEGEND
NOTE: SEE SHEETS 2 THROUGH 4 OF 5 FOR IMPROVEMENTS

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-114T

SCALE	DATE	JOB No.		
1"=50'	01/24/2025	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
FRV/LCC	RVD	16	29S	20E

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CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L. Kohler, State of Florida, Professional Surveyor and Mapper, License No. LS6201. This item has been electronically sign and sealed by Jeffrey L. Kohler, PSM, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

Jeffrey L Kohler
2025.02.03 14:16:00 -05'00'

JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

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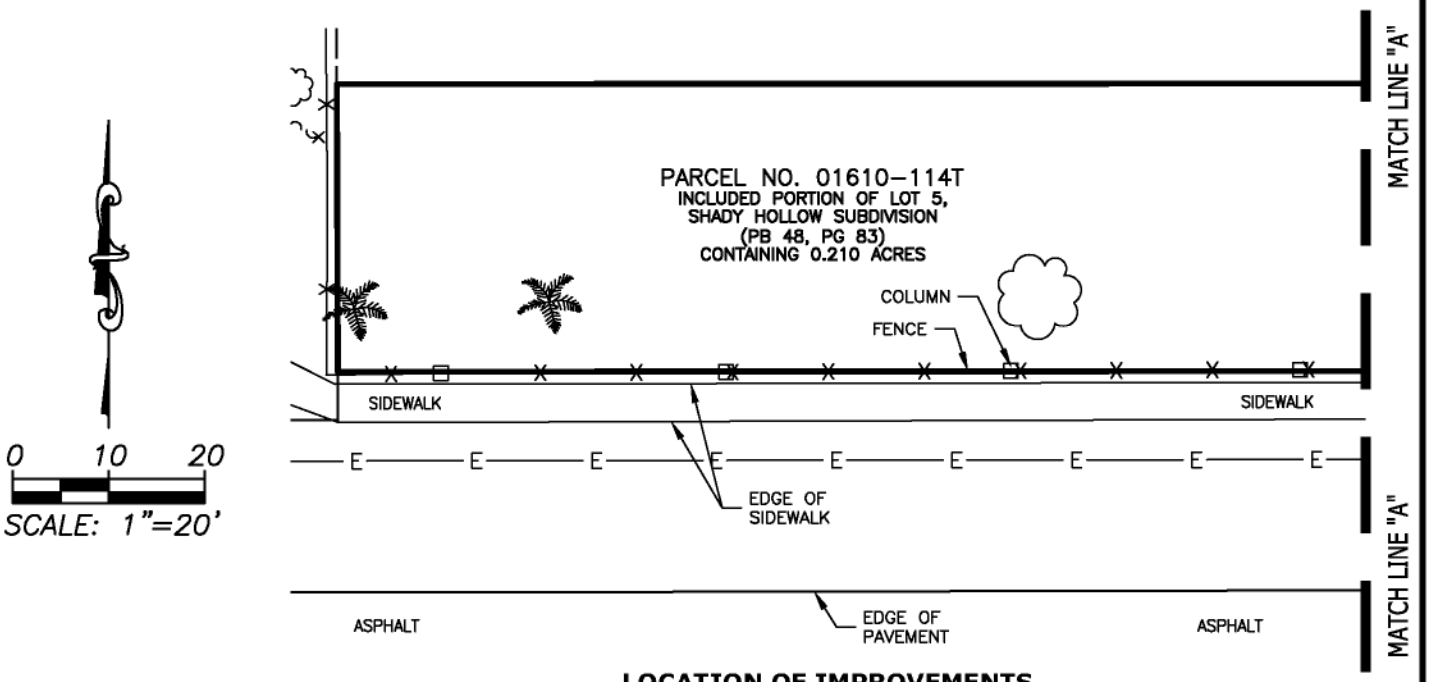

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE (FT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE) (CB)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (DS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE (PS)
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)

- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SIG)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)

- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-114T

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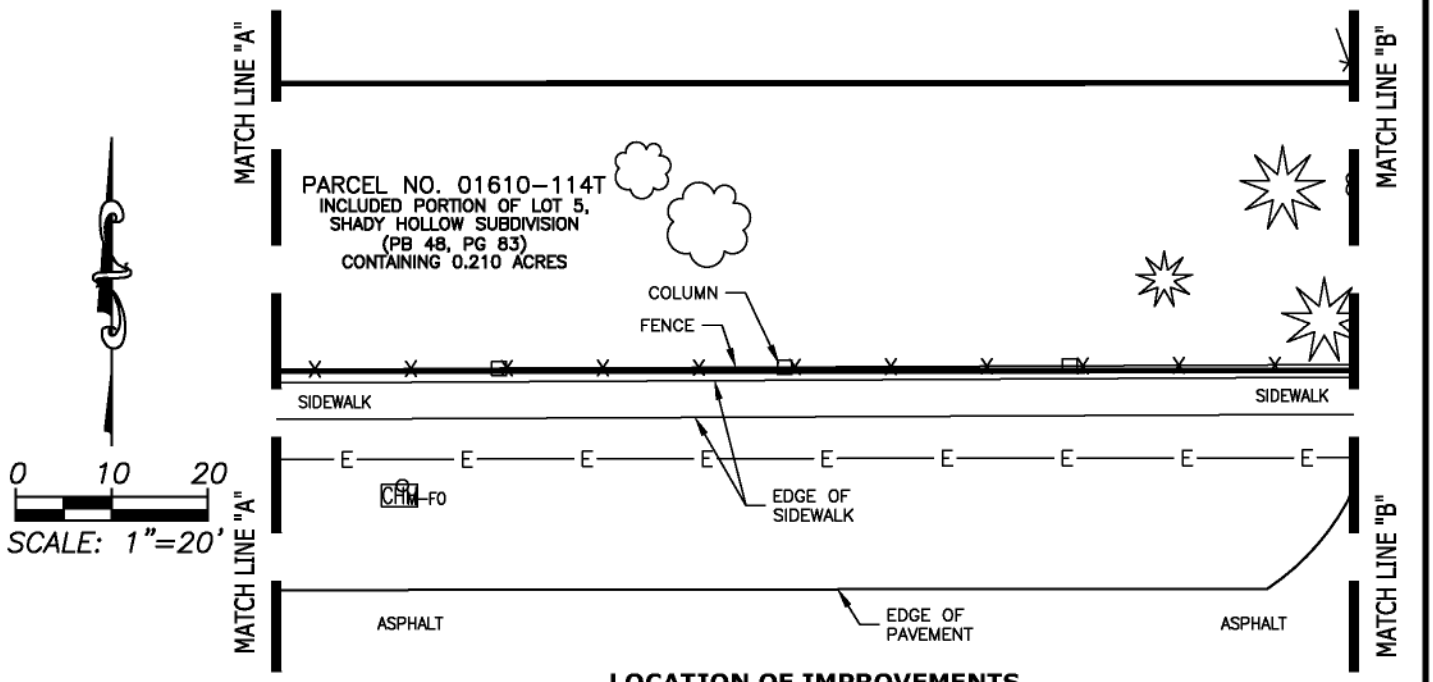

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
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- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE) (CB)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (DS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
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- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
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- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
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- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE (PS)
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
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- UNDERGROUND MARKER (M)
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- U/G MARKER GAS (M-G)
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- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

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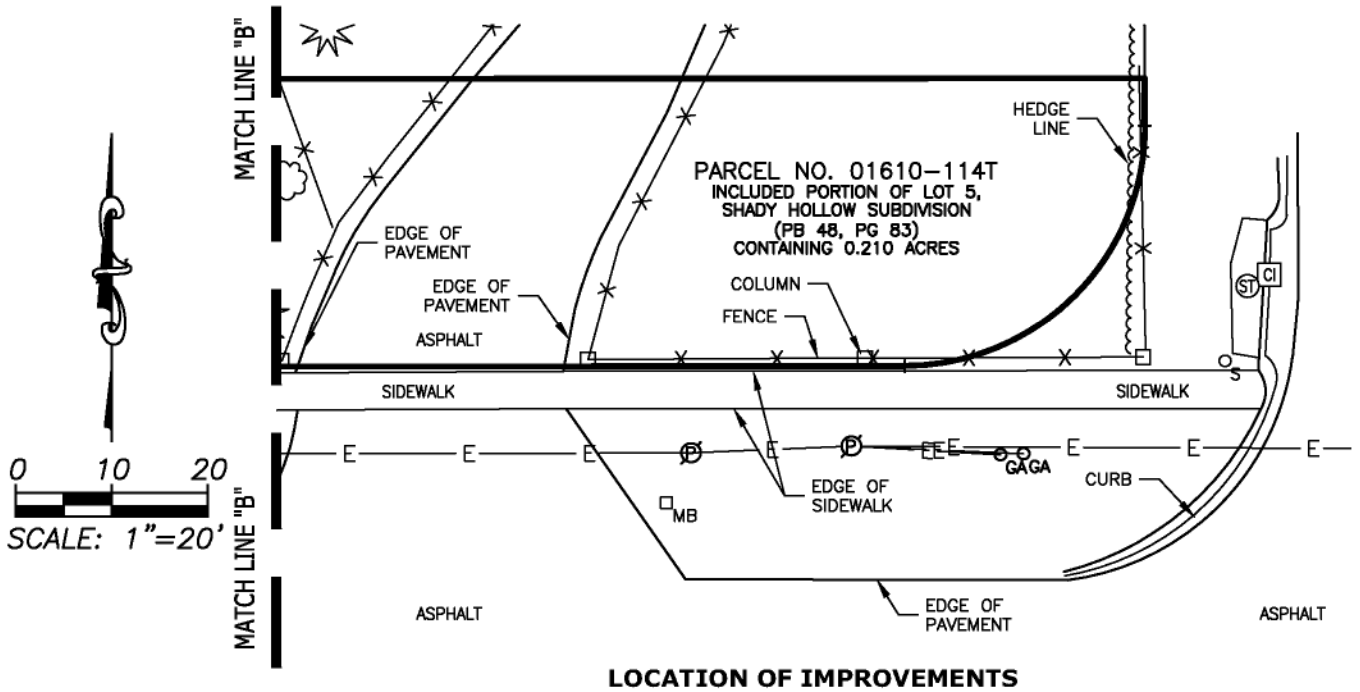

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LEGAL DESCRIPTION: (BY ARDURRA)

A PARCEL OF LAND BEING A PORTION OF LOT 5, SHADY HOLLOW SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 48, PAGE 83, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTION 16, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF LOT 5, SHADY HOLLOW SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 48, PAGE 83, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE NORTH 00°12'51" WEST, ALONG THE WEST LINE OF SAID LOT 5, A DISTANCE OF 30.00 FEET; THENCE, DEPARTING SAID WEST LINE, NORTH 89°57'41" EAST, A DISTANCE OF 309.89 FEET TO A POINT ON THE EAST LINE OF SAID LOT 5, ALSO BEING THE WEST RIGHT-OF-WAY LINE OF PINE HOLLOW PLACE; THENCE SOUTH 00°10'19" EAST, ALONG SAID EAST LINE OF LOT 5 AND SAID WEST RIGHT-OF-WAY LINE, A DISTANCE OF 4.94 FEET TO A POINT ON A CURVE TO THE RIGHT; THENCE SOUTHWESTERLY 39.33 FEET ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 90°08'00", AND A CHORD BEARING AND DISTANCE OF SOUTH 44°53'41" WEST 35.40 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT 5, ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF WOODBERRY ROAD; THENCE SOUTH 89°57'41" WEST, ALONG SAID SOUTH LINE OF LOT 5 AND SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 284.81 FEET TO SAID SOUTHWEST CORNER OF LOT 5 AND THE POINT OF BEGINNING.

CONTAINING 0.210 ACRES (9,162 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-114T, DATED APRIL 15, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC1-EXSURVEY", DATED 07/17/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

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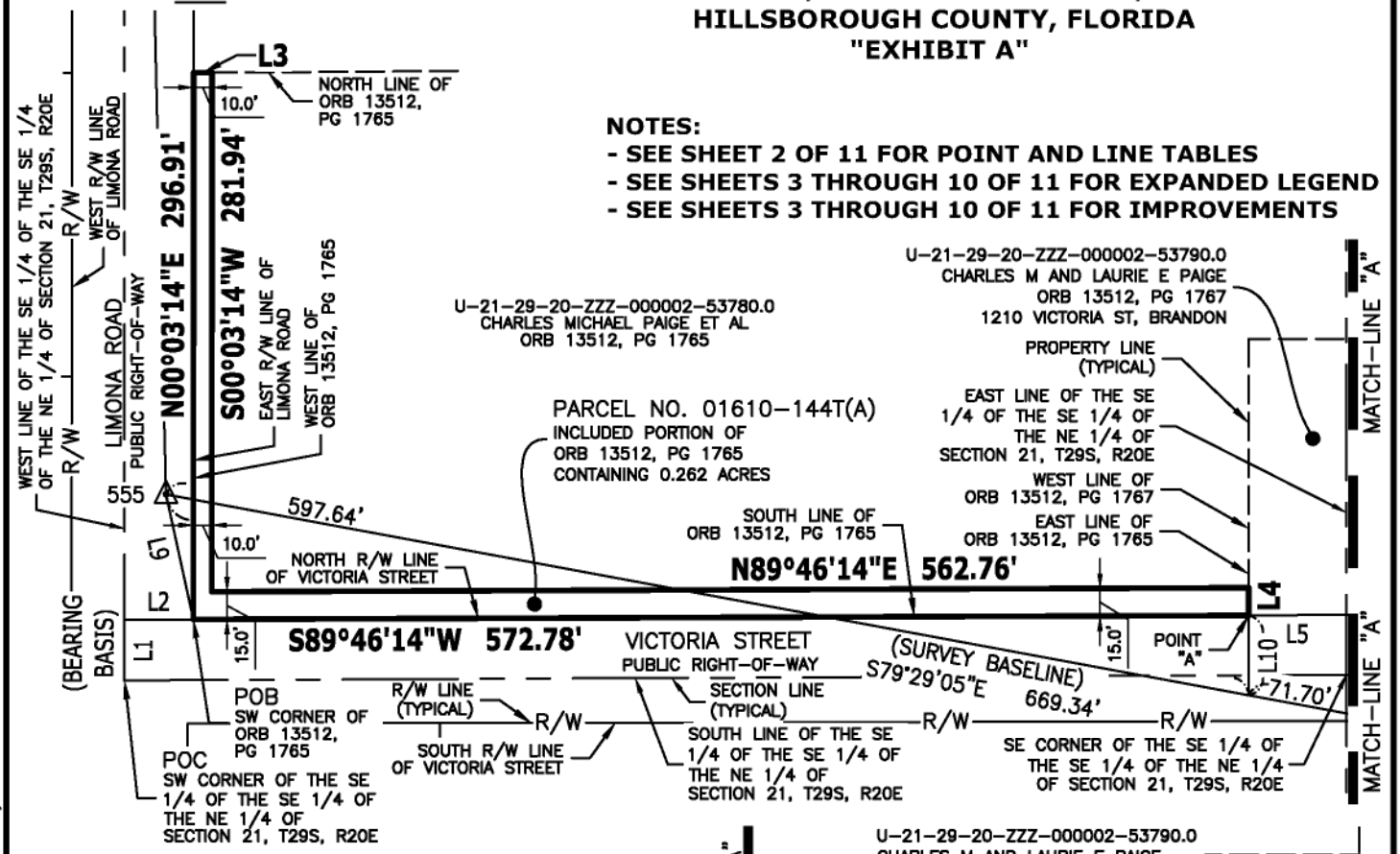
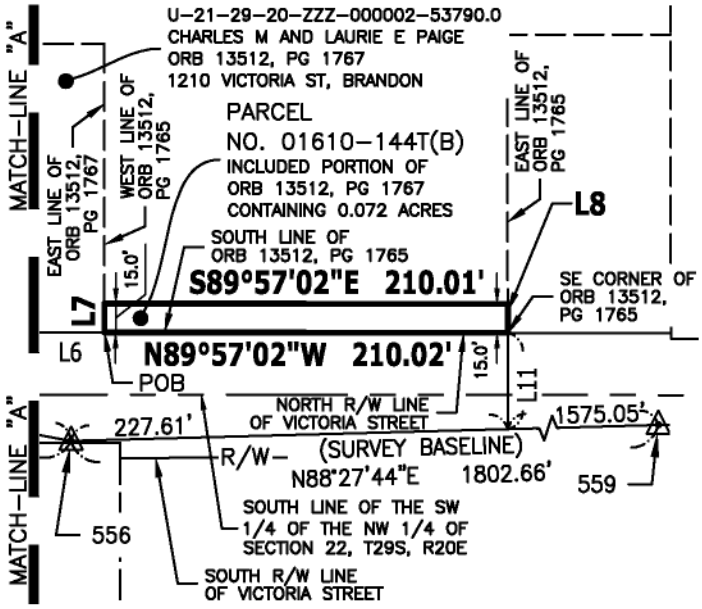
SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA
"EXHIBIT A"

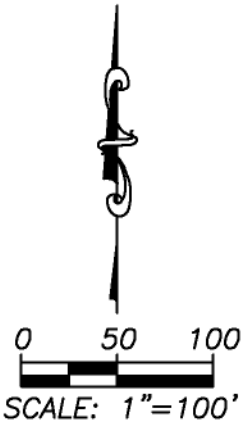
NOTES:
- SEE SHEET 2 OF 11 FOR POINT AND LINE TABLES
- SEE SHEETS 3 THROUGH 10 OF 11 FOR EXPANDED LEGEND
- SEE SHEETS 3 THROUGH 10 OF 11 FOR IMPROVEMENTS





LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT-OF-WAY LINE	———R/W———
PROPERTY LINE	– – – – – –



CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-144T

SCALE	DATE	JOB No.		
1"=100'	01/23/2025	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
FRV	RVD	21,22	29S	20E

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CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L Kohler
2025.02.14 07:53:00 -05'00'

JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

Jeffrey L. Kohler, State of Florida, Professional Surveyor and Mapper, License No. LS6201. This item has been electronically sign and sealed by Jeffrey L. Kohler, PSM, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

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SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA
"EXHIBIT A"

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N00°01'27"W	32.91'
L2	N89°46'14"E	37.24'
L3	N89°36'50"E	10.00'
L4	S00°01'44"E	15.00'
L5	N89°46'14"E	53.00'
L6	S89°57'02"E	35.00'
L7	N00°01'44"W	15.00'
L8	S00°05'23"E	15.00'
L9	N12°17'48"W	69.50'
L10	S00°01'44"E	43.46'
L11	S00°01'44"E	50.43'

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
555	1,312,962.99	557,985.17	47.94'	TRA IRS 1/2"
556	1,312,840.84	558,643.26	49.82'	TRA IRS 1/2"
559	1,312,889.21	560,445.28	46.14'	TRA IRS 1/2"

NOTES:
- SEE SHEET 1 OF 11 FOR SKETCH OF DESCRIPTION
- SEE SHEETS 3 THROUGH 10 OF 11 FOR EXPANDED LEGEND
- SEE SHEETS 3 THROUGH 10 OF 11 FOR IMPROVEMENTS

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-144T

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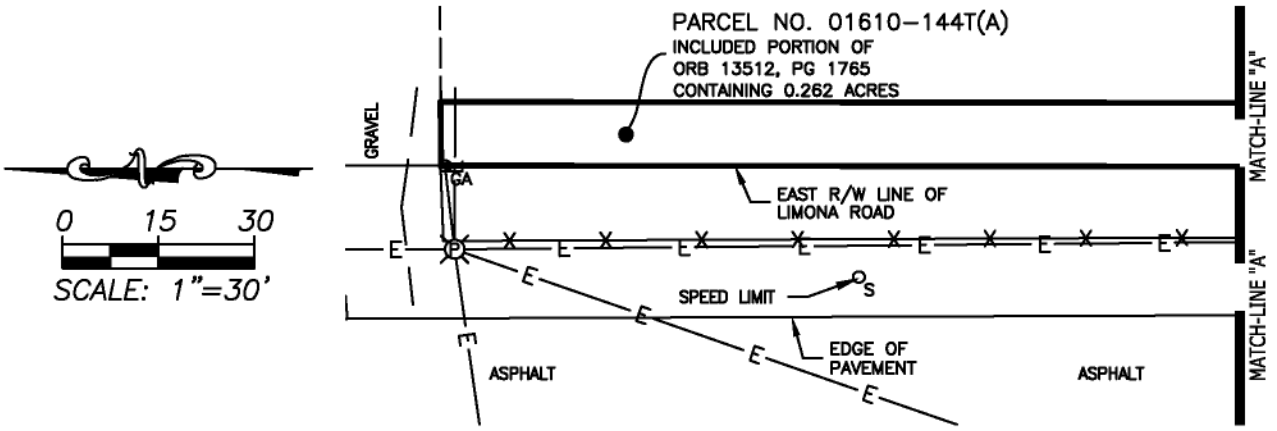

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SS)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

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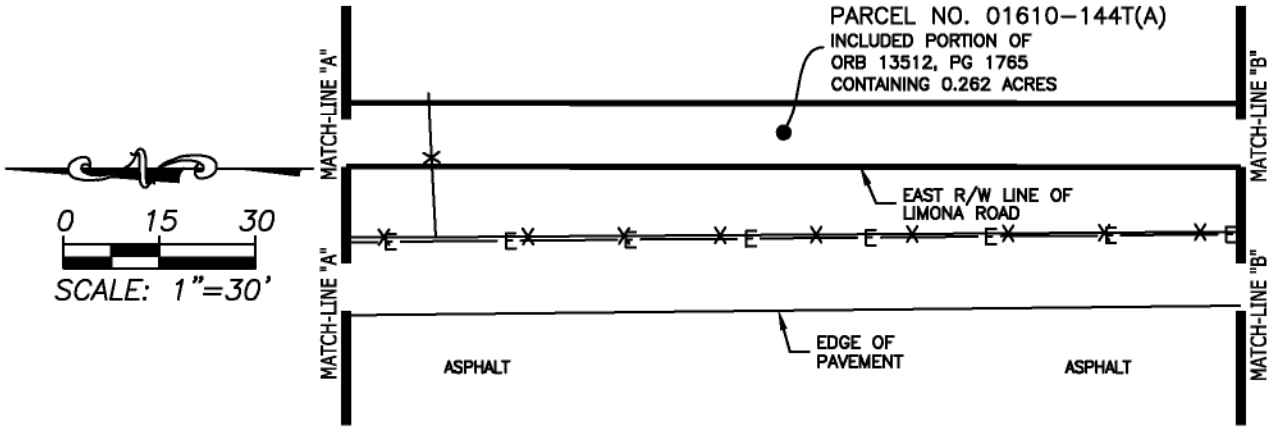

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

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- GUY POLE
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STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE)
- CISTERN
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE
- STORM SEWER STUB

ELECTRICAL
- CIRCUIT BREAKER PANEL
- HANDHOLE
- MANHOLE
- OUTLET
- PEDESTAL
- TRANSFORMER BOX
- METER
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT)
- INDICATOR VALVE POST
- WATER METER
- METER PIT
- WATER VALVE
- WATER LINE STUB
- WATER TOWER BASE
- SHUT OFF VALVE
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT
- PUMPSTATION MANHOLE
- SANITARY MANHOLE
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE

- RIGHT-OF-WAY LINE

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- POST (ROUND)
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- ROCK
- RAILROAD SIGNAL
- SIGN POST
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- TRAFFIC SIGNAL
- UNDERGROUND MARKER
- U/G MARKER CABLE
- U/G MARKER ELECTRIC
- U/G MARKER FIBER OPTIC
- U/G MARKER GAS
- U/G MARKER TELEPHONE

TELEPHONE
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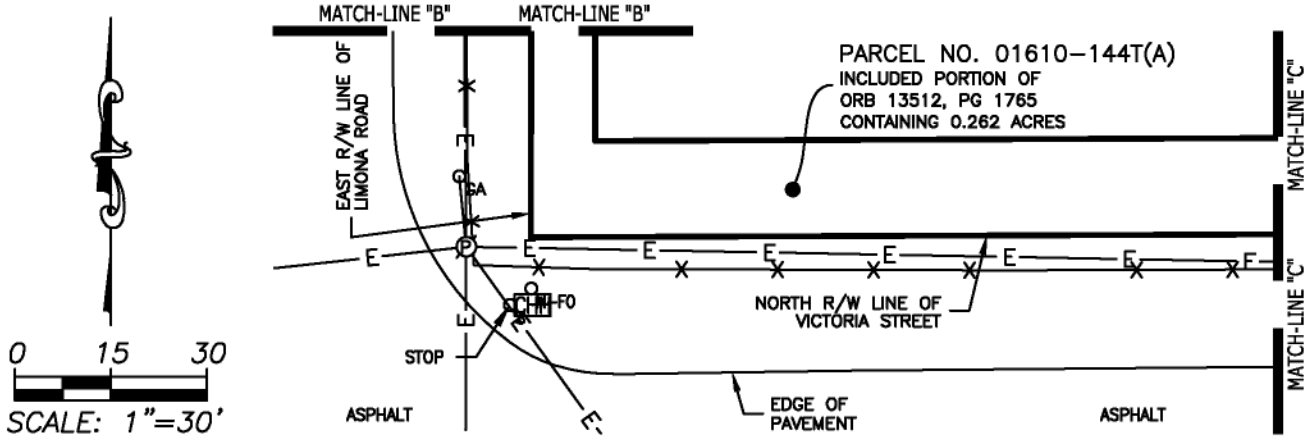

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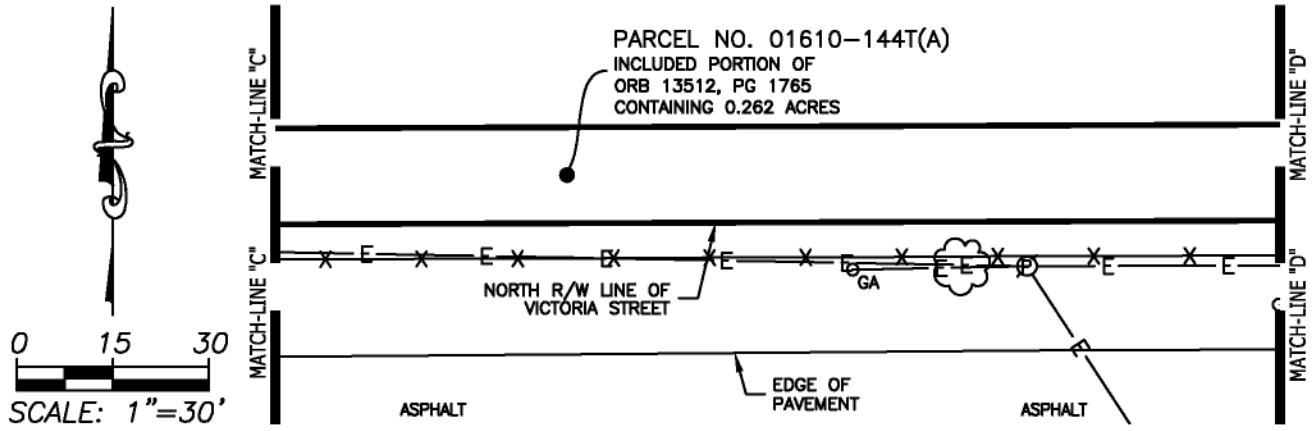

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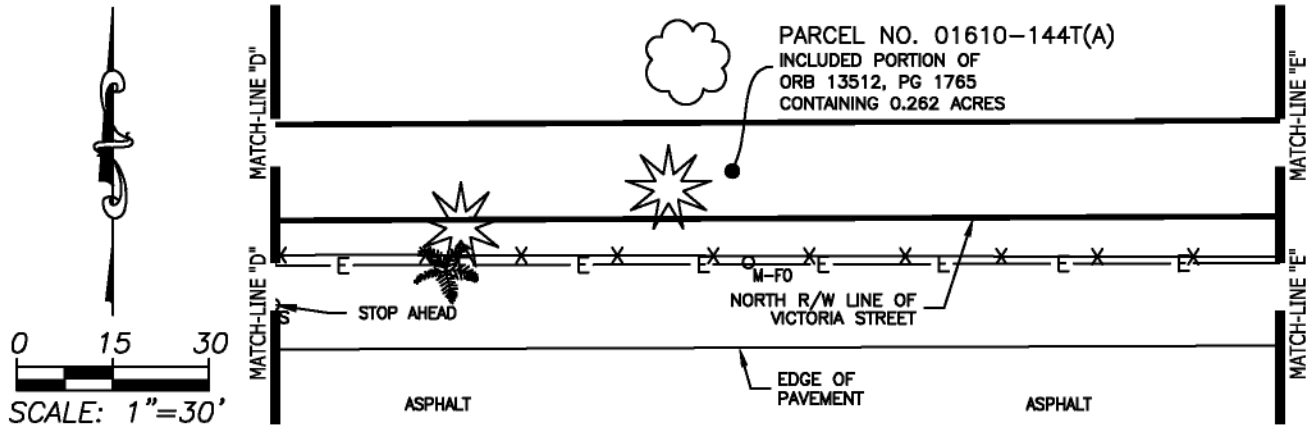

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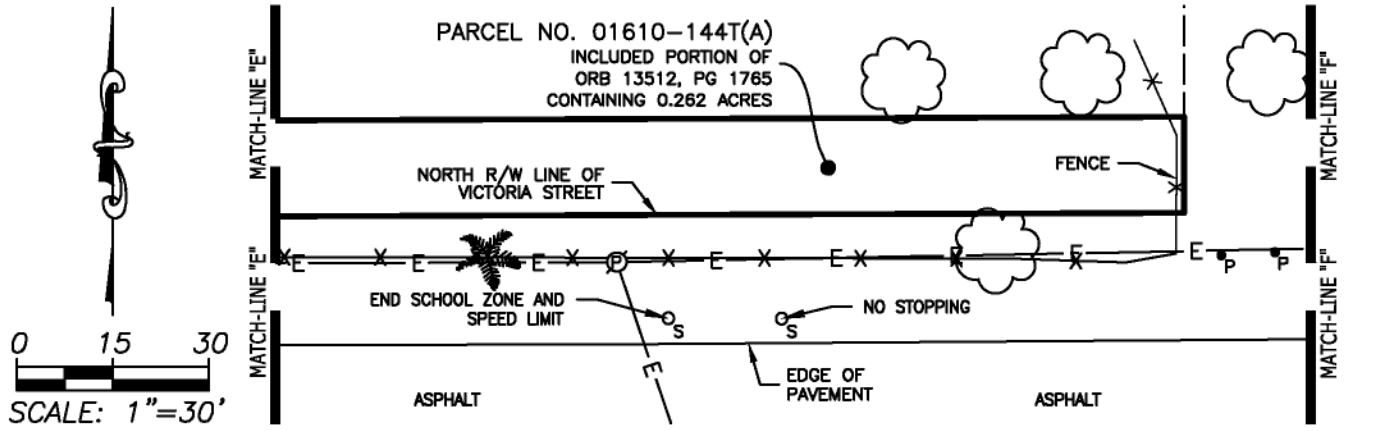

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- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SIG)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (CHH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-144T

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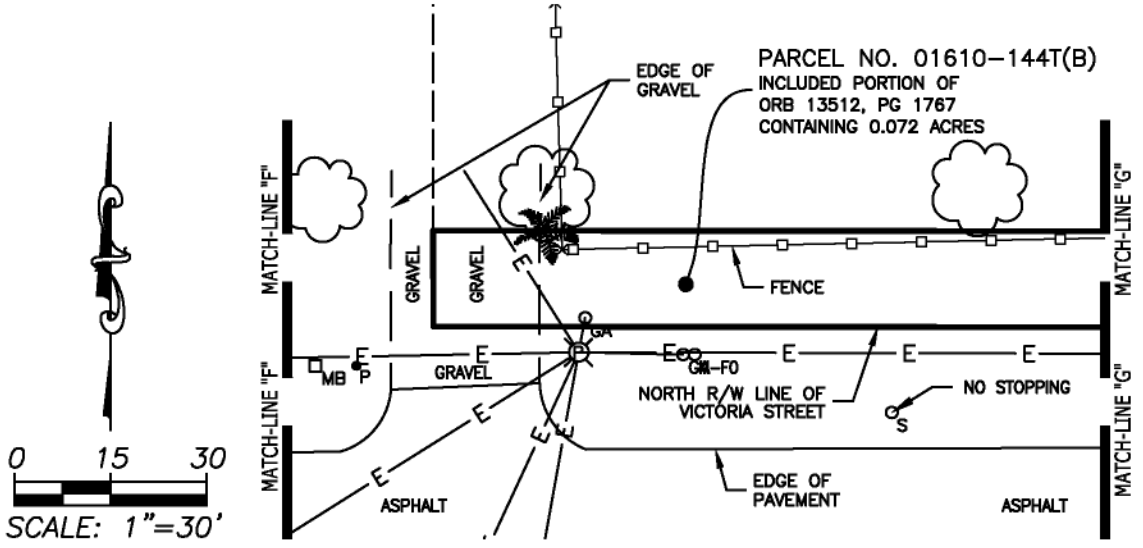
SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA
"EXHIBIT A"



LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
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- RIGHT-OF-WAY LINE —R/W—

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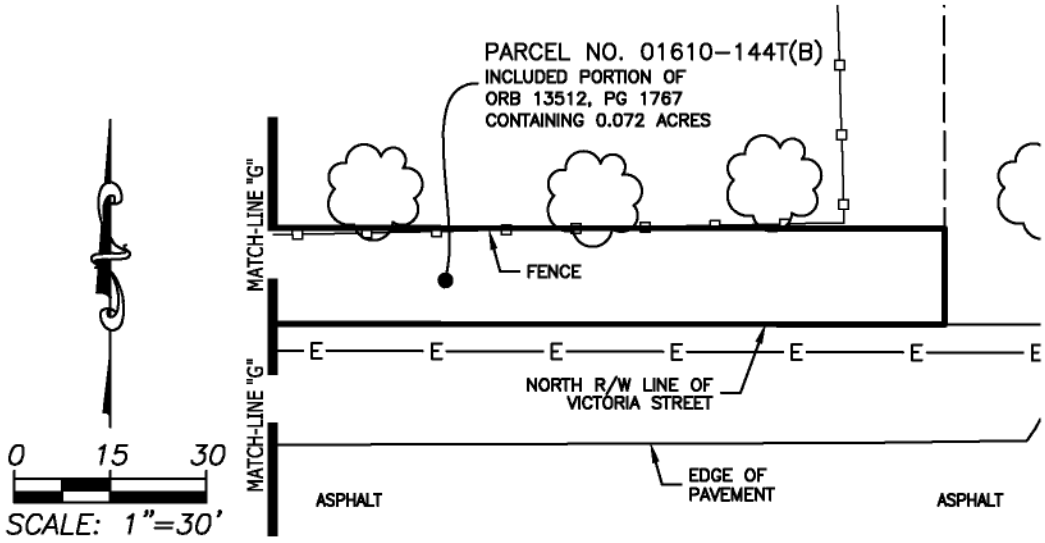

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LEGAL DESCRIPTION: (BY ARDURRA)

PARCEL NO. 01610-144T(A)

A PARCEL OF LAND BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1765, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA; THENCE NORTH 00°01'27" WEST, ALONG THE WEST LINE OF SAID SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 21, A DISTANCE OF 32.91 FEET; THENCE, LEAVING SAID WEST LINE, NORTH 89°46'14" EAST, A DISTANCE OF 37.24 FEET TO THE SOUTHWEST CORNER OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1765, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING; THENCE NORTH 00°03'14" EAST, ALONG THE WEST LINE OF SAID LANDS, ALSO BEING THE EAST RIGHT-OF-WAY LINE OF LIMONA ROAD, A DISTANCE OF 296.91 FEET TO THE NORTH LINE OF SAID LANDS; THENCE, DEPARTING SAID WEST LINE AND EAST RIGHT-OF-WAY LINE, NORTH 89°36'50" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 10.00 FEET; THENCE, LEAVING SAID NORTH LINE, SOUTH 00°03'14" WEST, A DISTANCE OF 281.94 FEET; THENCE NORTH 89°46'14" EAST, A DISTANCE OF 562.76 FEET TO A POINT ON THE EAST LINE OF SAID LANDS, ALSO BEING THE WEST LINE OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1767, OF SAID PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE SOUTH 00°01'44" EAST, ALONG SAID EAST LINE, A DISTANCE OF 15.00 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A" LYING ON THE SOUTH LINE OF SAID LANDS; THENCE SOUTH 89°46'14" WEST, ALONG SAID SOUTH LINE, ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET, A DISTANCE OF 572.78 FEET TO SAID SOUTHWEST CORNER OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1765, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING.

CONTAINING 0.262 ACRES (11,411 SQUARE FEET), MORE OR LESS.

TOGETHER WITH:

PARCEL NO. 01610-144T(B)

COMMENCE AT THE AFOREMENTIONED POINT "A"; THENCE NORTH 89°46'14" EAST, ALONG THE SOUTH LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1767, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, A DISTANCE OF 53.00 FEET; THENCE, CONTINUE ALONG THE SOUTH LINE OF SAID LANDS, SOUTH 89°57'02" EAST, A DISTANCE OF 35.00 FEET TO A POINT ON THE EAST LINE OF SAID LANDS, ALSO BEING THE WEST LINE OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1765, OF SAID PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING; THENCE NORTH 00°01'44" WEST, ALONG SAID WEST LINE, A DISTANCE OF 15.00 FEET; THENCE, DEPARTING SAID WEST LINE, SOUTH 89°57'02" EAST, A DISTANCE OF 210.01 FEET TO A POINT ON THE EAST LINE OF SAID LANDS; THENCE SOUTH 00°05'23" EAST, ALONG SAID EAST LINE, A DISTANCE OF 15.00 FEET TO THE SOUTHEAST CORNER OF SAID LANDS; THENCE, LEAVING SAID EAST LINE, NORTH 89°57'02" WEST, ALONG THE SOUTH LINE OF SAID LANDS, ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET, A DISTANCE OF 210.02 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.072 ACRES (3,150 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-144T, DATED JULY 8, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC1-EXSURVEY", DATED 07/16/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

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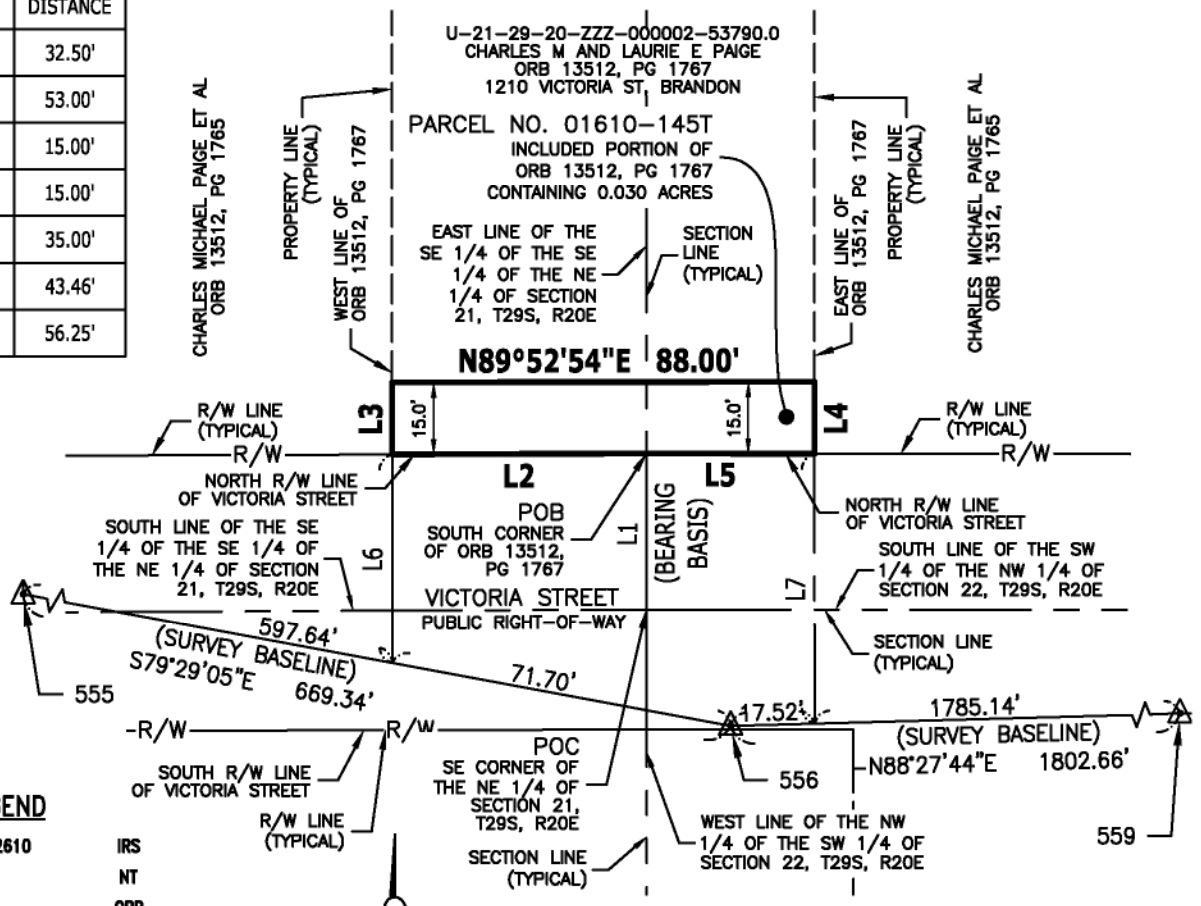
SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

"EXHIBIT A"

LINE TABLE PARCEL NO. 01610-145T		
LINE	BEARING	DISTANCE
L1	N00°01'44"W	32.50'
L2	S89°46'14"W	53.00'
L3	N00°01'44"W	15.00'
L4	S00°01'44"E	15.00'
L5	N89°57'02"W	35.00'
L6	S00°01'44"E	43.46'
L7	S00°01'44"E	56.25'



LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T29S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	—E—E—E—
RIGHT-OF-WAY LINE	———R/W———
PROPERTY LINE	- - - - - -

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
555	1,312,962.99	557,985.17	47.94'	TRA IRS 1/2"
556	1,312,840.84	558,643.26	49.82'	TRA IRS 1/2"
559	1,312,889.21	560,445.28	46.14'	TRA IRS 1/2"

NOTE: SEE SHEET 2 OF 3 FOR EXPANDED LEGEND
NOTE: SEE SHEET 2 OF 3 FOR IMPROVEMENTS

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SCALE	DATE	JOB No.		
1"=40'	12/30/2024	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
FRV/LCC	LCC	21,22	29S	20E

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CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L. Kohler, State of Florida, Professional Surveyor and Mapper, License No. LS6201. This item has been electronically sign and sealed by Jeffrey L. Kohler, PSM, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

Jeffrey L Kohler
2025.01.15 12:21:57
-05'00'

JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

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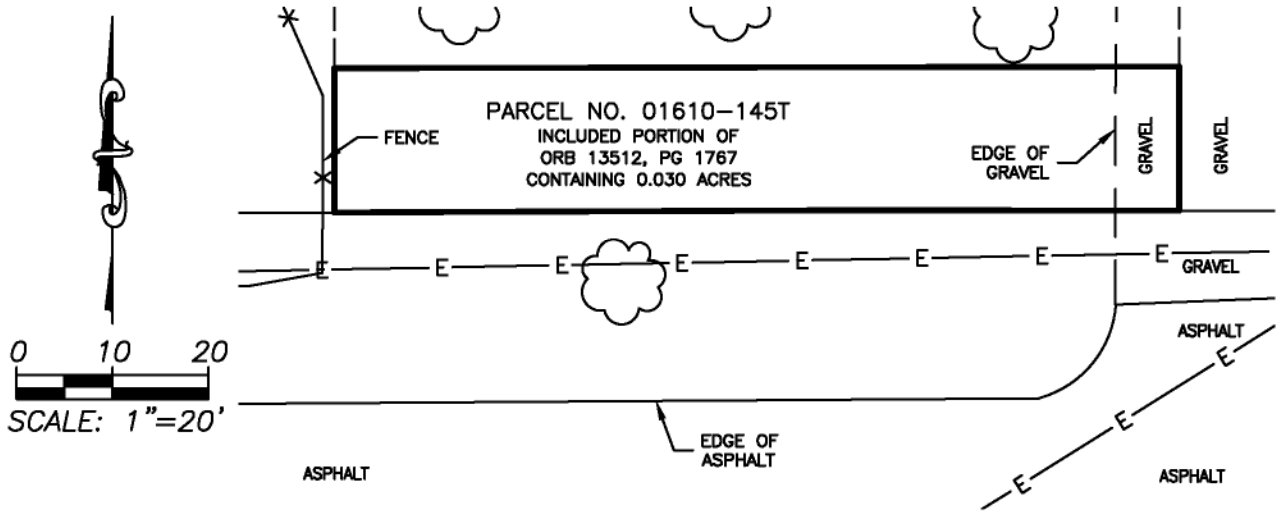

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LEGAL DESCRIPTION: (BY ARDURRA)

A PARCEL OF LAND BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1767, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTIONS 21 AND 22, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 29 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA; THENCE NORTH 00°01'44" WEST, ALONG THE EAST LINE OF SAID NORTHEAST 1/4 OF SAID SECTION 21, A DISTANCE OF 32.50 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET, ALSO BEING THE SOUTH CORNER OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1767, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING; THENCE SOUTH 89°46'14" WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET, A DISTANCE OF 53.00 FEET TO THE WEST LINE OF SAID LANDS; THENCE NORTH 00°01'44" WEST, ALONG SAID WEST LINE, A DISTANCE OF 15.00 FEET; THENCE, LEAVING SAID WEST LINE, NORTH 89°52'54" EAST, A DISTANCE OF 88.00 FEET TO THE EAST LINE OF SAID LANDS; THENCE SOUTH 00°01'44" EAST, ALONG SAID EAST LINE, A DISTANCE OF 15.00 FEET TO A POINT ON SAID NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET; THENCE NORTH 89°57'02" WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE OF VICTORIA STREET AND THE SOUTH LINE OF SAID LANDS, A DISTANCE OF 35.00 FEET TO THE SOUTH CORNER OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 13512, PAGE 1767, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING.

CONTAINING 0.030 ACRES (1,315 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-145T, DATED JULY 3, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC1-EXSURVEY", DATED 07/16/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-145T

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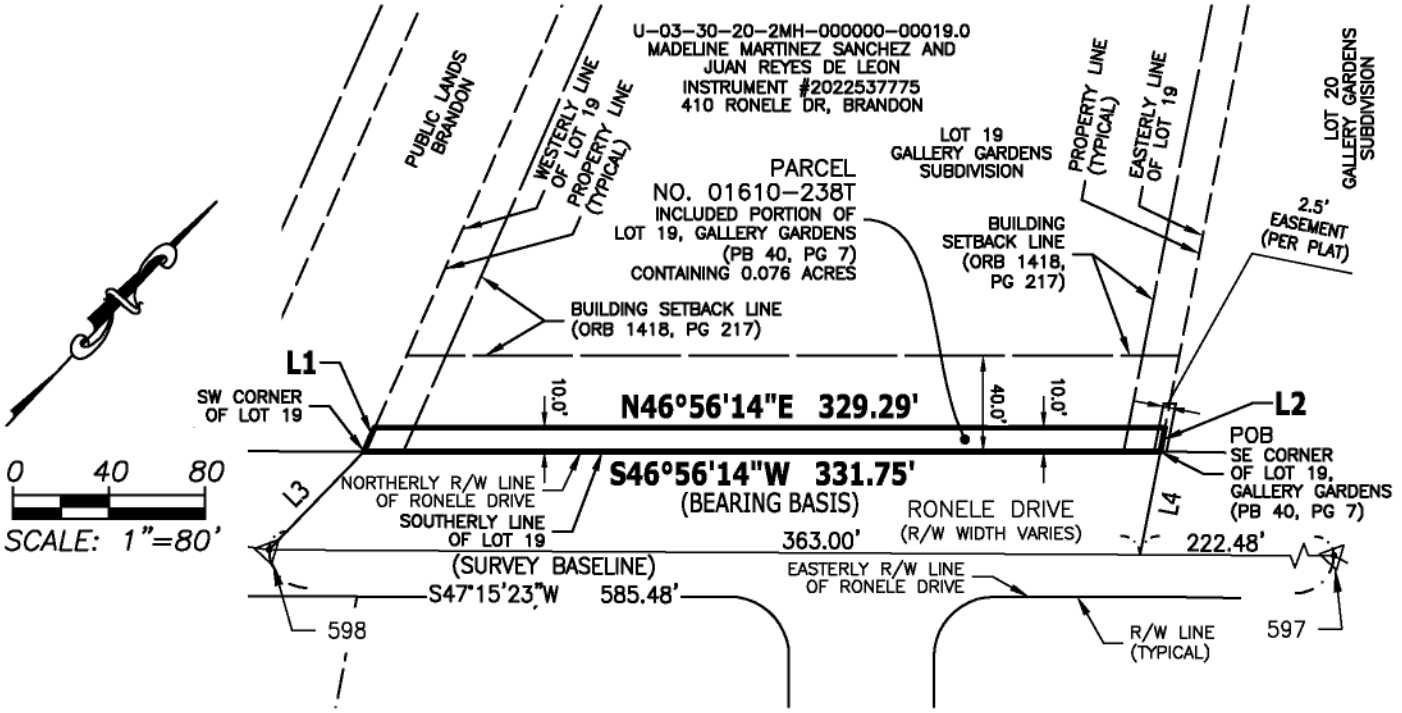
THIS IS NOT A SURVEY

SECTION 3, TOWNSHIP 30 SOUTH, RANGE 20 EAST
HILLSBOROUGH COUNTY, FLORIDA

"EXHIBIT A"



LEGEND

IRON ROD SET 1/2" - LB-2610	IRS
NAIL AND TAG - LB-2610	NT
OFFICIAL RECORDS BOOK	ORB
PLAT BOOK	PB
PAGE	PG
POINT OF BEGINNING	POB
POINT OF COMMENCEMENT	POC
RIGHT-OF-WAY	R/W
RANGE	R20E
TOWNSHIP	T30S
TRAVERSE POINT	TRA
CONTROL POINT	△
SECTION LINE	———
OVERHEAD ELECTRIC	——E——E——E——
RIGHT-OF-WAY LINE	———R/W———
PROPERTY LINE	- - - - - - -

LINE TABLE

LINE	BEARING	DISTANCE
L1	N19°11'00"W	10.94'
L2	S31°55'01"E	10.19'
L3	N01°00'58"E	56.98'
L4	N31°55'01"W	43.78'

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
598	1,296,167.08	561,853.82	29.33'	TRA NT
597	1,296,564.45	562,283.80	31.17'	TRA NT

NOTE: SEE SHEETS 2 THROUGH 5 OF 6 FOR EXPANDED LEGEND
NOTE: SEE SHEETS 2 THROUGH 5 OF 6 FOR IMPROVEMENTS

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-238T

SCALE	DATE	JOB No.		
1"=80'	01/23/2025	00235-2021-1484		
DRAWN	CHECKED	SECTION	TOWNSHIP	RANGE
LCC/FRV	RVD	3	30S	20E

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CERTIFIED AS TO SKETCH AND LEGAL DESCRIPTION
Sketch and Legal Description not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

Jeffrey L Kohler
2025.02.14 07:53:43
-05'00'

JEFFREY LAYNE KOHLER
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA # LS6201
CERTIFICATE OF AUTHORIZATION No. LB 2610

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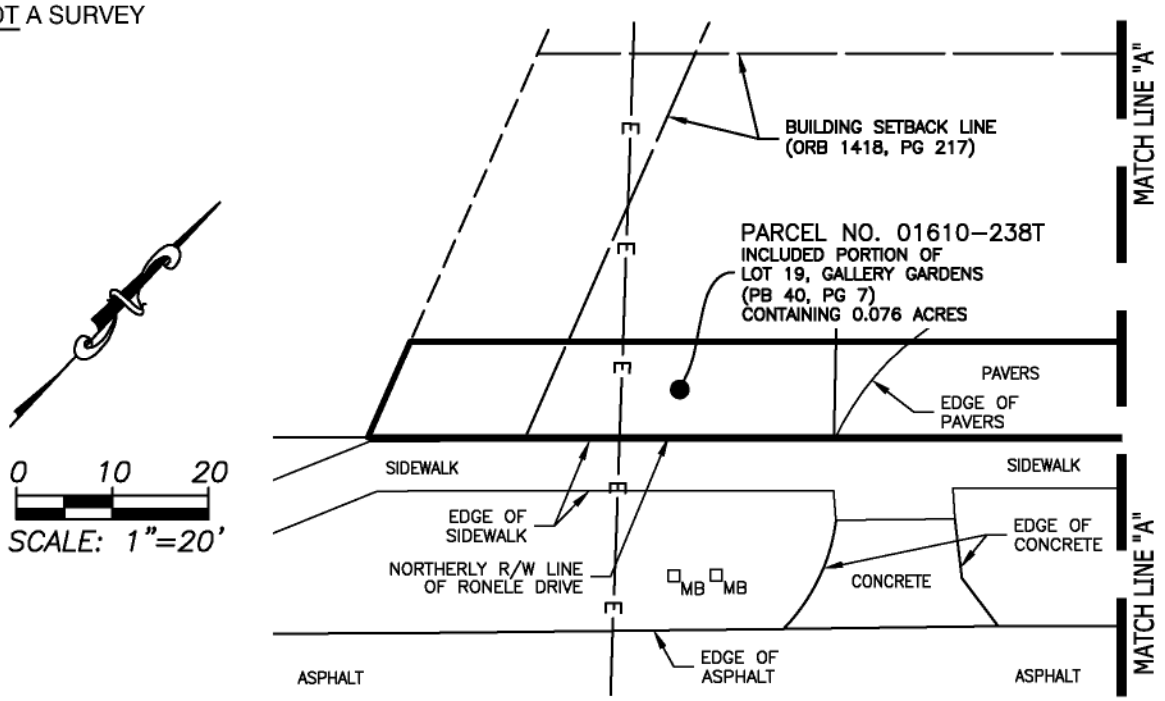

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE (PT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SS)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-238T

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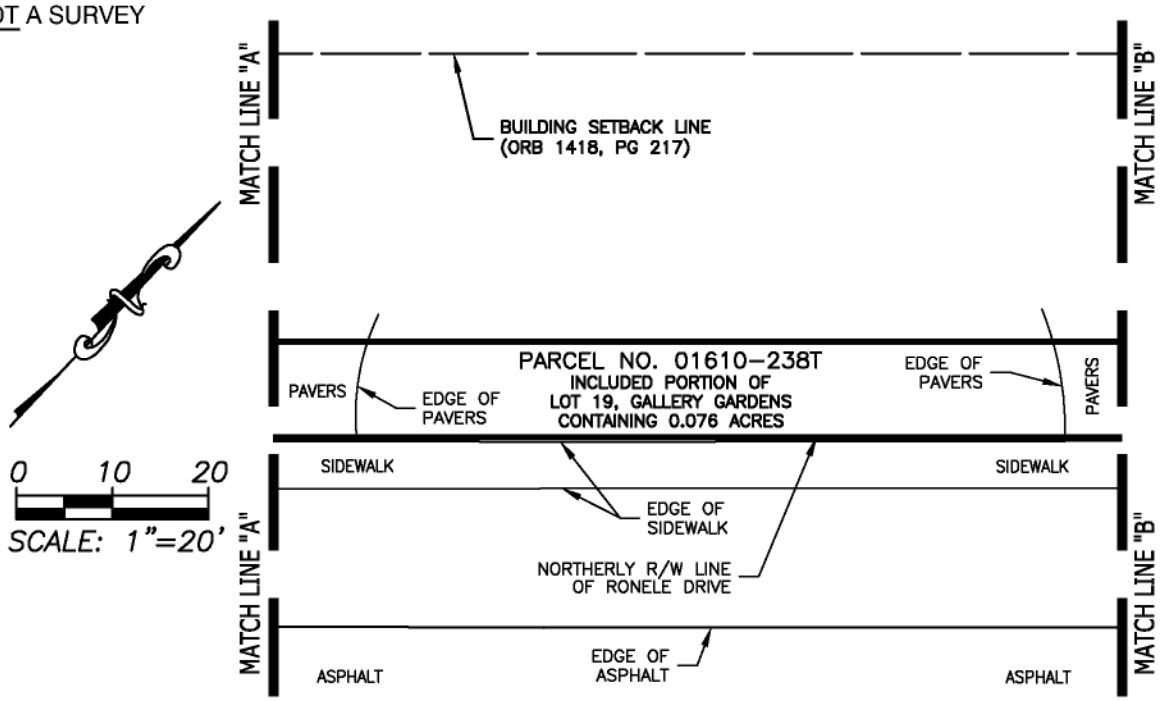

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
- TELE, CTV, PWR & LIGHT POLE (TCP)
- TELE, CTV, & POWER POLE (TCP)
- TELE, & CTV POLE
- TELE, CTV, & LIGHT POLE
- TELE,. & LIGHT POLE
- TELE, POWER, & LIGHT POLE
- MONO POLE (PT)
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE (ST)
- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
- MANHOLE (E)
- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)

- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
- MONITORING WELL
- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
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- TRAFFIC SIGNAL (SIG)
- UNDERGROUND MARKER (M)
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- U/G MARKER ELECTRIC (M-E)
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- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

TELEPHONE
- TELEPHONE POLE (T)
- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)

- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

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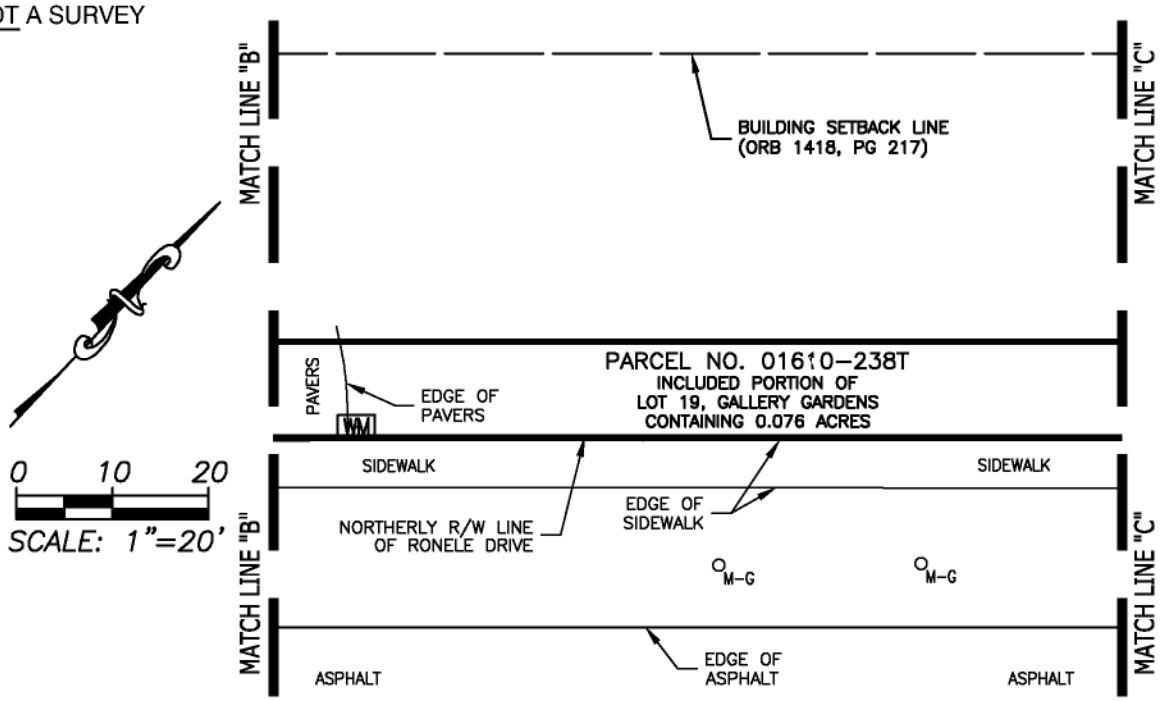

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR (DA)
- FLOOD LIGHT
- GUY WIRE ANCHOR (GA)
- GUY POLE (GP)
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
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- MONO POLE
- UTILITY POLE

STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE) (CB)
- CISTERN (CT)
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT (SDS)
- ROUND INLET
- SQUARE INLET
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- STORM SEWER STUB (STS)

ELECTRICAL
- CIRCUIT BREAKER PANEL (CBP)
- HANDHOLE (HH)
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- OUTLET (EO)
- PEDESTAL (PP)
- TRANSFORMER BOX (E)
- METER (EM)
- POWER POLE
- TRANSFORMER TOWER
- SECTION LINE
- OVERHEAD ELECTRIC —E—E—

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT) (D)
- INDICATOR VALVE POST
- WATER METER (WM)
- METER PIT (MP)
- WATER VALVE
- WATER LINE STUB (WLS)
- WATER TOWER BASE (WATER TOWER)
- SHUT OFF VALVE (WSO)
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE (REC)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT (CO)
- PUMPSTATION MANHOLE
- SANITARY MANHOLE (S)
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE (SV)
- RIGHT-OF-WAY LINE —R/W—

TOPOGRAPHIC FEATURES
- FLAG POLE (FP)
- MAIL BOX (MB)
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- POST (ROUND) (P)
- POST (SQUARE) (P)
- ROCK (ROCK)
- RAILROAD SIGNAL
- SIGN POST (S)
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX (JB)
- TRAFFIC SIGNAL (SIG)
- UNDERGROUND MARKER (M)
- U/G MARKER CABLE (M-C)
- U/G MARKER ELECTRIC (M-E)
- U/G MARKER FIBER OPTIC (M-FO)
- U/G MARKER GAS (M-G)
- U/G MARKER TELEPHONE (M-T)

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- TELEPHONE MANHOLE (T)
- TELEPHONE PEDESTAL (TP)
- COMMUNICATIONS HANDHOLE (HH)
- CABLE TV PEDESTAL (CT)
- PROPERTY LINE

CERTIFIED TO: TAMPA BAY WATER

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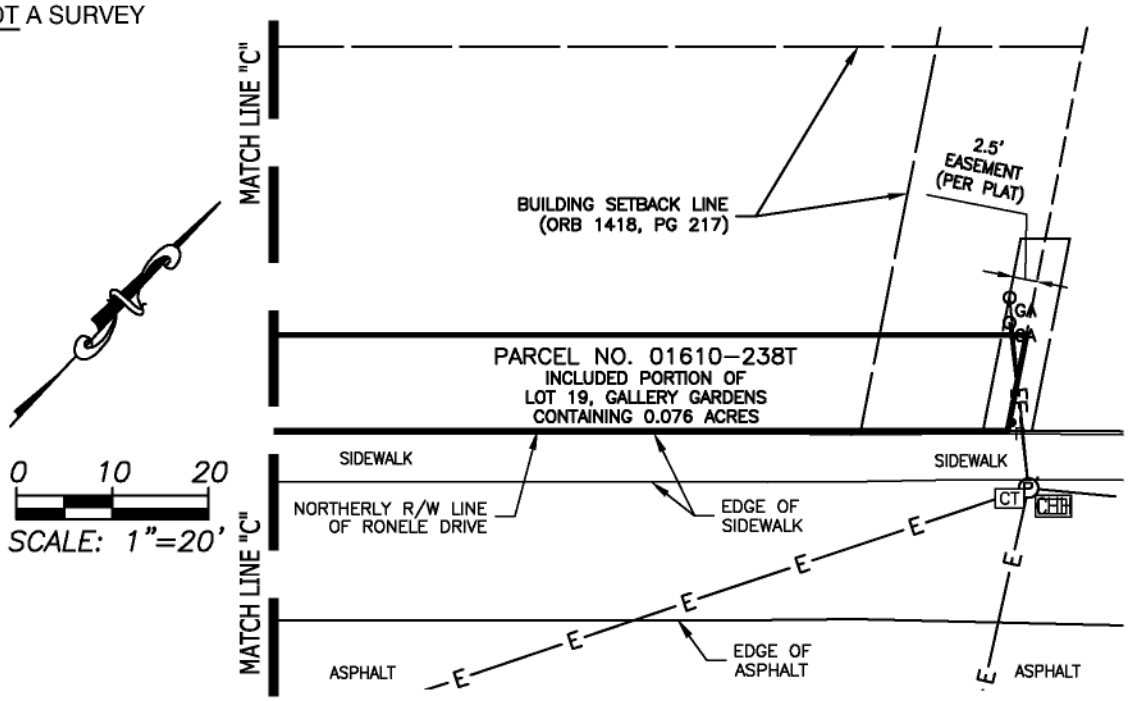

LOCATION OF IMPROVEMENTS

LEGEND

VEGETATION
- CONIFEROUS BUSH
- CONIFEROUS TREE
- DECIDUOUS BUSH
- DECIDUOUS TREE
- PALM TREE

OVERHEAD UTILITIES
- DEADMAN ANCHOR
- FLOOD LIGHT
- GUY WIRE ANCHOR
- GUY POLE
- LAMP POLE
- METAL LIGHT POLE
- ORNAMENTAL LIGHT
- POLE BOX
- POWER & LIGHT POLE
- POWER & TELEPHONE POLE
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STORM SEWER/DRAINAGE
- CATCH BASIN (ROUND GRATE)
- CATCH BASIN (SQUARE GRATE)
- CISTERN
- BOX CULVERT
- CULVERT HEADWALL
- CULVERT END SECTION
- DOWN SPOUT
- ROUND INLET
- SQUARE INLET
- STORM MANHOLE
- STORM SEWER STUB

ELECTRICAL
- CIRCUIT BREAKER PANEL
- HANDHOLE
- MANHOLE
- OUTLET
- PEDESTAL
- TRANSFORMER BOX
- METER
- POWER POLE
- TRANSFORMER TOWER

- SECTION LINE
- OVERHEAD ELECTRIC

WATER
- GATE VALVE & BOX
- GATE VALVE & WELL
- GATE VALVE & WELL (DETROIT)
- INDICATOR VALVE POST
- WATER METER
- METER PIT
- WATER VALVE
- WATER LINE STUB
- WATER TOWER BASE
- SHUT OFF VALVE
- BACKFLOW PREVENTER
- RECLAIM WATER GATE VALVE
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- FIRE HYDRANT

SANITARY SEWER
- CLEAN OUT
- PUMPSTATION MANHOLE
- SANITARY MANHOLE
- SEPTIC TANK
- SEWER VENT
- SEWER VALVE

- RIGHT-OF-WAY LINE

TOPOGRAPHIC FEATURES
- FLAG POLE
- MAIL BOX
- MONITORING WELL
- POST (ROUND)
- POST (SQUARE)
- ROCK
- RAILROAD SIGNAL
- SIGN POST
- SPRINKLER HEAD
- SPRINKLER JUNCTION BOX
- TRAFFIC SIGNAL
- UNDERGROUND MARKER
- U/G MARKER CABLE
- U/G MARKER ELECTRIC
- U/G MARKER FIBER OPTIC
- U/G MARKER GAS
- U/G MARKER TELEPHONE

TELEPHONE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- COMMUNICATIONS HANDHOLE
- CABLE TV PEDESTAL

- PROPERTY LINE

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LEGAL DESCRIPTION: (BY ARDURRA)

A PARCEL OF LAND BEING A PORTION OF LOT 19, GALLERY GARDENS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 40, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, LYING IN SECTION 3, TOWNSHIP 30 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF LOT 19, GALLERY GARDENS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 40, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE SOUTH 46°56'14" WEST, ALONG THE SOUTHERLY LINE OF SAID LOT 19, ALSO BEING THE NORTHERLY LINE OF RONELE DRIVE, A DISTANCE OF 331.75 FEET TO THE SOUTHWEST CORNER OF SAID LOT 19; THENCE, DEPARTING SAID SOUTHERLY LINE OF LOT 19 AND SAID NORTHERLY RIGHT-OF-WAY LINE, NORTH 19°11'00" WEST, ALONG THE WESTERLY LINE OF SAID LOT 19, A DISTANCE OF 10.94 FEET; THENCE, LEAVING SAID WESTERLY LINE OF LOT 19, NORTH 46°56'14" EAST, A DISTANCE OF 329.29 FEET TO A POINT ON THE EASTERLY LINE OF SAID LOT 19; THENCE SOUTH 31°55'01" EAST, ALONG SAID EASTERLY LINE OF LOT 19, A DISTANCE OF 10.19 FEET TO SAID SOUTHEAST CORNER OF LOT 19, GALLERY GARDENS, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 40, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA, AND THE POINT OF BEGINNING.

CONTAINING 0.076 ACRES (3,305 SQUARE FEET), MORE OR LESS.

SURVEYOR'S NOTES:

1. THIS SKETCH AND DESCRIPTION WAS PREPARED WITH THE BENEFIT OF A PROPERTY INFORMATION REPORT PREPARED BY AMERICAN GOVERNMENT SERVICES CORPORATION, AGSC FILE NO. 32358-238T, DATED MAY 1, 2024.
2. UNLESS IT BEARS THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
3. THIS IS A SKETCH AND LEGAL DESCRIPTION ONLY, NOT A FIELD SURVEY.
4. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NAD 83 (2011) AND WERE DERIVED BY REDUNDANT GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING A VIRTUAL REFERENCE STATION REAL TIME NETWORK (RTN) SOLUTION, AND THE PRODUCT OF REDUNDANT OBSERVATION SESSIONS CONSISTING OF AT LEAST 60 EPOCHS EACH.
5. THE SUBJECT EASEMENT'S POSITIONAL RELATIONSHIP TO THE SURVEY BASELINE HAS BEEN VERIFIED BY FIELD SURVEY AND THE TIES BETWEEN THE EASEMENT AND BASELINE ARE AS SHOWN HEREON.
6. IMPROVEMENTS SHOWN HEREON HAVE BEEN FIELD VERIFIED WITH THAT CERTAIN "VSP-BASE-ARD-SEC3-EXSURVEY", DATED 07/12/2024 AS PREPARED BY ARDURRA GROUP, INC.
7. DISTANCES SHOWN HEREON ARE IN U.S. FEET.

CERTIFIED TO: TAMPA BAY WATER

TEMPORARY CONSTRUCTION EASEMENT PARCEL 01610-238T

ARDURRA
COLLABORATE. INNOVATE. CREATE.

4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone: (813) 880-8881
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Q:\SURVEY\00235\2021\1484\Production\Base\ADDITIONAL TEMPORARY EASEMENTS\TEP-238T REV1.dwg, January 23, 2025 10:45 AM, ARDURRA GROUP, Inc.

Composite Exhibit "B"

Permanent Utility Easement

The following permanent utility easement rights are to be acquired by Tampa Bay Water for the South Hillsborough Pipeline Project (the "Project"), subject to the listed limitations:

1. A non-exclusive, permanent utility easement, over, under, and across the properties listed and described in **Composite Exhibit A** as Permanent Utility Easements, located in Hillsborough County, Florida (hereinafter the "Easement Area").

2. The right, privilege, and authority within the Easement Area to perform such work as may be necessary within the Easement Area in order to substantially conform the Easement Area to the design specifications set forth in the Project construction plans. Such work may include, but not be limited to, the right, privilege, and authority within the Easement Area to construct, install, operate, replace, repair, remove, extend, inspect, patrol, test, sod, upgrade, modify and maintain underground water transmission pipeline facilities, including related above and below ground electrical, communications and data facilities, fixtures and/or associated appurtenances thereto (the "Utility").

3. Tampa Bay Water has the right to excavate and/or fill the Easement Area as needed to construct the Utility. Tampa Bay Water has the right and authority to remove and dispose of dirt, rocks and vegetation within the Easement Area. Tampa Bay Water further has the right to remove fences, bushes, trees, undergrowth, structures and any other obstructions or physical objects which might interfere with the location, construction, operation, maintenance, repair, upgrade and replacement of the Utility.

4. Tampa Bay Water may install temporary fencing or barricades in the Easement Area when deemed necessary or convenient to Tampa Bay Water's construction, operation, upgrade, replacement, repair, or maintenance activities.

5. Upon completion of construction, Tampa Bay Water shall stabilize the Easement Area with seed, sod, or other ground cover so as to prevent erosion (where appropriate), will restore pre-existing landscaping (but not trees) and irrigation, will restore pre-existing fencing, and will restore any pre-existing paved surface to a state that is as good or better than its pre-construction condition.

6. Upon the conclusion of any construction activities within of the Easement Area, Tampa Bay Water shall:

    a. Remove all stockpiled materials associated with the construction activities.

    b. Restore any disturbed area to a condition equal to or better than its former condition, subject to the restrictions herein.

    c. Repair or replace, as it deems appropriate, any improvements within the Easement Area which were disturbed or damaged by Tampa Bay Water's use of the Easement Area; provided, Tampa Bay Water shall only be required to repair or replace improvements within the Easement Area which constitute Consistent Uses as defined herein.

d. Repair or replace, as it deems appropriate, any landscaping (except trees) within the Easement Area which has been disturbed or damaged by Tampa Bay Water's use of the Easement Area, but only to the extent that plants of similar species and size are readily available in the local market at reasonable cost.

7. Tampa Bay Water's Easement Rights shall include the right to sod, stabilize, modify and maintain the surface grade of the Easement Area. Tampa Bay Water's Easement Rights shall also include the right to install, inspect, maintain, and repair any utility placed within the Easement Area as well as the right to clear the Easement Area of trees, roots, undergrowth, and other physical objects or obstructions which may, in Tampa Bay Water's sole discretion, endanger or interfere with the safe and efficient installation, operation, maintenance or reconstruction of the Utility.

8. Tampa Bay Water shall be entitled to assign the easement.

9. Title to the Utility improvements constructed by Tampa Bay Water within the Easement Area will remain in Tampa Bay Water's name, its successors or assigns.

10. Tampa Bay Water shall have the right, but not the obligation, from time to time, to re-clear the Easement Area by cutting and removing therefrom, trees, brush and other obstructions that may, in the reasonable judgment of Tampa Bay Water, injure, endanger or interfere with the use of the Easement Area. Periodic maintenance of the Utility will be on an as needed basis, as determined by Tampa Bay Water. Tampa Bay Water shall have the right, but not the obligation, to otherwise maintain the Easement Area.

11. Tampa Bay Water, its consultants, contractors, agents and assigns shall have the right of ingress to and egress from the Easement Area by means of any adjacent public or private roadways, easements or rights-of-way owned or held or lawfully available to Tampa Bay Water its consultants, contractors, agents or assigns, including any other property over which Tampa Bay Water has access rights.

12. Consistent Uses. The property owner may utilize the Easement Area for all lawful purposes provided the property owner does not interfere with or unreasonably burden Tampa Bay Water's easement rights ("Consistent Uses"). Consistent Uses include, but shall not be limited to, the following:

    a. Pasturing and crop cultivation.

    b. Fences. Fencing inside of the Easement Area is allowed but is subject to Tampa Bay Water approval to ensure the safety of the Utility. Tampa Bay Water's approval shall not be unreasonably withheld, conditioned or delayed. However, fences shall not interfere with the use of the Easement Area so any fence within the boundaries of the Easement Area may be required to provide adequate gates (the size and location of which will be in the sole discretion of Tampa Bay Water, the cost of which shall be the responsibility of the property owner) to allow for vehicular and pedestrian ingress and egress by Tampa Bay Water and its designees.

    c. Landscaping. The Easement Area may be used for vegetation, green space, small gardens, ground cover, sod, landscaping with shallow roots and shallow irrigation (less than 18 inches in depth).

    d. Public Utilities. Placement of other utility facilities (limited to power lines,

telephone lines, cable T.V. lines, fiber optic lines, water lines, sewer lines, or stormwater lines) which intersect the Easement Area or the granting of easements for such utility facilities, provided the integrity and operation of the Utility and the exercise of Tampa Bay Water's rights in and to the Easement Area are not adversely affected. Such other utility facilities must be designed, permitted, constructed, operated, and maintained in accordance with applicable federal, state, and local laws, regulations, and safety codes. At least ninety (90) days prior to any such proposed use of the Easement Area, the property owner shall provide notice of the proposed use and associated construction plans, if any exist, to Tampa Bay Water. Junction/pull boxes, underground utility boxes and conduit duct banks are not allowed within the Easement Area.

e. Vehicular and pedestrian access across the Easement Area.

f. Placement of paved areas, unpaved areas, driveways, and roads for ingress and egress, which intersect the Easement Area ("Perpendicular Crossings"), provided the integrity and operation of the Utility and the exercise of Tampa Bay Water's rights in and to the Easement Area are not adversely affected. If the property owner constructs a curb or any other similar structure across the Easement Area, the property owner shall place a curb cut within the Easement Area so that Tampa Bay Water has vehicular access for the full length of the easement. The property owner shall consult with and receive written approval from Tampa Bay Water prior to constructing any Perpendicular Crossings over the Easement Area, the approval of which will not be unreasonably withheld.

g. Placement of paved areas, unpaved areas, driveways, and roads for ingress and egress, which overlap the Easement Area ("Parallel Crossings"), provided the nearest edge of the parallel pavement is at least twenty (20) feet from the nearest edge of the Utility. The rights established by this paragraph shall in no way extend beyond the boundary of the Easement Area. The property owner shall consult with and receive written approval from Tampa Bay Water prior to constructing any Parallel Crossings over the Easement Area, the approval of which will not be unreasonably withheld.

h. Parking Areas. Paved parking areas over the Easement Area are allowed, provided the integrity and operation of the Utility and the exercise of Tampa Bay Water's rights in and to the Easement Area are not adversely affected. The property owner shall consult with and receive written approval from Tampa Bay Water prior to constructing any paved parking areas over the Easement Area, the approval of which will not be unreasonably withheld.

Activities within the Easement Area which are not Consistent Uses may be removed by Tampa Bay Water without further notice.

13. Inconsistent Uses. The property owner shall not impede, obstruct, excavate or alter any part of the Utility located within the Easement Area, or engage in any other uses, activities, or conduct which foreseeably would or could prevent, impede, or otherwise interfere with the operation of the Utility within the Easement Area ("Inconsistent Uses"). Unless expressly waived by written instrument executed by Tampa Bay Water, Inconsistent Uses include, but shall not be limited to, the following:

a. Trees. Any tree placed within the Easement Area may be removed at the sole discretion of Tampa Bay Water and without notice to the property owner.

b. Above ground improvements which require a foundation, including but not limited to structures and fixtures such as buildings, masonry walls, storage sheds and monument signs.

c. Below ground improvements which require excavation, including but not limited to pits, wells, tanks, ponds, vaults, swimming pools, burial sites, junction/pull boxes, underground utility boxes and conduit duct banks.

d. Stockpiling materials in excess of 500 pounds per square foot or any earth loadings exceeding a 10-foot depth of cover above the Utility. Any materials stockpiled or placed on the Easement Area must be clean and sanitary and shall not block Tampa Bay Water's access to the Easement Area or the Utility.

e. Storage or parking of vehicles, trailers, boats, other vessels or equipment directly above the Utility unless expressly permitted by Tampa Bay Water.

f. Placement of paved surfaces or roads directly above the Utility, except as expressly permitted in accordance with paragraph 12 above.

g. Stormwater ponds or borrow pits.

h. Irrigation systems placed deeper than 18 inches below ground.

i. Excavation or construction within the Easement Area without notice.

j. Any uses, activities, or improvements which are not Consistent Uses.

The property owner shall be solely responsible for any loss or damage caused by or resulting from Inconsistent Uses.

14. Notice Required. Property Owner shall notify Tampa Bay Water in writing prior to construction activities by the property owner or anyone operating on the property owner's behalf that will impact the Easement Area.

15. Property Owner Construction Activities. To the extent the property owner, or anyone operating on the property owner's behalf, undertakes construction activities within the Easement Area, the determination of whether the construction will adversely affect the Utility, or the exercise of Tampa Bay Water's easement rights shall be within the sole and absolute discretion of Tampa Bay Water, which shall make any such determination in good faith and without undue delay. Prior to any construction activities within the Easement Area, coordination with Tampa Bay Water is required, as follows:

    a. Submit a design and/or locate ticket via Sunshine 811 (https://sunshine811.com) to request as-builts and other information.

    b. Submit design plans for review via the Sunshine 811 utility coordination portal at least 90 days prior to construction.

    c. Submit a locate ticket via Sunshine 811 a minimum of 72 hours before digging over or near the Utility in order to schedule a Tampa Bay Water staff person to be present on site.

    d. Questions should be directed to: utilitycoordination@tampabaywater.org.

16. Future platting. The property owner shall ensure that the Easement Area is clearly shown on any future Plats of the subject property.

If a Tampa Bay Water pipeline or facility is damaged and needs immediate attention, please call Operations at 813-929-4500. Staff is available 24/7.

Temporary Construction Easement

The following temporary construction easement rights are to be acquired by Tampa Bay Water for the South Hillsborough Pipeline Project (the "Project"), subject to the listed limitations:

1. A non-exclusive, temporary construction easement, over, under, and across the properties listed and described in **Composite Exhibit A** as Temporary Construction Easements, located in Hillsborough County, Florida (hereinafter the "Easement Area").
2. The right, privilege, and authority within the Easement Area to perform such work as may be necessary upon the Easement Area in order to substantially conform the Easement Area to the design specifications set forth in the Project construction plans. Such work may include, but not be limited to, the addition, removal, relocation, re-contour, and/or grading of soils, the demolition removal, and reconstruction of certain improvements (including but not limited to any structures, fences, driveways, site debris, billboard signs, and mobile homes), and the creation of temporary access roads as alternative routes for vehicular and pedestrian traffic during construction of the Project. Tampa Bay Water shall further have the right to store equipment and stage materials in the Easement Area.
3. During the term of the easement, all pre-existing access over and across the Easement Area shall be maintained.
4. Upon completion of construction, Tampa Bay Water shall stabilize the Easement Area with seed, sod, or other ground cover so as to prevent erosion (where appropriate), will restore pre-existing landscaping and irrigation (but not trees), will restore pre-existing fencing, and will restore any pre-existing paved surface to a state that is as good or better than its pre-construction condition.
5. The temporary construction easement shall terminate sixty (60) months after the date the easement is acquired or upon final completion of the Project's construction, whichever occurs first.
6. Tampa Bay Water shall be entitled to assign the easement.
7. During the term of the easement there will be no hazardous materials, wastes or substances, toxic wastes or substances, or pollutants or contaminants deposited, located, placed, or released on the Easement Area by Tampa Bay Water.
8. Tampa Bay Water, its consultants, contractors, agents and assigns shall have the right of ingress and egress from the Easement Area by means of any adjacent public or private roadways, easements or rights-of-way owned or held or lawfully available to Tampa Bay Water, including any other property over which Tampa Bay Water has access rights.
9. The property owner may utilize the Easement Area for all lawful purposes provided it does not interfere with or unreasonably burden Tampa Bay Water's easement rights during the term of the easement.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.8

DATE: March 3, 2025

TO: Board of Directors

FROM: Kelly M. Fernandez, General Counsel

SUBJECT: Conflict of Interest Waiver for GrayRobinson related to the South Hillsborough Pipeline Project - *Approve*

SUMMARY

GrayRobinson serves as Tampa Bay Water's eminent domain counsel for the South Hillsborough Pipeline project and has been informed that the project will require two temporary construction easement acquisitions from real property owned by Hillsborough County Public Schools (HCPS). GrayRobinson also represent HCPS, requiring the firm to notify Tampa Bay Water of this representation and to request a waiver.

SUGGESTED ACTION

Approve Waiver.

COST/FUNDING SOURCE

N/A

DISCUSSION

In August of 2024, GrayRobinson hired a lateral partner named Jeffrey Gibson. Mr. Gibson is Hillsborough County Public Schools' (HCPS) outside general counsel. As a result, a number of attorneys at GrayRobinson are now doing regular work for HCPS on multiple matters.

The rules of professional conduct preclude GrayRobinson's representation of Tampa Bay Water if its interest is "directly adverse" to HCPS unless (1) representation of HCPS would not adversely affect

responsibilities to and relationship with Tampa Bay Water or HCPS, and (2) Tampa Bay Water and HCPS each consent. GrayRobinson believes its representation of HCPS with respect to this particular transaction would not adversely affect the firm's responsibilities and relationships to Tampa Bay Water or HCPS with regard to the same transaction.

In the unlikely event that Tampa Bay Water and HCPS are unable to amicably resolve the acquisition of the two required temporary construction easements via an arm's length transaction, thereby requiring Tampa Bay Water to file an eminent domain lawsuit against HCPS, GrayRobinson would need to declare a conflict of interest. At that point, each client would need to retain independent conflict counsel for the ensuing litigation.

Attachment (1)

TBW_HCSB Conflict Waiver

Campbell McLean | Campbell.McLean@gray-robinson.com | **D** 813.273.5108
101 East Kennedy Boulevard, Suite 4000, Tampa, Florida 33602 | **T** 813.273.5000 | **F** 813.273.5145

February 14, 2025

Kelly Fernandez, Esq.
General Counsel
Tampa Bay Water
2575 Enterprise Road
Clearwater, FL 33763
Email: kfernandez@flgovlaw.com

Re: Conflict Waiver
SHP project: Hillsborough County Public Schools

Dear Ms. Fernandez:

GrayRobinson, P.A. ("GrayRobinson") has a long standing relationship with Tampa Bay Water ("TBW"). Among other representations, GrayRobinson serves as TBW's eminent domain counsel for the South Hillsborough Pipeline project (the "Project"). GrayRobinson has been informed that the Project will require two temporary construction easement acquisitions from real property owned by Hillsborough County Public Schools ("HCPS"). To date, GrayRobinson has not been assigned any tasks which deal directly with HCPS property.

Back in August of 2024, GrayRobinson hired a lateral partner named Jeffrey Gibson. Mr. Gibson is HCPS's outside general counsel. As a result, a number of attorneys at GrayRobinson are now doing regular work for HCPS on multiple matters, and GrayRobinson has been brought into a closer relationship with HCPS.

The rules of professional conduct preclude GrayRobinson's representation of Tampa Bay Water if its interest is "directly adverse" to HCPS unless (1) we believe our representation of HCPS would not adversely affect our responsibilities to and relationship with TBW or HCPS, and (2) TBW and HCPS each consent. We think we can ask you for a conflict waiver in this case because we believe our representation of HCPS with respect to this particular transaction would not adversely affect our responsibilities and relationships to TBW or HCPS with regard to the same transaction.

However, we are of the opinion that in the unlikely event that TBW and HCPS are unable to amicably resolve the acquisition of the two required temporary construction easements via an arm's length transaction, thereby requiring TBW to file an eminent domain lawsuit against HCPS, that GrayRobinson's close relationship with TBW and HCPS would necessitate GrayRobinson to declare a conflict of interest. At that point, each client would need to retain independent conflict counsel for the ensuing litigation.

We understand that the waivers granted herein by TBW and HCPS are subject to the statements, terms, and conditions set forth herein and the agreement that GrayRobinson will not (a) use any information gained in our firm's current or prior representation of TBW or HCPS to the detriment of TBW or HCPS, (b) allow our representation of HCPS as its counsel to in any way adversely affect our representation of TBW as eminent domain counsel for the Project, or (c) represent or advise HCPS with respect to any dispute, claim, or litigation brought by TBW for the Project.

If TBW is agreeable to these terms, please indicate TBW’s waiver of any conflict of interest in our law firm's limited representation of TBW and HCPS by signing the acknowledgment set forth on the next page and returning a copy to me at your earliest convenience. If you have any questions concerning this conflict waiver, please let me know.

Sincerely,

/S/ W. Campbell McLean

W. Campbell McLean

WCM/cr

The undersigned, on behalf of HCPS, understands that GrayRobinson's representation of HCPS in connection with the above-mentioned issue could create a conflict of interest, or potential conflict of interest, due to GrayRobinson's current representation of TBW and HCPS. The undersigned agrees that to the extent such a conflict of interest does exist, the undersigned, on behalf of HCPS, hereby waives such conflict and agrees that GrayRobinson may represent HCPS and TBW in connection with the matters set forth in this letter.

Accepted this ____ day of _____, 2025.

HILLSBOROUGH COUNTY PUBLIC SCHOOLS

By: _____

Name: _____

Title: _____

The undersigned, on behalf of TBW, understands that GrayRobinson's representation of HCPS in connection with the above-mentioned issue could create a conflict of interest, or potential conflict of interest, due to GrayRobinson's current representation of TBW and HCPS. The undersigned agrees that to the extent such a conflict of interest does exist, the undersigned, on behalf of TBW, hereby waives such conflict and agrees that GrayRobinson may represent HCPS and TBW in connection with the matters set forth in this letter.

Accepted this ____ day of _____, 2025.

TAMPA BAY WATER

By: _____

Name: _____

Title: _____

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.9

DATE: February 25, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Justin Fox, Senior Engineering and Construction Manager

SUBJECT: Cosme Water Treatment Plant Yard Piping Improvements, Project No. 07131, Cancellation of Joint Project Agreement, No AGR 2015-007 - *Approve*

SUMMARY

This item is for the termination of the 2015 Joint Project Agreement, No. AGR 2015-007, between the City of St. Petersburg, per Paragraph 10. The Joint Project Agreement was approved previously to allow construction of a Tampa Bay Water bypass pipe along with other City of St. Petersburg improvements the city was procuring. The City's project has been delayed and Tampa Bay Water has pursued other options.

SUGGESTED ACTION

Approve cancellation of the Joint Project Agreement, No. AGR 2015-007.

COST/FUNDING SOURCE

N/A

DISCUSSION

The original purpose of the Cosme Water Treatment Plant Yard Piping Improvements Project No. 07131 was to replace an aboveground temporary HDPE line used to connect the 42-inch South Pasco Transmission Main (TM) and the 36-inch Northwest Hillsborough TM with a permanent 36-inch ductile iron or steel line. This connection is especially important operationally as the City of St. Petersburg

(City) has an ongoing project which will require that the bypass point of connection be used as the plant is taken offline for improvements. This project was to be performed under the attached 2015 Joint Project Agreement (JPA) with the City in their project mentioned above, which has been delayed, leading Tampa Bay Water staff (Staff) to seek early project delivery. After pricing early project delivery through the JPA with the City and one of their continuing services contractors it was determined that the original plan was too costly based on its benefits. Staff then requested Black and Veatch (B&V), the Systems Engineer and Integrated Program Manager, to conduct value engineering and determine options that would give similar or equal function at less cost. The new value engineered plan gives Staff the same operation flexibility the original design did while the City's plant is offline for improvements or any other emergency conditions. With lowered cost, Staff now can have the plan executed quickly by one of Tampa Bay Water's On-Call Large Pipeline Contractors, Amici Engineering Contractors. The Tampa Bay Water Board of Directors approved the Task Authorization for the negotiated amount with Amici Engineering Contractors at the February 17th, 2025, Board Meeting under Agenda Item A-18; as a result, this JPA is no longer needed and per Paragraph 10 of the JPA (attached) Staff have elected to cancel it. To date the City has been reimbursed for all design work completed and no construction has occurred, if approved Staff will send a 30-day written notice to City staff of cancellation.

BACKGROUND

The Cosme Water Treatment Plant (WTP) Yard Piping Improvements, Project No. 07131 is included in the Capital Improvements Program. The City of St. Petersburg owns the Cosme WTP located in Northwest Hillsborough County. Within the plant Tampa Bay Water has two Points of Connections with the City. The first is a connection that is fed by a combination of supplies made up of the Regional Transmission Main, the South Pasco TM and the Cosme-Odessa TM. The Northwest Hillsborough TM is also connected here, during any time of higher demand at Hillsborough County's Fawn Ridge Water Plant this line can be used to make up the difference. The Northwest Hillsborough TM also adds resiliency to the system in an emergency situation. The second point of connection serves as a bypass for the Cosme WTP in the event that the plant is offline.

Attachment (1)

AGR 2015-007 Joint Project Agreement

COSME WATER TREATMENT PLANT IMPROVEMENTS

JOINT PROJECT AGREEMENT

June 25, 2015

THIS AGREEMENT is entered into this 21st day of August, 2015 by and between TAMPA BAY WATER, A Regional Water Supply Authority, an interlocal governmental agency of the State of Florida created and existing pursuant to Sections 163.01, 373.713 and 373.715, Florida Statutes. (formerly Sections 373.1962 and 373 1963, Florida Statutes), ("TAMPA BAY WATER") acting by and through its Board of Directors, and the CITY OF ST. PETERSBURG, a municipal corporation of the State of Florida, ("ST. PETERSBURG"), hereinafter collectively referred to as the "Parties" ("Agreement")

WITNESSETH:

WHEREAS, TAMPA BAY WATER was created to develop, recover, store and supply water at wholesale to its Member Governments, and

WHEREAS, ST. PETERSBURG is a Member Government of TAMPA BAY WATER; and

WHEREAS, ST. PETERSBURG can receive water from TAMPA BAY WATER through two existing Points of Connection; and

WHEREAS, the Cosme Bypass Flowmeter Outlet is one of the Points of Connection between TAMPA BAY WATER and ST PETERSBURG; and

WHEREAS, TAMPA BAY WATER and ST PETERSBURG tested the use of the Cosme Bypass Flowmeter Outlet Point of Connection from July 2012 to January 2013 and July 2013 to October 2013 (the "Testing Period"); and

WHEREAS, during the Testing Period TAMPA BAY WATER installed temporary piping upstream of the Cosme Water Treatment Plant to connect the South Pasco Transmission Main to the Northwest Hillsborough Transmission Main on the Cosme Water Treatment Plant property in 2012 to allow continuous flow through the South Pasco Transmission main to Hillsborough County's Fawn Ridge Water Treatment Plant, and

WHEREAS, TAMPA BAY WATER desires to complete a project to install new permanent piping to connect the South Pasco Transmission Main to the Northwest Hillsborough Transmission Main on the Cosme Water Treatment Plant Property ("Transmission Project"); and also desires to have a preliminary design for a new permanent piping connection at or near the Cosme Bypass Flowmeter Outlet Point of Connection that will enable ST. PETERSBURG to deliver water into the TAMPA BAY WATER system ("Pipe Design Project"), and

WHEREAS, ST. PETERSBURG desires to complete a separate project to enhance its ability to receive water from TAMPA BAY WATER through the addition of blending piping and chemical treatment modifications downstream of the Cosme Bypass Flowmeter Outlet Point of Connection that will allow ST. PETERSBURG greater flexibility to receive water from TAMPA BAY WATER at that location (the "Cosme Water Treatment Plant Improvements Project"); and

WHEREAS, It is mutually agreed to be in the best interest of both parties, for ST. PETERSBURG to provide engineering design, permitting and construction services for the Transmission Project and preliminary design services for the Pipe Design Project concurrent with the Cosme Water Treatment Plant Improvements Project, and

WHEREAS, the development of preliminary design plans for the Pipe Design Project does not constitute a commitment on the part of ST. PETERSBURG to construct or implement the pipe project; and

WHEREAS, TAMPA BAY WATER agrees to reimburse ST. PETERSBURG for the reasonable, actual cost of all of engineering, design, permitting and construction services for the Transmission Project and Pipe Design Project (collectively the "PROJECT");

NOW, THEREFORE, in consideration of the foregoing premises, which shall be deemed an integral part of this Agreement, and for other good and valuable consideration, the receipt of which is hereby acknowledged, TAMPA BAY WATER and ST. PETERSBURG, intending to be legally bound hereby, agree as follows.

1 DEFINITIONS Certain terms having specific definitions are used in this Agreement These terms and their definitions are as follows·

1.1 The Project. The PROJECT consists of the Transmission Project and the Pipe Design Project.

1.2 Supporting Documentation Copies of vouchers or payment approval forms showing approval of the disbursement by ST. PETERSBURG and underlying invoices, expense reports, mileage logs and other appropriate documentation which allows verification.

1.3 Project Costs Any and all reasonable, actual costs incurred by ST. PETERSBURG in fulfillment of its obligations to plan, design, permit and construct the Transmission Project and to provide preliminary design of the Pipe Design Project pursuant to this Agreement The estimated costs to TAMPA BAY WATER are set forth in Exhibit "B".

1 4 Escrow Account. The escrow account shall be an interest bearing account established and maintained by ST. PETERSBURG in a qualified public depository as provided in Chapter 280, Florida Statutes, into which funds received from TAMPA BAY WATER shall be deposited and disbursed by ST PETERSBURG for authorized Project Costs

2 COMPLETION OF PROJECT. ST PETERSBURG shall use reasonable efforts to complete the PROJECT within thirty (30) months of execution of this Agreement

3. PROJECT DESIGN AND AWARD OF CONTRACT ST PETERSBURG shall contract for the preliminary engineering design Pipe Design Project and for the final engineering design of plans and specifications for TAMPA BAY WATER'S Transmission Project and, upon completion, will furnish the same to TAMPA BAY WATER for review and approval. Upon approval of the final plans and specifications for the Transmission Project, ST. PETERSBURG shall include such plans and specifications as an add alternate in ST. PETERSBURG'S bid documents for the Cosme Water Treatment Plant Improvements Project. After ST.PETERSBURG receives, opens, and evaluates the bids, it shall notify TAMPA BAY WATER, in writing, of ST. PETERSBURG'S intent to award the contract and shall include the amount for the construction of the Transmission Project. TAMPA BAY WATER shall have ten (10) business days from receipt of ST. PETERSBURG'S notification to request, in writing, that ST.PETERSBURG include the Transmission Project in the contract award or delete the Transmission Project from the contract award. If TAMPA BAY WATER does not respond, the Transmission Project will not be included in the contract award.

4 TRANSMISSION PROJECT CONSTRUCTION

4.1 The City or its contractor shall obtain all necessary permits required for construction of the Transmission Project.

4 2 All of the work done for the Transmission Project shall be done in accordance with the plans, specifications and change orders affecting construction costs approved by TAMPA BAY WATER.

4.3 ST. PETERSBURG shall require the successful contractor to·

(1) Indemnify, hold harmless, pay on behalf of and defend ST. PETERSBURG and its agents and employees and TAMPA BAY WATER and its agents and employees from and against all claims, damages, losses and expenses, including, but not limited to, attorney's fees, arising out of or resulting from the performance of the Transmission Project,

(2) Provide a dual obligee payment and performance bond in the full amount of the Transmission Project, naming both parties as dual obligees; and

(3) Provide insurance coverage with both Parties named as additional insured entities and certificate holders in the sum of $2,000,000 per occurrence and $2,000,000 in the aggregate.

4.4 TAMPA BAY WATER'S comments and suggestions are invited and will be considered by St Petersburg, however, all services and work under the construction contract shall be performed to the satisfaction of St. Petersburg Director of Water Resources, who shall decide all questions, difficulties and disputes relative to construction activities which may arise under or by reason of such contract for the Transmission Project, the prosecution and fulfillment of the services thereunder, and the character and quality

of the work cooperatively and in consultation with TAMPA BAY WATER's Project Manager, and his reasonable decisions upon all claims, questions and disputes thereunder shall be final and conclusive upon the Parties

4.5 Upon completion of the Transmission Project, ST. PETERSBURG shall, within one hundred eighty (180) days, furnish TAMPA BAY WATER with one (1) electronic and two (2) hard copy sets of full-sized record drawings and a bill of sale for all piping and any other fixtures installed as part of the Transmission Project

4 6 ST. PETERSBURG will provide the necessary construction and engineering inspection of the Transmission Project to determine if construction is in substantial compliance with the plans and specifications However, TAMPA BAY WATER may choose to provide its own inspection services in addition to those services provided by ST. PETERSBURG. ST PETERSBURG's inspector shall immediately notify TAMPA BAY WATER'S inspector of any objection to the Transmission Project. All information required for field changes, change orders or supplemental agreements pertaining to TAMPA BAY WATER'S Transmission Project shall be promptly furnished to TAMPA BAY WATER. TAMPA BAY WATER shall fully cooperate with ST. PETERSBURG in the construction of the Transmission Project Any conflicts that cannot be resolved through cooperation shall be resolved in the manner determined by ST. PETERSBURG as identified in Section 4 4 herein

4.7 Upon completion and acceptance of the Transmission Project, St Petersburg shall assign all warranties, both express and implied, including but not limited to warranties for materials, equipment, workmanship and closeout documents, by the contractor constructing and/or installing the Transmission Project in accordance with this Agreement, to TAMPA BAY WATER

4.8 ST. PETERSBURG shall provide TAMPA BAY WATER with a non-exclusive Easement for the Transmission Project Facilities that accommodates and protects TAMPA BAY WATER's interest in the piping and associated fixtures of the Transmission Project.

4.9 Subsequent to the completion and acceptance of the work and assignment of warranties and easement described above, ST. PETERSBURG shall have no further responsibility regarding the Transmission Project facilities and shall be released by TAMPA BAY WATER from any claims relating to the design, construction, and maintenance of the Transmission Project and any consequential or incidental damages relating to the use or operation of the Transmission Project facilities

5. PROJECT MANAGERS The primary contact for each of the Parties is:

A The Project Manager for ST PETERSBURG shall be Steve Leavitt or his designee whose telephone number is (727) 892-5600 and whose post office address is 1650 3rd Avenue North, St. Petersburg, FL 33713

B. The Project Manager for TAMPA BAY WATER shall be Jonathan M. Kennedy or his designee whose telephone number is (813) 929-4550 and whose post office address is 2575 Enterprise Road Clearwater Florida 33763.

C. Each Party may designate a replacement Project Manager by giving notice of such designation to the other party in accordance with this Agreement

6. REIMBURSEMENT FOR DESIGN COSTS BY TAMPA BAY WATER. TAMPA BAY WATER shall provide a payment of Seventy Eight Thousand Nine Hundred and Six Dollars ($78,906 00) to the Escrow Account within thirty (30) days of execution of this Agreement to pay for the engineering design costs associated with the Transmission Project and Pipe Design Project ST PETERSBURG shall draw funds from the Escrow Account for full or partial payment of Project Costs based on contract invoices and fees documented in accordance with Paragraph 1 3. Tampa Bay Water's Project Manager shall be copied on all approved draws from the Escrow Account

7. TRANSMISSION PROJECT COSTS. Within thirty (30) days of the notice of intent to award a contract pursuant to Paragraph 3.of this Agreement, TAMPA BAY WATER shall provide payment to the Escrow Account of the total construction costs for the Transmission Project, ST. PETERSBURG shall draw funds from the Escrow Account for full or partial payment of Project Costs based on contract invoices and fees documented in accordance with Paragraph 1.3 Tampa Bay Water's Project Manager shall be copied on all approved draws from the Escrow Account. Upon final completion and acceptance of the Transmission Project, TAMPA BAY WATER shall be invoiced a final true-up with supporting documentation showing all engineering, permitting, construction administration, inspection, and construction costs in accordance with the provisions of this Agreement. The final true-up shall show the description and site of the Transmission Project, the date on which the last work was performed or the date the last billed expense was incurred, and the location where the records and account bills can be audited TAMPA BAY WATER shall pay all amounts owed to ST. PETERSBURG in excess of the payments previously paid by TAMPA BAY WATER, within thirty (30) days of receipt of the final true-up Likewise, ST PETERSBURG shall refund to TAMPA BAY WATER any payments in excess of the final cost of the Transmission Project within thirty (30) days of the final true-up

8 ACCOUNTING, AUDIT AND RECORDS ST PETERSBURG shall maintain financial records, accounting and purchasing information, and books and records for the Project These books, records, and information shall comply with generally accepted accounting procedures. All documents related to the Project are public records and shall be retained and provided as required by law ST. PETERSBURG shall maintain accounts and records for a period of three years following completion of the PROJECT, for all funds received and disbursed by it with respect to PROJECT Costs incurred by ST. PETERSBURG under this Agreement. At its sole option and expense, TAMPA BAY WATER may complete an audit of those accounts. If such audit results in the calculation of any underpayment or overpayment of funds by TAMPA BAY

WATER to ST. PETERSBURG, TAMPA BAY WATER shall provide a copy of the audit report to ST. PETERSBURG for review and comment. The Parties agree that the total PROJECT Cost to TAMPA BAY WATER for the period audited shall be adjusted based on this audit as mutually agreed upon by TAMPA BAY WATER and ST. PETERSBURG

9. PERMITS AND APPROVALS. ST. PETERSBURG shall be responsible for applying for and obtaining all permits and approvals necessary to complete the PROJECT The Parties shall cooperate and assist in obtaining any and all permits and approvals necessary for the PROJECT.

10. TERMINATION OF AGREEMENT. This Agreement may be terminated by either Party upon thirty (30) calendar days written notice to the other Party, or upon completion and full reimbursement of the total PROJECT cost. In the case of thirty (30) days notice prior to completion of the PROJECT, TAMPA BAY WATER agrees to reimburse ST. PETERSBURG for all PROJECT Costs incurred and/or any obligations to pay by ST PETERSBURG incurred prior to the date of said notice or subsequently incurred in removing any facilities already constructed.

11 TERM The term of this Agreement shall begin on the date of its execution and shall end when all actions necessary to perform the PROJECT have been completed, unless terminated earlier pursuant to Paragraph 10 of this Agreement

12. NOTICES. Any notices or other writings permitted or required to be delivered pursuant to this Agreement shall be delivered to TAMPA BAY WATER at its General Manager's office and to ST. PETERSBURG at its Water Resources Department Director's office

13 CONSTRUCTION. This Agreement shall be governed by, and construed in accordance with, the laws of the State of Florida

14 AMENDMENT This Agreement may be amended only by a written agreement duly executed by TAMPA BAY WATER and ST. PETERSBURG

15. EFFECT ON OTHER AGREEMENTS. The Parties agree that this Agreement shall not modify or amend the Amended and Restated Interlocal Agreement or the Master Water Supply Contract, or in any way alter the Parties' rights or obligations thereunder

16. EXHIBITS. Exhibits "A" and "B" attached hereto are incorporated and made an integral part of this Agreement.

17. COMPLIANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL LAWS Both Parties shall comply with all applicable federal, state, county, and local laws, regulations, and ordinances at all times

18 LIABILITIES ST PETERSBURG's liability and obligations to TAMPA BAY WATER shall be to complete the PROJECT in accordance with the terms of this Agreement.

19. INDEMNIFICATION AND RELEASE. Both Parties shall be fully responsible for their own acts of negligence and their respective agents' acts of negligence, when such agents are acting within the

scope of their employment; and shall be liable for any damages resulting from said negligence to the extent permitted by Section 768.28, Florida Statutes. Nothing herein is intended to serve as a waiver of sovereign immunity by ST. PETERSBURG. Nothing herein shall be construed as consent by the Parties to be sued by third parties in any matter arising out of this Agreement.

20. FORCE MAJEURE. Neither ST. PETERSBURG nor TAMPA BAY WATER shall be liable to the other for any failure to perform under this Agreement to the extent such performance is prevented by an act of God, war, riots, natural catastrophe, or other event beyond the control of the non-performing party and which could not have been avoided or overcome by the exercise of due diligence, provided that the party claiming the excuse from performance has (a) promptly notified the other party of the occurrence and its estimate duration, (b) promptly remedied or mitigated the effect of the occurrence to the extent possible, and (c) performances takes place as soon as possible

21 ASSIGNMENT. This Agreement may not be assigned

22. SEVERABILITY. Should any section or part of any section of this Agreement be rendered void, invalid, or unenforceable by any court of law, for any reason, such a determination shall not render void, invalid, or unenforceable any other section or any part of any section of this Agreement

23 ENTIRE AGREEMENT This Agreement constitutes the entire agreement between the Parties, and no change will be valid unless made by supplemental written agreement executed by both Parties.

24. WAIVER. No act of omission or commission of either Party, including without limitation, any failure to exercise any right, remedy, or recourse, shall be deemed to be a waiver, release, or modification of the same Such a waiver, release, or modification is to be effected only through a written modification to this Agreement

25. GOVERNING LAW AND VENUE This Agreement is to be construed in accordance with the laws of the State of Florida. Venue for any cause of action or claim asserted by either party hereto brought in state courts shall be in Pinellas County, Florida, St. Petersburg Division Venue for any action brought in Federal court shall be in the Middle District of Florida, Tampa Division, unless a division shall be created in St. Petersburg or Pinellas County, in which case action shall be brought in that division.

26 DUE AUTHORITY Each Party to this Agreement represents and warrants to the other Party that. (i) it is duly organized, qualified and existing entities under the laws of the State of Florida, and (ii) all appropriate authority exists so as to duly authorize the persons executing this Agreement to so execute the same and fully bind the party on whose behalf they are executing.

27. HEADINGS. The paragraph headings are inserted herein for convenience and reference only, and in no way define, limit, or otherwise describe the scope or intent of any provisions hereof

28. APPROVAL This Agreement is subject to approval by the ST. PETERSBURG City Council.

29. NONAPPROPRIATION. The obligations of ST. PETERSBURG as to any funding required pursuant to this Agreement shall be limited to an obligation to budget and appropriate from legally available

funds, after monies for essential City services have been budgeted and appropriated, sufficient monies for the funding that is required during that year. Notwithstanding the foregoing, ST. PETERSBURG shall not be prohibited from pledging any legally available non-ad valorem revenues for any obligations heretofore or hereafter incurred, which pledge shall be prior and superior to any obligation of ST PETERSBURG pursuant to this Agreement.

IN WITNESS WHEREOF, TAMPA BAY WATER and THE CITY OF ST. PETERSBURG have executed this Agreement on the day first written above.

ATTEST:

Matt Jordan, Secretary

TAMPA BAY WATER, A Regional Water Supply Authority

By: _____

Its: Chairman

Date: 7/6/15

APPROVED AS TO FORM.

General Counsel

(SEAL)

ATTEST:

City Clerk

CITY OF ST. PETERSBURG

By: _____

Its: Mayor

Date: 8-21-15

APPROVED AS TO FORM

Kim Streeter, Assistant City Attorney
Office of the City Attorney

(SEAL)

EXHIBIT "A"

[PROJECT schematic and aerial view indicating approximate location and size of proposed facilities]

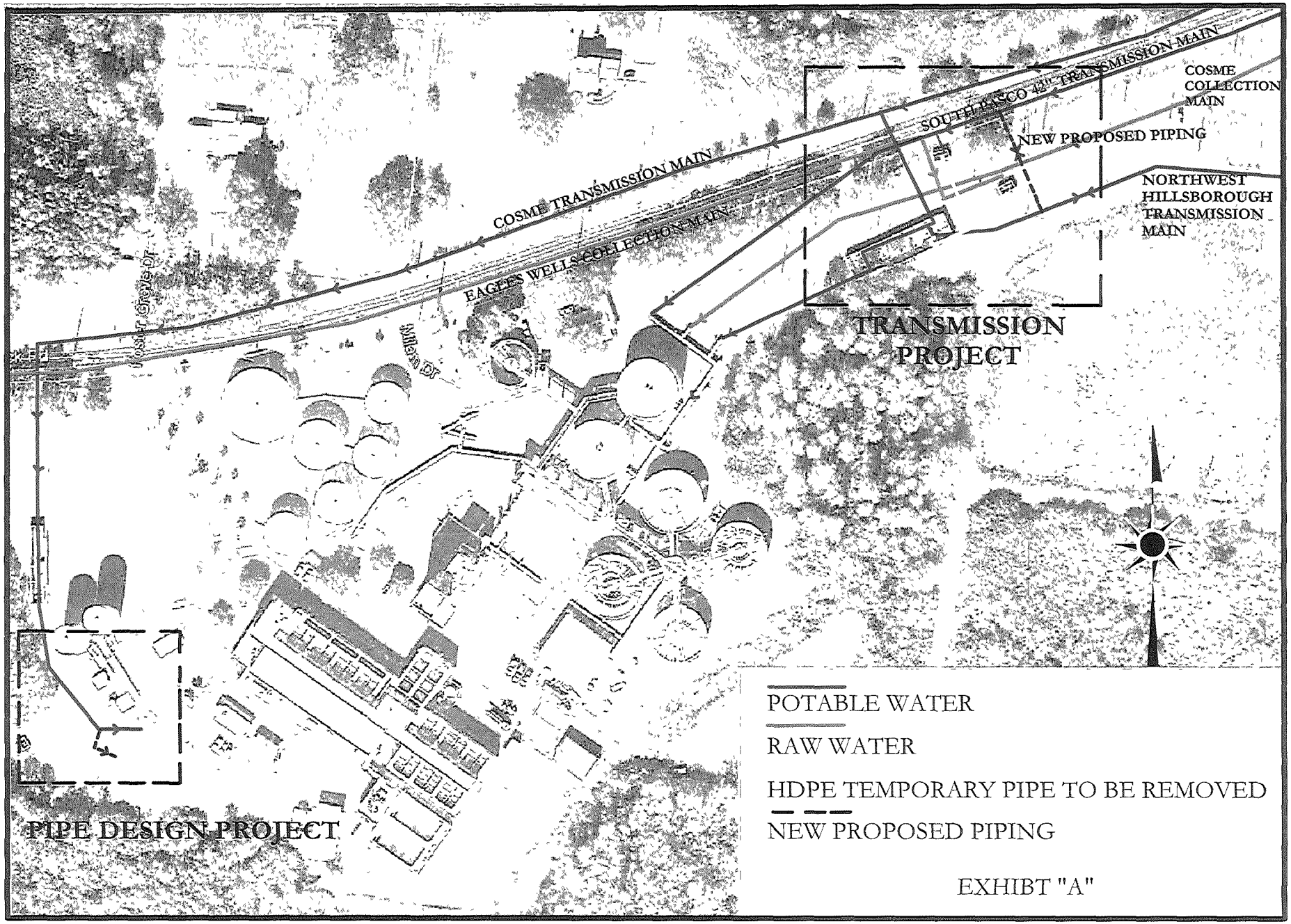
COSME TRANSMISSION MAIN
EAGLES WELLS COLLECTION MAIN
SOUTH PASCO 42" TRANSMISSION MAIN
COSME COLLECTION MAIN
NEW PROPOSED PIPING
NORTHWEST HILLSBOROUGH TRANSMISSION MAIN
TRANSMISSION PROJECT
PIPE DESIGN PROJECT
POTABLE WATER
RAW WATER
HDPE TEMPORARY PIPE TO BE REMOVED
NEW PROPOSED PIPING
EXHIBT "A"

EXHIBIT "B"

PROJECT Costs

Activity (Line-Items)	Total
Engineering, Design and Permitting, and Bidding	$78,906
Engineering Construction Services	$100,000
Construction	$600,000
Contingency	$100,000
Total Estimated PROJECT Costs	$878,906

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.10

DATE: February 26, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Paul Stanek, Chief Operating Officer

SUBJECT: Dam Safety Compliance Engineer of Record, Contract No. 2025043 with Gannett Fleming, Inc. - *Approve*

SUMMARY

This regional reservoir permit requirements identify the need for a 3rd party Dam Safety Compliance Engineer of Record to produce the Annual Reservoir Inspection Reports and the Annual Reservoir Embankment Performance Monitoring Reports. The 3rd party Engineer provides assurances to the FDEP, Tampa Bay Water, and the Tampa Bay Water Board of Directors that the facility is being operated, monitored and maintained in accordance with permit requirements and safe practices associated with an earthen dam.

SUGGESTED ACTION

Approve Contract No. 2025043 with Gannett Fleming, Inc. in a not to exceed value of $2,100,000.

COST/FUNDING SOURCE

Annual expenditures will be budgeted in Department 75 Reservoir Compliance.

DISCUSSION

On October 28, 2024, Tampa Bay Water posted a Request for Proposals on Bonfire for the Dam Safety

Compliance Engineer of Record, Contract 2025043.Vendors were notified through advertisements on Bonfire and Tampa Bay Water's website. Tampa Bay Water added one (1) known firm as supplemental consultant, and eighteen (18) consultants downloaded the bid plans. A mandatory pre-proposal meeting was held on November 19, 2024, with two (2) participating firms. On January 16, 2025, Tampa Bay Water received timely, responsive proposals from the following companies:

Gannet Fleming, Inc.
DuBois & King, Inc.

The selection committee comprised of Tampa Bay Water staff rated all respondents in several categories including: Project Management Experience; Earthen Embankment Project Experience; Soil Cement Project Experience; Dam Safety Compliance Experience; Certified MBE; Volume of Work Previously Awarded; using the advertised scoring criteria. The committee ranked the respondents compiling written scores. Staff have ranked Gannett Fleming, Inc., to be the most qualified. Staff has negotiated a scope and fee to conduct the Project.

The term of this Contract shall commence on the date of execution, and terminate March 31, 2028. Tampa Bay Water, at its discretion, shall have the option to renew this Contract for an additional two (2) years, one (1) year at a time, or any portion thereof.

Staff recommends Board approval of the negotiated contract to Gannett Fleming, Inc. The proposed contract has been approved as to form by Tampa Bay Water's General Counsel's Office.

BACKGROUND

The C.W. Bill Young Regional Reservoir was constructed from 2002-2005. Upon completion in 2005, the reservoir was activated for the storage of surface water captured during the wet season for utilization during higher demands in the dry season. From 2010-2014, the reservoir underwent renovation to upgrade the existing upstream erosion control protection, its underlayment and upstream drainage features. The reservoir renovation contractor was retained for approximately 5 years to perform the Operation, Monitoring and Maintenance requirements of the facility. Kiewit Infrastructure South Co. was the primary contractor and utilized Gannett Fleming as the Design Engineer as well as the 3rd party Dam Safety Compliance Engineer. On March 29, 2019, the Agency resumed Owner Operator status of the facility. On December 12, 2018, Sole Source #2019-509 was entered into with Gannett Fleming to continue as the Dam Safety Compliance Engineer of Record during this transitional period through Water Year 2020. During the transitional period the procurement process to secure a 3rd Party Engineer for the next 5 years took place with Gannett Fleming being awarded the contract. On August 18, 2020, Contract #2020-020 was entered into with Gannett Fleming to act as Tampa Bay Water's 3rd Party Dam Safety Compliance Engineer for a 5-year term.

Attachment (1)

2025043 Dam Safety Compliance Engineer-Signed

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TAMPA BAY WATER
Supplying Water To The Region

FINANCE & ADMINISTRATION DIVISION
CHRISTINA SACKETT, CHIEF FINAICIAL OFFICER

PURCHASING DEPARTMENT
STACY GUNDRY, PURCHASING & WAREHOUSE MANAGER

Website: http://www.tampabaywater.org
E-Mail: purchasing@tampabaywater.org

2575 ENTERPRISE ROAD
CLEARWATER, FLORIDA 33763-1102

CONTRACT #2025043

FOR

DAM SAFETY COMPLIANCE ENGINEER OF RECORD

WITH

GANNETT FLEMING, INC.

Docusign Envelope ID: 2EDA1924-9EEF-4803-8D41-96A63C1A1BFA

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Schedule B - Compensation
Schedule C - Tampa Bay Water Administrative Policy 650-15
Schedule D - Certificate of Insurance Form
Schedule E – Tampa Bay Water Vendor Affidavit

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CONTRACT

Docusign Envelope ID: 2EDA1924-9EEF-4803-8D41-96A63C1A1BFA

CONTRACT FOR PROFESSIONAL SERVICES

This Contract for Professional Services is made this _____ day of _____, 2025 by and between **Tampa Bay Water, A Regional Water Supply Authority**, an interlocal governmental agency of the State of Florida created and existing pursuant to Sections 163.01, 373.713 and 373.715, Florida Statutes ("Tampa Bay Water"), and **Gannett Fleming, Inc.** ("Consultant"), a corporation in the State of Delaware and authorized to do business in the State of Florida.

WITNESSETH:

WHEREAS, Tampa Bay Water desires to retain Consultant to provide certain professional services consisting of Dam Safety Compliance Engineer of Record Services; and

WHEREAS, Tampa Bay Water has selected Consultant in accordance with Tampa Bay Water's procurement policy, and applicable provisions of Law; and

WHEREAS, Consultant desires to provide the professional services required by Tampa Bay Water with respect to the Project, as hereinafter defined;

NOW, THEREFORE, in consideration of the premises set forth above, and of the mutual promises set forth below, and other good and valuable consideration, the sufficiency and adequacy of which are hereby acknowledged, the parties hereto, intending to be legally bound, agree as follows:

1.0 DEFINITIONS

The following terms as used in this Contract shall have the following meanings:

1.1 Contract - This written document, as it may be amended from time to time as provided for herein.

1.2 Date of Commencement - The date on which Tampa Bay Water delivers to Consultant written notice to proceed with the Services.

1.3 Law - All laws, statutes, rules, regulations, ordinances, codes and/or orders applicable to the Services.

1.4 Project - The professional services for Dam Safety Compliance Engineer of Record.

1.5 Services - The services as provided for in Schedule A, as well as any and all obligations, duties, and responsibilities required of Consultant pursuant to this Contract. The term "Services" shall also include all Additional Services which are subsequently authorized in writing by Tampa Bay Water.

1.6 Additional Services – Subject to Section 11 hereof, any services that are authorized in writing by Tampa Bay Water subsequent to the execution an amendment to this Contract as provided for herein.

1.7 Subconsultant – All contractors, subcontractors, consultants, subconsultants, suppliers, experts and other entities retained by Consultant to perform or provide any portion of the Services required hereunder.

2.0 ENGAGEMENT OF SERVICES

Tampa Bay Water hereby contracts with Consultant for Consultant to perform the Services, and Consultant hereby agrees to perform the Services upon the terms and conditions set forth in this Contract.

3.0 TERM

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The term of this Contract shall commence on the date of execution, and terminate March 31, 2028. Tampa Bay Water, at its discretion, shall have the option to renew this Contract for an additional two (2) years, one (1) year at a time, or any portion thereof. This contract may be terminated as provided in section 9.0 in accordance with the procedure set forth herein.

4.0 PROJECT COMPENSATION

4.1 For the timely and proper performance of the Services, Tampa Bay Water shall pay Consultant the compensation in an amount not to exceed annually budgeted funds, as further detailed in Schedule B, which is attached hereto and made a part hereof, consistent with the provisions for payment set forth in Tampa Bay Water's Administrative Policy 650-15 which is attached as Schedule C. Tampa Bay Water shall reimburse Consultant for travel expenses other than travel expenses which are included in lump sum payment items (subject to the "administrative limits" of Section 112.061, Florida Statutes, and Administrative Policy 650-15), provided Consultant (a) maintains appropriate documentation substantiating the expense, (b) discloses that such claimed expense is true and correct as to every material matter, and (c) honors a claim for refund by Tampa Bay Water should such reimbursement be in excess of the administrative limits. Nothing herein shall prevent the payment to Consultant for lump sum items which include travel expenses consistent with the administrative limits.

4.2 Consultant hereby certifies that the wage rates and other factual unit costs supporting the compensation are accurate, complete and current at the time this Contract is executed. Further, Consultant acknowledges and agrees that any compensation to be paid under this Contract, both as originally set forth in Schedule B or for any Additional Services hereafter authorized in writing by Tampa Bay Water, will be adjusted to exclude any significant sums by which Tampa Bay Water determines such compensation was increased due to inaccurate, incomplete, or noncurrent wage rates and other factual unit cost. Further, Consultant acknowledges and agrees that any such adjustment to compensation may be made within one (1) year of the expiration or termination of this Contract.

5.0 PROJECT SCHEDULING

Consultant shall perform the Services in accordance with the tasks assigned and scheduled at the time of assignment.

6.0 CONSULTANT'S REPRESENTATIONS

Consultant represents to Tampa Bay Water as follows:

6.1 Consultant is duly authorized to conduct business in the State of Florida.

6.2 Consultant has, or it will secure at its own expense, all personnel, facilities, and equipment required to perform and complete the Services.

6.3 Consultant shall maintain an adequate and competent staff of professionals licensed and located within the State of Florida. Consultant shall designate in writing a single representative with whom Tampa Bay Water shall coordinate. This representative shall have authority to transmit instructions, receive information, interpret and deliver Consultant's policies and decisions related to the Services and bind Consultant with respect to any matter arising out of or relating to this Contract.

6.4 Consultant has or shall secure all licenses or permits required by Law for the performance of the Services and shall comply with all Laws in effect at the time of the execution of this Contract and the time of performance of the Services.

6.5 Consultant has familiarized itself with the nature and extent of this Contract, the Project, the Services, the site, locality, and all local conditions and Law that may affect

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Consultant's performance of this Contract, including Consultant's compensation, the progress schedule, and the performance or furnishing of the Services.

6.6 Consultant has reviewed this Contract (including its Exhibits) and all available information and data shown or indicated in this Contract and has given Tampa Bay Water written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in this Contract or information or data, and the written resolution thereof by Tampa Bay Water is acceptable to Consultant.

6.7 Consultant shall obtain and review all information and data which relates to the Services or which Consultant may reasonably anticipate may affect cost, scheduling, progress, performance or furnishing of the Services, including, but not limited to, information and data related to the Project work of others under separate contracts, to the extent that such work may interface with the Services hereunder.

6.8 At all times during the performance of the Services, Consultant shall comply with Title VII of the Civil Rights Act of 1964, as amended, and the Florida Civil Rights Act of 1992. Consultant shall not discriminate in any form or manner against its employees or applicants for employment on the basis of race, color, national origin, religion, sex, age, handicap or marital status. Further, Consultant shall comply with all applicable rules, regulations or executive orders promulgated to give effect to the Civil Rights Act of 1964, as amended.

6.9 Consultant warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Contract. Further, Consultant has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, gift, or other consideration, contingent upon or resulting from the award or making of this Contract. Consultant represents that it has complied with the provisions of Section 287.055(6), Florida Statutes.

6.10 Consultant has represented to Tampa Bay Water that Consultant engages in the type of professional services to be provided pursuant to this Contract and Consultant acknowledges that such representations were a material inducement to Tampa Bay Water to enter into this Contract with Consultant.

6.11 Consultant shall immediately notify Tampa Bay Water if it becomes aware of any facts or circumstances which may reasonably give rise to any claim against Tampa Bay Water for Services performed under or related to the Services performed under this Contract.

6.12 Consultant has the full power and authority to execute and deliver this Contract and to incur and perform the obligations provided for herein, all of which have been duly authorized by all proper and necessary actions of the governing entity of Consultant.

6.13 This Contract is a valid, binding and enforceable obligation of Consultant, and does not violate any law, rule, regulation, contract or agreement otherwise enforceable by or against Consultant, except as same may be limited by bankruptcy, insolvency, reorganization or other similar laws affecting the rights of creditors generally.

7.0 TAMPA BAY WATER'S DUTIES

7.1 Tampa Bay Water shall review and consider, in a reasonably prompt and thorough fashion, all applications for payments, reports, schedules, estimates, drawings, proposals or other documents presented to Tampa Bay Water by Consultant and shall inform Consultant of all of Tampa Bay Water's decisions or otherwise take appropriate action within a reasonable time so as to not unreasonably delay the Services of Consultant.

7.2 Tampa Bay Water shall designate in writing a single representative with whom Consultant shall coordinate. This representative shall have authority to transmit instructions, receive information and interpret and deliver Tampa Bay Water's policy and decisions pertinent

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to the Services. However, no such representative of Tampa Bay Water shall be authorized to approve any modification or amendment to this Contract, including, but not limited to, authorizing any Additional Services, modification of Project Compensation or Project Scheduling, unless in the best interest of Tampa Bay Water and due to causes or circumstances beyond the control of Consultant.

7.3 Tampa Bay Water shall cooperate in providing to Consultant, upon Consultant's specific request, all existing and available studies, reports, surveys and other information and data regarding the Project, to the extent such items are in Tampa Bay Water's possession and Tampa Bay Water has actual knowledge of their existence and location. Notwithstanding anything herein to the contrary, Tampa Bay Water does not represent or warrant the accuracy or completeness of any such items, unless it is expressly noted otherwise in writing on such item.

8.0 CHANGE OF PLAN

8.1 Tampa Bay Water shall have the absolute right to terminate, suspend, or amend the Services or the Project at any time and for any reason, and such action on its part shall not be deemed a default or breach of this Contract. Any such termination, suspension or amendment of the Services or the Project by Tampa Bay Water shall be in writing.

8.2 In the event the Services or Project is entirely or partly suspended for one or more periods of time, there shall be no claim for compensation for the suspended period(s). Upon resumption of the Services or Project, Consultant shall resume the Services until the Services are completed in accordance with this Contract, and the time for completion of the Services which were suspended shall be extended for the period of the suspension. If the cumulative total of such suspensions, excluding periods of suspension during the design phase, is two hundred seventy (270) days or less, the extension of time shall be Consultant's sole remedy. If the cumulative total of such suspensions is more than two hundred seventy (270) days, Consultant's sole remedy shall be to terminate this Contract pursuant to Article 9.

8.3 If Tampa Bay Water amends the Services and Consultant is of the opinion that Additional Services are made necessary as a result thereof, the provisions of Article 11.0 herein shall apply.

9.0 TERMINATION OF CONTRACT

9.1 Tampa Bay Water shall have the right to terminate this Contract, in whole or in part, without cause upon thirty (30) days written notice to Consultant. In the event of any such termination without cause, Consultant's sole and exclusive recovery against Tampa Bay Water shall be limited to that portion of Consultant's compensation earned to the date of termination, together with any costs reasonably incurred by Consultant that are directly attributable to the termination. The Consultant shall not be entitled to any other or further recovery against Tampa Bay Water, including, but not limited to, anticipated fees or profits on Services not required to be performed. Tampa Bay Water shall determine that portion of the compensation earned for any incomplete Services based upon the ratio of such part of the Services completed relative to the entire Services. Any such determination shall be made in Tampa Bay Water's sole discretion. Termination without cause shall be effective upon delivery of written notice to Consultant.

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9.2 Consultant shall be considered in material default of this Contract and such default shall be considered cause for Tampa Bay Water to terminate this Contract, in whole or in part, for any of the following reasons: (a) failure to begin Services within the time specified herein for reasons solely attributable to Consultant's actions, or (b) failure to timely and properly perform the Services required hereunder or as directed by Tampa Bay Water for reasons solely attributable to Consultant's actions, or (c) the bankruptcy or insolvency or a general assignment for the benefit of creditors by Consultant or by any of Consultant's principals, partners, officers or directors, or (d) failure to obey any applicable Law, or (e) failure or refusal to allow public access to all public record documents or other materials made or received by Consultant in conjunction with this Contract, unless exempt under Florida law, or (f) Consultant otherwise materially breaches this Contract. In any such event, Tampa Bay Water may terminate this Contract, in whole or in part, by giving Consultant fourteen (14) days written notice. In the event of any such termination for cause, Tampa Bay Water shall not be obligated to make any further payments to Consultant hereunder until such time as Tampa Bay Water has determined all costs, expenses, losses and damages which Tampa Bay Water may have incurred as a result of such default by Consultant, whereupon Tampa Bay Water shall be entitled to set off all costs, expenses, losses and damages so incurred by Tampa Bay Water against any amounts due Consultant hereunder, for services properly performed.

9.3 If Tampa Bay Water violates the provisions of this Contract, and if said violation continues for sixty (60) days after Consultant has delivered to Tampa Bay Water written notice of such violation, then Consultant may, without prejudice to any other right or remedy, terminate or cancel this Contract by giving Tampa Bay Water fourteen (14) days written notice of such termination or cancellation. In the event of any such termination by Consultant, Consultant's sole and exclusive rights and remedies against Tampa Bay Water shall be the same as and limited to those which are set forth in paragraph 9.1 above.

9.4 Notwithstanding the provisions of paragraphs 9.2 and 9.3, this Contract will not terminate for cause if the party receiving the notice begins, within seven (7) days of receipt, to correct its failure and proceeds diligently to cure such failure within no more than thirty (30) days of receipt thereof; provided, however, that if and to the extent such cause for termination cannot reasonably be cured within such thirty (30) day period, and if such party has diligently attempted to cure the same and thereafter continues to diligently cure the same, then the cure period may be further extended by the party that provided said notice.

9.5 If, after termination of this Contract as provided for in paragraph 9.2 above, it is determined for any reason that Consultant was not in default, or that its default was excusable or that Tampa Bay Water otherwise was not entitled to the remedy against Consultant provided for in paragraph 9.2, then such termination for cause shall be deemed to be a termination without cause and Consultant's sole and exclusive rights and remedies against Tampa Bay Water shall be the same as and limited to those afforded Consultant under paragraph 9.1 above.

9.6 Upon any termination of this Contract pursuant to paragraphs 9.1 or 9.3 above and payment by Tampa Bay Water as required under those paragraphs, Consultant shall deliver to Tampa Bay Water, within ten (10) days of such payment, all papers, drawings, models and other material prepared by and for Consultant with respect to the Project. Upon any termination of this Contract pursuant to paragraph 9.2 above, Consultant shall deliver to Tampa Bay Water, within ten (10) days of Consultant's receipt of the termination notice, all papers, drawings, models and other materials prepared by or for Consultant for the Project.

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10.0 WAIVER

10.1 Consultant's acceptance of final payment shall constitute a full waiver of any and all claims by Consultant against Tampa Bay Water arising out of and relating to this Contract or otherwise related to the Project, except those previously made in writing and identified by Consultant as unsettled at the time it submits its invoice for final payment. Neither the acceptance of the Services nor any payment by Tampa Bay Water shall be deemed to be an acceptance of defective or incomplete Services or waiver of any of Tampa Bay Water's rights against Consultant.

10.2 Non-enforcement of any provision of this Contract by either party shall not constitute a waiver of that provision nor shall it affect the enforceability of that provision or the remainder of this Contract.

11.0 ADDITIONAL SERVICES

11.1 If Consultant is of the opinion that any services Tampa Bay Water directs it to perform are beyond the scope of the Services under this Contract, Consultant shall, within seven (7) days of such direction, notify Tampa Bay Water in writing of this opinion. Tampa Bay Water shall, within ten (10) working days after receipt of such notification, determine whether or not such service is in fact beyond the scope of this Contract and constitutes Additional Services. If Tampa Bay Water determines that such service does constitute Additional Services, it shall provide extra compensation to Consultant based upon the provisions of Article 4.0 herein.

11.2 If, in the opinion of Tampa Bay Water, the progress of the Services during any period is substantially less than the amount which is necessary to meet the Project Schedule or Consultant's obligations under Article 5.0 herein, Tampa Bay Water may require Consultant to take whatever action is necessary, in the opinion of Tampa Bay Water, to put the Services back on schedule, provided such actions can be completed consistent with the standard of care. Such action shall not constitute Additional Services unless the delays were caused by circumstances beyond the control and fault of Consultant or its agents, employees and Subconsultants.

11.3 In the event of claims by others against Tampa Bay Water in connection with the Project or the Services, Consultant shall provide to Tampa Bay Water such technical assistance that Tampa Bay Water may request. Such assistance shall constitute Additional Services, unless such claims are caused by the failure of Consultant, its designated agents, employees or Subconsultants to materially comply with the terms and conditions of this Contract or otherwise perform their duties under this Contract.

11.4 Subject to the provision of paragraph 8.2 herein, Consultant shall not make any charges or claims for damages for any delays or hindrances of less than thirty (30) days from any cause whatsoever during the progress of any portion of the Services. Such delays or hindrances of less than thirty (30) days may be compensated for by an extension of time as Tampa Bay Water may decide. However, any such extension shall not operate as a waiver of any other rights of Tampa Bay Water. If the total of such delays or hindrances exceeds thirty (30) days, any additional services required to be performed by Consultant as a result of such delays or hindrances will be considered Additional Services unless such delays or hindrances were caused in whole or in part by Consultant, its employees, agents, or Subconsultants or as a result of a suspension of the Project or Services entirely or partly by Tampa Bay Water. This paragraph 11.4 shall not apply to suspensions of the Project or Services by Tampa Bay Water, which suspensions shall be governed by Article 8.0.

11.5 If Tampa Bay Water requires Consultant to provide it with an audit of its Project costs, such audit shall not be considered Additional Services.

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12.0 STATUS REPORTS AND INSPECTIONS

Tampa Bay Water shall be entitled at all times to be advised of the status of the Project, including, but not limited to, the Services of Consultant. Consultant shall cooperate with Tampa Bay Water and its agents to keep Tampa Bay Water advised as to the status of the Project and Services. Tampa Bay Water and/or its authorized representative shall have the right to visit the site and/or the office of Consultant in order to inspect the Services or any of the drawings or documents of Consultant at any reasonable time. The documents obtained or generated under this Contract shall be maintained by Consultant and made available to Tampa Bay Water upon request by Tampa Bay Water at all times during the term of this Contract and for three (3) years thereafter. In addition to the documents and reports set forth in Schedule A, Consultant shall, at no cost to Tampa Bay Water, deliver to Tampa Bay Water copies of all other Project documents or reports under Consultant's possession or control that Tampa Bay Water may request from time to time.

13.0 COORDINATION WITH OTHERS

Consultant shall cooperate with other engineers, consultants, construction contractors and suppliers retained by Tampa Bay Water and assist Tampa Bay Water with the coordination of those various projects, work, and engineering and consulting services. Consultant shall review all information and attend all meetings as shall be reasonably necessary to accomplish the coordination of those various projects, work, and engineering and consulting services, and eliminate any problems where the projects, work or services interface with the Project or Services.

14.0 SUBCONSULTANTS

Consultant shall not sublet, assign, or transfer this Contract or any Services without the prior written consent of Tampa Bay Water, which consent may be withheld in Tampa Bay Water's sole discretion. Consultant shall be solely responsible for the employment, direction, supervision, compensation and control of any and all Subconsultants. Consultant shall cause all Subconsultants to abide by the terms and conditions of this Contract and all Laws. All Contracts between Consultant and Subconsultants shall be in writing, with a copy of such Contracts to be provided to Tampa Bay Water upon its request for same.

15.0 INDEMNIFICATION

15.1 In consideration of One Hundred Dollars ($100.00) separately allocated from the consideration paid hereunder, to the fullest extent permitted by law, the receipt and sufficiency of which is acknowledged by Consultant's execution of this Contract, the Consultant shall indemnify and hold harmless Tampa Bay Water, its officers and employees, from and against liabilities, damages, losses and costs (including but not limited to reasonable attorneys fees) to the extent caused by the negligence, recklessness or intentionally wrongful conduct of Consultant or any of the Subconsultants or any other person or organization employed by or utilized by Consultant in the performance of Services under this Contract. This indemnification shall also include all liability, damages, losses and costs (including but not limited to reasonable attorneys fees) to the extent caused by any infringement of patents or copyrights incident to providing the Services required hereunder.

15.2 PURSUANT TO SECTION 558.0035, FLORIDA STATUES, AN INDIVIDUAL EMPLOYEE OR AGENT OF ENGINEER MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

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16.0 CONSULTANT'S INSURANCE REQUIREMENTS AND MINIMUM LIMITS

16.1 The types of insurance Consultant shall purchase and maintain shall include the specific coverages and minimum limits set forth as follows. All said limits shall be per occurrence and in the aggregate combined single limit for all liability, except professional liability coverage which shall be on a claims made basis, with following forms excess or umbrella insurance making up the difference between the policy limits of underlying policies and the total amount of coverage required.

16.2 Consultant shall provide the following described insurance, except for coverages specifically waived in writing by Tampa Bay Water, on policies and with indurers acceptable to Tampa Bay Water. The amounts and types of insurance shall conform to the following minimum requirements with the use of current insurance service office forms and endorsements or their equivalent.

16.3 LIABILITY INSURANCE

16.3.1 General Liability

a) Consultant shall purchase and maintain such commercial (occurrence form) or comprehensive general liability, automobile policies and other appropriate insurance for the services being performed and furnished hereunder which shall provide protection from claims set forth below which may arise out of, or result from Consultant's performance and furnishing of the services and Consultant's other obligations under the Agreement and Assignments issued hereunder.

b) Minimum limits of $1,000,000 per occurrence for all liability must be provided, with excess or umbrella insurance making up the difference, if any, between the policy limits of underlying policies (including employers liability required in the Worker's Compensation coverage section) and $2,000,000 per occurrence of the total amount of coverage required. Limits of coverage shall not be less than the following for Bodily Injury, Property Damage and Personal Injury, Combined Single Limits:

General Aggregate	$2,000,000
Each Occurrence	$1,000,000
Personal Injury/Advertising Injury	$1,000,000
Products Comp/Operations Aggregate	$1,000,000

c) Consultant liability insurance shall include contractual liability coverage sufficient to cover Consultant indemnification obligations under this Agreement. Consultant agrees to pay on behalf of Tampa Bay Water, and to provide and pay for a defense for all claims covered by Consultant obligations under the indemnification provisions.

16.2.2 Excess or Umbrella Liability

a) Umbrella liability insurance is preferred, but an Excess Liability equivalent may be allowed. Whichever type of coverage is provided, it shall not be more restrictive than the underlying insurance policy coverages.

16.2.3 Automobile Vehicle Liability

a) Coverage shall be maintained as to the business use of all its owned, non-owned, leased or hired vehicles with limits of not less than: Bodily Injury & Property Damage Liability $500,000, Combined Single Limit Each Accident.

b) If Consultant has no owned, non-owned, leased or hired vehicles, a letter from Consultant so stating must be included with the Certificate of Insurance.

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16.2.4 Watercraft/Aircraft Liability

a) If Consultant's provision of services involves utilization of watercraft or aircraft, watercraft and/or aircraft liability. Consultant will cause its providers of same to provide coverage to include bodily injury and property damage arising out of ownership, maintenance or use of any watercraft or aircraft, including owned, non-owned and hired.

16.3 WORKERS COMPENSATION COVERAGE

16.3.1 Consultant shall purchase and maintain workers' compensation insurance for all workers' compensation obligations imposed by state law and employers' liability limits of at least $100,000 each accident and $100,000 each employee, $500,000 policy limit for disease.

a) Tampa Bay Water requires Consultant and the Subconsultants to purchase workers' compensation insurance for all its employees regardless of the number of employees they have and regardless of any other exemptions. Florida law permits employers who may be exempt from purchase of coverage to waive their exemptions and purchase the coverage. Tampa Bay Water requires Consultant and all the Subconsultants to purchase said coverage, unless waived in writing by Tampa Bay Water.

b) Consultant and the Subconsultants shall also purchase any other coverages required by law for the benefit of employees.

16.4 PROFESSIONAL LIABILITY/MALPRACTICE/ERRORS OR OMISSIONS INSURANCE

16.4.1 Consultant shall purchase and maintain professional liability or malpractice or errors or omissions insurance with minimum limits of $1,000,000 per occurrence.

16.4.2 If a claims; made form of coverage is provided, the retroactive date of coverage shall be no later than the inception date of claims made coverage, unless the prior policy was extended indefinitely to cover prior acts.

16.4.3 To the extent commercially available, coverage shall be extended beyond the policy year either by a supplemental extended reporting period (ERP) of as great duration as available, and with no less coverage and with reinstated aggregate limits, or by requiring that any new policy provide a retroactive date no later than the inception date of claims made coverage.

16.5 Consultant shall not commence or continue to perform any Services unless Consultant has in full force and effect all required insurance, and until Consultant has delivered to Tampa Bay Water all insurance certificates required hereunder evidencing the specific insurance coverage required, nor shall any payment for Services performed become due and payable until Consultant has delivered all such certificates to Tampa Bay Water. Consultant shall not permit any Subconsultant to perform any portion of the Services unless such Subconsultant has complied with the insurance requirements, including the workers' compensation and general liability insurance requirements, contained herein.

16.6 Insurance coverage shall be placed with insurers or self-insurance funds, satisfactory to Tampa Bay Water, licensed to do business in the State of Florida and with a resident agent designated for the service of process. All insurers shall have an "A" policyholder's rating and a financial rating of at least Class IX in accordance with the most current Best's rating. Consultant shall provide Tampa Bay Water with financial information concerning any self-insurance fund insuring Consultant. At Tampa Bay Water 's option, a Best's rating or Self-Insurance Fund financial information may be waived.

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16.7 As evidence of the insurance coverages required by this Contract, Consultant shall provide Tampa Bay Water certificates of insurance evidencing the specific policies issued, the limits of coverage afforded, and the specific endorsement provided, all in accordance with the form attached hereto as Schedule "E" and made a part hereof. An ACORD form meeting these requirements and as shown in Schedule "E" may be substituted with the consent of Tampa Bay Water.

16.8 All the policies of insurance so required of Consultant, except professional liability and workers' compensation insurance, shall be endorsed to include as additional insureds: Tampa Bay Water, its directors, officers, employees, representatives, agents, and volunteers. If the additional insureds have other insurance which might be applicable to any loss, the insurance required of Consultant shall be considered primary, and all other insurance shall be considered excess. Such insurance policies shall include or be endorsed to include a cross liability clause so the additional insureds will be treated as if a separate policy were in existence and issued to them. The cross-liability clause does not increase the limits of liability or aggregate limits of the policy.

16.9 Deductible and self-insured retention amounts shall be subject to approval by Tampa Bay Water, which approval shall not be unreasonably withheld. Consultant is responsible for the amount of any deductibles or self-insured retentions.

16.10 Approval of the insurance by Tampa Bay Water shall not relieve or decrease the liability of Consultant hereunder. Further, Consultant acknowledges that any such acceptance by Tampa Bay Water shall not be deemed to be an acknowledgement that Consultant has satisfied its insurance obligations hereunder. Consultant acknowledges and agrees that Tampa Bay Water does not in any way represent that the insurance (or the limits of insurance) specified in this Article is sufficient or adequate to protect Consultant's interests or liabilities, but are merely minimums.

16.11 All insurance shall be maintained in full force and effect for the period provided in paragraph 16.13 hereof. Should any coverage approach expiration during the period in which it is to remain in full force and effect, it shall be renewed by Consultant prior to its expiration, and a certificate of insurance again filed with Tampa Bay Water at least fourteen (14) days prior to coverage renewal.

16.12 All of the policies of insurance required to be purchased and maintained (or the certificates or other evidence thereof) shall contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused, until at least thirty (30) days prior written notice has been given to Tampa Bay Water and Consultant by certified mail. Consultant shall give notice to Tampa Bay Water within (24) hours of any oral or written notice of adverse change, non-renewal, or cancellation.

16.13 Except as provided below in paragraph 16.14 for professional liability insurance, all insurance required hereunder shall remain in full force and effect throughout the entire term of this Contract.

16.14 Professional liability insurance shall continue in force until the end of one (1) calendar year following the calendar year in which the completion of the Project is estimated to occur pursuant to the Project Schedule. The professional liability insurance policy shall be endorsed to provide for renewals through said one (1) calendar year, or if the current policy is not renewed, to provide for an extended reporting period on the existing policy through said one (1) calendar year.

16.15 Consultant shall, upon request by Tampa Bay Water, deliver to Tampa Bay Water a copy of each insurance policy purchased by Consultant pursuant to this Article 16.0 and Article 17.0.

16.16 All policies, except for workers' compensation and professional liability, shall contain provisions to the effect that in the event of payment of any loss or damage the insurer

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will have no rights of subrogation against Tampa Bay Water, its Consultants, directors, officers, employees, representative or agents. Nothing contained in these insurance requirements is to be construed as limiting the liability of Consultant or Consultant's insurance carriers. Further, Consultant hereby waives its right of recovery against Tampa Bay Water with respect to any matter covered by any insurance maintained by Consultant.

17.0 INSURANCE – GENERAL REQUIREMENTS

17.1 Consultant shall purchase and maintain such commercial (occurrence form) or comprehensive general liability (occurrence form), professional liability, and other appropriate insurance, with respect to the Services required hereunder, that will provide protection from the types of claims set forth below which may arise out of or result from Consultant's performance and furnishing of the Services, whether it is to be performed by Consultant or the Subconsultants:

17.1.1 Claims under workers' compensation, disability benefits and other similar employee benefit acts;

17.1.2 Claims for employer's liability, including those arising under Title VII of the Civil Rights Act of 1964 and the Florida Civil Rights Act;

17.1.3 Claims for damages because of bodily injury, sickness or disease, or death to any person other than Consultant's employee;

17.1.4 Claims for damages insured by personal injury liability coverage which are sustained by any person as a result of a negligent or wrongful act or omission of Consultant or any person employed by or subcontracted to Consultant;

17.1.5 Claims for damages because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom;

17.1.6 Claims for damages because of bodily injury or death of any person, or property damage arising out of the Consultant ownership, maintenance, operation, use or loading and unloading of any owned, hired or non-owned motor vehicle used in connection with the Services, including employee non- Consultant ownership use; and

17.1.7 Claims for damages because of bodily injury or death of any person or property damage arising out of the Consultant ownership, maintenance, operation, use or loading and unloading of any owned, hired or non-owned aircraft and watercraft used in connection with the Services, including employee non- Consultant ownership use.

17.2 The insurance required by this Article shall include the specific coverage and be written for the limits of liability and coverage provided in Article 16.0 or required by Law, whichever is greater. Where appropriate for the Services being performed, the commercial (occurrence form) or comprehensive general liability (occurrence form) insurance shall also include: broad form property damage, explosion, collapse, and underground hazard coverage and independent contractor's coverage.

17.3 The commercial (occurrence form) or comprehensive general liability (occurrence form) insurance shall include contractual liability insurance applicable to all of Consultant's obligations under this Contract that are covered by such insurance.

17.4 Consultant shall require all Subconsultants to procure and maintain, until the completion of that party's Services, insurance of the types and in the coverage amounts required to be carried by Consultant in this Contract unless Tampa Bay Water agrees in writing, in advance of Consultant's employment of any such Subconsultant, to other types of coverage and/or lower coverage amounts. Provided however, that professional liability insurance shall not be required under this Contract for Subconsultants, unless such party is a licensed professional. The preceding sentence does not preclude Consultant from

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requiring such insurance. Consultant shall be responsible for ensuring that all Subconsultants comply with all of the insurance requirements contained herein relative to each such party.

17.5 Tampa Bay Water requires Consultant and all Subconsultants to purchase workers' compensation insurance for all their employees regardless of the number of employees they have and regardless of any other exemptions. Florida law permits employers who may be exempt from purchase of coverage to waive their exemptions and purchase the coverage voluntarily. Tampa Bay Water requires Consultant and all Subconsultants to voluntarily purchase said coverage.

18.0 STANDARD OF PERFORMANCE

Consultant shall perform and complete the Services in a timely manner and in accordance with the standard of care, skill, and diligence customarily provided by professionals participating in a similar location, time and on similar projects as Consultant. Consultant acknowledges that it has represented to Tampa Bay Water that Consultant has experience in the type of services to be rendered hereunder and that such representation was a material inducement to Tampa Bay Water to enter into this Contract with Consultant.

19.0 PROJECT DOCUMENTS AND DATA

19.1 One (1) copy of all technical data and working papers regarding the Services, whether existing in the office of Tampa Bay Water or in the office of Consultant, shall be made available to the other party to this Contract without expense to such other party. Additional copies shall be made available at the expense of the requesting party.

19.2 All Project documents, tracings, plans, specifications, maps, evaluations, reports, technical data, and computer application code, other than working papers prepared or obtained under this Contract, are the property of Tampa Bay Water without restriction or limitation of use, and shall be made available, upon request, to Tampa Bay Water at any reasonable time. Consultant, at its own expense, may retain copies thereof for its files and internal use. Any use by Tampa Bay Water of such materials obtained under this Contract for any other Project or use of incomplete materials obtained from Consultant by Tampa Bay Water shall be made at the risk of Tampa Bay Water. However, this does not constitute a disclaimer of the professional liability of Consultant with respect to the original Services as used for the Project.

19.3 All final plans and documents that are required by Florida Law to be endorsed and are prepared by Consultant in connection with the Services shall bear the endorsement of a person in the full employment of Consultant or duly retained by Consultant and duly licensed in the appropriate professional category.

19.4 Consultant shall make any patentable product or result of the Services and all information, design, specifications, know-how, data and findings available to Tampa Bay Water without cost to Tampa Bay Water. No material prepared in connection with this Project will be subject to copyright by Consultant, all such copyrights being the property of Tampa Bay Water. The parties acknowledge that any pre-existing information, designs, specifications, know-how, data, findings, copyright and IP will not transfer to Tampa Bay Water under this Contract. Tampa Bay Water shall have the right to publish, distribute, disclose and otherwise use any material prepared by or for Consultant with respect to the Project. Any use of material or patents obtained by Tampa Bay Water under this Contract for any purpose not associated with this Project shall be at the risk of Tampa Bay Water. In Tampa Bay Water's discretion, whenever any renderings, photographs of renderings, photographs of models or photographs of the Project are

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released by Tampa Bay Water for publicity, proper credit may be given to Consultant, provided the giving of such credit is without cost to Tampa Bay Water.

19.5 Consultant shall make no statements, press releases or public releases concerning this Contract or its subject matter or otherwise disclose or permit to be disclosed any of the data or any other information obtained or furnished in compliance with this Contract, except at meetings where representatives of Tampa Bay Water are present, without Tampa Bay Water's prior written consent. Consultant shall not publish, copyright, or patent any of the data furnished or developed with respect to the Project without first obtaining Tampa Bay Water's written consent, as all such rights are the property of Tampa Bay Water. The foregoing notwithstanding, nothing limits Consultant's ability to generally reference the Services performed in resumes, statements of qualifications or proposals to other clients.

20.0 PUBLIC RECORDS AND AUDIT RIGHTS

20.1 Consultant shall keep all books, records, files, plans, drawings and other documentation, including all electronically stored items, which concern or relate to the Services hereunder (collectively referred to herein as "Records") for a minimum of three (3) years from the date of expiration or termination of this Contract or as otherwise required by Law, which ever date is later. Tampa Bay Water, or any duly authorized agents or representatives of Tampa Bay Water, shall have the right to audit, inspect and copy all or such Records as often as they deem necessary during any such period of time. This right to audit, inspect and copy the Records shall include all of the Records of Subconsultants.

20.2 **IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE AGENCY'S CUSTODIAN OF PUBLIC RECORDS VIA PHONE (727) 796-2355 Option 6; EMAIL RECORDS@TAMPABAYWATER.ORG; OR MAIL AT 2575 ENTERPRISE ROAD, CLEARWATER, FLORIDA 33763.**

20.3 Consultant must keep and maintain all public records required by Tampa Bay Water in order to perform services under this Contract.

20.4 Upon request from Tampa Bay Water's custodian of public records, Consultant shall provide Tampa Bay Water with a copy of the requested public records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provide in Chapter 119, Florida Statutes, or as otherwise provided by law.

20.5 Consultant shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Consultant does not transfer the records to Tampa Bay Water.

20.6 Upon completion of the contract, Consultant shall transfer, at no cost, to Tampa Bay Water all public records in the possession of the Consultant, or keep and maintain public records required by Tampa Bay Water to perform the service under this contract. If the Consultant transfers all public records to Tampa Bay Water upon completion of the contract, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the contract, the Consultant shall meet all applicable requirements for retaining

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public records. All records stored electronically must be provided to Tampa Bay Water, upon request from Tampa Bay Water's custodian of public records, in a format that is compatible with the information technology systems of Tampa Bay Water.

21.0 EMPLOYEE VERIFICATION

In accordance with Section 448.095 Florida Statutes, the Consultant agrees to register with and utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired during the term of the award/contract for the services specified in the award/contract. The Consultant must also include a requirement in subcontracts that the subcontractor must register with and utilize the E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the award/contract term. If the Consultant enters into a contract with a subcontractor, the subcontractor must provide the Consultant with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. The Consultant shall maintain a copy of such affidavit for the duration of the award/contract. If Tampa Bay Water has a good faith belief that the Consultant has knowingly violated Section 448.09(1), Florida Statutes, Tampa Bay Water shall terminate the Contract with the Consultant, and the Contractor may not be awarded a contract with Tampa Bay Water for at least 1 year after the date on which the award/contract was terminated. The Consultant is liable for any additional costs incurred by Tampa Bay Water as a result of the termination of the award/contract. If Tampa Bay Water has a good faith belief that a subcontractor knowingly violated the law, but the Consultant has otherwise complied with the law, Tampa Bay Water shall promptly notify the Consultant and order the Consultant to immediately terminate the award/contract with the subcontractor.

22.0 MISCELLANEOUS PROVISIONS

22.1 Tampa Bay Water and Consultant each hereby binds itself, its successors, assigns, and legal representatives to the other. The rights and obligations pursuant to this Contract shall inure solely to the parties hereto (their successors, assigns and legal representatives) and no other party shall have any rights or obligations under or by virtue of this Contract.

22.2 This written document shall constitute the entire Contract between the parties hereto and said Contract shall not be amended or modified except in writing duly executed by the party against whom such an amendment or modification is sought to be enforced. This Contract shall govern the relationship between Tampa Bay Water and Consultant on the Project.

22.3 This Contract shall be governed by and construed under the laws of the State of Florida.

22.4 Venue for any action arising under this Contract shall lie in the State courts for Pinellas County, Florida.

22.5 Any notices or other writings permitted or required to be delivered under the provisions of this Contract must be in writing and shall be delivered by sending the notice by personal delivery, U.S. regular mail, U. S. express mail or by U.S. certified mail, return receipt requested, in any event with sufficient postage affixed, and addressed as follows:

If to Tampa Bay Water:

Tampa Bay Water
2575 Enterprise Road
Clearwater, Florida 33763-1102
Attention: Stacy Gundry, Purchasing & Warehouse Manager

If to Consultant:

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Gannett Fleming, Inc.
10161 Centurion Parkway North, Suite 300
Jacksonville, FL 32256
904-490-3122
Attention: Scott Burch, PE

Either party may change said address by notice in writing to the other party in the manner herein provided.

22.6 The parties hereto acknowledge that they have carefully reviewed this Contract and have been advised by counsel of their choosing with respect thereto, and that they understand its contents and agree that this Contract shall not be construed more strongly against any party thereto, regardless who is responsible for its preparation or drafting.

22.7 Key personnel and Subconsultants assigned to the Project by Consultant shall not be removed from the Project without the prior written approval of Tampa Bay Water. All key personnel shall be available to the Project on a full time basis, except as otherwise expressly approved in writing by Tampa Bay Water. Consultant shall not be in breach of this Contract due to the unavailability of Key Personnel due to reason of resignation, termination, or the inability for Key Personnel to work for reasons beyond Consultant's reasonable control. Such key personnel are as follows:

Sam Hutsell, PE
Scott Burch, PE
Elizabeth Landowski, PE
Trent Dreese, PE
Benjamin Gordon, PE
Dan Stare, PE

22.8 If at any time during the term of this Contract Tampa Bay Water notifies Consultant in writing that any of Consultant's employees or the employees of any Subconsultant are objectionable to Tampa Bay Water, Consultant shall remove or have the Subconsultant remove the objectionable employee from the Project and not reemploy the objectionable employee on any portion of the Services.

22.9 The Consultant's communications with Tampa Bay Water shall be limited to Tampa Bay Water's General Manager and designated staff. Communications with Tampa Bay Water's Board Members are prohibited, except with the prior written permission of Tampa Bay Water's General Manager or at a duly noticed public board meeting. Any such prohibitive communications shall be deemed to be a material breach of this Contract by Consultant. This provision does not prohibit or limit contacts by or on behalf of Tampa Bay Water Board Members with Consultant.

22.10 When Consultant is requested by Tampa Bay Water to utilize special Consultants not heretofore agreed upon, Consultant shall be reimbursed for the actual reasonable cost of such consulting services. Any request of Tampa Bay Water to utilize specific firms shall be subject to the reasonable refusal of Consultant. Consultant shall obtain Tampa Bay Water's prior written consent before it retains such Consultants.

22.11 All words used herein in the singular shall extend to and include the plural, and the use of any gender shall extend to and include all genders. Unless the context of the Contract otherwise clearly requires, the term "including" is not limiting and the terms "hereof", "herein", "hereunder" and similar terms in this Contract refer to this Contract as a whole and not to any particular provision of this Contract.

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22.12 The captions and headings herein are for convenience of reference only and in no way define or limit the scope or content of this Contract or in any way affect its provisions. Unless otherwise indicated, references to Articles and paragraphs shall include all subparts.

22.13 This Contract shall be effective as of the last date upon which all of the parties hereto have executed this Contract, as demonstrated by the date under the signatures on the signature page.

22.14 Time is of the essence of this Contract and each of its provisions.

22.15 In the event of a conflict between this Contract and Schedule "A" attached hereto, this Contract shall control.

22.16 All analyses, data, documents, models, modeling, reports and tests performed or utilized by Consultant shall be made available to Tampa Bay Water upon request and shall be considered public records in accordance with Chapter 119, Florida Statutes, unless exempt therefrom.

22.17 Unless expressly stated in writing, no action taken by a party to this Contract shall be considered a waiver by such party of compliance with any representations, warranty, duty or responsibility under this Contract.

22.18 Tampa Bay Water shall decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of this Contract, the prosecution and fulfillment of the Services called for hereunder, or the character, quality, amount, or value thereof. The decision of Tampa Bay Water upon all such claims, questions or disputes shall be final and binding if not contested by Consultant in a written notice delivered to Tampa Bay Water within seven (7) days after Consultant's receipt of written notice from Tampa Bay Water concerning such decision.

22.19 All express representations, indemnifications, or limitations made or given in this Contract shall survive its completion or termination for any reason.

22.20 Any provision or part of this Contract held to be void or unenforceable under any law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Tampa Bay Water and Consultant, which agree that the Contract shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

22.21 Consultant is retained by Tampa Bay Water only for the purposes and to the extent set forth in this Contract, and its relationship with Tampa Bay Water shall, during the term of this Contract, be that of an independent contractor. Consultant shall have the discretion, subject to the requirement that it perform the services required hereunder competently and professionally in accordance with the applicable professional standards and otherwise comply with the terms of this Contract, to select the means and methods of performing such services. In this regard, Consultant shall be fully responsible for the employment, direction, supervision, compensation and control of any and all persons employed or retained by Consultant. Neither Consultant nor Consultant's contractors, subcontractors, Consultants, subconsultants, suppliers, experts or other persons or organizations retained or utilized by Consultant for the services required hereunder ("Subconsultants") shall be considered by reason of the provisions of this Contract or otherwise as being an employee or agent of Tampa Bay Water. Consultant shall comply with all workers' compensation, employers' liability and other Federal, State and county and municipal laws, ordinances and regulations required of an employer performing services as herein contemplated. Provided, however, in no event shall Tampa Bay Water be obligated to pay Consultant any overtime or other premium pay compensation unless such overtime or premium compensation was expressly approved in writing and in

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advance by Tampa Bay Water. Furthermore, Consultant is responsible for paying all income and employment taxes, and Tampa Bay Water shall not be responsible for collecting and/or paying withholding, FUTA, FICA or any other state or federal taxes.

22.22 **TO THE EXTENT PERMITTED BY APPLICABLE LAW, CONSULTANT AND TAMPA BAY WATER HEREBY ACKNOWLEDGE AND AGREE THAT ANY AND ALL CLAIMS ARISING OUT OF, CONNECTED WITH, OR RELATING TO THIS CONTRACT OR THE RELATIONSHIP CREATED HEREBY ARE MATTERS WHICH, IF ADJUDICATED, SHOULD BE ADJUDICATED BY A COURT WITHOUT A JURY. THEREFORE, THE PARTIES HEREBY WAIVE A TRIAL BY A JURY. NEITHER TAMPA BAY WATER NOR CONSULTANT OR ANY SUCCESSOR THEREOF SHALL SEEK A TRIAL BY JURY IN ANY ACTION OR PROCEEDING (WHETHER AT LAW OR IN EQUITY, WHETHER DIRECT OR COLLATERAL, WHETHER IN CONTRACT OR IN TORT) ARISING OUT OF OR RELATED TO THIS CONTRACT OR THE RELATIONSHIP CREATED HEREBY. NEITHER TAMPA BAY WATER NOR CONSULTANT SHALL SEEK TO CONSOLIDATE ANY ACTION OR PROCEEDING IN WHICH TRIAL BY JURY HAS BEEN WAIVED WITH ANY OTHER ACTION OR PROCEEDING IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED. THE PROVISIONS OF THIS PARAGRAPH CANNOT BE AND HAVE NOT BEEN WAIVED. THE PROVISIONS OF THIS PARAGRAPH HAVE BEEN FULLY DISCUSSED BY THE PARTIES AND THEIR RESPECTIVE ATTORNEYS AND THE PROVISIONS HEREOF SHALL BE SUBJECT TO NO EXCEPTIONS. TAMPA BAY WATER AND CONSULTANT ACKNOWLEDGE AND AGREE THAT NO ONE, INCLUDING, WITHOUT LIMITATION, TAMPA BAY WATER'S AGENTS OR CONSULTANTS, HAS REPRESENTED THAT THE PROVISIONS OF THIS PARAGRAPH OR OF ANY OTHER PARAGRAPH OF THIS CONTRACT WILL NOT BE FULLY ENFORCED.**

23.0 SCRUTINIZED COMPANIES AND PUBLIC ENTITY CRIMES STATEMENT

23.1 Consultant represents that it is in compliance with Subsections 287.133(2) and (3), Florida Statutes, which provide that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or Consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

23.2 Consultant represents that it is in compliance with Subsection 287.134(2)(a), Florida Statutes, which provides that an entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real

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property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or Consultant under a contract with any public entity; and may not transact business with any public entity.

23.3 Consultant certifies that it is in compliance with Section 287.135, Florida Statutes, which provides that has been placed on the Scrutinized Companies with Activities in Sudan List; the Scrutinized Companies with Activities in the Iran Petroleum Energy Section List; the Scrutinized Companies that Boycott Israel List or is engaged in a Boycott of Israel is ineligible and may not submit a bid, proposal, or enter into or renew a contract with an agency for goods or services of $1 million or more. At the time of submission of a bid or proposal for a contract or contract renewal for goods or services of $1 million or more, the company must certify that it is not on either such List and further that it does not have business operations in Cuba or Syria as required by Section 287.135(5), Florida Statutes.

23.3.1 Pursuant to Section 287.135, Florida Statutes, Tampa Bay Water reserves the right to terminate any contract for goods or services of $1 million or more if the awarded Consultant:

a. Has been found to have submitted a false Scrutinized Vendor List certification as provided under Section 287.135 subsection (5); or
b. Has been placed on the Scrutinized Companies Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Section List or
c. Has been engaged in business operations in Cuba or Syria.

23.3.2 Pursuant to Section 287.135, Florida Statutes, Tampa Bay Water reserves the right to terminate any contract for goods or services of any amount if the awarded Consultant has been placed on the Scrutinized Companies that Boycott Israel List or is/are engaged in a boycott of Israel.

23.4 FOREIGN COUNTRIES OF CONCERN

Pursuant to Section 287.138, Florida Statutes, Tampa Bay Water may not enter into a contract with an entity that gives access to an individual's personal identifying information if the entity is owned, controlled or organized under the laws of a Foreign County of Concern which includes the :People's Republic of China, the Russian Federation, the Islamic Republic of Iran, the Democratic People's Republic of Korea, the Republic of Cuba, the Venezuelan regime of Nicolas Maduro, the Syrian Arab Republic, or any other entity or agency under the significant control of such Foreign County of Concern.

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IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their duly qualified representatives on the dates set forth below.

WITNESSES:

Signature

Lea Ann Schmolze, Asst. Secretary

Print Name

Gannett Fleming, Inc.

DocuSigned by:

C27650FC538344B...

Signature

Scott B. Burch, Vice President

Title

2/25/2025

Date

(CORPORATE SEAL)

ATTEST:

Charles H. Carden, General Manager

Tampa Bay Water, A Regional Water Supply Authority

By:_____

Its:_____

Date:_____

(SEAL)

APPROVED AS TO FORM:

General Counsel

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INDEX OF SCHEDULES

Schedule A - Scope of Services

Schedule B - Compensation

Schedule C - Tampa Bay Water Administrative Policy 650-15

Schedule D - Certificate of Insurance Form

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SCHEDULE A - SCOPE OF SERVICES

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SCOPE OF WORK

Dam Safety Compliance Engineer of Record Services
C.W. Bill Young Regional Reservoir
Water Year 2025 into Water Year 2030

Task 1 – Annual Downstream Inspection

Perform an Annual Downstream Inspection of the facility focused on the exterior of the dam. This will likely be performed in February or March each water year. Subtasks include:

- Review of Tampa Bay Water data collected throughout the water year
- Review of Tampa Bay Water monthly/weekly inspection reports
- Meet with Tampa Bay Water staff to review dam performance
- Conduct the walking inspection
- Prepare a memorandum to document the inspection
- The findings of this inspection will also be documented in Task 4

Task 2 – Annual Upstream Inspection

Perform an Annual Upstream Inspection of the soil-cement. This will likely be performed in June or July of each water year, during the drawdown of the facility. Subtasks include:

- Review of Tampa Bay Water data collected throughout the water year
- Review of Tampa Bay Water monthly/weekly inspection reports
- Meet with Tampa Bay Water staff to review dam performance
- Conduct the walking inspection
- Prepare a memorandum to document the inspection
- The findings of this inspection will also be documented in Task 4

Task 3 – End of Water Year Inspection

Perform an End of Water Year Inspection of the dam. This will likely be performed in September of each water year. This inspection will review any items noted in previous inspections and observe their status. Subtasks include:

- Review of Tampa Bay Water data collected throughout the water year
- Review of Tampa Bay Water monthly/weekly inspection reports
- Meet with Tampa Bay Water staff to review dam performance
- Conduct the inspection
- The findings of this inspection will also be documented in Task 4

Task 4 – Prior Water Year Annual Reservoir Inspection and Embankment Performance/Monitoring Report

Prepare the Annual Reservoir Inspection and Embankment Performance/Monitoring Report for inclusion in the Comprehensive Annual Reservoir Report. This effort will be completed for the prior water year, to conclude with preparing WY2029 in WY2030. Subtasks include:

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- Review of inspections performed during the water year
- Review of data collected during the water year
- Meet with Tampa Bay Water staff to review dam performance
- Prepare the Annual Summary Reservoir Inspection and Embankment Performance / Monitoring Report

Task 5 – Annual Surface Monument Survey

Perform an Annual Upstream Surface Monument Survey in accordance with the previously established procedure. This will likely be performed in June or July of each water year, during the drawdown of the facility. Subtasks include:

- Provide surveyor to measure upstream surface monuments
- Analyze survey data to determine if movement has been observed in the soil-cement
- Provide survey data and analysis in the memorandum prepared for Task 2

Task 6 – Dam Safety Training

Perform two days of Dam Safety Training events for Tampa Bay Water Staff and Reservoir Security Staff.

Task 7 – Emergency Action Plan Exercise

Perform an Emergency Action Plan (EAP) Tabletop Exercise. Subtasks Include:

- Develop emergency scenarios specific to the Reservoir
- Coordinate with Emergency Management Personnel
- Conduct the EAP tabletop, estimated as one full day
- Conduct a half day site visit
- Prepare After Action Report to document the exercise for submission to the FDEP

Task 8 – Underdrain Inspection and Cleaning

Observe the Underdrain Inspection and Cleaning of the Seepage Collection System. The inspection and cleaning will be performed by others. Subtasks include:

- Provide personnel to observe the inspection and document locations noted by inspection/cleaning team. Assume EIT in the field for 10 hours per day, for 30 days
- Review of inspection and prepare a report to document the inspection and findings

Task 9 – Multibeam/LiDAR Soil-Cement Survey

Perform a Multibeam Survey of the Reservoir soil-cement below the water's surface. Perform photogrammetric drone survey of the soil-cement above the water's surface. Subtasks include:

- Provide survey crew and equipment to perform multibeam survey

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- Perform drone survey with photogrammetry (more accurate than typical airborne LiDAR systems)
- Combine surveys into one ArcGIS model and compare between previous years' surveys
- Prepare online platform for viewing the datasets
- Prepare memorandum of survey and provide all digital files in GIS and CAD format

Task 10 – 84" Pipeline Inspection and Survey

Perform a manned inspection and survey of the 84" Pipeline and Intake Tower. This will likely occur outside of hurricane season. Closing the pipeline valves and dewatering of the pipeline and tower will be performed by others. Coordination with local emergency management personnel to be performed by others. Subtasks Include:

- Provide diving personnel to assist Tampa Bay Water with closing and opening of the tower gates for two trips, one week each.
- Provide emergency management contractor to oversee the confined space entry/exit for two weeks on-site. Contractor to provide equipment for safely entering the pipeline and tower in the dewatered state.
- Provide confined spaced certified personnel to enter and inspect the interior of the pipeline and tower, assumed one week of inspection.
- Provide a confined space certified survey crew to measure the interior horizontal width, vertical height, and invert elevation at each pipeline station, assumed one week of survey.
- Prepare memorandum to document the inspection and survey

Task 11 – Side-Scan Sonar Survey of Reservoir Bottom

Perform a Side-Scan Sonar Survey of the Reservoir floor. Subtasks include:

- Provide survey crew and equipment to perform side-scan survey
- Combine surveys into one ArcGIS model and compare between previous years' surveys
- Prepare online platform for viewing the datasets
- Review of the data by a geophysicist for sinkhole potential
- Prepare memorandum of survey and provide all digital files in GIS and CAD format

Task 12 – Owner's Allowance

This task is assumed as 10% of the total of the tasks for each water year.

Task 13 – Support Services

This task is for ancillary GIS, CAD, or other similar services requested by Tampa Bay Water, on an as needed basis.

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SCHEDULE B - COMPENSATION

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1.0 Compensation for Services

Tampa Bay Water shall pay Consultant and Consultant agrees to accept as full compensation for the Services the compensation as provided in Table B-1, which is attached hereto and made a part hereof. Payment will be computed in accordance with one of the following methods set forth in Administrative Policy 650-15, Schedule "C" hereof: Raw Labor Rate with Multiplier; Hourly Rate-All Inclusive; or Fixed Fee.

2.0 Contract Limit

The limit of this Contract shall not exceed the amount shown in Table B-1 without approval from Tampa Bay Water in the form of a written amendment to this Contract.

3.0 Compensation for Additional Services

Compensation to the Consultant for performance of Additional Services pursuant to Article 11.0 of this Contract, as well as the specific services to be performed and time of completion, shall be determined in a written amendment to this Contract in advance of performance of said Additional Services, unless Tampa Bay Water authorizes in writing compensation for said Additional Services from Tampa Bay Water's Allowance. Non-scope services must be identified by the Consultant prior to their performance. Failure to notify Tampa Bay Water in writing of non-scope services as required above shall be deemed a waiver of any claim by Consultant that such services were non-scope services.

4.0 Time of Payment

Consultant shall submit invoices to Tampa Bay Water by the 20th day of the month for all Services accomplished the previous calendar month, including property closings and properties recommended for eminent domain acquisition. If Tampa Bay Water fails to make any payment due Consultant for services and expenses within sixty (60) days after receipt of Consultant's invoice, Consultant may, after giving seven (7) days written notice to Tampa Bay Water, suspend services under this Contract until it has been paid in full all amounts due Consultant hereunder.

Monthly invoices shall include separately listed charges for all portions of the Services for which compensation applies, including fees for Subconsultants and reimbursable expenses and costs.

5.0 Tampa Bay Water's Allowance

Tampa Bay Water's Allowance is for Tampa Bay Water's use, in the sole discretion of Tampa Bay Water, for the payment for Additional Services beyond the scope of the original Services and for whatever other purpose Tampa Bay Water deems to be in its best interest.

6.0 Late Payments

If Tampa Bay Water fails to make payment to Consultant within the time period set forth herein, any such late payment shall accrue interest at the rate authorized by Law applicable to governmental entities at the time.

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Table B-1

COST ESTIMATE
Tampa Bay Water
Dam Safety Compliance Engineer of Record Services
C.W. Bill Young Regional Reservoir
Water Year 2025 into Water Year 2030

Task		2025*	2026*	2027*	2028*+	2029*+	2030*+
Task 1	Annual Downstream Inspection	$ 80,120	$ 83,325	$ 86,658	$ 90,124	$ 93,729	$ -
Task 2	Annual Upstream Inspection	$ 53,326	$ 55,459	$ 57,677	$ 59,984	$ 62,384	$ -
Task 3	End of Water Year Inspection	$ 37,096	$ 38,580	$ 40,123	$ 41,728	$ 43,397	$ -
Task 4	Prior WY Annual Reservoir Inspection and Performance Report	$ -	$ 38,951	$ 40,509	$ 42,130	$ 43,815	$ 45,567
Task 5	Annual Surface Monument Survey	$ 26,664	$ 27,731	$ 28,840	$ 29,993	$ 31,193	$ -
Task 6	Dam Safety Training	$ 11,593	$ 12,057	$ 12,539	$ 13,041	$ 13,562	$ -
Task 7	Emergency Action Plan Exercise	$ -	$ 56,940	$ -	$ -	$ -	$ -
Task 8	Underdrain Inspection and Cleaning	$ -	$ -	$ 78,048	$ -	$ -	$ -
Task 9	Multibeam/LiDAR Soil-Cement Survey	$ -	$ -	$ -	$ 104,050	$ -	$ -
Task 10	84" Pipeline Inspection and Survey	$ -	$ -	$ -	$ -	$ 154,956	$ -
Task 11	Side-Scan Sonar Survey of Reservoir Bottom	$ -	$ -	$ -	$ -	$ -	$ 118,368
Task 12	Owner's Allowance	$ -	$ 31,304	$ 34,439	$ 38,105	$ 44,304	$ 16,394
Task 13	Support Services	$ -	$ 10,000	$ 10,000	$ 10,000	$ 10,000	$ 10,000
Total by Year		$ 208,799	$ 354,346	$ 388,834	$ 429,155	$ 497,340	$ 190,329

*Rates include a 4% increase each water year for reoccuring tasks
+Estimates for these Water Years are for budgetary purposes only. These costs will be re-visited prior to the renewal period to ensure scope and costs are appropriately captured at that point.

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HOURLY RATE SHEET

Tampa Bay Water

Dam Safety Compliance Engineer of Record Services

C.W. Bill Young Regional Reservoir

Water Year 2025 into Water Year 2030

Gannett Fleming Personnel	2025^	2026*	2027*	2028*	2029*	2030*
Project Principal	$ 319	$ 332	$ 346	$ 360	$ 375	$ 390
Subject Matter Expert	$ 323	$ 336	$ 349	$ 363	$ 378	$ 393
Principal Engineer	$ 271	$ 282	$ 293	$ 305	$ 317	$ 330
Senior Engineer	$ 224	$ 233	$ 242	$ 252	$ 262	$ 273
Engineer	$ 176	$ 183	$ 190	$ 198	$ 206	$ 214
Engineer EIT	$ 130	$ 135	$ 141	$ 146	$ 152	$ 158
Geophysicist	$ 301	$ 313	$ 326	$ 339	$ 352	$ 366
Senior CADD Designer	$ 176	$ 183	$ 190	$ 198	$ 206	$ 214
CADD Designer	$ 129	$ 134	$ 140	$ 145	$ 151	$ 157
Senior GIS Analyst	$ 232	$ 241	$ 251	$ 261	$ 271	$ 282
GIS Analyst	$ 129	$ 134	$ 140	$ 145	$ 151	$ 157
Administrative Assistant	$ 120	$ 125	$ 130	$ 135	$ 140	$ 146

^Current Rates under Contract No. 2020-020

*Rates include a 4% cost of living increase

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SCHEDULE C - TAMPA BAY WATER ADMINISTRATIVE POLICY 650-15

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Tampa Bay Water

ADMINISTRATIVE POLICY AND PROCEDURE DIRECTIVE 650-15

April 1, 2006

Financial Management

Policy to Standardize Consultant Fees Charged to Tampa Bay Water

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OPR: FAM (Ms. Jane Kemerer)
Certified by: FA (Ms. Koni Cassini)
Supersedes: APPD 62-32, September 1, 2004 Pages: 7

I. PURPOSE:

This policy establishes a standardized method for setting fees proposed and/or charged to Tampa Bay Water by consultants and other third parties providing personal/professional services to Tampa Bay Water. These procedures are intended to provide a simplified, efficient mechanism for administering fee structures that will be comparable among entities providing the same or like services.

II. SCOPE:

This policy is applicable to the services of consultants hired directly by Tampa Bay Water and to the services of sub-consultants who perform work for Tampa Bay Water which are charged through to Tampa Bay Water under another consultant's billing. This policy shall be utilized in the process of requesting proposals for services and in the actual billing of services to Tampa Bay Water by the consultants. Personal/professional services include, but are not limited to, companies and individuals providing the following services: engineering; surveying; architectural; auditing; accounting; computer programming and software design; public relations and design; environmental and hydrologic data collection; monitoring and analysis; construction management; land agent services; water supply sampling and testing; records management services; and other as-needed professional or personal services. This Policy does not apply to construction contractors, legal services, or to the purchase of goods and products or the provision of services relative to the maintenance and repair of those goods or products.

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This policy applies to Proposals and Bid requests issued after the effective date of the policy and the resulting contracts/services. It does not apply to contracts existing on or prior to the effective date.

III. POLICY:

A) All individuals or companies providing personal/professional services to Tampa Bay Water shall be required to utilize one of the three methods described below to determine their hourly rate(s) or total fees when proposing and billing fees for services.

B) The specific method to be used must be established by the project manager, with Director approval, at the time Requests for Proposals/Qualifications (RFP) or Bid requests are issued. A single RFP or Bid shall not utilize both the Raw Labor Rate and the Hourly Rate method. However, contracts for both specified tasks and as-needed services may utilize a rate method and a Fixed Fee method when determined by the project manager to be necessary. Requests for Proposals/Qualifications or Bid requests must state the standard fee method required for the services being proposed. Each contract prepared must also contain a fee schedule based on the required method. Furthermore, all contracts issued as a result of a single RFP or Bid must utilize the method specified in the RFP or Bid. Staff is also encouraged to use the same standard fee method for all services of a particular type. (For example, all engineering services would use the same standard fee method, regardless of the specific nature of the tasks or the department requesting the services.)

C) Regardless of which of the following three methods is used, the final Rate or Fixed Fee must reflect the final total rate or fee to be billed to Tampa Bay Water **inclusive of all direct, indirect and overhead costs and profit component.** No additional cost recovery or profit will be allowed in addition to the established Rate or Fixed Fee except as described under "Sub-consultant/Outside Services" and "Out-of-State Travel".

1. **Raw Labor Rate with Multiplier method:**
   For purposes of this policy, the Raw Labor Rate is defined as the gross wage rate per hour earned by or paid to one or more classes of employee of the consultant, without regard to or inclusion of employee benefits, administrative costs or any other costs of the consultant. The permitted billing method is the Raw Labor Rate X (times) a multiplier which shall not exceed 3.33 (multiplier includes all employee benefits, labor overhead, general and administrative overhead, direct charges and profit).

   a) The multiplier to be used for a specific contract or group of contracts shall be established by Tampa Bay Water and stated in the Request for Proposals/Qualifications or Bid request that is published by Tampa Bay Water. Such multiplier will be established by Tampa Bay Water based on

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industry trends, vendor history or such other market indicators as may be available, but in no case shall it exceed the maximum multiplier of 3.33.

b) By revision of this policy, Tampa Bay Water may, but has no obligation to, change its maximum allowable multiplier based on the Consumer Price Index, industry trends or such other market indicators as are determined to be appropriate. Such change shall be made no more frequently than semi-annually and will be effective only for Requests for Proposals/Qualifications/Bids published and contracts executed or amended after the effective date of the policy revision.

2. **Hourly Rate – all inclusive method:**
Total hourly rate all inclusive of labor, employee benefits, labor overhead, general and administrative overhead, direct charges and profit.

3. **Fixed Fee method:**
In those instances where Tampa Bay Water is contracting for a fixed, specified task or tasks and the department director determines it to be in the best interest of Tampa Bay Water, the Request for Proposals/Qualifications/Bids may specify that the vendor shall propose a single all-inclusive Fee for the defined task(s). The Request for Proposals/Qualifications/Bids must state the task(s) to be performed to which the all-inclusive fee applies and must state that no other fees, direct charges or other charges will be paid by Tampa Bay Water to the vendor relative to the defined tasks.

D) Fee Schedules submitted by consultants and other third parties under methods C)1. and C)2. shall be itemized by labor position or function as appropriate for the particular contract.

E) All invoices submitted to Tampa Bay Water for payment for contracts awarded under methods C)1. and C)2. shall show, at a minimum, number of hours worked, dates worked, rate, name and position of personnel performing the work and amount due for the services. Invoices submitted under method C)3. shall show, at a minimum, the dates of service, description of service and amount due for the service. Project Managers may specify inclusion of additional information when needed.

F) **Sub-consultant/Outside Services:**
Sub-consultant or Outside Services in excess of $300 may be submitted to Tampa Bay Water by the lead consultant for reimbursement at actual cost plus an administrative markup not to exceed 5%. Copies of the Sub-consultant/Outside service invoice approved by the consultant must accompany the consultant invoice submitted to Tampa Bay Water. If the executed contract requires that a consultant pay a sub-consultant prior to requesting reimbursement for those costs, the sub-consultant invoice submitted must include the date paid by the consultant. The Sub-consultant/Outside Services invoice shall also adhere to the fee and cost standards

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established by this policy. Reimbursement shall not be made for services or costs that do not comply with this policy or which do not have proper documentation including, but not limited to, invoices, time sheets, travel reports, paid receipts and so forth. Sub-consultant/Outside services include, but are not limited to, services such as rental of highly-specialized equipment which is not used routinely by the consultant, bulk printing of reports, bulk mailings, photography, placement of advertisements and laboratory fees. It does not include rental of vehicles, computers, purchase of software, travel or other expenses which are considered to be direct costs or general and administrative overhead and should be included in the established Rate or Fixed Fee. Reimbursement of lesser amounts or other exceptions is discouraged and requires written project manager approval prior to incurring the cost. The written approval must be itemized for each activity and occurrence. A copy of this prior written approval must be submitted to the Finance Department with the invoice requesting reimbursement.

G) **Direct Charges:**

Direct Charges, as referred to in C), are to be included in the established Rate or Fixed Fee and shall not be considered for additional reimbursement. These costs include, but are not limited to, the following:

- Computer time
- Use of any equipment owned by the consultant. (e.g. vehicles, monitoring equipment, cameras, etc.)
- In-house printing
- Research materials
- Telecommunications (e.g. phones, long distance, facsimiles, networking)
- Postage (including overnight, regular mail and courier services)
- Tolls
- Parking
- Gas
- Vehicle Mileage
- Meals (including business meetings)
- In-State Travel (including, but not limited to, airfare, car rental, hotel and taxi.

H) **Out-of-State Travel:**

For purposes of this policy, Out-of-State Travel is defined as travel between the State of Florida and another point outside the State of Florida by a consultant/sub-consultant or their employee (traveler) which occurs in the performance of tasks authorized by Tampa Bay Water. When an RFP/Bid covers services that require Out-of-State Travel, a provision may be included in the fee arrangement to reimburse the consultant for the Out-of-State Travel subject to the following limitations:

a) Airfare/Mileage:
Tampa Bay Water will reimburse the actual cost of round-trip airfare between the Out-of-State Metropolitan Area where traveler's assigned

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office or residence is located and the Tampa Metropolitan Area or between the Florida Metropolitan Area where traveler's assigned office or residence is located and the temporary Out-of-State work location for each task assigned. If an assigned task requires a stay greater than one week, Tampa Bay Water shall reimburse (1) one additional round-trip airfare between traveler's assigned office area/residence and temporary work location for each included weekend or (2) the actual cost of hotel/lodging for the included weekend(s). Tampa Bay Water reserves the right to specify on a task by task basis whether it will reimburse weekend airfare or lodging depending on the length of time of the tasks and the expected cost. The Tampa Bay Water Project Manager shall make this determination when tasks are assigned. All airfare must be Coach Fare or lower and the lowest available fares and advance booking shall be utilized to minimize cost whenever possible when selecting airlines and schedules. Tampa Bay Water reserves the right to deny reimbursement of airfares that are excessive due to the failure of the traveler to either advance book or to use the most cost effective airlines when they had sufficient notification from Tampa Bay Water to do so.

If a traveler travels by private vehicle rather than air, they will be reimbursed the lesser of (1) the actual vehicle mileage traveled at the mileage rate currently in effect for Tampa Bay Water travelers or (2) the airfare that would have been charged had they elected to fly as determined by Tampa Bay Water.

b) Hotel/Lodging:

For work assignments of one week or less, Tampa Bay Water shall reimburse the actual cost of hotel room or comparable accommodations for the period beginning with the night before the first day of service to Tampa Bay Water and ending on the night of the last day of service to Tampa Bay Water. Nights before and after this period including holiday nights and weekend nights will not be reimbursed unless the consultant is actually working for Tampa Bay Water on the holiday or week-end days. If an assigned task requires a stay greater than one week, Tampa Bay Water shall reimburse for (1) one additional round-trip airfare between traveler's assigned office area/residence and temporary work location for each included weekend or (2) the actual cost of hotel/lodging for the included weekend(s) as described in a) above. If the assignment is to last for an extended period of time beyond one month and the traveler obtains lodging on a monthly basis which is clearly less costly than other lodging alternatives, Tampa Bay Water shall reimburse that lodging cost as well as the cost of one round-trip airfare per month for the traveler to return to their home. Reimbursement of actual hotel/lodging costs shall be limited to 115% of the GSA published per diem rate for the specific city or Metropolitan area plus applicable taxes. (See http://policyworks.gov/org/main/mt/homepage/mtt/perdiem/perd03d.html or www.gsa.gov "per diem rates".)

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c) Shuttle/Taxi:
Tampa Bay Water will reimburse the cost of shuttle service/taxi from airport to hotel and between the hotel and temporary work location(s). Transportation to meal locations is included in the M&IE per diem and will not be reimbursed under this part. There will be no reimbursement for transportation from traveler's home or assigned office to airport, including the cost of airport parking.

d) Rental Car:
The cost of a rental car at the location of temporary assignment will be reimbursed when use of a vehicle is necessary or when it is the most cost-effective transportation available for commuting between hotel and work location(s). Reimbursement will be limited to economy or compact class of vehicles, except that another class may be used if the cost for the period of use is lower than or equal to the cost of the economy or compact class for the same period. Consultant must provide evidence of this cost savings. If another type of vehicle is required for the tasks assigned, this must be approved in writing by the project manager prior to reimbursement.

e) Meal and incidental expense (M&IE):

Meals will be reimbursed at the MI&E rate currently in effect as published by the General Services Administration (GSA) for overnight travel only. There will be no meal per diem for travel which does not include an overnight stay. A meal per diem will not be paid for weekends and holidays unless the traveler is actually working for Tampa Bay Water on those days and such hours of work are documented by an approved time sheet.

The M&IE allowance is established periodically by the GSA and varies by area of the country traveled to. Effective April 1, 2006 (for contracts resulting from requests for proposals or bids issued on or after that date) Tampa Bay Water will utilize the GSA rates in effect on that date, as approved by the Board of Directors. Subsequently, such rates will be adjusted to the GSA rates whenever the GSA publishes revised rates. The GSA normally changes its rates on October 1 of each year and may also make interim changes to the rate schedules. It shall be the responsibility of every traveler to check the current rates for their travel destination and dates of travel on the GSA website. www.gsa.gov. [Click on "e-tools", then on "Per Diem Rates".]

The full GSA M&IE rate will be paid for a full day (midnight to midnight) of travel. The traveler will be compensated at 75% of the full rate for the day of departure and the day of return. (E.g. if the full rate is $39, the traveler will receive $29.25 for the day of departure and $29.25 for the day of return and $39 for any intervening days.) If the cost of one or more meals in included in the registration fee for an activity, the per diem

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payable to the traveler will be reduced for each meal so included based on the GSA's Meals and Incidental Expense Breakdown at www.gsa.gov.

The M&IE allowance includes the cost of meals and incidental expenses (tips at restaurants and hotels, tips for baggage handling and transportation between the business location and places where meals are taken). No further amounts shall be reimbursed for those items.

f) Supporting Documentation:
The following supporting documentation must be included with any request for reimbursement of Out-of-State Travel costs:

(1) Tampa Bay Water Travel Reimbursement Form for Consultants, completed with dates and times of travel, days worked for Tampa Bay Water, detail of expenses incurred and business purpose.
(2) Copy of airline ticket and boarding pass as proof of travel.
(3) Copy of paid hotel/lodging bill.
(4) Copy of receipt for taxi/shuttle if greater than $10.00 individually or $25.00 in the aggregate.
(5) Copy of paid rental car invoice/agreement.

g) Travel Costs not listed in a) through e) or not documented in accordance with f) shall not be reimbursed.

h) Tampa Bay Water shall not reimburse the travel costs of any individual if the work assignment for that individual is expected to last longer than one year. (Such assignments are deemed indefinite in accordance with the Internal Revenue Service regulations and, as such, do not constitute deductible travel expenses to the traveler.)

JERRY L. MAXWELL
General Manager

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SCHEDULE D - CERTIFICATE OF INSURANCE FORM or APPROVED ACORD FORM [Either of the attached Forms is acceptable]

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/1/2025 | 05/24/2024

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 Lockton Companies, LLC 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000 kcasu@lockton.com	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:
INSURED GANNETT FLEMING, INC. 1361922 AND ALL SUBSIDIARIES 207 SENATE AVENUE CAMP HILL PA 17011-2316	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : Continental Casualty Company — 20443 INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES CERTIFICATE NUMBER: 16783676 REVISION NUMBER: XXXXXXX

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	
	COMMERCIAL GENERAL LIABILITY			NOT APPLICABLE			EACH OCCURRENCE	$ XXXXXXX
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ XXXXXXX
							MED EXP (Any one person)	$ XXXXXXX
							PERSONAL & ADV INJURY	$ XXXXXXX
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ XXXXXXX
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$ XXXXXXX
	OTHER:							$
	AUTOMOBILE LIABILITY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident)	$ XXXXXXX
	☐ ANY AUTO						BODILY INJURY (Per person)	$ XXXXXXX
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$ XXXXXXX
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$ XXXXXXX
								$
	☐ UMBRELLA LIAB ☐ OCCUR			NOT APPLICABLE			EACH OCCURRENCE	$ XXXXXXX
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$ XXXXXXX
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N			NOT APPLICABLE			☐ PER STATUTE ☐ OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ (Mandatory in NH)	N/A					E.L. EACH ACCIDENT	$ XXXXXXX
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ XXXXXXX
							E.L. DISEASE - POLICY LIMIT	$ XXXXXXX
A	PROF LIAB	N	N	AEH 591957881	12/01/2024	12/01/2025	$10,000,000 PER CLAIM / AGG	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
067780 Contract No. 2020-020, Dam Safety Compliance Engineer of Record Services for the C.W. Bill Young Regional Reservoir

CERTIFICATE HOLDER

16783676
TAMPA BAY WATER
2575 ENTERPRISE ROAD
CLEARWATER FL 33763-1102

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

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ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 2/1/2024

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 Gunn-Mowery P.O. Box 900 Camp Hill PA 17001-0900	CONTACT NAME: Fir Le PHONE (A/C, No, Ext): 717-761-4600, Ext. 3715 FAX (A/C, No): 717-761-6159 E-MAIL ADDRESS: Fle@GunnMowery.com
INSURED 6895 Gannett Fleming, Inc. 207 Senate Ave. Camp Hill, PA 17011-2316	INSURER(S) AFFORDING COVERAGE / NAIC # INSURER A : PA Manufacturers Indemnity Co. 41424 INSURER B : PA Manufacturers' Assoc Ins Co. 12262 INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 1246508769 **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	X COMMERCIAL GENERAL LIABILITY	Y	Y	3024012907384A	2/1/2024	2/1/2025	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE [X] OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
	X Contractual Liab						MED EXP (Any one person)	$ 10,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	$ 1,000,000
	POLICY [X] PRO-JECT [ ] LOC						GENERAL AGGREGATE	$ 2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	$ 2,000,000
								$
A	AUTOMOBILE LIABILITY	Y	Y	1524012907384A	2/1/2024	2/1/2025	COMBINED SINGLE LIMIT (Ea accident)	$ 2,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB [ ] OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB [ ] CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N		Y	2024012907384A	2/1/2024	2/1/2025	X PER STATUTE [ ] OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] (Mandatory in NH)	N/A					E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
			Y					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Blanket Additional Insured applies per written contract.
067780 Contract No. 2020-020, Dam Safety Compliance Engineer of Record Services for the C.W. Bill Young Regional Reservoir. The following are considered as Additional Insureds for General Liability and Automobile Liability policies as per written contract: Tampa Bay Water, its directors, officers, employees, representatives, designated agents, and volunteers. Coverages apply on a Primary and Non-Contributory basis per policy language. Waiver of Subrogation applies as respects General Liability and Automobile Liability.

CERTIFICATE HOLDER

TAMPA BAY WATER
2575 ENTERPRISE ROAD
CLEARWATER FL 33763-1102

CANCELLATION 90

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

Jamie E. Bostic

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
AS REQUIRED BY WRITTEN CONTRACT	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

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 additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

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(Ed. 7-12)

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION – OTHER

The following condition is added to this policy:

SCHEDULE

Name of Person(s) or Organization(s)
CERTIFICATE HOLDER(S) WITH MAILING ADDRESS ON FILE WITH AGENT OF RECORD WHO WERE ISSUED A CERTIFICATE OF INSURANCE APPLICABLE TO THIS POLICY TERM

Mailing Address

Number of Days
90

If this policy is cancelled, we agree that the person(s) or organization(s) listed in the Schedule will be notified at least:

1. Thirty (30) days prior to the effective date of cancellation if we cancel for non-payment of premium; or,
2. The number of days indicated in the Schedule above, prior to the effective date of cancellation if we cancel for any other reason; or,
3. The minimum number of days required by the jurisdiction to which this endorsement applies if such requirement is greater than **1.** and **2.** above.

If such notice of cancellation is mailed, proof of mailing to the address shown in the Schedule above will be sufficient proof of notice.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.
(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective **02-01-24** Policy No. **202401-29-07-38-4A** Endorsement No.

Insured **GANNETT FLEMING INC.** Premium $ **INCL.**

Insurance Company **PMI**

Countersigned By Janice Bolton

POLICY NUMBER: 152401-29-07-38-4A

COMMERCIAL AUTO
CA 20 48 10 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED FOR COVERED AUTOS LIABILITY COVERAGE

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" for Covered Autos Liability Coverage under the Who Is An Insured provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured:
Endorsement Effective Date:

SCHEDULE

Name Of Person(s) Or Organization(s):
ANY PERSON OR ORGANIZATION WITH WHOM YOU HAVE AGREED IN A WRITTEN CONTRACT, EXECUTED PRIOR TO LOSS TO NAME AS ADDITIONAL INSURED.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Each person or organization shown in the Schedule is an "insured" for Covered Autos Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Paragraph **A.1.** of Section **II** – Covered Autos Liability Coverage in the Business Auto and Motor Carrier Coverage Forms and Paragraph **D.2.** of Section **I** – Covered Autos Coverages of the Auto Dealers Coverage Form.

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INSURED COPY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
AS REQUIRED BY WRITTEN CONTRACT	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

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;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

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POLICY NUMBER: 302401-29-07-38-4A

PIL 02 35 09 10

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NOTICE OF CANCELLATION – OTHER

This endorsement modifies coverage provided under the following:

CAPITAL ASSETS PROGRAM (OUTPUT POLICY) COVERAGE PART
COMMERCIAL AUTOMOBILE COVERAGE PART
COMMERCIAL EXCESS COVERAGE LIABILITY COVERAGE PART
COMMERCIAL GENERAL LIABILITY COVERAGE PART
COMMERCIAL INLAND MARINE COVERAGE PART
COMMERCIAL LIABILITY UMBRELLA COVERAGE PART
COMMERCIAL PROPERTY COVERAGE PART
CRIME AND FIDELITY COVERAGE PART
EMPLOYMENT-RELATED PRACTICES LIABILITY COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
POLLUTION LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following condition is added to this policy:

SCHEDULE

Name of Person(s) or Organization(s) CERTIFICATE HOLDER(S) WITH MAILING

Mailing Address ADDRESS ON FILE WITH THE AGENT OF RECORD WHO WERE ISSUED A CERTIFICATE OF INSURANCE APPLICABLE TO THIS POLICY TERM

Number of Days 90

If this policy is cancelled, we agree that the person(s) or organization(s) listed in the Schedule will be notified at least:

1. Ten (10) days prior to the effective date of cancellation if we cancel for non-payment of premium; or,
2. The number of days indicated in the Schedule above, prior to the effective date of cancellation if we cancel for any other reason; or,
3. The minimum number of days required by the jurisdiction to which this endorsement applies if such requirement is greater than **1.** or **2.** above.

If such notice of cancellation is mailed, proof of mailing to the address shown in the Schedule above will be sufficient proof of notice.

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SCHEDULE E - TAMPA BAY WATER AFFIDAVIT FORM

Docusign Envelope ID: 2EDA1924-9EEF-4803-8D41-96A63C1A1BFA

TAMPA BAY WATER
CONTRACTOR/CONSULTANT/VENDOR AFFIDAVIT

STATE OF Florida
COUNTY OF Duval

BEFORE ME, the undersigned authority, appeared Scott Burch, PE, who first being duly sworn hereby swears or affirms as follows:

1. I make this affidavit on personal knowledge.

2. I am over the age of 18 years and otherwise confident to make this Affidavit.

3. I am the Vice President of Gannett Fleming, Inc. (the "Contractor/Consultant/Vendor").

4. I am authorized by Gannett Fleming, Inc. to make this Affidavit on behalf of Contractor/Consultant/Vendor.

E-Verify

1. Contractor/Consultant/Vendor acknowledges that Section 448.09, Florida Statutes, makes it unlawful for any person to knowingly employ, hire, recruit, or refer, for private or public employment, an alien who is not duly authorized to work in the United States.

2. Contractor/Consultant/Vendor acknowledges that Section 448.095, Florida Statutes, prohibits public employers, contractors, and subcontractors from entering into a contract unless each party to the contract registers and uses E-Verify.

3. Contractor/Consultant/Vendor is in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes.

4. Contractor/Consultant/Vendor understands it shall remain in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes, during the term of any contract with Tampa Bay Water.

5. Contractor/Consultant/Vendor's subcontractors are in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes.

6. Contractor/Consultant/Vendor shall ensure compliance with the requirements of Sections 448.09 and 449.095, Florida Statutes, by any and all of its subcontractors.

7. Neither the Contractor/Consultant/Vendor, nor any subcontractor of Contractor/Consultant/Vendor, has had a contract terminated by a public employer for violating Section 448.095, Florida Statutes, within the year preceding the date of this Affidavit.

8. If the Contractor/Consultant/Vendor, or any subcontractor of Contractor/Consultant/Vendor, has a contract terminated by a public employer for any such violation during the term of any contract with Tampa Bay Water, it shall provide immediate notice thereof to Tampa Bay Water.

Anti-Human Trafficking

In accordance with Section 787.06(13), Florida Statues, the undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury that Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes, entitled "Human Trafficking".

Scrutinized Companies

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A. Pursuant to Subsections 287.133(2) and (3), Florida Statutes, Respondent acknowledges that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal on a Contract provide any goods or services to a public entity, may not submit a Proposal on a Contract with a public entity for the construction or repair of a public building or public work, may not submit Proposals on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a Contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

B. Pursuant to Subsection 287.134(2)(a), Florida Statutes, Respondent acknowledges that an entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; an may not transact business with any public entity.

C. Pursuant to Section 287.135, Florida Statutes, Respondent acknowledges that a company that has been placed on the Scrutinized Companies with Activities in Sudan List; the Scrutinized Companies with Activities in the Iran Petroleum Energy Section List; or the Scrutinized Companies that Boycott Israel List or a company that engages in a boycott of Israel, is ineligible and may not submit a bid, proposal, or enter into or renew a contract with an agency for goods or services of $1 million or more. At the time of submission of a proposal for a contract or contract renewal for goods or services of $1 million or more, the company must certify that it is not on either such List and further that it does not have business operations in Cuba or Syria as required by Section 287.135(5), Florida Statutes.

D. Pursuant to Section 287.135, Florida Statutes, Respondent acknowledges that Tampa Bay Water has the option to terminate any contract for goods or services of $1 million or more if the awarded company is found to have submitted a false certification as provided under Section 287.135(5), been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or been engaged in Business operations in Cuba or Syria.

E. Pursuant to Section 287.135, Florida Statutes, Respondent acknowledges that Tampa Bay Water has the option to terminate any contract for good or services of any amount if the awarded company is found to have or been placed on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel.

Foreign Countries of Concern

Pursuant to Section 287.138, Florida Statues, Tampa Bay Water may not enter into a contract with an entity that gives access to an individual's personal identifying information if the entity is owned, controlled or organized under the laws of a Foreign Country of Concern which includes the People's Republic of China, the Russian Federation, the Islamic Republic of Iran, the Democratic People's Republic of Korea, the Republic of Cuba, the Venezuelan regime of Nicolas Maduro, the Syrian Arab Republic, or any other entity or agency under the significant control of such Foreign Country of Concern.

Docusign Envelope ID: 2EDA1924-9EEF-4803-8D41-96A63C1A1BFA

Signature of Affiant
on behalf of Contractor/Consultant/Vendor

By: Scott Burch, PE
As its: Vice President, Gannett Fleming, Inc.
Dated: January 8, 2025

Sworn to (or affirmed) and subscribed before me by means of ☐ physical presence or ☒ online notarization, this 8th day of January, 2025, by Scott Burch, PE, on behalf of Gannett Fleming, Inc., who is personally known to me or who has produced _____ as identification.

JILL S. REYNOLDS
MY COMMISSION # HH 084965
EXPIRES: May 3, 2025
Bonded Thru Notary Public Underwriters

Print Name: Jill S Reynolds
Notary Public of the State of Florida

My Commission Expires: May 3, 2025

docusign

Certificate Of Completion

Envelope Id: 2EDA1924-9EEF-4803-8D41-96A63C1A1BFA
Status: Completed
Subject: Complete with Docusign: 2025043 Dam Safety Compliance Engineer-Conformed_02.25.2025.pdf
Source Envelope:
Document Pages: 48
Signatures: 1
Certificate Pages: 4
Initials: 0
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Envelope Originator:
Merrie B Mitchell
207 Senate Avenue
Camp Hill, PA 17011-2316
mbmitchell@GFNET.com
IP Address: 73.104.35.222

Record Tracking

Status: Original
2/25/2025 11:07:26 AM
Holder: Merrie B Mitchell
mbmitchell@GFNET.com
Location: DocuSign

Signer Events	Signature	Timestamp
Scott Burch sburch@gfnet.com Security Level: Email, Account Authentication (None)	DocuSigned by: C27650FC538344B...	Sent: 2/25/2025 11:09:13 AM Viewed: 2/25/2025 2:15:58 PM Signed: 2/25/2025 2:16:19 PM
	Signature Adoption: Uploaded Signature Image Using IP Address: 12.42.81.26	

Electronic Record and Signature Disclosure:
Accepted: 2/25/2025 2:15:58 PM
ID: ecd02244-6e88-4293-a98d-419166b8568b

In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	2/25/2025 11:09:13 AM
Certified Delivered	Security Checked	2/25/2025 2:15:58 PM
Signing Complete	Security Checked	2/25/2025 2:16:19 PM
Completed	Security Checked	2/25/2025 2:16:19 PM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, Gannett Fleming (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a $0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact Gannett Fleming:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: legaldept@gfnet.com

To advise Gannett Fleming of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at legaldept@gfnet.com and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from Gannett Fleming

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to legaldept@gfnet.com and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with Gannett Fleming

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to legaldept@gfnet.com and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify Gannett Fleming as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by Gannett Fleming during the course of your relationship with Gannett Fleming.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.11

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Independent Annual Financial Statement Audit, and As-Needed Services for Fiscal Year 2025 Fees - *Approve*

SUMMARY

Mauldin & Jenkins, LLC, is our independent financial auditor. They perform the annual audit of the financial statements and fulfill federal and state auditor reporting requirements, as well as prepare other special reports as needed. The estimated fees in fiscal year 2025 total $162,500.

SUGGESTED ACTION

Approve Audit fees for Fiscal Year 2025.

COST/FUNDING SOURCE

$162,500 - Approved FY2025 Uniform Rate

DISCUSSION

Our independent financial auditors perform the annual audit of the financial statements of Tampa Bay Water, fulfill the federal and state auditor reporting requirements, and prepare other special reports as needed. For fiscal year 2025, the estimated financial auditing services total $162,500, this includes the base audit fee of $139,300. In addition, $23,200 is budgeted for as-needed single audit fees that may be

needed to meet the requirements of grant agreements with the Southwest Florida Water Management District, Environmental Protection Agency and/or other state/federal agencies.

BACKGROUND

The Agency has an annual audit of its financial statements performed by an independent certified public accounting firm to meet the requirements of the Amended and Restated Interlocal Agreement, the Master Water Supply Contract, bond resolutions, federal grant agreements and various state statutes.

Mauldin & Jenkins, LLC was approved, as the agency's independent financial auditors, by the Board in April 2022, through use of the Florida Department of Management Services (DMS) Contract 841116200-20-1, between the Florida Department of Management Services and Mauldin & Jenkins, LLC for Financial Auditing Services. Per the DMS instructions, the Purchasing Department sent a Request for Quotations and a Scope of Work to eight (8) of the awarded DMS Contractors. Four (4) Contractors responded. Submittals were evaluated by the Chief Financial Officer and the Finance Manager, in categories of Relevant Experience, Fees, Audit Approach and Firm Organization and Structure. The contract expires on February 28, 2027.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.12

DATE: March 1, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Contract Option Year Renewals - *Approve*

SUMMARY

The attached contracts are current expiring contracts that have option years available. Staff wishes to exercise their option year renewals.

SUGGESTED ACTION

Approve contract renewals.

COST/FUNDING SOURCE

Uniform Rate

DISCUSSION

Tampa Bay Water has a number of contracts each year that are available to renew for additional option years. Purchasing and agency staff have reviewed the contracts summarized in the attached document and have determined that they continue to be of value and are necessary to the operation of Tampa Bay Water. The vendors/consultants have agreed, in writing, that they are agreeable to renew the available option year as prescribed in the original contracts' terms and conditions.

The original terms and conditions of the contracts remain unchanged. All original contracts were approved by the Board and therefore renewals must be provided to the Board for review and approval of each renewal option year.

The contract renewals have been reviewed and approved by Tampa Bay Water General Counsel's Office.

Attachments (4)

Contract Amendment Consent-March 2025
2024-008 Renewal Ltr Notification-Signed
2024-009 Renewal Ltr Notification-Signed
2022-058 Renewal Ltr Notification-Opt Yr 3-Vendor Signed

CONTRACT AMENDMENTS EXECUTED FOR CONSENT APPROVAL - MARCH 2025

CONTRACT NAME/DESCRIPTION OF SERVICES	CONTRACT NUMBER	CONTRACTOR	ANNUAL AMOUNT	APPROVAL DATE	RENEWAL/ AMENDMENT #	ORIGINAL EXPIRATION	EXTENDED THROUGH	FUNDING SOURCE
WATER STORAGE TANK CLEANING & INSPECTION SERVICES	2024-008	IN DEPTH INC.	$200,000.00	10/16/2023	1 OF 3	3/30/2025	3/30/2026	UNIFORM RATE
WATER STORAGE TANK CLEANING & INSPECTION SERVICES	2024-009	RAZORBACK LLC	$400,000.00	10/16/2023	1 OF 3	3/30/2025	3/30/2026	UNIFORM RATE
AS NEEDED DOMESTIC WELL DRILLING SERVICES	2022-058	CITRUS PARK WELL DRILLING & IRRIGATION	$400,000.00	6/20/2022	3 OF 3	6/30/2023	6/30/2026	UNIFORM RATE

TAMPA BAY WATER
Supplying Water To The Region

Board of Directors
Harry Cohen
Lisset Hanewicz
Chopper Davis
Dave Eggers
Jack Mariano
Charlie Miranda
Ron Oakley
Brian Scott
Joshua Wostal

General Manager
Charles H. Carden

General Counsel
Kelly M. Fernandez
Persson, Cohen, Mooney, Fernandez & Jackson, P.A.

December 12, 2024

In Depth Inc.
1473 Old Haw Creek Road
Bunnell, FL 32110
386-202-2771

Attention: Zachary Rogers, President

Re: Tampa Bay Water Contract No. 2024-008 – Amendment One – Option Year One
Water Storage Tank Cleaning & Inspection Services

Dear Mr. Rogers:

The current contract for Water Storage Tank Cleaning & Inspection Services between Tampa Bay Water and In Depth Inc. expires on March 30, 2025. As outlined in Section 2.0, Term, the contract may be extended for three (3) years, one (1) year at a time, or any portion thereof, under terms acceptable to both parties. Please accept this letter as confirmation that Tampa Bay Water wishes to exercise the first option to renew the contract with the same terms and conditions through March 30, 2026. We also request written confirmation **no later than the end of business on January 2, 2025**, that In Depth Inc. agrees to exercise this contract renewal option. If agreed, the second page of this letter should be signed by an authorized representative and returned to me at the address below. In addition, please forward updated Certificates of Insurance per the terms of the contract to Tampa Bay Water Purchasing at the Tampa Bay Water address or via email to purchasing@tampabaywater.org.

Upon agreement, Tampa Bay Water will present the renewal request at the Board of Directors meeting on March 17, 2025, and the renewal will take effect on April 1, 2025.

Thank you for your prompt attention to this request and we look forward to our on-going business with you. Please contact me directly with any questions.

Sincerely,

Stacy Gundry, CPSM, CPPB, CPCP
Purchasing & Warehouse Manager
sgundry@tampabaywater.org
727-669-4825

In Depth Inc. agrees to extend Contract No. 2024-008, for Water Storage Tank Cleaning & Inspection Services through March 30, 2026, under the same terms and conditions of the original contract.

In Depth Inc.

Signature: _____

Print Name: Zach Rogers

Title: President

Date: 12/12/24

TAMPA BAY WATER
Supplying Water To The Region

Board of Directors
Harry Cohen
Lisset Hanewicz
Chopper Davis
Dave Eggers
Jack Mariano
Charlie Miranda
Ron Oakley
Brian Scott
Joshua Wostal

General Manager
Charles H. Carden

General Counsel
Kelly M. Fernandez
Persson, Cohen, Mooney, Fernandez & Jackson, P.A.

December 12, 2024

Razorback LLC
177 Anclote Road
Tarpon Springs, FL 34689
727-938-9500

Attention: Anthony Houllis, MGMR

Re: Tampa Bay Water Contract No. 2024-009 – Amendment One – Option Year One
Water Storage Tank Cleaning & Inspection Services

Dear Mr. Houllis:

The current contract for Water Storage Tank Cleaning & Inspection Services between Tampa Bay Water and Razorback LLC expires on March 30, 2025. As outlined in Section 2.0, Term, the contract may be extended for three (3) years, one (1) year at a time, or any portion thereof, under terms acceptable to both parties. Please accept this letter as confirmation that Tampa Bay Water wishes to exercise the first option to renew the contract with the same terms and conditions through March 30, 2026. We also request written confirmation **no later than the end of business on January 3, 2025**, that Razorback LLC agrees to exercise this contract renewal option. If agreed, the second page of this letter should be signed by an authorized representative and returned to me at the address below. In addition, please forward updated Certificates of Insurance per the terms of the contract to Tampa Bay Water Purchasing at the Tampa Bay Water address or via email to purchasing@tampabaywater.org.

Upon agreement, Tampa Bay Water will present the renewal request at the Board of Directors meeting on March 17, 2025, and the renewal will take effect on April 1, 2025.

Thank you for your prompt attention to this request and we look forward to our on-going business with you. Please contact me directly with any questions.

Sincerely,

Stacy Gundry

Stacy Gundry, CPSM, CPPB, CPCP
Purchasing & Warehouse Manager
sgundry@tampabaywater.org
727-669-4825

Razorback LLC agrees to extend Contract No. 2024-009, for Water Storage Tank Cleaning & Inspection Services through March 30, 2026, under the same terms and conditions of the original contract.

Razorback LLC

Signature: _____

Print Name: Anthony Houllis

Title: MGRM

Date: 12/13/2024

TAMPA BAY WATER
Supplying Water To The Region

Board of Directors
Harry Cohen
Lisset Hanewicz
Chopper Davis
Dave Eggers
Jack Mariano
Charlie Miranda
Ron Oakley
Brian Scott
Joshua Wostal

General Manager
Charles H. Carden

General Counsel
Kelly M. Fernandez
Persson, Cohen, Mooney, Fernandez & Jackson, P.A.

January 29, 2025

Citrus Park Well Drilling & Irrigation, Inc.
Attention: Christopher D. Collett, Vice President
10700 47th Street
Clearwater, FL 33762

Re: Tampa Bay Water Contract No. 2022-058
As Needed Domestic Well Drilling Services

Dear Mr. Collett:

The current contract for As Needed Domestic Well Drilling Services between Tampa Bay Water and Citrus Park Well Drilling & Irrigation, Inc. expires on June 30, 2025. As outlined in Section 4.1, Period of Service, the contract may be extended for three (3) years, one (1) year at a time, or any portion thereof, under terms acceptable to both parties. Please accept this letter as confirmation that Tampa Bay Water wishes to exercise the third option to renew the contract with the same terms and conditions through June 30, 2026. We also request written confirmation no later than the end of business on February 11, 2025 that Citrus Park Well Drilling & Irrigation, Inc. agrees to exercise this contract renewal option. If agreed, the second page of this letter should be signed by an authorized representative and returned to me at the address below. In addition, please forward updated Certificates of Insurance per the terms of the contract to Tampa Bay Water Purchasing at the Tampa Bay Water address or via email to purchasing@tampabaywater.org.

Upon agreement, Tampa Bay Water will present the renewal request at the Board of Directors meeting on March 17, 2025 and the renewal will take effect on July 1, 2025.

Thank you for your prompt attention to this request and we look forward to our on-going business with you. Please contact me directly with any questions.

Sincerely,

Lynn Lozano

Lynn Lozano, PACE, PPA
Purchasing Specialist I
llozano@tampabaywater.org
727-791-2353

Citrus Park Well Drilling & Irrigation, Inc. agrees to extend Contract No. 2022-058, for As Needed Domestic Well Drilling Services through June 30, 2026 under the same terms and conditions of the original contract.

Citrus Park Well Drilling & Irrigation, Inc.

Signature: _____

Print Name: Christopher Collett

Title: Vice President

Date: 02/03/2025

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM A.13

DATE: March 5, 2024

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Procurement Exceptions Vendor Limits - *Approve*

SUMMARY

Tampa Bay Water's Purchasing Policy, Resolution 2014-002, provides procurement exceptions and delegates authority to the General Manager for acquiring equipment, supplies and services less than or equal to $100,000. The Agency has procured equipment, supplies and services from the attached list of vendors through these procurement exceptions and the cumulative amount per vendor will reach the $100,000 maximum approval amount of the General Manager and requires Board approval.

SUGGESTED ACTION

Approve, continuing procurement through the various procurement exceptions, with each listed vendor, and exceeding the $100,000 total spend, limited to the Board-approved budget amounts.

COST/FUNDING SOURCE

Uniform Rate

DISCUSSION

Tampa Bay Water's Purchasing Policy, Resolution 2014-002, provides procurement exceptions to the utilization of the sealed competitive bid procedure or request for competitive sealed proposals and delegates authority to the General Manager for acquiring equipment, supplies and services less than or

equal to $100,000. Current interpretation of this delegated amount, is the total amount spent with a vendor, from the beginning of Tampa Bay Water to date, and not per procurement or fiscal year. The Agency has used the attached list of vendors to provide equipment, supplies and services procured through the various procurement exceptions approved in the purchasing policy. The cumulative amount per vendor spent over the lifetime of the Agency has reached or will reach the $100,000 maximum approval amount of the General Manager and requires Board approval. Staff recommends continuing procurement through the various procurement exceptions, with each listed vendor on the attachment, and Board approval to exceed the $100,000 in total spend, limited to the Board approved budget amounts.

BACKGROUND

Tampa Bay Water's preferred method for acquiring equipment, supplies and services costing more than the existing bid limit, $35,000, is by sealed competitive bidding or by request for competitive sealed proposals. Exceptions to the utilization of the sealed competitive bid procedure or request for competitive sealed proposals for those purchases above the existing bid limit are:

1. Emergency Purchases
2. Sole Source Purchases
3. Cooperative Purchases
4. Direct Purchase of Construction Material
5. Interlocal/Intergovernmental Agreements
6. Grants
7. Labor and Employment Agreements
8. Insurance Agreements and Policies
9. Public Art
10. Judgements, settlements and opposing party's legal fees and reimbursed costs
11. Software support agreements
12. Mitigation reimbursement to complainants
13. Florida Retirement System
14. Payroll Taxes
15. Real Estate
16. Real Estate Appraisers
17. Outside Legal Services
18. Expert Witness Services
19. Securities, Financing and Bond Agreements
20. Principal and Interest Payments on debt instruments and all associated issuance costs (all issuance of debt are approved by the Board of Directors)
21. Banking Services
22. Postage
23. Telephone Services
24. Advertising
25. Dues and Memberships

26. Books and Subscriptions
27. Transportation and Travel
28. Employee Attendance at Education and Training Seminars
29. Disbursements from Petty Cash
30. Mandatory fees to government agencies (vehicle registrations, permit fees, professional and occupational licenses, trash and sewer assessments, etc.)
31. Utility Services
32. Negotiated Procurements after Rejection of All Bids/Proposals
33. Contracts for professional services pursuant to Section 287.055 FS (CCNA)
34. Other instances where exceptions are provided State or local law Purchases more than $100,000 require the approval of the Board.

Attachment (1)

Additional Fiscal Year 2025 Vendor List over $100K

Vendor Name	Vndr #
AMPL Optimization Inc.	7266
APG Electric, Inc.	6970
Arcadis Usa Inc.	5203
Archivesocial Inc.	2043
AT&T Mobility II, LLC	4541
Bentley Systems Inc	942
Big Sea, Inc.	6819
Bluebeam Inc.	7071
Bright House Networks Llc	795
Caseware International Inc.	6233
Clinisys, Inc	7103
DG Investment Intermediate Holdings 2, Inc	6967
Digi International Inc.	6478
Eigenvector Research Inc.	7227
Elert & Associates Networking Division, Inc.	6088
Emc Corporation	5009
Energy Cap, Llc	6383
Hazen Sawyer, P.C.	2923
In-Situ Inc.	4087
Interpro Solutions, Llc	7102
Keymark, Inc.	5854
Lastpass	6472
Netwrix Corporation	6424
Ontracks Enterprises Inc	6363
Pantheon Systems Inc.	6758
Red Gate Software, Ltd.	4439
Safe Software	6646
Schneider Electric Usa, Inc	5760
Skm Systems Analysis Inc	6027
Verizon Wireless Communications Llc	3778
Water Information Sharing And Analysis Center	3531
Zoho Corporation	6816
Zoom Video Communications, Inc.	6588

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM B.1

DATE: March 3, 2025

TO: Board of Directors

FROM: Charles H. Carden, General Manager

SUBJECT: General Manager's Report - *Receive Report*

SUMMARY The General Manager will provide an update on agency programs and activities.
SUGGESTED ACTION Receive Report.
COST/FUNDING SOURCE N/A

DISCUSSION

Regional System Update

Regional environmental conditions are good, and the regional system is performing very well. In February we projected demands to be 195.0 million gallons per day (mgd) and actuals were 192.2 mgd. On an annual average basis, we budgeted demands at 209.7 mgd and we are currently averaging 195.10 mgd from October 2024 through February 2025. Demands are expected to increase as we approach our drier months.

- The Regional Reservoir storage volume was 15.11 billion gallons or 97.5% full.
- The Consolidated Water Use Permit (CWUP) 12-month running average was 86.83 mgd (90 mgd limit). February 2025 CWUP actual pumping was 66.84 mgd (67.2 mgd targeted).
- The 12-month running average pumping rate for the South-Central Hillsborough Regional Wellfield was 24.78 mgd (24.95 mgd limit).
- The Tampa Bay Seawater Desalination facility produced 9.0 mgd (targeted 11.0 mgd). Production was lower than targeted due to an above-ground pipe break that required plant shutdown for several days during repair.
- The Regional Surface Water Treatment Plant averaged 90.0 mgd (targeted 90 mgd).
- Rainfall was 0.7 inches below normal (2.1 inches received).

Mid-year Financial Condition and Potential True -Up of Fixed Costs

Every month the Board is provided with a financial statement (Item F.6) and a potential true-up of fixed costs report (Item F.8) under the Receive and File section of the agenda. The reports reflect numbers through February 2025 or for five months of the fiscal year.

- The total operating revenue received is 43% of the budgeted amount with interest income of 33%.
- Fixed and variable operating costs are 30% and 32%, respectively. (Invoices typically run a month or two behind.)
- Debt service is on target at 42% and 5% has been spent on capital expenditure.
- 19.4 million in excess revenue over expenditures and $65 million in open purchase orders.

The potential true-up of fixed costs between member governments reflects a year-to-date mgd of 195.08 compared to 199.06 mgd in Fiscal Year 2024. Currently the potential true-up reflects Pinellas County and the cities of New Port Richey and Tampa with refunds and the City of St Petersburg and Pasco and Hillsborough counties with balances due.

Alafia River Permit Increase

Staff are completing public outreach related to increasing the Alafia River Water Use Permit. In 2024, the Southwest Florida Water Management approved an Emergency Order (expires March 31, 2025) increasing our withdrawal of flow above the established Minimum Flow threshold for the river from 10% to 19% and increased our maximum daily withdrawal from 60 mgd to 75 mgd.

A pre-application meeting with the district and member governments was held on March 10 and we anticipate bringing a Water Use Permit application to the board for consideration at the April Board meeting. All stakeholder feedback received to date supports this request.

Proposed Fiscal Year 2026 Budget Review

The Proposed Fiscal Year 2026 Budget workshop is scheduled for the April Board Meeting. Prior to that date, our Finance team will be meeting with each of the member staff to review and receive input. In addition, meetings have been scheduled with each of the Board members with the General Manager

and Finance staff for a high-level preview as well.

Strengths, Weaknesses, Opportunities and Threats (SWOT) Analysis Session

On March 12, the Executive team will conduct an internal SWOT analysis session in preparation for an upcoming Knowledge to Implementation (K2I) workshop. The session updated our previous SWOT analysis that was conducted in 2020.

Upcoming Board Meeting

April 21, 2025

- Proposed FY 2026 Budget Workshop

B.1 General Manager's Report Presentation

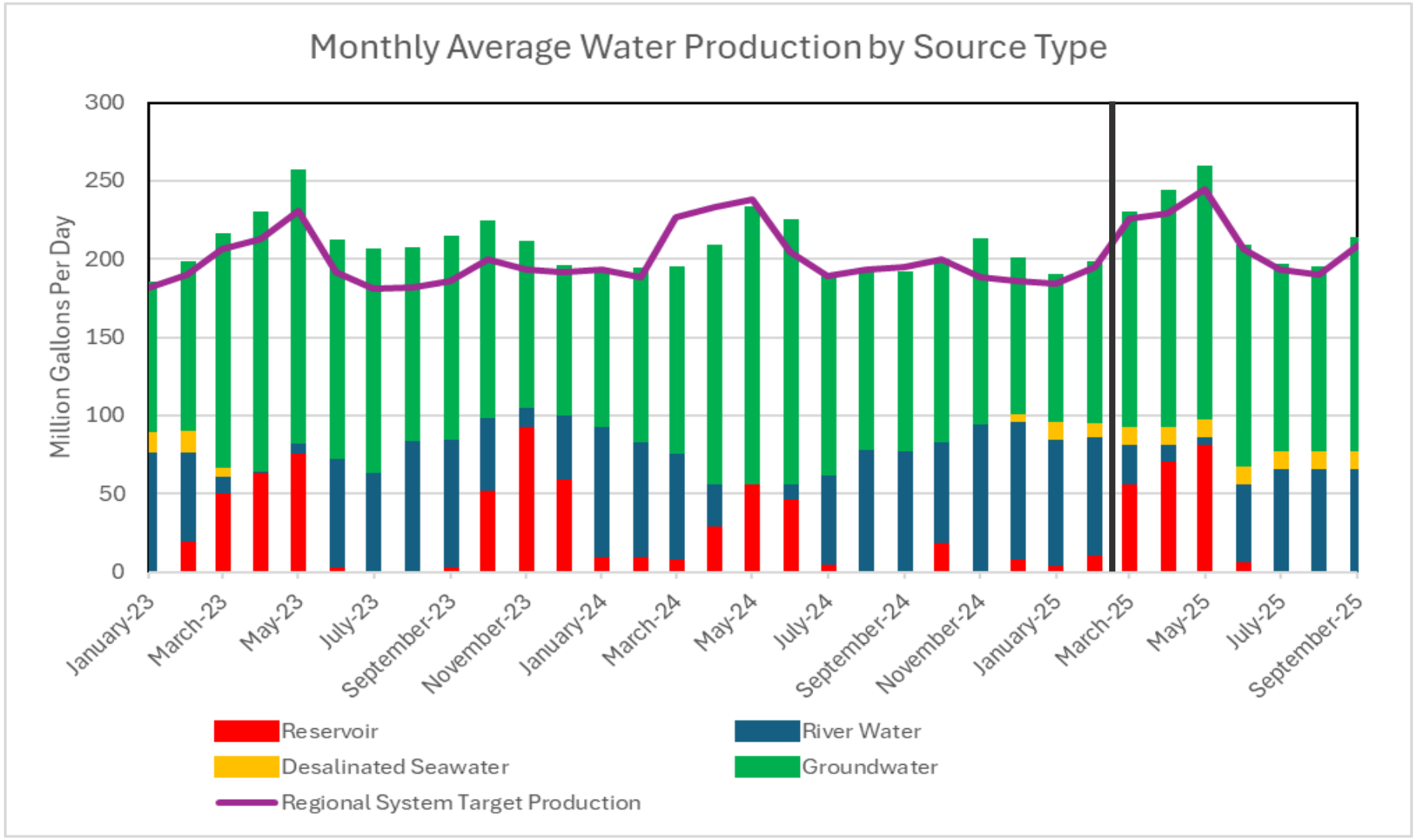
TAMPA BAY WATER

General Manager's Report

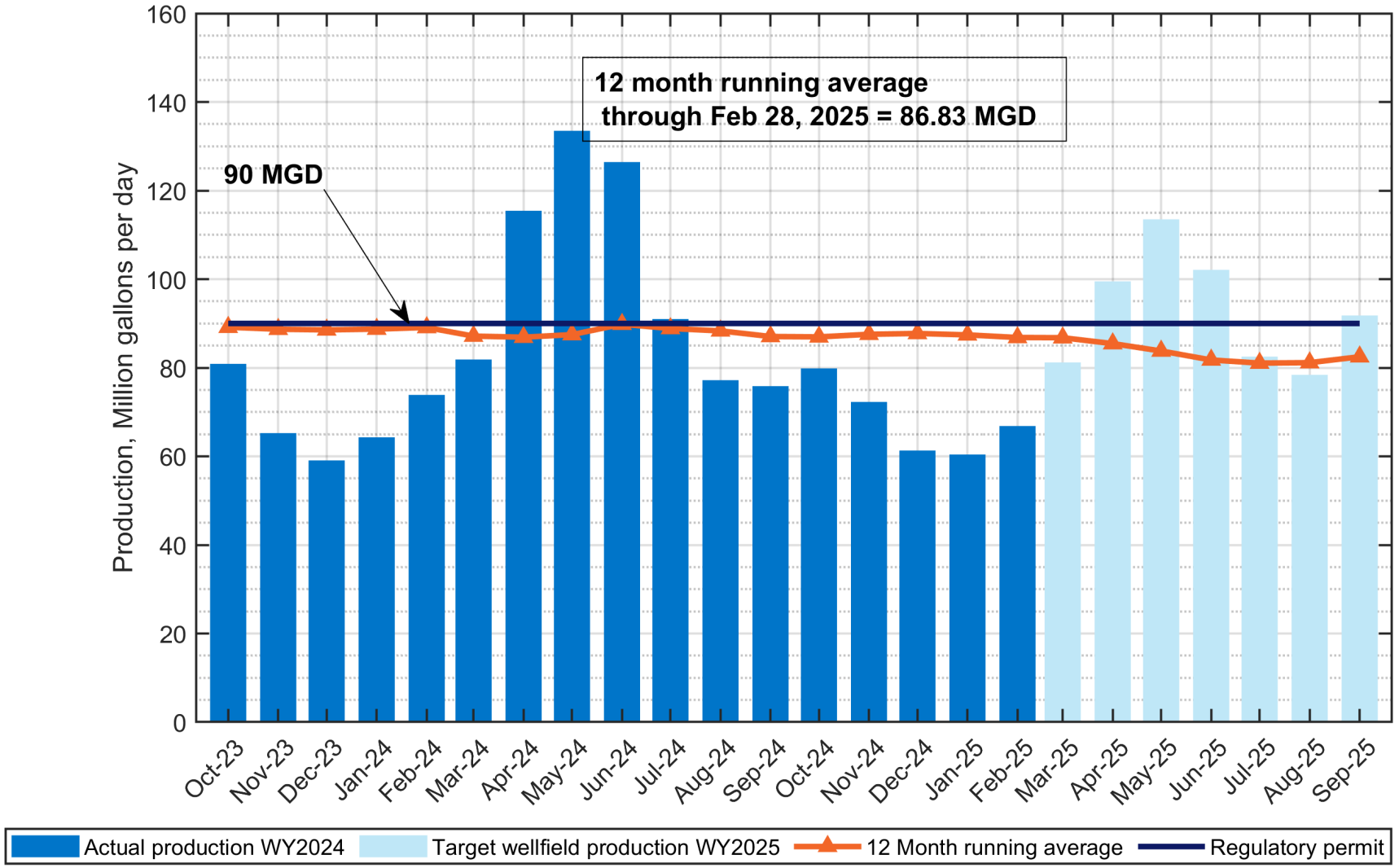
Agenda Item B.1
March 17, 2025

Charles H. Carden
General Manager
Tampa Bay Water

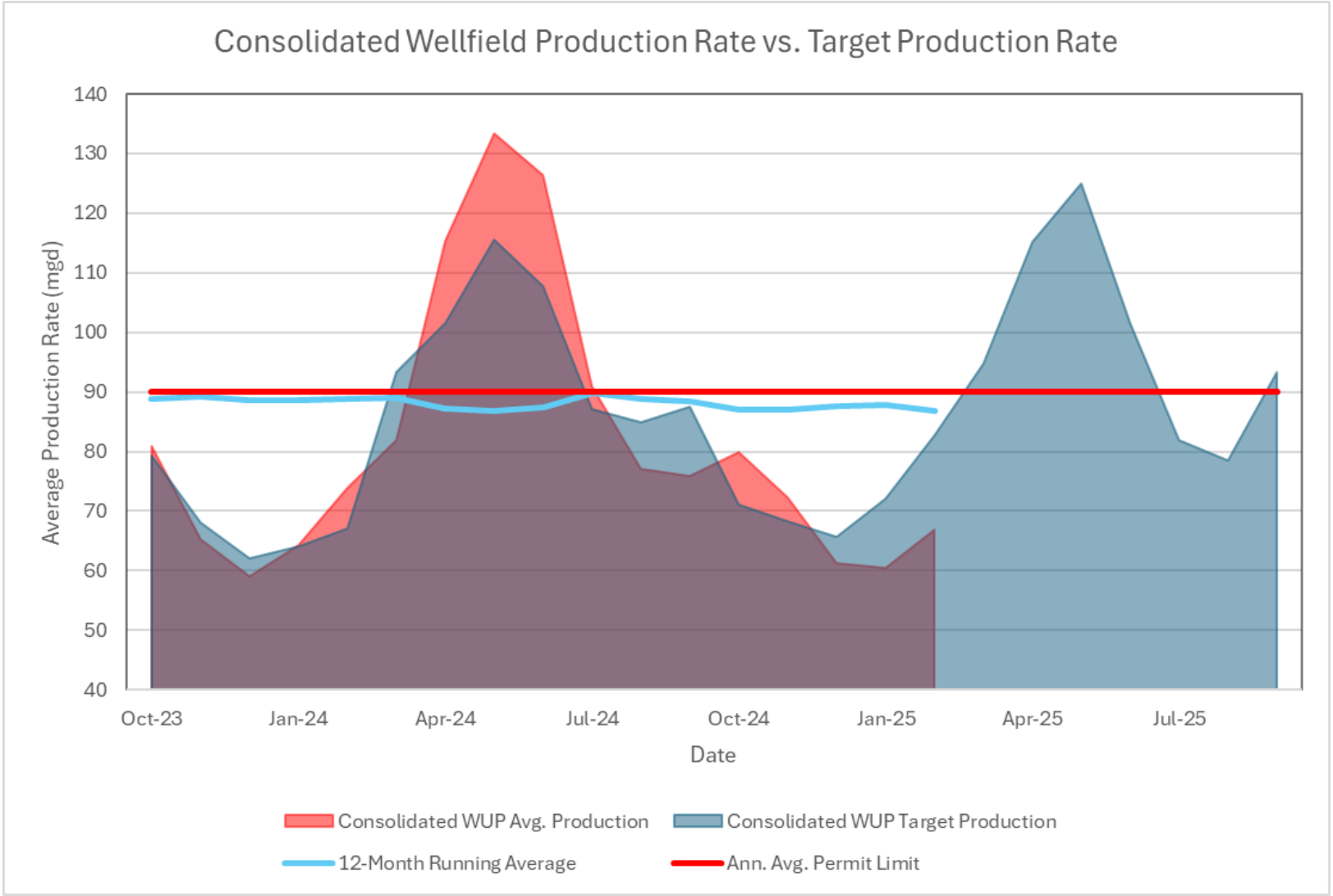
Tampa Bay Water Monthly Water Delivery



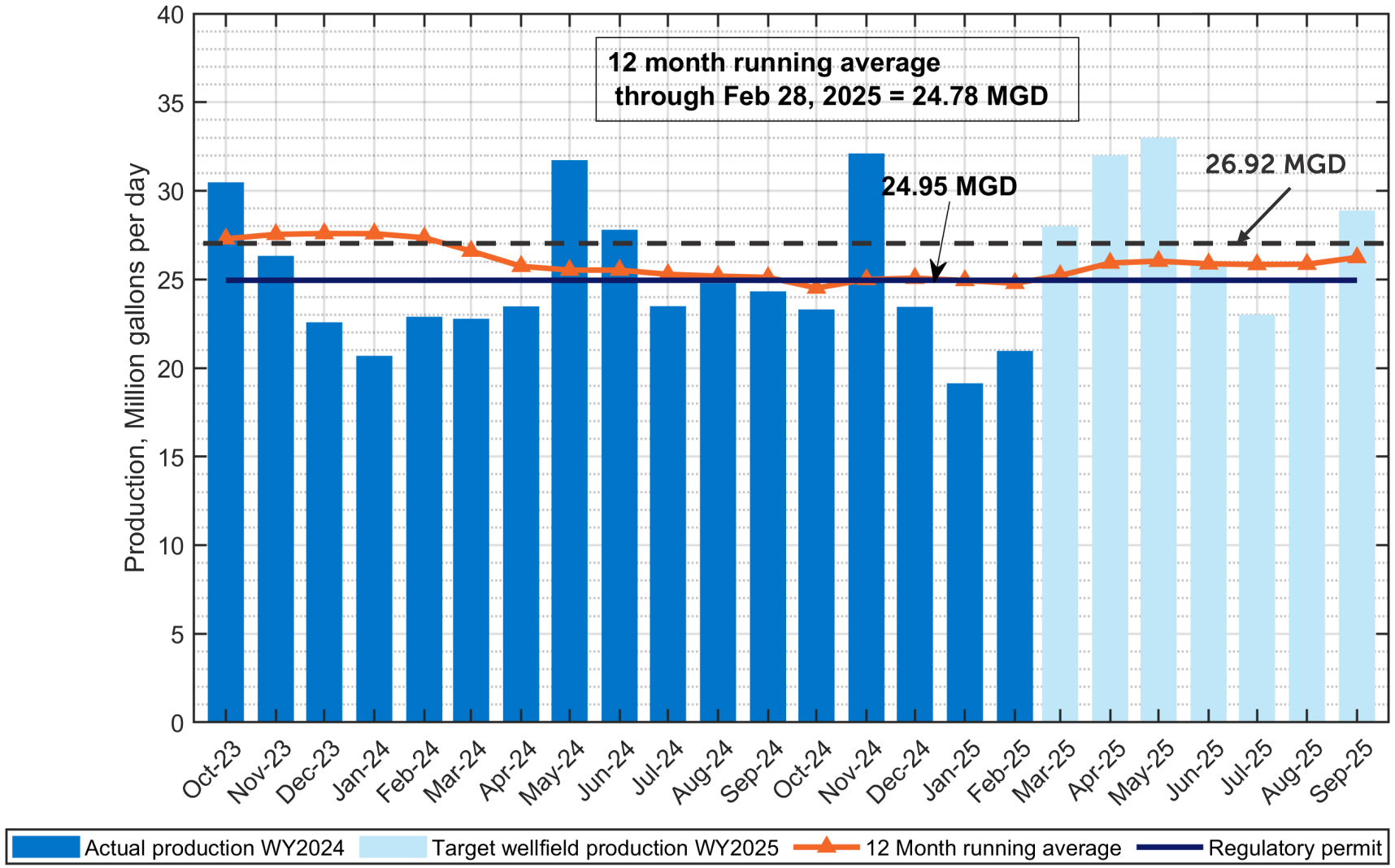
Consolidated Water Use Permit



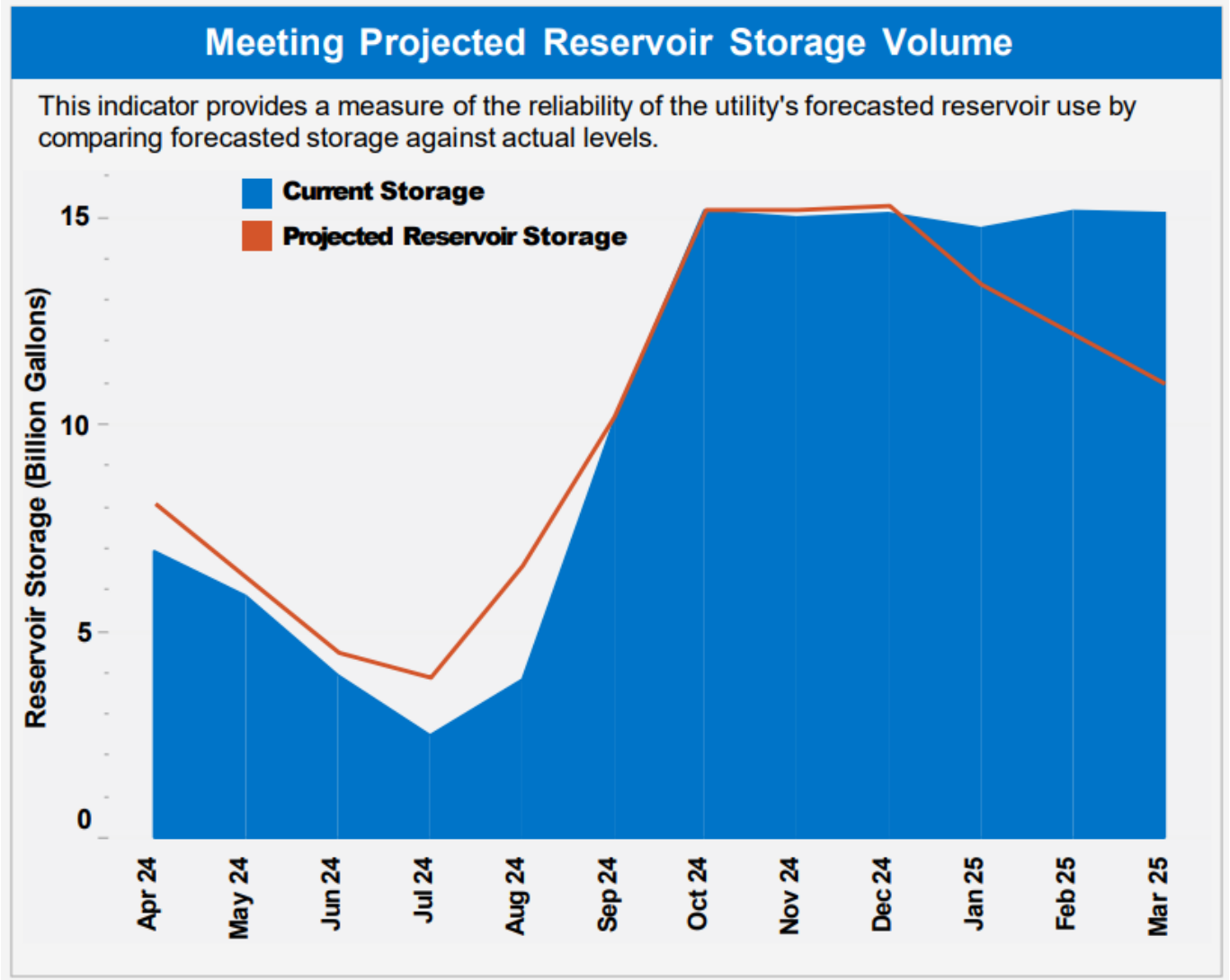
Consolidated Permit Wellfields – Actual vs. Target Monthly Production



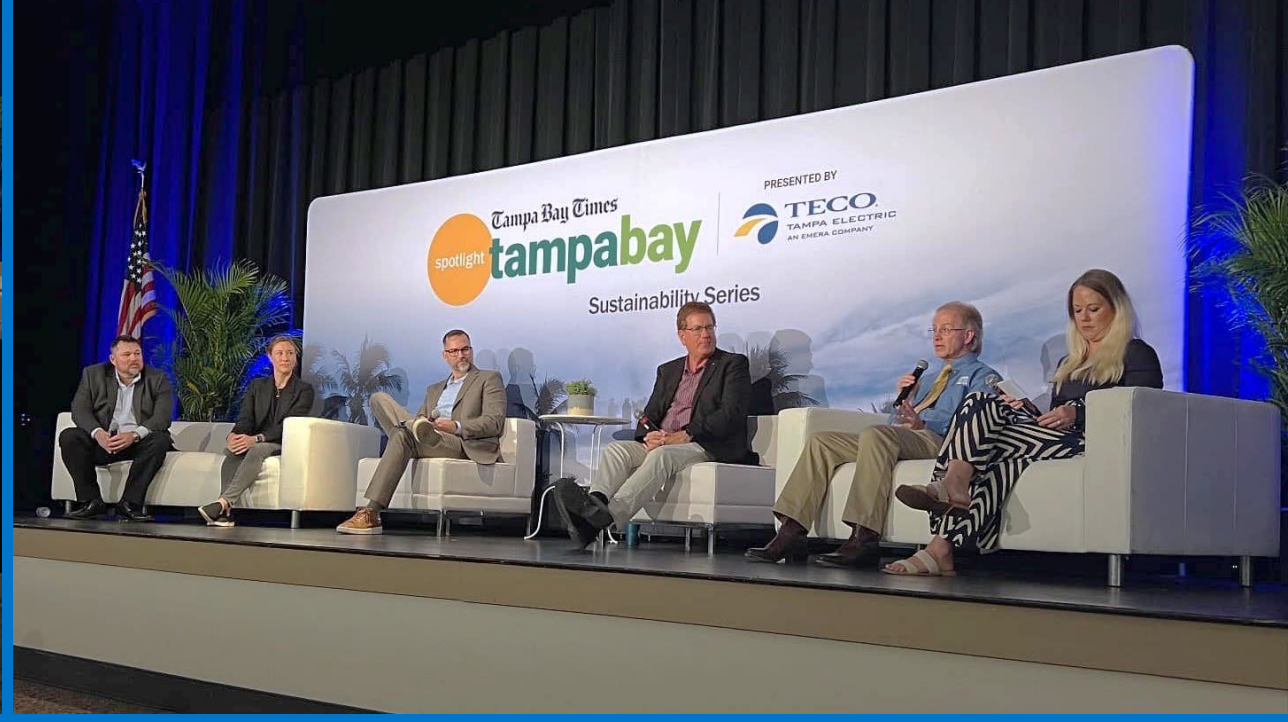
South-central Hillsborough Regional Wellfield Permit



C. W. Bill Young Regional Reservoir Storage



Pasco Science and Engineering Showcase Awards Gala



Tampa Bay Times Spotlight Sustainability Series Panel and Expo

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM B.2

DATE: February 25, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Michelle Stom, Chief of Staff/Chief Strategy Officer

SUBJECT: Legislative and Grant Funding Program Update - *Receive Report*

SUMMARY

The Board approves legislative goals and priorities each year to guide the work of the agency's Grant Funding and Legislative Team. The team is operating under the 2025 Legislative Program Goals and Priorities approved by the Board at its November 2024 meeting. This item provides an update on state and federal legislation and state and federal appropriations requests.

SUGGESTED ACTION

Receive Report.

COST/FUNDING SOURCE

N/A

DISCUSSION

Federal and state legislation can significantly impact the cost of water production and regulatory compliance. As Tampa Bay Water continues to prioritize efficient and cost-effective operations, providing input on potential legislation and regulations remains essential.

The 2025 Florida Legislative Session began on March 4, 2025. The agency's legislative team continues to review filed bills, engage with legislators, monitor funding requests, and track legislative activity as the session progresses. At the federal level, consultants and staff are actively tracking legislative and regulatory developments that could affect Tampa Bay Water.

Last month, the Government Affairs team submitted two appropriation requests for projects from Tampa Bay Water's Capital Improvement Plan (CIP) priority list for the 2025 Florida Legislative Session:

- **Surface Water Treatment Plant Expansion – $5 million request** – Previously submitted in past legislative sessions and vetoed in 2024, this project remains a priority. Additionally, staff will submit a grant application to the Alternative Water Supply grant program for $5 million for this project.
- **SCADA SecureOps: Modernizing & Securing Critical Technology Infrastructure – $1 million request** – This project strengthens the resilience and security of the Supervisory Control and Data Acquisition (SCADA) system at the Regional Surface Water Treatment Plant (SWTP) by replacing its existing infrastructure. This system is responsible for controlling the treatment and delivery of a significant portion of the clean, safe water our agency provides.

To strengthen advocacy efforts, staff traveled to Tallahassee to engage with legislators, raise awareness of Tampa Bay Water's mission, and emphasize the impact of its funding priorities submitted to the legislature.

Throughout the month, staff monitored committee weeks and special sessions for developments that could affect the agency. At the federal level, efforts continued to track policy changes under the incoming administration. Staff also participated in the FSAWWA bi-weekly legislative meeting to review newly filed legislation relevant to Tampa Bay Water. Internally, Government Affairs initiated recurring meetings with legislative consultants Jones Walker and Corcoran Partners to provide executive leadership and general counsel with regular legislative updates. Additionally, staff maintained engagement with member government personnel to strengthen relationships and align priorities. These ongoing legislative, regulatory, and funding efforts are essential to securing financial resources, building strategic partnerships, and ensuring Tampa Bay Water's long-term success.

BACKGROUND

The Tampa Bay Water Board created a unique water system that includes three diverse water sources. Tampa Bay Water's story is a model for other regional water systems. The agency continues to reach out to stakeholders such as the Florida Legislature and the Federal Congressional Delegation to provide knowledge and assistance on water policy. Staff also provides input and assistance to state and regional officials and regulatory agencies by providing expertise on water supply policies, water management history and needs, and technical topics.

Attachments (3)

2025 State Legislative Narrative Bill Tracker
Jones Walker Legislative Report 2.26.25
Corcoran Partners Legislative Report

Operations/Administration

SB 492 – Mitigation Banking

Sponsor: Senate - Senator McClain

Summary: This bill revises the schedule Florida Department of Environmental Protection (FDEP) and the water management districts must follow for the release of mitigation credits and prohibits the release of credits for freshwater wetland creation until specific criteria are met, ensuring that mitigation banks demonstrate measurable environmental benefits before credits are awarded.

Potential Impact to Tampa Bay Water: This could impact Tampa Bay Water's ability to engage in mitigation banking strategies for infrastructure projects that affect freshwater wetlands. The added restrictions on credit release could result in increased costs and extended timelines for mitigation efforts, requiring Tampa Bay Water to work closely with regulatory agencies to ensure ongoing project feasibility. The agency may need to identify alternative mitigation strategies or funding sources to compensate for potential delays.

Senate Status: SB 492 received 3 committee references.

HB 651 / SB 700 – Water Quality Additives

Sponsors: House - Representative Tuck; Senate - Senator Truenow

Summary: These bills introduce a definition for "water quality additive" and prohibit the use of additives that do not meet established water quality standards.

Potential Impact to Tampa Bay Water: Tampa Bay Water may need to ensure compliance with any new water quality additive regulations. New rules might also require more testing and reporting.

House Status: HB 651 is pending Speaker referral. **Senate Status:** SB 700 received 3 committee references.

HB 857 / SB 1386 – Assault or Battery on a Utility Worker

Sponsors: Senate - Senator Yarborough

Summary: These bills amend Florida Law to include utility workers in the list of protected personnel under the state's assault and battery laws. The legislation defines a "utility worker" as an individual employed by or under contract with an entity that owns, operates, or manages utility infrastructure, including water, wastewater, electricity, and telecommunications services. It provides

for the reclassification of offenses committed against utility workers, increasing the severity of penalties for assault and battery crimes.

Potential Impact to Tampa Bay Water: This legislation provides additional protections for employees engaged in critical infrastructure operations. Utility workers often operate in potentially hazardous conditions and are occasionally subject to threats or physical confrontation. This bill could lead to increased security measures, enhanced safety training, and awareness campaigns to protect employees in the field.

Status: HB 857 is pending committee referral. SB 1386 is pending committee referral.

SB 7002 – Water Management Districts

Sponsor: General Bill by Senate Committee on Environmental and Natural Resources

Summary: This proposed committee bill introduces new regulations for Florida's water management districts, focusing on financial oversight, planning, and transparency. It imposes stricter lobbying restrictions, limits board member expenditures, and establishes new guidelines for project funding and bidding preferences. The bill aims to improve accountability in water resource management while ensuring funds are used efficiently. Additionally, it enhances comprehensive planning requirements.

Potential Impact to Tampa Bay Water: Compliance with new regulatory and financial requirements may be necessary. Tampa Bay Water may need to engage in discussions with Southwest Florida Water Management District to ensure alignment with new planning and funding directives.

Senate Status: 2/20/2025 Senate - Referred to Appropriations Committee on Agriculture, Environment, and General Government; Appropriations.

HB 661 – One-Water Approach

Sponsor: House - Representative Albert

Summary: This House Resolution expresses support for a comprehensive, integrated "One-Water" approach to water supply management.

Potential Impact to Tampa Bay Water: While non-binding, this resolution aligns with Tampa Bay Water's goals for sustainable water resource management. It may influence future legislation, funding allocations, and regulatory frameworks, prompting Tampa Bay Water to engage in advocacy efforts.

House Status: Resolution introduced

SB 703 / HB 818 – Utility Relocation

Sponsors: Senate - Senator McClain; House - Representative Robinson

Summary: These bills require utilities interfering with public rights-of-way to be relocated within 60 days of notice.

Potential Impact to Tampa Bay Water: This legislation could impact infrastructure relocation timelines and coordination efforts. Compliance with the 60-day relocation requirement may necessitate increased coordination with municipalities and utility providers, potentially leading to higher project costs and expedited planning requirements.

House Status: HB 818 is pending referral. **Senate Status:** SB 703 is pending referral.

HB 945 / SB 1126 – Retirement Benefits Cost Adjustments

Sponsors: House - Representative Blanco; Senate - Senator Rodriguez

Summary: These bills revise the annual cost-of-living adjustments for retirees.

Potential Impact to Tampa Bay Water: This could affect future retirement benefit adjustments for employees.

House Status: HB 945 is pending referral. **Senate Status:** SB 1126 is pending referral.

HB 985 / SB 1068 – Deferred Compensation Plans for Public Employees

Sponsors: House - Representative Porras; Senate - Senator Rodriguez

Summary: These bills allow political subdivisions to adopt automatic enrollment deferred compensation plans for employees.

Potential Impact to Tampa Bay Water: Tampa Bay Water would need to evaluate any impacts on employee retirement plans.

House Status: HB 985 is pending referral. **Senate Status:** SB 1068 is pending referral.

2025 Funding Requests

- **$5 million for the Regional Surface Water Resilience and Expansion Initiative**
- **$1 million for SCADA SecureOps initiative**

Sponsors: House - Representative Alvarez; Senate - Senator Collins

Other Legislation of Interest

HB 11 / SB 202 – Municipal Water and Sewer Rates

Sponsors: House - Representative Robinson; Senate - Senator Jones

Summary: These companion bills require municipalities to provide consumers outside municipal boundaries with water and sewer services at the same rates, fees, and charges as those applied to consumers within municipal boundaries. The bill aims to prevent unfair pricing practices that may disadvantage customers located outside municipal limits.

Potential Impact to Tampa Bay Water: This legislation does not affect Tampa Bay Water directly, but could significantly impact Tampa Bay Water's member governments by standardizing municipal rate structures, potentially affecting financial planning, revenue generation, and rate-setting autonomy. Member governments may experience revenue shifts due to adjusted pricing, requiring them to reassess their financial models.

House Status: HB 11 received 3 committee references.
Senate Status: SB 202 received 3 committee references.

HB 35 / SB 510 – Heat Illness Prevention

Sponsors: House - Representative Gottlieb; Senate - Senator Rouson

Summary: Requires employers with outdoor workers to implement heat exposure safety programs approved by state agencies. This bill requires outdoor workers to have access to cooling breaks, shade, and water to prevent heat-related illnesses.

Potential Impact to Tampa Bay Water: If passed, compliance with updated workplace heat illness prevention measures will be required, potentially necessitating investment in training, protective equipment, and monitoring systems to ensure worker safety.

House Status: HB 35 received 3 committee references. **Senate Status:** SB 510 received 3 committee references.

HB 75 / SB 100 – Display of Flags by Governmental Entities

Sponsors: House - Representative Borrero; Senate - Senator Fine

Summary: Prohibits government entities from displaying politically affiliated flags and requires the U.S. flag to be displayed in a prominent position.

Potential Impact to Tampa Bay Water: Tampa Bay Water may need to review its flag display policies for compliance.

House Status: HB 75 received 3 committee references. **Senate Status:** SB 100 received 3 committee references; passed first committee.

HB 301 – Sovereign Immunity

Sponsor: House - Representative McFarland

Summary: Raises waiver of sovereign immunity limits for government entities from $200,000 to $3,200,000 by 2030.

Potential Impact to Tampa Bay Water: Potential increased liability for Tampa Bay Water, reassessment of legal risk management strategies and potential adjustments to insurance coverage may be necessary.

House Status: HB 301 received 3 committee references; passed first committee.

HB 341 – Public Works Employee Identification Cards

Sponsor: House - Representative Woodson

Summary: Directs a state study on implementing ID cards for public works employees, including those maintaining water facilities.

Potential Impact to Tampa Bay Water: Potential new identification requirements for employees, necessitating updates to safety and human resources policies and administrative processes.

House Status: HB 341 received 3 committee references.

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Marc W. Dunbar
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MEMORANDUM

TO: Chuck Carden, Michelle Stom, Brant Bartlett, Kelly Fernandez & David Jackson
Tampa Bay Water

FROM: Pete Dunbar, French Brown, Andres Malave and Marc Dunbar

DATE: February 26, 2025

RE: Updated 2025 Legislative Session Tracking Report

The bill filling is now nearing completion. The initial items of interest we are monitoring follow below. Senate bills included in this report are numbered through **SB 1294**; Senate committee bills numbered through **SB 7010**; and House bills numbered through **HB 1103**. The summary and tracking items include activities through the **close of business on February 25, 2025**. The water-related initiatives appear first and are followed by other legislative initiatives of interest.

Future reports will update the progress of the identified bills and include new filings as they appear. Changes from the prior report will appear in **bold type**. The full text of each bill, as well as applicable legislative staff reports, are available on the legislative web sites (www.flsenate.gov; www.myfloridahouse.com; and www.leg.state.fl.us.).

cc: Matthew Blair

TAMPA BAY WATER
LEGISLATIVE STATUS REPORT

Pete Dunbar, French Brown, Andres Malave and Marc Dunbar
Legislative Counsel

The bill tracking report is attached, and the water-related legislation appears first in the summary. Other bills of interest in the system are shown by chronological bill number, and the full text of each bill can be found on the legislative web sites. (www.flsenate.gov; www.myfloridahouse.com; and www.leg.state.fl.us.)

Water Related Legislation

Municipal Water and Sewer Rates: HB 11 by Representative Robinson and SB 202 by Senator Jones are companion measures requiring municipalities to provide to consumers outside the municipal boundaries receiving service services at the same rates, fees, and charges as consumers within the municipal boundaries. HB 11 received 3 committee references. SB 202 received 3 committee references.

Mitigation Banking: SB 492 by Senator McClain revises the schedule to DEP and the water management districts are required to adhere for the release of credits awarded by a mitigation bank permit; prohibits the release of mitigation credits for freshwater wetland creation until appropriate criteria is met; and authorizes the use of credits to offset certain impacts. **SB 492 received 3 committee references.**

Water Quality Additives: HB 651 by Representative Tuck and SB 700 by Senator Truenow are similar measures that include the comprehensive Department of Agriculture statutory revisions and among their provisions, Section 31 of the legislation creates a new definition for "water quality additive" and provides that use of any additive that does not meet the water quality standard is prohibited. HB 651 is pending referral by the Speaker. SB 700 received 3 committee references.

One-Water Approach: HB 661 by Representative Albert is a House Resolution that expresses support for a one-water approach toward the state's water supply. The resolution expresses goals for managing the state's water resources, but it is non-binding expression of intent.

Utility Relocation: SB 703 by Representative Robinson and HB 818 by Senator McClain are companion bills that will provide for utilities that unreasonably interfere with the use of public rights-of-way to be relocated on an expedited schedule within 60 days after receipt of written notice. SB 703 is pending referral. SB 818 is also pending referral.

Retirement Benefits Cost Adjustments: HB 945 by Representative Blanco and SB 1126 by Senator Rodriguez are companion bills that revise the annual cost-of-living benefits for retirees. HB 945 is pending referral. SB 1126 is also pending referral.

Deferred Compensation Plans for Public Employees: HB 985 by Representative Porras and SB 1068 by Senator Rodriguez are companion bills that provide that a political subdivision may adopt a plan of deferred compensation for employees that includes automatic enrollment unless a government employ elects not to contribute. HB 985 is pending referral. SB 1068 is pending referral.

Water Management Districts: SB 7002 by the Senate Committee on Environmental and Natural Resources is a proposed committee bill that **will require the Commission on Ethics to investigate a lobbyist or principal who has made a prohibited expenditure. Among its provisions, the legislation will prohibit a district board member from accepting an expenditure; it expands the definition for a quorum; it defines the individual component phases of a comprehensive plan; it provides state funds may not be used as a local match unless specifically appropriated by the Legislature; permits a district to levy ad valorem takes for capital improvement projects; it specifies the required reporting for projects; and it provides a preference for the lowest bidder for projects in excess of $1 million. SB 7002 was approved by the Environmental and Natural Resources Committee and has one remaining committee reference.**

Appropriations Requests: $5 million for the Regional Surface Water Resilience and Expansion Initiative and $1 million for SCADA SecureOps initiative are sponsored by Representative Alvarez in the House and Senator Collins in the Senate.

Other Legislation of Interest

Heat Illness Prevention: HB 35 by Representative Gottlieb and SB 510 by Senator Rouson are similar measures that will require an employer of employees who work regularly in an outdoor environment to implement a heat exposure safety program that has been approved by the Department of Agriculture and Consumer Services and the Department of Health. HB 35 received 3 committee references. **SB 510 received 3 committee references.**

Display of Flags by Governmental Entities: HB 75 by Representative Borrero and SB 100 by Senator Fine are companion measures that will prohibit governmental entities from erecting or displaying flags that represent a political viewpoint, including, but not limited to, a politically partisan, racial, sexual orientation or gender, or politically ideology viewpoint. It will also require a governmental entity that displays the United States flag to display that flag in a prominent position that is superior to any other flag that is also being displayed. HB 75 received 3 committee references. SB 100 received 3 committee references and has been approved by the first committee of reference.

Administrative Procedures: SB 108 by Senator Grall and HB 433 by Representative Overdorf are companion measures, and the legislation will require an agency to publish notice with 90 days of a legislative enacted rule-making requirement; it will not permit incorporated materials to be included by reference; it will require materials to be incorporated by rule to be made available; and it will provide new criteria for renewal of an emergency rule. **SB 108 received 2 committee references and has been approved by the first committee.** HB 433 is pending reference by the Speaker.

Sovereign Immunity: HB 301 by Representative McFarland will raise the level of the waiver of sovereign immunity for governmental entities on a sliding scale for any one person from $200,000 to $3,200,000 by 2030. The legislation also provides that insurance policies maintained by a governmental entity may not be conditioned by the enactment of a claims bill. **HB 301 received 3 committee references and has been approved by the first committee.**

Administrative Procedures: HB 305 by Representative Esposito and SB 448 by Senator Burgess are companion measures, and the legislation make it an invalid agency action to issue a statement interpreting a statute without expressed statutory authority. The legislation requires an agency to prepare estimated regulatory costs that may impact small business and the basis for the cost estimates. HB 305 received 3 committee references. SB 448 received 3 committee references.

Public Works Employee Identification Cards: HB 341 by Representative Woodson will direct OPPAGA to produce a report on how the state can best implement a state-issued identification card for public works employees that will identify them as first responders. Among the employees to be considered are those who maintain essential public works that include potable water production and distribution facilities. HB 341 received 3 committee references.

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Tampa Bay Water Bill Report
Ordered by Bill Number

HB 0011	**Municipal Water and Sewer Utility Rates** by Robinson (F)

Municipal Water and Sewer Utility Rates: Requires municipality to charge consumers receiving its utility services in another municipality same rates, fees, & charges as it charges consumers within its own municipal boundaries. Effective Date: July 1, 2025

Actions

12/06/2024	HOUSE Filed
01/06/2025	HOUSE Referred to Economic Infrastructure Subcommittee; Intergovernmental Affairs Subcommittee; Commerce Committee
01/06/2025	HOUSE Now in Economic Infrastructure Subcommittee

Similar

SB 0202	Municipal Water and Sewer Utility Rates (Jones)

HB 0035	**Heat Illness Prevention** by Gottlieb

Heat Illness Prevention: Requires certain employers to implement outdoor heat exposure safety program that has been approved by specified departments; specifies requirements for safety program; provides responsibilities for certain employers & employees; provides exceptions; requires specified annual training on heat illness & providing requirements for such training. Effective Date: October 1, 2025

Actions

12/09/2024	HOUSE Filed
01/06/2025	HOUSE Referred to Industries & Professional Activities Subcommittee; Human Services Subcommittee; Commerce Committee
01/06/2025	HOUSE Now in Industries & Professional Activities Subcommittee

Similar

SB 0510	Heat Illness Prevention (Rouson)

HB 0075	**Display of Flags by Governmental Entities** by Borrero

Display of Flags by Governmental Entities: Prohibits governmental entities from erecting or displaying certain flags; requires governmental entities to remain neutral in certain circumstances; requires that United States flag displayed by governmental entities be in certain position relative to other flags; authorizes current or retired member of United States Armed Forces or National Guard to use reasonable force to prevent desecration, destruction, or removal of United States flag or to replace such flag to position of prominence. Effective Date: July 1, 2025

Actions

12/27/2024	HOUSE Filed
01/15/2025	HOUSE Referred to Intergovernmental Affairs Subcommittee; Judiciary Committee; State Affairs Committee
01/15/2025	HOUSE Now in Intergovernmental Affairs Subcommittee

Identical

SB 0100	Display of Flags by Governmental Entities (Fine)

SB 0076 **Paid Parental Leave** by Berman

Paid Parental Leave; Defining the term “paid parental leave”; requiring the state to provide paid parental leave to certain employees for a specified period of time; prohibiting the state from refusing to grant such leave, etc. Effective Date: 7/1/2025

Actions

12/02/2024	SENATE Filed
01/15/2025	SENATE Referred to Governmental Oversight and Accountability; Appropriations Committee on Agriculture, Environment, and General Government; Appropriations

HB 0083 **Protections for Public Employees who use Medical Marijuana as Qualified Patients** by Rosenwald

Protections for Public Employees who use Medical Marijuana as Qualified Patients: Prohibits public employer from taking adverse personnel action against employee or job applicant for his or her use of medical marijuana if employee or job applicant is qualified patient; provides exceptions; requires public employer to provide written notice of employee's or job applicant's right to explain or contest positive marijuana test result within specified timeframe; provides procedures that apply when employee or job applicant tests positive for marijuana; provides cause of action & damages. Effective Date: upon becoming a law

Actions

01/03/2025	HOUSE Filed
01/15/2025	HOUSE Referred to Government Operations Subcommittee; Health Professions & Programs Subcommittee; Civil Justice & Claims Subcommittee; State Affairs Committee
01/15/2025	HOUSE Now in Government Operations Subcommittee

Identical

SB 0142	Protections for Public Employees Who Use Medical Marijuana as Qualified Patients (Polsky)

SB 0100 **Display of Flags by Governmental Entities** by Fine

Display of Flags by Governmental Entities; Defining the term “governmental entity”; prohibiting governmental entities from erecting or displaying certain flags; requiring governmental entities to remain neutral in certain circumstances; authorizing a current or retired member of the United States Armed Forces or the National Guard to use reasonable force to prevent the desecration, destruction, or removal of the United States flag or to replace such flag to a position of prominence, etc. Effective Date: 7/1/2025

Actions

02/03/2025	SENATE On Committee agenda - Governmental Oversight and Accountability, 02/11/25, 1:45 pm, 110 S
02/11/2025	SENATE Favorable by Governmental Oversight and Accountability; 5 Yeas, 2 Nays
02/12/2025	SENATE Now in Community Affairs

Identical

HB 0075	Display of Flags by Governmental Entities (Borrero)

SB 0108 **Administrative Procedures** by Grall

Administrative Procedures; Requiring agencies to publish a certain notice of proposed rule within a specified timeframe; deleting a provision related to the timeframe within which rules are required to be drafted and formally proposed; providing that a proposal for a lower cost regulatory alternative submitted after a notice of change is made in good faith only if the proposal contains certain statements; requiring agencies, by a specified date and in coordination with the committee, to review specified rules adopted before a specified date; requiring that regulatory plans submitted by agencies include certain schedules for rule review and certain desired updates to such plans, etc. Effective Date: 7/1/2025

Actions

02/03/2025	SENATE On Committee agenda - Governmental Oversight and Accountability, 02/11/25, 1:45 pm, 110 S
02/11/2025	SENATE Favorable by Governmental Oversight and Accountability; 7 Yeas, 0 Nays
02/12/2025	SENATE Now in Rules

Compare

HB 0433	Administrative Procedures (Overdorf)

SB 0142 **Protections for Public Employees Who Use Medical Marijuana as Qualified Patients** by Polsky

Protections for Public Employees Who Use Medical Marijuana as Qualified Patients; Prohibiting a public employer from taking adverse personnel action against an employee or a job applicant for his or her use of medical marijuana if the employee or job applicant is a qualified patient; requiring a public employer to provide written notice of an employee's or a job applicant's right to explain or contest a positive marijuana test result within a specified timeframe; providing a cause of action and damages, etc. Effective Date: Upon becoming a law

Actions

01/06/2025	SENATE Filed
01/24/2025	SENATE Referred to Health Policy; Governmental Oversight and Accountability; Rules

Identical

HB 0083	Protections for Public Employees who use Medical Marijuana as Qualified Patients (Rosenwald)

SB 0202 **Municipal Water and Sewer Utility Rates** by Jones

Municipal Water and Sewer Utility Rates; Requiring a municipality to charge customers receiving its utility services in another municipality the same rates, fees, and charges as it charges consumers within its municipal boundaries under certain circumstances, etc. Effective Date: 7/1/2025

Actions

01/13/2025	SENATE Filed
01/29/2025	SENATE Referred to Regulated Industries; Community Affairs; Rules

Similar

HB 0011	Municipal Water and Sewer Utility Rates (Robinson (F))

SB 0330 **Residential Utility Disconnections** by Berman

Residential Utility Disconnections; Prohibiting an electric utility, a public utility, or a water utility from disconnecting service to residential customers for nonpayment of bills or fees under specified circumstances; requiring such utilities to waive reconnection fees and late fees in certain circumstances; prohibiting such utilities from recovering from customers any fee or expense incurred in complying with the act; requiring such utilities to deliver notice of nonpayment of bills or fees to residential customers within a specified timeframe using specified methods of notice and including certain information, etc. Effective Date: 7/1/2025

Actions

01/27/2025	SENATE Filed
02/03/2025	SENATE Referred to Regulated Industries; Appropriations Committee on Agriculture, Environment, and General Government; Fiscal Policy

Identical

HB 0419	Residential Utility Disconnections (Tendrich)

SB 0352 **Employee Protections** by Gaetz

Employee Protections; Prohibiting agencies and independent contractors from taking specified actions against employees for disclosing certain information to the Commission on Ethics; providing that specified provisions protect employees and persons who submit written complaints to the commission or provide information to an investigator during an investigation of a complaint; authorizing certain employees or applicants for employment to file complaints in accordance with specified provisions; providing requirements for administrative procedures created by local governmental authorities, etc. Effective Date: 7/1/2025

Actions

01/27/2025	SENATE Filed
02/03/2025	SENATE Referred to Governmental Oversight and Accountability; Ethics and Elections; Rules

Similar

HB 0495	Adverse Personnel Actions Against Employees (Benarroch)

HB 0419 **Residential Utility Disconnections** by Tendrich

Residential Utility Disconnections: Provides conditions under which disconnection of residential utility services for nonpayment is prohibited & waiver of certain fees is required; authorizes utilities to voluntarily suspend disconnections to protect health & safety of customers & reliability of services; requires specified notice & alerts; provides penalties & remedies. Effective Date: July 1, 2025

Actions

02/05/2025	HOUSE Filed
02/12/2025	HOUSE Referred to Economic Infrastructure Subcommittee; Civil Justice & Claims Subcommittee; Commerce Committee
02/12/2025	HOUSE Now in Economic Infrastructure Subcommittee

Identical

SB 0330	Residential Utility Disconnections (Berman)

HB 0433 **Administrative Procedures** by Overdorf

Administrative Procedures: Revises provisions relating to rule development, proposed rules; notices, public workshops, publication, timeframes, repromulgation requirements, statements of estimated regulatory costs, public hearings, and lower cost regulatory alternatives, incorporation by reference, emergency rules, Florida Administrative Code, Florida Administrative Register, & annual regulatory plans. Effective Date: July 1, 2025

Actions

02/06/2025	HOUSE Filed
02/12/2025	HOUSE Referred to Government Operations Subcommittee; Budget Committee; State Affairs Committee
02/12/2025	HOUSE Now in Government Operations Subcommittee

Compare

SB 0108	Administrative Procedures (Grall)

SB 0492 **Mitigation Banking** by McClain

Mitigation Banking; Revising the schedule to which the Department of Environmental Protection and water management districts are required to adhere for the release of credits awarded by a mitigation bank permit; prohibiting the release of mitigation credits for freshwater wetland creation until certain criteria are met; authorizing certain projects or activities to use credits released from a bank to offset impacts if certain requirements are met, etc. Effective Date: 7/1/2025

Actions

02/05/2025	SENATE Filed

02/20/2025	SENATE Referred to Environment and Natural Resources; Appropriations Committee on Agriculture, Environment, and General Government; Fiscal Policy

HB 0495 **Adverse Personnel Actions Against Employees** by Benarroch

Adverse Personnel Actions Against Employees: Prohibits agencies & independent contractors from taking specified actions against employees for disclosing certain information to Commission on Ethics; requires that information disclosed include specified violations or alleged violations; requires disclosure of specified information to commission; provides that specified provisions protect employees & persons who submit written complaints to commission or provide information to investigator during investigation of complaint; authorizes certain employees or applicants for employment to file complaints in accordance with specified provisions; authorizes such employees or applicants to pursue specified administrative remedy or civil action within specified timeframe; authorizes local public employees to file complaint with appropriate local governmental authority; provides requirements for administrative procedures created by local governmental authorities; authorizes such employee to bring civil actions in court of competent jurisdiction; requires specified relief; provides that it is affirmative defense to certain actions that adverse action was predicated on grounds other than exercising of certain protected rights. Effective Date: July 1, 2025

Actions

02/10/2025	HOUSE Filed
02/19/2025	HOUSE Referred to Government Operations Subcommittee; Rules & Ethics Committee; State Affairs Committee
02/19/2025	HOUSE Now in Government Operations Subcommittee

Similar

SB 0352	Employee Protections (Gaetz)

SB 0510 **Heat Illness Prevention** by Rouson

Heat Illness Prevention; Requiring certain employers to implement an outdoor heat exposure safety program that has been approved by specified departments; providing responsibilities for certain employers and employees; requiring specified annual training on heat illness and providing requirements for such training, etc. Effective Date: 10/1/2025

Actions

02/05/2025	SENATE Filed
02/20/2025	SENATE Referred to Commerce and Tourism; Appropriations Committee on Agriculture, Environment, and General Government; Fiscal Policy

Similar

HB 0035	Heat Illness Prevention (Gottlieb)

HB 0529 **State Board of Administration** by Anderson

State Board of Administration: Revises period of time before certain financial instruments may be canceled & certain monies may be forfeited; revises types of investments that SBA may make; authorizes SBA & affiliated limited liability entities to issue securities & borrow money through specified means. Effective Date: July 1, 2025

Actions

02/11/2025	HOUSE Filed
02/19/2025	HOUSE Referred to Government Operations Subcommittee; Budget Committee; State Affairs Committee
02/19/2025	HOUSE Now in Government Operations Subcommittee

Identical

SB 0590	State Board of Administration (Leek)

SB 0590 **State Board of Administration** by Leek

State Board of Administration; Revising the federal regulations that apply to the statement of fiduciary standards and responsibilities for the Florida Retirement System Investment Plan; revising the timeframe after which third-party administrators or duly authorized agents of the board are required to cancel financial instruments issued for a specified purpose; authorizing the board to invest no more than a specified percentage in investments that comply with a specified fiduciary standard, etc. Effective Date: 7/1/2025

Actions

02/10/2025	SENATE Filed
02/20/2025	SENATE Referred to Governmental Oversight and Accountability; Appropriations Committee on Agriculture, Environment, and General Government; Appropriations

Identical

HB 0529	State Board of Administration (Anderson)

HB 0661 **One-Water Approach Toward the State's Water Supply** by Albert

One-Water Approach Toward the State's Water Supply: Expresses support for one-water approach toward this state's water supply, managing all water, whether from tap, stream, storm, aquifer, or sewer, in collaborative, integrated, inclusive, & holistic manner to support future growth of this state's water supply & avoid any projected shortages. Effective Date: Not Specified

Actions

02/17/2025	HOUSE Filed

SB 0808 **Underground Utility and Excavation Contractors** by Yarborough

Underground Utility and Excavation Contractors; Revising the definition of the term “underground utility and excavation contractor”; revising the definition of the term “Contractor V”; defining the term “underground utility and excavation contractor”, etc. Effective Date: 7/1/2025

Actions

02/18/2025	SENATE Filed

Identical

HB 0869	Underground Utility and Excavation Contractors (Sapp)

HB 0861 **Advanced Wastewater Treatment** by Cross

Advanced Wastewater Treatment: Requires DEP, in consultation with water management districts & sewage disposal facilities, to submit to Governor & Legislature reports on certain sewage disposal facilities in state. Effective Date: July 1, 2025

Actions

02/20/2025	HOUSE Filed

Similar

SB 0978	Advanced Wastewater Treatment (Berman)

HB 0869 **Underground Utility and Excavation Contractors** by Sapp

Underground Utility and Excavation Contractors: Revises & provides definition of "underground utility and excavation contractor"; revises definition of term "Contractor V." Effective Date: July 1, 2025

Actions

02/21/2025	HOUSE Filed

Identical

SB 0808	Underground Utility and Excavation Contractors (Yarborough)

HB 0973 **Special Districts** by Overdorf

Special Districts: Abolishes certain soil & water conservation districts in this state; transfers assets & liabilities of such districts to DACS; provides that independent special district that grants public access to district lands or water areas for outdoor recreational purposes owes no duty of care to perform specified actions; provides that independent special district is not responsible for injury to persons or property caused by act or omission of such person upon such lands or water areas; provides certain protection to owner of private land if independent special district secures easement or other access right through such private land to district lands or water areas that independent special district makes available to public for outdoor recreational purposes; provides that special district may purchase commodities & contractual services from purchasing agreements of other specified entities; provides that independent special district may require, by resolution, criminal history screening for certain persons; revises qualifications of supervisor of soil & water conservation district; requires DACS to monitor specified soil & water conservation districts & ensure that each district is winding up administrative & fiscal matters in timely manner & using certain practices. Effective Date: July 1, 2025

Actions

02/24/2025	HOUSE Filed

Identical

SB 0986	Special Districts (Truenow)

SB 0978 **Advanced Wastewater Treatment** by Berman

Advanced Wastewater Treatment; Requiring the Department of Environmental Protection, in consultation with the water management districts and sewage disposal facilities, to submit to the Governor and Legislature specified reports on certain sewage disposal facilities in the state, etc. Effective Date: 7/1/2025

Actions

02/21/2025	SENATE Filed

Similar

HB 0861	Advanced Wastewater Treatment (Cross)

SB 0986 **Special Districts** by Truenow

Special Districts; Abolishing certain soil and water conservation districts in this state; transferring the assets and liabilities of such districts to the Department of Agriculture and Consumer Services; prohibiting municipalities from assuming certain services in annexed areas; providing that an independent special district is not responsible for injury to persons or property caused by an act or omission of such person upon such lands or water areas; deleting provisions subjecting certain powers of a soil and water conservation district to another district's approval, etc. Effective Date: Except as otherwise expressly provided in this act and except for this section, which shall take effect upon becoming a law, this act shall take effect July 1, 2025

Actions

02/21/2025	SENATE Filed

Identical

HB 0973	Special Districts (Overdorf)

SB 7002 **Water Management Districts** by Environment and Natural Resources

Water Management Districts; Requiring the Commission on Ethics to investigate a lobbyist or principal who has made a prohibited expenditure and to provide the Governor with a report of its findings and recommendations regarding such investigation; requiring the South Florida Water Management District, in cooperation with the Department of Environmental Protection, to provide a detailed report that includes the total estimated remaining cost of implementation of the Everglades restoration comprehensive plan and the status of all performance indicators; authorizing the districts to levy ad valorem taxes on property by resolution adopted by a majority vote of the governing board, etc. Effective Date: 7/1/2025

Actions

02/18/2025	SENATE Submitted as Committee Bill and Reported Favorably by Environment and Natural Resources; 7 Yeas, 0 Nays
02/19/2025	SENATE Committee Bill Text Filed
02/20/2025	SENATE Referred to Appropriations Committee on Agriculture, Environment, and General Government; Appropriations

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TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM C.1

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Warren Hogg, Chief Science Officer

SUBJECT: Water Conservation Month Proclamation and Tampa Bay Water Wise Program Update - *Approve*

SUMMARY

The State of Florida annually proclaims April as Water Conservation Month. The Florida Section of the American Water Works Association coordinates this effort to highlight the need for statewide conservation efforts during the driest months of the year. Tampa Bay Water is coordinating with members on the adoption of this proclamation and is presenting this proclamation for Board approval. Staff will also provide an update on Tampa Bay Water Wise, the region's water conservation rebate program, as part of this presentation.

SUGGESTED ACTION

Approve Proclamation and receive update on the Tampa Bay Water Wise program.

COST/FUNDING SOURCE

N/A

DISCUSSION

April is Water Conservation Month

The month of April has been declared "Water Conservation Month" throughout Florida for the past 27

years to generate awareness of the need for water conservation in the driest months of the year. This effort is coordinated by the Florida Section of the American Water Works Association (FSAWWA), Florida's water management districts, and the Florida Department of Environmental Protection. The Water Use Efficiency Division of FSAWWA works to have the Governor and Cabinet officially proclaim April as Water Conservation Month in late March or early April. The theme of this year's proclamation is "Irrigation System Evaluations" which are an important action for conserving outdoor water use.

Tampa Bay Water has adopted this proclamation many times in the past, and we do so alongside our member governments to promote awareness of water use and the role that water conservation should play during the peak of Florida's dry season in April and May. Tampa Bay Water has supported water conservation programming since the agency's inception and continues to do so through implementation of the Tampa Bay Water Wise program, coordination with members' conservation staff, and through the agency's support of the Florida Friendly Landscaping programs.

Staff recommends approval of the attached Proclamation that April is Water Conservation Month. The Proclamation has been reviewed and approved as to form by Tampa Bay Water's General Counsel.

Tampa Bay Water Wise Program Update

In Fiscal Year 2025 (October 1, 2024 – February 20, 2025), the program has saved 60,321 gallons per day (gpd). The low target savings goal for the year is 153,160 gpd, the high target goal is 559,149 gpd, both of which would be cost effective compared to construction of a new water supply project. The completion of several large projects was delayed due to the storms in October 2024 but some have recently been completed.

Total water savings since the program launched in March 2020 are 754,816 gpd from the issuance of 27,906 device rebates. The details of these rebates can be found in the monthly Regional Report, attached to this item and also located here:
https://tbw.conservationrebates.com/dashboard/public/regional_dashboard/regional_dashboard.pdf

The working group, comprised of member government staff that guide the program's development, recently approved a new residential irrigation rebate pilot program to help homeowners save water outdoors. This pilot program was developed with input from the member governments, licensed irrigation contractors, and the District. The pilot program will last through this fiscal year and is designed to provide staff with information about the rebate's effectiveness so it can be optimized before moving into full implementation.

The agency will be issuing a Request for Proposals in March 2025 for the Third-Party Rebate Administrator, who will continue to manage the rebate administration and marketing of the program; the current contract expires in fall 2025. The selection committee reviewing the submitted proposals will be comprised of staff from the agency and from member governments. Agency staff will seek board approval of the contract with the successful bidder before the end of this fiscal year.

Marketing & Outreach

EGIA is the program's Third-Party Rebate Administrator, and they also manage the program marketing. They currently have 2.5 staff members working to actively program the program to multi-family property owners, hotel/motel/restaurant owners, schools and local governments, plumbers, contractors and other key industry professionals.

These activities are essential to securing large water-saving projects, and a key strategy to achieving the high-water savings target. In order to grow the program, we need outreach managers to promote the program to decision makers and build awareness among contractors and stakeholders to further extend outreach.

Other marketing activities include placement of signs, stickers and tabling at events in Home Depot and Lowes stores, search engine optimization, social media, and website management.

Member Government Conservation Activities

The member governments continue to implement conservation messaging and programs for their customers and promote the Tampa Bay Water Wise program. The attachment to this report includes a summary of their activities for January 2025.

BACKGROUND

Beginning in 1998, the Florida Water Wise Council worked with local governments and the State Department of Agriculture to adopt April as Water Conservation Month. In 2003, the Council became a part of the Florida Section of the American Water Works Association and was changed to the Florida Water Wise Committee. In 2004, thirty-eight municipalities, in addition to the Governor's Cabinet, adopted a resolution proclaiming April as Water Conservation Month. In 2005, the newly formed Water Use Efficiency Division was able to coordinate Water Conservation Month adoption by 75 entities, including both public and private entities (double the 2004 effort). Currently, well over 200 entities adopt the proclamation including Tampa Bay Water and its Member Governments.

The Water Use Efficiency Division is responsible for coordinating the Water Conservation Month proclamation effort statewide. Since Tampa Bay Water coordinates and promotes conservation efforts with its Member Governments, adoption of this resolution and promotion through its annual conservation awareness program will highlight the region's efforts to effectively conserve water.

Attachment (3)

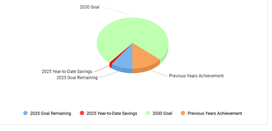
Regional_Dashboard_Feb 2025
Member Govt Conservation Report_Jan 2025
Water Conservation Proclamation_2025
C.1 Water Conservation Month Proclamation and Tampa Bay Water Wise Update Presentation

Dashboard Reports

View PDF File

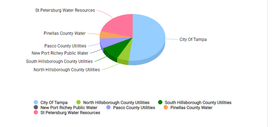
Regional Total Water Savings (GPD) and 2030 Goal

REGIONAL WATER SAVED	
Gallons per Day	
2025 Goal	559,149
2025 Goal Remaining	466,827
2025 Year-to-Date Savings	60,321
2030 Goal	3,800,000
Previous Years Achievement	694,495



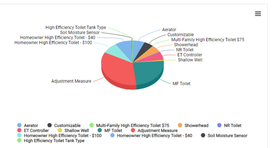
Regional Total Water Savings (GPD) by Water Demand Planning Area (WDPA)

REGIONAL WATER SAVED BY WDPA	
Gallons per Day	
Regional Savings	754,816
City Of Tampa	392,169
North Hillsborough County Utilities	43,598
South Hillsborough County Utilities	71,569
New Port Richey Public Water	2,012
Pasco County Utilities	51,268
Pinellas County Water	39,488
St Petersburg Water Resources	154,709



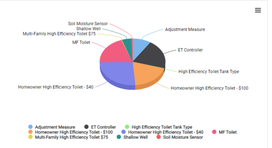
Regional Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	754,816	27,906
Aerator	47,995	10,336
Customizable	37,131	5
Multi-Family High Efficiency Toilet $75	1,377	51
Showerhead	40,477	4,643
NR Toilet	3,132	116
ET Controller	42,935	277
Shallow Well	5,418	21
MF Toilet	184,893	7,033
Adjustment Measure	261,895	22
Homeowner High Efficiency Toilet - $100	61,378	2,102
Homeowner High Efficiency Toilet - $40	66,137	3,258
Soil Moisture Sensor	775	5
High Efficiency Toilet Tank Type	1,302	37



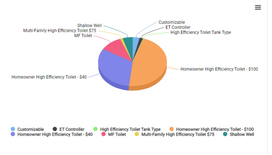
Pasco County Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	51,268	1,457
Adjustment Measure	4,726	1
ET Controller	10,065	67
High-Efficiency Toilet Tank Type	72	2
Homeowner High-Efficiency Toilet - $100	9,782	335
Homeowner High-Efficiency Toilet - $40	13,438	662
MF Toilet	10,071	373
Multi-Family High Efficiency Toilet $75	162	6
Shallow Well	2,202	9
Soil Moisture Sensor	310	2



Pinellas County Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	39,488	1,437
Customizable	1,359	1
ET Controller	620	4
High-Efficiency Toilet Tank Type	108	3
Homeowner High-Efficiency Toilet - $100	18,337	628
Homeowner High-Efficiency Toilet - $40	12,646	623
MF Toilet	4,131	153
Multi-Family High Efficiency Toilet $75	496	18
Shallow Well	1,806	7

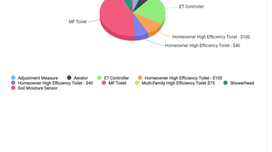


Northwest Hillsborough County Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	43,598	1,603
Adjustment Measure	20	1
Aerator	320	64
ET Controller	10,695	69
High-Efficiency Toilet Tank Type	108	3
Homeowner High Efficiency Toilet - $100	8,643	296
Homeowner High Efficiency Toilet - $40	14,900	734
MF Toilet	6,669	247
Shallow Well	258	1
Showerhead	1,870	187
Soil Moisture Sensor	155	1

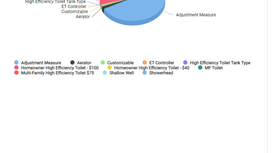
South Central Hillsborough County Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	71,569	3,068
Adjustment Measure	3,925	1
Aerator	4,210	843
ET Controller	15,500	100
High-Efficiency Toilet Tank Type	6,394	219
Homeowner High Efficiency Toilet - $100	5,034	248
Homeowner High Efficiency Toilet - $40	30,996	1,148
Multi-Family High Efficiency Toilet $75	189	7
Showerhead	5,010	501
Soil Moisture Sensor	310	2



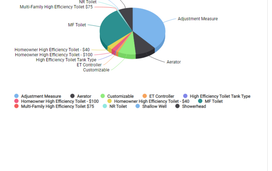
ST Pete County Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	154,709	5,115
Adjustment Measure	103,661	2
Aerator	2,905	566
Customizable	1,710	1
ET Controller	775	5
High-Efficiency Toilet Tank Type	72	2
Homeowner High Efficiency Toilet - $100	6,438	289
Homeowner High Efficiency Toilet - $40	8,241	406
MF Toilet	21,573	799
Multi-Family High Efficiency Toilet $75	199	7
Shallow Well	774	3
Showerhead	4,350	635



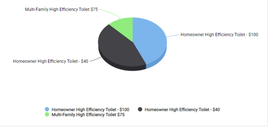
Tampa Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	392,169	17,143
Adjustment Measure	149,583	17
Aerator	40,560	8,464
Customizable	34,068	3
ET Controller	4,960	32
High-Efficiency Toilet Tank Type	972	27
Homeowner High Efficiency Toilet - $100	8,906	305
Homeowner High Efficiency Toilet - $40	10,982	541
MF Toilet	111,393	4,313
Multi-Family High Efficiency Toilet $75	108	4
NR Toilet	3,132	116
Shallow Well	258	1
Showerhead	27,247	3,320



New Port Richey Total Water Savings (GPD) by Rebate Type

REBATE TYPE	Sum of GPD Savings	Sum of Quantity
Grand Total	2,012	83
Homeowner High Efficiency Toilet - $100	876	30
Homeowner High Efficiency Toilet - $40	893	44
Multi-Family High Efficiency Toilet $75	243	9



Tampa Bay Water
Member Government Water Conservation Activities
January 2025

Conservation Activities	Pinellas County	City of St. Petersburg	Hillsborough County	City of Tampa	Pasco County	City of New Port Richey
Programs & Devices						
Retrofit Kits Distributed		2		57		22
Hose Nozzles		2	0	43		
Irrigation Evaluations		7	17	20	2	
Rain/Soil Moisture Sensor Rebates		9		14		
Indoor Audit						
Education & Engagement						
Speaking Engagements - # events, #attendees			7 / 298	3/93		
Expos/Fairs/Events			0	3	1, 44	
Tours			0	0		
Paper/E-bill conservation message - #recipients					1/150,000	
Hotline Calls/Email Inquiries		78	128 / 428	9/1	1720	
Media						
Conservation Website Users - # visits		2,423	9,945	2,658		
E- Newsletter Opens						
Twitter Engagements						
Facebook Engagements			1,105			
LinkedIn Engagements			68			
NextDoor Engagements			810			
Television Shows/Radio Interviews			0 / 0 / 0			
News Releases			3* / 96,500			
Infrastructure Related			*3 to 11 media			
Meter Tests/Changeouts - proactive measure	154	1,342			483	127
Reclaimed Water (net new connections)					141	
Enforcement						
Water Restriction Warnings	48	0	133			0
Water Restriction Citations	0	0	8	36		0
Water Restriction Enforcement Hours	107	2				
Water Restriction Enforcement Mileage		13		5818		
Tampa Bay Water Wise Activities						
Facebook Posts (#)						
Facebook Engagements						
NextDoor Posts (#)						
NextDoor Engagements						
Twitter posts (#)						
Twitter Engagement Rate						
Newsletter/Email - # of recipients						
- open rate						
- click rate						
Utility Bill Insert - Name rebate type						
Utility Bill Insert - # of recipients						
Other TBWW Activities (Brief description)		Conservation webpages				

PROCLAMATION

Tampa Bay Water
Clearwater, Florida

WHEREAS, water is a basic and essential need of every living creature; and

WHEREAS, the State of Florida, Water Management Districts, Tampa Bay Water and its Member Governments and other parties are working together to increase awareness about the importance of water conservation; and

WHEREAS, Tampa Bay Water, its Member Governments, and the State of Florida have designated April, typically a dry month when potable water demands increase, as Florida's Water Conservation Month, to educate citizens about how they can help save Florida's precious water resources; and

WHEREAS, Tampa Bay Water has always encouraged and supported water conservation, through various planning and coordination of educational programs and special events; and

WHEREAS, every business, industry, school, and citizen can make a difference when it comes to conserving water by following Member Government Water Restriction ordinances and participating in conservation programs; and

WHEREAS, efficient irrigation design, programming, and maintenance can conserve water, Tampa Bay Water will encourage citizens and businesses to evaluate their irrigation systems for potential efficiency enhancements;

NOW, THEREFORE, be it resolved by the Tampa Bay Water Board of Directors that:

1. The month of April 2025 is hereby proclaimed "WATER CONSERVATION MONTH".

2. Tampa Bay Water and its Member Governments shall continue to highlight the need to help protect this precious resource by promoting the use of water efficient technologies and practices with a special focus on irrigation system evaluations and increasing awareness of the need to save water.

ATTEST:

_____
Secretary

TAMPA BAY WATER, A Regional Water Supply Authority

By: _____

Its: Chairman

Date: _____

(Seal)

APPROVED AS TO FORM:

_____
Office of the General Counsel

Water Conservation Month Proclamation and Tampa Bay Water Wise Update

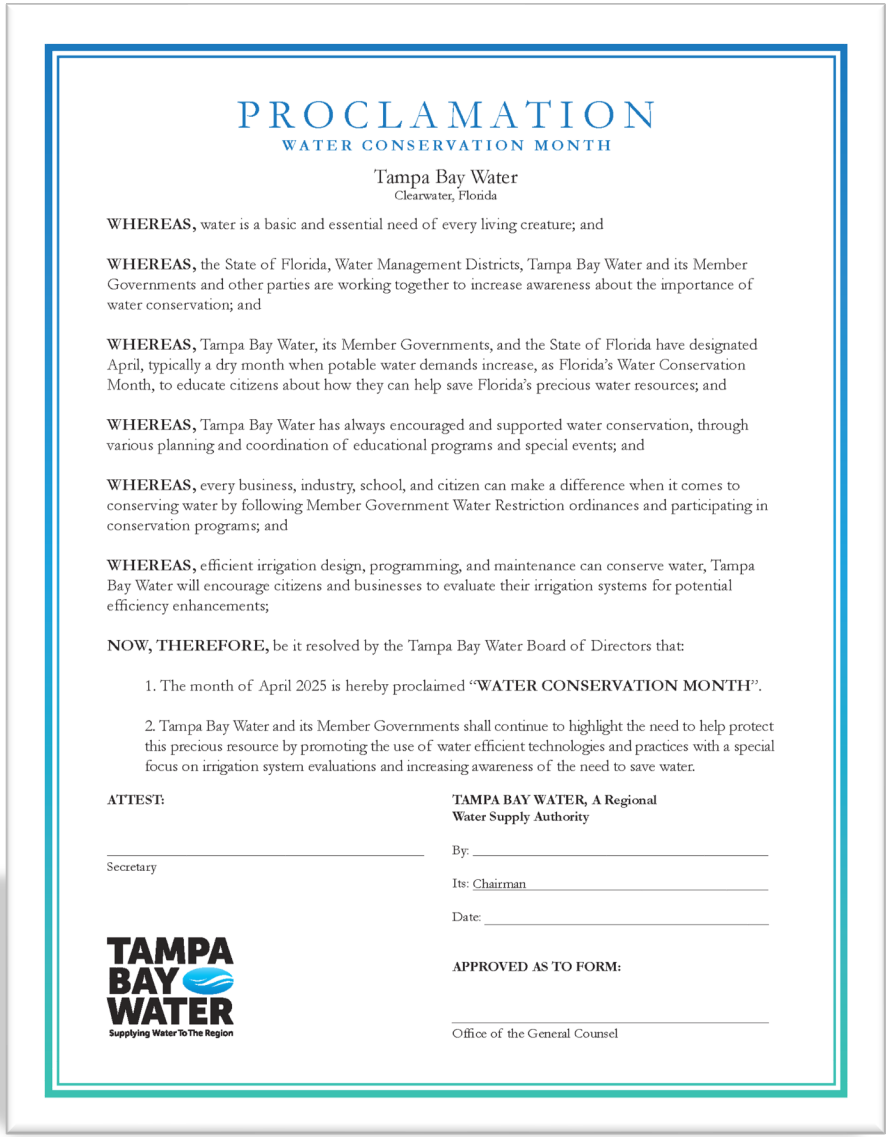
Agenda Item C.1

March 17, 2025

Amelia Brown
Demand Management Program Manager
Tampa Bay Water

Water Conservation Month

- 27th year since April was established as Water Conservation Month in Florida
- Coordinated by the Florida Section of the American Water Works Association, water management districts and the Florida Department of Environmental Protection
- Generates public awareness during the dry season
- Adopt proclamation alongside member governments



PROCLAMATION

WATER CONSERVATION MONTH

Tampa Bay Water
Clearwater, Florida

WHEREAS, water is a basic and essential need of every living creature; and

WHEREAS, the State of Florida, Water Management Districts, Tampa Bay Water and its Member Governments and other parties are working together to increase awareness about the importance of water conservation; and

WHEREAS, Tampa Bay Water, its Member Governments, and the State of Florida have designated April, typically a dry month when potable water demands increase, as Florida's Water Conservation Month, to educate citizens about how they can help save Florida's precious water resources; and

WHEREAS, Tampa Bay Water has always encouraged and supported water conservation, through various planning and coordination of educational programs and special events; and

WHEREAS, every business, industry, school, and citizen can make a difference when it comes to conserving water by following Member Government Water Restriction ordinances and participating in conservation programs; and

WHEREAS, efficient irrigation design, programming, and maintenance can conserve water, Tampa Bay Water will encourage citizens and businesses to evaluate their irrigation systems for potential efficiency enhancements;

NOW, THEREFORE, be it resolved by the Tampa Bay Water Board of Directors that:

1. The month of April 2025 is hereby proclaimed "**WATER CONSERVATION MONTH**".

2. Tampa Bay Water and its Member Governments shall continue to highlight the need to help protect this precious resource by promoting the use of water efficient technologies and practices with a special focus on irrigation system evaluations and increasing awareness of the need to save water.

ATTEST:

Secretary

TAMPA BAY WATER, A Regional Water Supply Authority

By: _____

Its: Chairman

Date: _____

APPROVED AS TO FORM:

Office of the General Counsel

TAMPA BAY WATER
Supplying Water To The Region

Recommendation

- Staff recommends adoption of the Proclamation that April is Water Conservation Month.

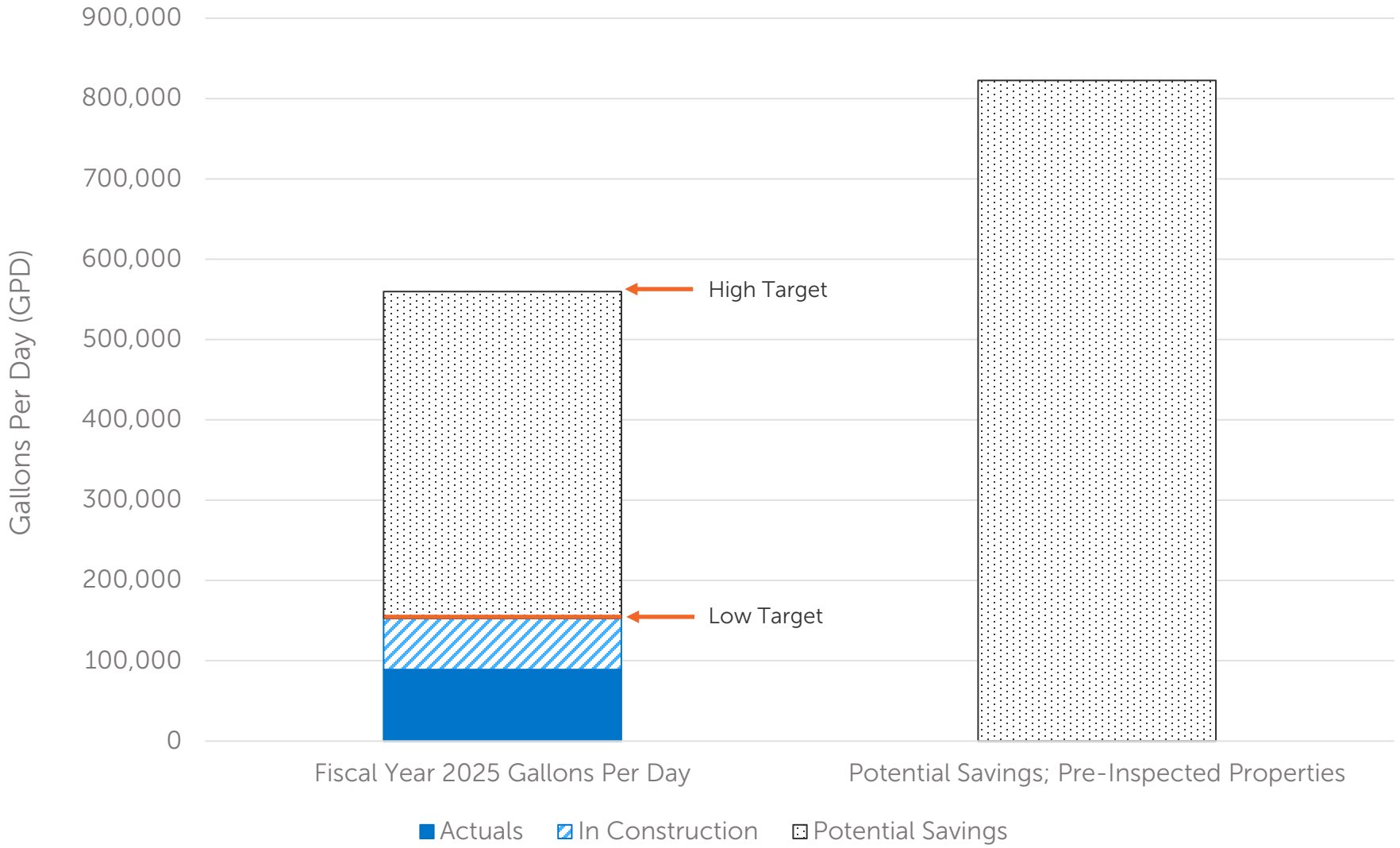
Tampa Bay Water Wise Update

Residential Sprinkler System Rebates: Pilot

- Pilot developed by working group, with input from contractors through the Florida Irrigation Society
- Duration: April – September 2025

Rebate Measure	Rebate Amount	Rebate Unit
Initial visit	$50	First visit
Install high-efficiency nozzles	$5	Per nozzle, minimum quantity of 10
Pressure regulated spray bodies	$10	Per head, minimum quantity of 10
Installation or repair of rain sensor/rain shut off device	$100	Per device, one allowed per customer
Cap heads that are not needed (permanently or temporarily disabled)	$3	Per head

Fiscal Year 2025: Actual and Potential Savings



Savings are on track to exceed the lower, annual target.
Potential savings would exceed high target if all customers completed projects.

Program Status

- **Program Costs**: To date program's cost effectiveness is the same as last year:
  - $0.78/1000 gallons – well below cost of new supplies
  - EGIA's administrative costs are 12% of total program costs
- **Contracts:** Re-issuing request for proposals for 3rd Party Rebate Administrator
- **Marketing:** 2025 increased marketing budget aims to increase water savings through:
  - More engagement in the commercial, school and local government sectors
  - Earned media opportunities
  - Support of member governments' communications, the 2nd largest source for completed applications

TAMPA BAY WATER

Questions?

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM C.2

DATE: February 28, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Planning and Projects Director

SUBJECT: Surface Water Treatment Plant Expansion, Project No. 01014, Amendment 2025-18 for Construction Phase Services of Agreement No. 2000-028 with Veolia Water North America Operating Services, LLC - *Approve*

SUMMARY

The Surface Water Treatment Plant Expansion, Project No. 01014 was approved as the next water supply project. A contract amendment has been negotiated with Veolia Water North America - South, LLC, for construction phase services.

SUGGESTED ACTION

Approve Amendment 2025-18 of Agreement 2000-028 with Veolia Water North America Operating Services, LLC. in the amount of $145,137,058.80, inclusive of $8,176,439.28 for Owner's Allowance.

COST/FUNDING SOURCE

$145,137,058.80 / Revenue Bonds

DISCUSSION

In August 2022, Tampa Bay Water's Board of Directors selected the Surface Water Treatment Plant Expansion, Project No. 01014 as the next water supply configuration for implementation by year 2028. The project is being implemented via amendment of Veolia Water North America Operating Services, LLC, (Veolia) Design, Construction and Operation Agreement No. 2000-028 and Progressive Design-Build with Guaranteed Maximum Price was selected as the project's delivery strategy. The overall project delivery scope comprises two major phases: Design Phase Services (Phase 1), which is underway, and Construction Phase Services (Phase 2). Attachment A provides the status of completed and upcoming activities.

At the May 2023 Board meeting the board approved Amendment 2023-15 for Design Services (Phase 1) including the development of alternatives evaluations; Basis of Design Report; 30% and 60% design documents, and support permits acquisition; among others. At the September and October 2024 board meetings the Board approved the two Early Equipment Packages (EPP) associated to the procurement of long-lead equipment some of which were purchased directly by Tampa Bay Water through the Agency's Owners Direct Purchase (ODP) Program. Amendment 2025-18 comprises activities associated with the Construction Phase Services (Phase 2) which includes the construction work to be performed by the Design-Build sub-contractor, CDM Constructors Inc., Veolia's Services during construction, and Owner's allowances.

Staff requests Board approval of the negotiated agreement amendment 2025-18 with Veolia Water North America Operating Services, LLC under Agreement 2000-028 in the amount of $145,137,058.80, inclusive of $8,176,439.28 for Owner's Allowance. The contract amendment is included in Attachment B and has been reviewed and approved as to form by Tampa Bay Water's General Counsel's Office.

BACKGROUND

At the August 2022 Board Meeting, the Board of Directors selected the Surface Water Treatment Plant Expansion, Project 01014, as the next water supply project to meet the region's future water supply needs. This project will increase Tampa Bay Water's annual average yield of existing surface water supplies by 10 to 12.5 million gallons per day (mgd) and is included in the Capital Improvements Program.

Attachments (2)

Attachment A - Surface Water Treatment Plant Expansion Project Status Report March 2025
Tampa Bay Water - Amendment 18 Veolia Signed
C.2 Surface Water Treatment Plant Expansion Amendment Presentation

Attachment A - Surface Water Treatment Plant Expansion, Project No. 01014, Project Status Report March 2025

In August 2022, Tampa Bay Water's Board of Directors selected the Surface Water Treatment Plant Expansion, Project No. 01014 as the next water supply configuration for implementation by year 2028. The project is being implemented via amendment of Veolia Water North America Operating Services, LLC, (Veolia) Design, Construction and Operation Agreement No. 2000-028. This report provides a status of completed, on-going, and future activities for this project.

Work Completed to Date:

- Development of the 60% design.
- Received Board approval to submit Environmental Resources Program permit application to the Southwest Florida Water Management District (SWFWMD)
- Received Board approval for:
    - the scope and fee documents for early procurement package 1
    - the design services for 90-100% design
    - the scope and fee documents for early procurement package 2
    - the submittal of the Environmental Resource Permit (ERP) application
- Conducted pre application meetings with the following agencies:
    - Florida Department of Environmental Protection (General Permit to Construct a Public Water System PWS)
    - Hillsborough County Site Development (Site Plan Approval)

Work In Progress and Upcoming Work:

- Issuance of Owner Direct Purchase (ODP) orders
- Receive Board Approval for Final Guaranteed Maximum Price and Veolia's Agreement Amendment

Overall Schedule (remaining activities):

- Final Guaranteed Maximum Price and Veolia's Agreement Amendment – March 2025
- Complete 90% Design – June 2025
- Start Construction – September 2025
- Finish Construction and Commissioning – Spring 2028

AMENDMENT #2025-18

This AMENDMENT #2025-18 ("**Amendment**") is entered into as of this 17th day of March, 2025, by and between **TAMPA BAY WATER, A Regional Water Supply Authority,** an interlocal governmental agency created and existing pursuant to Sections 163.01, 373.713, and 373.715, Florida Statutes, acting by and through its Board of Directors, the governing board thereof ("**Tampa Bay Water**"), **VEOLIA WATER NORTH AMERICA - SOUTH, LLC**, a limited liability company organized and existing under the laws of the State of Delaware and authorized to do business in the State of Florida (the "**Company**"), and **VEOLIA WATER NORTH AMERICA OPERATING SERVICES, LLC**, a limited liability company organized and existing under the laws of the State of Delaware and authorized to do business in the State of Florida, formerly known as US FILTER OPERATING SERVICES, INC. ("**Veolia Operating**"), collectively referred to herein as the "**Parties**".

RECITALS:

A. Tampa Bay Water and US Filter Operating Services, Inc., subsequently known as Veolia Water North America Operating Services, LLC, entered into that certain Surface Water Treatment Facility Design, Construction and Operation Agreement dated as of March 20, 2000, as amended by Amendment #2000-1 dated as of July 25, 2000, Amendment #2000-2 dated as of August 25, 2000, Amendment #2001-3 dated as of December 17, 2001, that certain Chemical Purchase Sales & Use Tax Savings Agreement dated as of March 18, 2002 (Amendment #2002-4), Amendment #2002-5 dated as of May 20, 2002, that certain No-Cost Change Order dated as of September 30, 2002, Amendment #2003-6 dated as of April 21, 2003, Amendment #2003-7 dated as of May 19, 2003, Amendment #2004-8 dated as of June 28, 2004, Amendment #2005-9 dated as of August 15, 2005, Amendment #2007-10 dated as of April 16, 2007 which provided for Facility Modification Work to increase the firm production capacity for Treated Water from the Facility to 99 MGD and re-rate the Facility to 120 MGD unless otherwise rated by the Florida Department of Environmental Protection, Amendment #2008-11 which implemented an owner's direct purchase program, Amendment #2008-12 which modified insurance requirements, Amendment #2017-13 which provided for Tampa Bay Water's withdrawal of funds from the Granular Activated Carbon Reserve Fund, Amendment #2022-14 which extended the term of the Agreement to January 15, 2028, Amendment #2023-15 which provided for certain identified scopes of work related to Facility Expansion Work, Amendment #2024-16 which provided for amendments to Facility Expansion Work, Amendment #2025-17 which provided for the Facility Expansion Work SCADA System Design, and this Amendment #2025-18, authorizing the Construction Phase Services (Phase 2) for the Facility Expansion Work (hereinafter referred to collectively as the "**Agreement**").

B. The Parties desire that the Company perform work described in Schedule 6H to increase treatment capacity of the Surface Water Treatment Plant by adding a fifth Actiflo/Ozone treatment train with ancillary support processes and modifications to support the added capacity, and various other capital replacements and/or improvements as provided in this Amendment 2025-18 (the "**Facility Expansion Work**").

C. The Parties further desire to establish guarantees for Facility Expansion Substantial Completion and Facility Expansion Final Completion (each as defined below) by the Company.

D. The Company is nearing completion of the Design Phase Services (Phase 1) in connection with the Facility Expansion Work as described in Amendment #2023-15 and Amendment #2024-16. A guaranteed maximum price has been developed and provided by the Company to Tampa Bay Water for the Facility Expansion Work and all costs, fees, expenses and charges included within the guaranteed maximum price (except with respect to those scopes of work being delivered on a lump sum basis) shall be subject to Open Book review and verification by Tampa Bay Water per Schedule 31A.

E. Any amendments necessary to the Agreement in order to authorize the Company to operate and maintain the Facility Expansion Work will be subject to a subsequent amendment to the Agreement negotiated in good faith by the Parties, and the Company will not be responsible for the operation and maintenance of the Facility Expansion Work prior to negotiation and execution of such amendment.

F. On March 17, 2025, the Board of Directors of Tampa Bay Water adopted the staff recommendation to approve this Amendment #2025-18 to authorize the Company to perform the Facility Expansion Work as set forth in this Amendment.

NOW, THEREFORE, in exchange for the mutual promises contained herein and for other good and valuable consideration, the sufficiency of which is hereby acknowledged, and intending to be legally bound, the Parties agree as follows:

1. **Recitals**. The above recitals are incorporated herein by reference.

2. **Definitions**.

(a) For purposes of this Amendment #2025-18 and the Agreement, all capitalized terms shall have the meanings set forth in the Agreement, unless otherwise defined in the above recitals or in this Section 2 of this Amendment.

(b) To the extent that the definition of any term set forth in Section 1.1 of the Agreement, in any amendment to the Agreement, or in a Schedule refers to any Section or Schedule which is amended, replaced, supplemented or in any way modified by this Amendment #2025-18, said definition, for the purposes of this Amendment #2025-18 and the Facility Expansion Work, is amended to refer to that Section or Schedule as set forth in this Amendment.

(c) The following definitions shall be added to Section 1.1 of the Agreement:

"Close-Out Requirements for the Facility Expansion Work" means the Company's obligations for closing out the Facility Expansion Work Construction Work and completing documentation of the Facility Expansion Work Construction Work pursuant to this Agreement, including, without limitation, such matters as submittal of "as-built" (or record) drawings, surveys, and manuals; cleanup and removal of construction materials and debris from the Site; and all other matters which this Agreement requires the Company to do and perform as part of the completion and winding-up of the Company's Facility Expansion Work Construction Work obligations.

"Facility Expansion Final Completion" means that the following conditions have been satisfied (or waived) with respect to the Facility Expansion Work as determined by Tampa Bay Water in good faith:

(1) A certificate of occupancy has been issued for the Facility Expansion Work;

(2) All Facility Expansion Work Construction Work (including all items on the Final Punch List for the Facility Expansion Work and all Close-Out Requirements for the Facility Expansion Work) is complete and in all respects is in compliance with this Agreement. All temporary structures, rubbish caused by the Company, Subcontractors, suppliers or the Facility Expansion Work Construction Work, and waste materials shall be removed from the Site and the Facility, and the same shall be in a clean, first-rate condition; and

(3) The Company has furnished to Tampa Bay Water all Deliverable Material and Record Documents required to be delivered hereunder.

"Facility Expansion Scheduled Final Completion Date" means April 14, 2028, as such date shall be adjusted due to delay caused by Uncontrollable Circumstances, Tampa Bay Water Fault or by a Tampa Bay Water requested Change Order.

"Facility Expansion Scheduled Substantial Completion Date" means February 20, 2028, as such date shall be adjusted due to delay caused by Uncontrollable Circumstances, Tampa Bay Water Fault or by a Tampa Bay Water requested Change Order.

"Facility Expansion Substantial Completion" means the following conditions have been satisfied (or waived) with respect to the Facility Expansion Work as determined by Tampa Bay Water in good faith:

(1) a preliminary or temporary certificate of occupancy has been issued for the Facility Expansion Work, if required by Applicable Law;

(2) the Company has delivered to Tampa Bay Water the warranties and written certification from equipment manufacturers that (subject to the Final Punch List and Close-Out Requirements for the Facility Expansion Work) all major items of machinery and equipment have been properly installed and tested in accordance with the manufacturers' recommendations and requirements;

(3) the Company has delivered to Tampa Bay Water the operation and maintenance manuals for the Facility Expansion Work;

(4) the Company and Tampa Bay Water have agreed in writing upon the Final Punch List (or, if they are unable to agree, Tampa Bay Water shall have prepared and issued the Final Punch List for the Facility Expansion Work to the Company within fifteen (15) business days of the Company having submitted its Final Punch List for the Facility Expansion Work to Tampa Bay Water). The Company shall retain its rights to dispute any items on the Tampa Bay Water Final Punch List upon which the Company has not previously agreed;

(5) The Company has submitted to Tampa Bay Water and Tampa Bay Water has reviewed and approved the plan for Acceptance Testing as required by Schedule 9B;

(6) Tampa Bay Water has the beneficial use of and is able to occupy the Facility Expansion Work and the Company has completed the Acceptance Testing set forth in Schedule 9B;

(7) The Company has delivered to Tampa Bay Water a Claims Statement setting forth in reasonable detail all unresolved claims of every kind whatsoever of the Company connected with, or arising out of, the Agreement or the Facility Expansion Work and arising out of or based on events prior to the date when the Company gives such statement to Tampa Bay Water; and

(8) The Company has submitted written certification that all of the foregoing conditions have been satisfied.

"Facility Expansion Work" means the engineering, design and construction work undertaken by the Company pursuant to Amendment #2023-15, Amendment #2024-16, Amendment #2025-17 and Amendment #2025-18, as described in Schedule 6H hereto.

"Facility Expansion Work Construction Work" means that certain portion of the Facility Expansion Work that consists of physical construction activities, as may be more particularly described in Schedule 6H.

"Final Punch List for the Facility Expansion Work" shall be a statement of repairs, corrections and adjustments to the Facility Expansion Work Construction Work, and incomplete aspects of the Facility Expansion Work Construction Work, which in the Company's opinion:

(1) the Company can complete before the Facility Expansion Scheduled Completion Date and with minimal interference to the occupancy, use and lawful operation of the Facility; and

(2) would represent, to perform or complete, a total cost of not more than 2.5% of the GMP (Facility Expansion Work) (unless Tampa Bay Water determines that a higher percentage is acceptable).

"Guaranteed Maximum Price (Facility Expansion Work)" (sometimes referred to as "GMP (Facility Expansion Work)") means the guaranteed not-to-exceed amount payable by Tampa Bay Water to Company on account of the Contract Sum (Facility Expansion Work) for the Facility Expansion Work, as such guaranteed maximum price shall be adjusted due to increased costs due to Uncontrollable Circumstances, Tampa Bay Water Fault or by a Tampa Bay Water requested Change Order.

"PFAS Class Actions" means the Aqueous Film-Forming Foam Product Liability Litigation brought against 3M, DuPont, Tyco and any other parties joined therein in the District Court for the District of South Carolina, Master Docket No. 2:18-MN-2873-RMG.

(d) The following terms defined in Section 1.1 of the Agreement are amended and replaced in their entirety to read as follows:

"Agreement" means this Surface Water Treatment Facility Design, Construction and Operation Agreement initially between Tampa Bay Water and USFilter Operating Services, Inc., subsequently known as Veolia Water North American Operating Services, LLC, whose rights and obligations were subsequently transferred and assigned without release to Veolia Water North America-South, LLC, including the Schedules and the Transaction Agreement Forms, as amended.

(e) For the purposes of the Facility Expansion Work, the definition of "Change in Law" shall be read such that each use of "Agreement Date" is replaced with "February 20, 2025."

(f) The definition of Change in Law is amended to insert "or" at the end of subsection (3) and to add a new subsection (4) to read in its entirety as follows:

"(4) the adoption, promulgation, issuance, modification or written change or increase in tariffs, duties or trade restrictions (collectively, "Tariffs") on or after February 20, 2025. For the avoidance of doubt, (A) any increase in the costs of the Company or its Subcontractors and/or impact on the Company's or its Subcontractors' schedule to perform the Facility Expansion Work due to Tariffs put into place on or after February 20, 2025 shall be deemed to have a material and adverse effect on the cost and/or schedule of performing the Facility Expansion Work, and (B) the Company shall be entitled to submit a Change Order due to the schedule and cost impacts of Tariffs put into place after February 20, 2025."

(g) A new subsection (1)(w) is hereby added to the definition of Uncontrollable Circumstances to read in its entirety as follows:

"(w) any delay in the issuance of the permits set forth immediately below beyond the applicable review period set forth immediately below:

Permit	Agency	Review Period (Calendar Days)
Environmental Resource Permit Modification	Southwest Florida Water Management District (SWFWMD)	60
Site Development Plan	Hillsborough County	60
FDEP – Drinking Water Facility Construction Permit	Florida Department of Environmental Protection	180
Air Construction Permit	Hillsborough County	30
Above Ground Storage Tank Registration	Florida Department of Environmental Protection	80
Building Permit (Single Overall Permit)	Hillsborough County	30

(h) Subsection (2)(j) of the definition of Uncontrollable Circumstances is hereby deleted and restated in its entirety as follows: "any impact of (but not subsequent changes to) applicable prevailing wage rates in effect and as interpreted as of February 20, 2025 on the Company's cost to perform the Facility Expansion Work".

(i) Subsection 2(m) of the definition of Uncontrollable Circumstances is hereby deleted and restated in its entirety as follows: "(m) without in any way limiting the application of subsection (4) of the definition of "Change in Law", a change in any Applicable Law pertaining to either sales tax on tangible personal property or federal or state Taxes applicable to the income of the Company or the Guarantor; or"

3. **Guaranteed Maximum Price**. The following shall be added to Article 4 of the Agreement as Section 4.17.16:

"4.17.16 GUARANTEED MAXIMUM PRICE (Facility Expansion Work)

(a) The Company has developed and provided Tampa Bay Water with a Guaranteed Maximum Price (GMP) (Facility Expansion Work) which is included in Schedule 30A hereof, and which is based upon drawings, specifications, prices, quotes, bids and other information, including addenda, that have been provided to Tampa Bay Water by the Company. The detailed requirements for, and governing the GMP (Facility Expansion Work) are attached hereto as Schedule 30A and Schedule 31A. Subject to relief that shall be provided to the Company due to the occurrence of an Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order, total payment made by Tampa Bay Water to the Company on account of the Contract Sum (Facility Expansion Work) shall not exceed the GMP (Facility Expansion Work); provided, however, that the Parties acknowledge and agree that compensation on account of (i) Cost Plus Items (as defined in Schedule 31A) and (ii) the Company's Portion of Owner's Allowance Budget (as defined in Schedule 31A) are not included in the GMP (Facility Expansion Work or the Contract Sum (Facility Expansion Work). The Company's obligations hereunder are not limited or in any way modified in the event that its actual costs, fees and expenses for those categories of expenses compensated on account of the Contract Sum (Facility Expansion Work) for Facility Expansion Work exceed the GMP (Facility Expansion Work). The GMP (Facility Expansion Work) includes the following:

(1) The sum of the Company's fee, profit and overhead, and the Company's determination of all costs, charges, expenses, contractor contingency, and fees, including those for management services, engineering and design for the Facility Expansion Work, with a detailed listing and explanation of all items included in the GMP (Facility Expansion Work);

(2) A list of all drawings, specifications, prices, quotes, bids and other information, including all addenda, used as the basis for the GMP (Facility Expansion Work);

(3) A list of assumptions and clarifications made by the Company in the preparation of the GMP (Facility Expansion Work);

(4) The scheduled Facility Expansion Substantial Completion and Facility Expansion Final Completion upon which the GMP (Facility Expansion Work) is based;

(5) A list of any allowances included in the GMP (Facility Expansion Work); and

(6) If applicable, any additional services included in the GMP (Facility Expansion Work).

(b) The Company shall develop and maintain a written report which identifies and explains all variances and deviations from each line item amount in the GMP (Facility Expansion Work) which shall be available for Tampa Bay Water's review. While individual line item amounts within the GMP (Facility Expansion Work) may be exceeded, in no event shall total payments by Tampa Bay Water to the Company on account of the Contract Sum (Facility Expansion Work) exceed the total GMP (Facility Expansion Work), unless caused by an Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order. If the Company's performance of the Facility Expansion Work is impacted by an Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order, Tampa Bay Water shall have the obligation to (i) grant schedule relief to the Company for and to the extent of the Uncontrollable Circumstance, Tampa Bay Water Fault or Tampa Bay Water requested Change Order (including, for the avoidance of doubt, an extension to the Facility Expansion Scheduled Substantial Completion Date and the Facility Expansion Scheduled Final Completion Date to account for the delay to the Facility Expansion Work caused by the applicable event), and (ii) approve an adjustment to the GMP (Facility Expansion Work) to account for the Company's increased costs due to the Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order. Tampa Bay Water's approval of either schedule relief or additional compensation shall not be unreasonably withheld, but any such approval shall be only to the extent of, and shall be limited by, the actual, verifiable costs or schedule delay directly attributable to and resulting from the Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order.

(c) In consideration of the performance of the Facility Expansion Work, Tampa Bay Water shall pay the Company, in current funds: (i) the "Contract Sum (Facility Expansion Work)" consisting of the Cost of the Work as defined in Section 31.3 of Schedule 31A, the Fixed Fee described in Section 31.4 of Schedule 31A, and the Field Services Fee as defined in Section 31.5 of Schedule 31A, (ii) amounts on account of the Cost Plus Items as described in Section 31.6 of Schedule 31A, (iii) amounts on account of the Company's Portion of the Owner's Allowance as described in Section 31.9 of Schedule 31A, (iv) any Contingency Savings due to the Company as described in Section 31.8 of Schedule 31A, and (v) additional amounts determined to be due to the Company under the Agreement, including as a result of Uncontrollable Circumstances, Tampa Bay Water Fault or by a Tampa Bay Water requested Change Order. The Parties acknowledge and agree that Sections 4.17.1 through 4.17.15 and 4.18 of the Agreement will not apply to payments on account of the Company's obligations to perform the Facility Expansion Work. Requirements related to the use of and compensation on account of the Contract Sum (Facility Expansion Work), the Design-Builder Contingency and Contingency Savings, the Company's Portion of Owner's Allowance Budget, and Cost Plus Items are set forth in Schedule 31A. Tampa Bay Water shall pay to the Company the amounts described in this Section 4.17.16(c) as described in Schedule 31A. Capitalized terms used but not defined in this Section 4.17.16(c) shall have the definitions set forth in Schedule 31A.

(d) The Company shall be permitted to suspend the performance of the Facility Expansion Work following any failure by Tampa Bay Water to timely pay any amount due to the Company on account of the Facility Expansion Work as provided for in and in accordance with Section 31.12 of Schedule 31A.

4. **Open Book Review**. The following shall be added to Article 4 of the Agreement as Section 4.20.2:

"4.20.2 OPEN BOOK REVIEW (Facility Expansion Work)

(a) The Company acknowledges that Amendment #2025-18, including the Facility Expansion Work and the GMP (Facility Expansion Work), shall be administered on an Open Book arrangement as described in Schedule 31A relative to all costs, fees, expenses and other charges for the Facility Expansion Work to the extent such costs, fees, expenses and other charges do not relate to scopes of the Facility Expansion Work that are delivered on a lump sum basis. All bid packages, bid awards and subcontracts, sole source determinations, requests for payment and invoices for the Facility Expansion Work are subject to Tampa Bay Water's Open Book review and verification that charges and costs reflected therein and payments requested are reasonable and necessary. All requests for payment or invoices shall be accompanied by sufficient documentation and records that allow Tampa Bay Water to conduct an Open Book review and verify that all costs, fees, expenses and charges reflected therein are reasonable and necessary. The requirements for monthly pay application packages are set forth in Section 31.10 of Schedule 31A. Open Book deliverables are identified in Section 31.15 of Schedule 31A.

(b) Tampa Bay Water has the right to reasonably request additional documentation and records if in its sole judgment additional information is necessary to conduct its Open Book review of any bid package, bid award or subcontract, sole source determination, request for payment or invoice (subject, in each case, to the requirements set forth in Schedule 31A). The Company shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management, using accounting and cost control systems in accordance with generally accepted accounting principles and approved by Tampa Bay Water. During the performance of the Facility Expansion Work and for a period of six (6) years after final payment related thereto, Tampa Bay Water, its agents and representatives shall be afforded access from time to time, upon reasonable notice, to the Company's records, books, correspondence, receipts, contracts and subcontracts, purchase orders, vouchers, memoranda and other data relating to the Facility Expansion Work, all of which the Company shall preserve for a period of six (6) years after final payment for the Facility Expansion Work. In addition to the foregoing, the criteria and requirements for Open Book review are set forth in Schedule 31A hereto, and the Company agrees to timely supply that information necessary for Tampa Bay Water to conduct and complete its Open Book review.

(c) Following Open Book review, Tampa Bay Water's payment of each invoice or request for payment from the Company shall be in accordance with the construction disbursement procedure set forth in Schedule 31A.

(d) The Company shall implement the competitive bidding process set forth in Section 31.16 of Schedule 31A. With the exception of sole source subcontracts or purchase orders identified and approved in Schedule 31A, all subcontracts or purchase orders shall be awarded to the lowest responsible and responsive bidder as determined by the Company in its reasonable discretion and subject to Tampa Bay Water's right to review and approve such selection, which approval shall not be unreasonably withheld. Tampa Bay Water may approve additional sole source contracts or purchase orders and may approve award to a bidder that was not the lowest responsive and responsible bidder when in the best interest of Tampa Bay Water, which approval shall not be unreasonably withheld.

5. **Practicability of Performance**. The following shall be added to the end of Section 2.2.7 of the Agreement:

"Notwithstanding anything in this Agreement to the contrary, the Parties acknowledge and agree that (i) the Company shall be solely liable under this Section 2.2.7 and elsewhere in the Agreement and Amendment #2025-18 for the practicability of the design of the Facility Expansion Work; and (ii) the Company shall be solely responsible for the design and construction of the Facility Expansion Work and for achieving Facility Expansion Final Completion."

6. **Design of the Facility Expansion Work**. The following shall be added at the end of Section 4.5.1 of the Agreement:

"Notwithstanding anything in this Agreement to the contrary and subject to any rights that may be provided to the Company due to an Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order, the Parties acknowledge and agree that (i) the Company shall be solely liable under this Section 4.5.1 and elsewhere in the Agreement and Amendment #2025-18 for the design of the Facility Expansion Work; and (ii) the Company shall be solely responsible for the design and construction of the Facility Expansion Work and for achieving Facility Expansion Final Completion."

7. **Construction of Facility Expansion Work**. The following shall be added to Article 4 of the Agreement as Section 4.25:

"4.25 CONSTRUCTION OF FACILITY EXPANSION WORK

4.25.1 General

The Facility Expansion Work will be designed, permitted and constructed in accordance with this Section 4.25 and Schedule 6H which sets forth the Preliminary Design/Design Criteria Package for the Facility Expansion Work.

4.25.2 Facility Expansion Work Notice to Proceed

The Company shall commence and proceed to undertake, perform and complete the design, permitting and construction of the Facility Expansion Work in accordance with Schedule 6H. Execution of Amendment 2025-18 shall be deemed the issuance by Tampa Bay Water of a limited Notice to Proceed to the Company authorizing completion of the design, engineering, procurement of equipment, executing subcontracts with selected subcontractors, soils testing and other work or services which do not involve physical construction activities. Tampa Bay Water shall promptly issue a Notice to Proceed to commence construction and the Company shall be permitted to commence the Facility Expansion Work hereunder involving physical construction work upon:

(a) The Company has delivered to Tampa Bay Water the Facility Expansion Work Performance and Payment Bonds in substantially the form set forth in Schedule 13B hereto in the amount of the Guaranteed Maximum Price (Facility Expansion Work); and

(b) The Company has provided to Tampa Bay Water certificates evidencing the required insurance acceptable to Tampa Bay Water in its reasonable discretion for the Company and all subcontractors as set forth in Schedule 12C hereto.

4.25.3 Performance of Facility Expansion Work Construction Work

(a) The Company's performance of the Facility Expansion Work Construction Work shall be governed by Sections 4.2, 4.3, 4.4.3, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17.16, 4.19, 4.20 and 4.20.2 of Article IV of the Agreement as amended; provided however that solely for the purpose of this Section 4.25.3: (i) any reference in any of these enumerated Sections in Article IV to the Acceptance Standards shall be to the Facility Expansion Work acceptance standards, as described in Schedule 6H and Schedule 9B hereto; (ii) any reference in any of these enumerated Sections of Article IV to the Construction Date shall be to the date upon which the Company may commence the Facility Expansion Work Construction Work pursuant to Section 4.25.2 above; (iii) any reference in any of these enumerated Sections of Article IV to the Construction Period shall be to the period from and including the date upon which the Company may commence the Facility Expansion Work pursuant to Section 4.25.2 above to the Facility Expansion Final Completion pursuant to Section 4.25.4 below; (iv) any reference in any of these enumerated Sections in Article IV to the Construction Schedule of Values or Schedule 3 shall be to the Facility Expansion Work schedule of values agreed as described in Schedule 31A; (v) any reference in any of these enumerated Sections of Article IV to Construction Work shall be to the Facility Expansion Work Construction Work; (vi) any reference in any of these enumerated Sections of Article IV to Final Completion shall be to Facility Expansion Final Completion pursuant to Section 4.25.4 below; (vii) any reference in any of these enumerated Sections of Article IV to the Fixed Construction Price shall be to the Contract Sum (Facility Expansion Work), subject to the Guaranteed Maximum Price (Facility Expansion Work) and any additional compensation authorized in this Amendment; (viii) any reference in any of these enumerated Sections of Article IV to the Design Requirements shall be to the Facility Expansion Work Design Requirements set forth in Schedule 6H hereto; (ix) any reference in any of these enumerated Sections of Article IV to the Scheduled Final Completion Date shall, for purposes of this Amendment #2025-18, be to the Facility Expansion Scheduled Final Completion Date; (x) the forty-eight (48) hour notice requirement in Section 4.12.5 shall not apply and in lieu thereof a twenty-four (24) hour notice requirement shall apply; (xi) alternate proposals and alternate designs described in Section 4.5.1 do not apply to the Facility Expansion Work; (xii) any references to required insurance or an insurance program shall be deemed to refer to the required insurance set forth in Schedule 12C; and (xiii) all Progress Schedule submissions provided for in Section 4.11.2 will include both Electronic (P6 Backup) as well as paper copies of said submissions; and (xiv) the exclusion for delays in delivery of equipment or material purchased by the Company or its Subcontractors in Section 4.15.9.2 shall not apply to equipment purchased pursuant to Tampa Bay Water's owner's direct purchase program.

(b) The Company shall have sole and exclusive responsibility for completion and acceptance of the Facility Expansion Work Construction Work. The Company has not, and shall not, rely upon the advice, comments, or other information which may be provided by Tampa Bay Water, its employees, contractors or agents in connection with the means, methods, techniques, sequences, or procedures necessary or desirable to complete its obligations under Amendment #2025-18, as the Company shall retain exclusive responsibility for the same. The Company acknowledges and agrees that such advice, comments, or other information are being

provided expressly without (and with an express disclaimer of any) representations or warranties as to the qualifications or expertise of the authors thereof, or the completeness or accuracy of the facts, presumptions and conclusions contained or reflected therein, whether in oral or written form.

4.25.4 Facility Expansion Substantial Completion and Facility Expansion Final Completion

The Company shall complete the Facility Expansion Work in strict accordance with the Agreement, the Acceptance Testing requirements specified in Schedule 9B, and the Facility Expansion Work Design Requirements as set forth in Schedule 6H. The Company shall undertake and complete all Acceptance Testing specified in Schedule 9B.

The Company shall issue a notice to Tampa Bay Water at least thirty (30) days prior to the date upon which it anticipates achieving (i) Facility Expansion Substantial Completion, or (ii) substantial completion of a portion of the Facility Expansion Work that Tampa Bay Water has agreed to accept prior to Facility Expansion Substantial Completion. Partial substantial completion and/or turnover of a portion of the Facility Expansion Work (e.g. filter presses or selected system or equipment turnover) shall be allowed ahead of full Facility Expansion Substantial Completion. Liquidated damages shall not apply to partial substantial completion milestones. At least fifteen (15) days prior to the date upon which the Company anticipates achieving Facility Expansion Substantial Completion, the Company shall deliver to Tampa Bay Water a proposed Final Punch List for Tampa Bay Water's review and concurrence. Within four (4) days of the Company's issuance to Tampa Bay Water of a notice of achievement of Facility Expansion Substantial Completion or substantial completion of a portion of the Facility Expansion Work, Tampa Bay Water and the Company will jointly inspect the Facility Expansion Work (or portion thereof) to verify that it is substantially complete in accordance with this Agreement. If the Facility Expansion Work (or portion thereof) has satisfied the conditions to Facility Expansion Substantial Completion, Tampa Bay Water shall prepare and issue a Certificate of Substantial Completion that will set forth (i) the date of Facility Expansion Substantial Completion or portion thereof; (ii) with respect to Facility Expansion Substantial Completion, the Final Punch List; (iii) provisions (to the extent not already provided in the Agreement) establishing the Company's responsibility for the Facility Expansion Work security, maintenance, utilities and insurance pending final payment; and (iv) an acknowledgment that warranties commence to run on the date of Facility Expansion Substantial Completion. If Tampa Bay Water determines that the Facility Expansion Work has not satisfied the conditions to Facility Expansion Substantial Completion, the Company shall address any conditions to Facility Expansion Substantial Completion that have not been satisfied, and may subsequently request that Tampa Bay Water participate in a joint inspection for the determination of satisfaction of the conditions to Facility Expansion Substantial Completion, which joint inspection shall occur promptly, and in any event within two (2) business days of the Company's request for subsequent inspection. For any portion of the Facility Expansion Work wherein partial substantial completion is achieved, all associated warranty periods shall commence from such date of partial substantial completion.

The Company shall issue a notice to Tampa Bay Water at least fifteen (15) days prior to the date upon which it anticipates achieving Facility Expansion Final Completion. Within

four (4) days of the Company's issuance to Tampa Bay Water of a notice of achievement of Facility Expansion Final Completion, Tampa Bay Water and the Company will jointly inspect the Facility Expansion Work to verify that it has achieved Facility Expansion Final Completion in accordance with this Agreement. If the Facility Expansion Work has satisfied the conditions to Facility Expansion Final Completion, Tampa Bay Water shall prepare and issue a Certificate of Final Completion that will set forth the date of Facility Expansion Final Completion. If Tampa Bay Water determines that the Facility Expansion Work has not satisfied the conditions to Facility Expansion Final Completion, the Company shall address any conditions to Facility Expansion Final Completion that have not been satisfied, and may subsequently request that Tampa Bay Water participate in a joint inspection for the determination of satisfaction of the conditions to Facility Expansion Final Completion, which joint inspection shall occur promptly, and in any event within four (4) days of the Company's request for subsequent inspection.

4.25.5 Tampa Bay Water Options

Tampa Bay Water shall have the option, to be exercised in its sole discretion, of extending the Facility Expansion Scheduled Substantial Completion Date or Facility Expansion Scheduled Final Completion, and of modifying, suspending or waiving all or any portion of the Facility Expansion Work Design Requirements and declaring that the Facility Expansion Work has met Tampa Bay Water's acceptance standards as such standards are described in the Facility Expansion Work Design Requirements set forth in Schedule 6H.

4.25.6 No Adjustment to Guaranteed Maximum Price

Subject to the immediately following sentence, the Company shall perform the Facility Expansion Work Construction Work without change in the Guaranteed Maximum Price (Facility Expansion Work); provided that the Parties acknowledge and agree that compensation on account of (i) Cost Plus Items (as defined in Schedule 31A) and (ii) the Company's Portion of Owner's Allowance Budget (as defined in Schedule 31A) are not included in the GMP (Facility Expansion Work or the Contract Sum (Facility Expansion Work). The Parties acknowledge and agree that the Company shall have the right to equitable schedule and cost relief to the extent the Company's performance of the Facility Expansion Work is impacted by an Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay Water requested Change Order. Tampa Bay Water shall pay the Company for the Facility Expansion Work based on invoices or requests for payment prepared by the Company in accordance with Schedule 31A hereof, which have been submitted, reviewed and processed in accordance with the requirements and specifications for Open Book review of said invoices or requests for payment set forth in Section 4.20.2 above and Schedule 31A.

4.25.7 Retainage

The Company shall withhold as retainage five percent (5%) from every invoice or request for payment from its Contractors, Subcontractors and equipment suppliers. The Parties agree that Tampa Bay Water has no obligation or responsibility to the Contractors, Subcontractors or equipment suppliers for payment of the retainage amounts withheld by the Company prior to completion of the Acceptance Testing. Upon the Company's successful completion of Acceptance Testing required by Schedule 9B which demonstrates that the Acceptance Standards in Schedule 9B have been achieved, the Company shall submit a partial

retainage invoice to Tampa Bay Water for an amount equal to the full retainage withheld by the Company minus one hundred fifty percent (150%) of the amount required to complete all post-Acceptance Test punch-list items, as mutually agreed by the Parties, which amount shall be paid in accordance with the payment procedures set forth in this Schedule 31A. Tampa Bay Water shall pay to the Company the remaining retainage upon completion of all post-Acceptance Test punch list items and Facility Expansion Final Completion, as applicable.

4.25.8 Planned and Unplanned Facility Closures

(a) The Parties acknowledge that the Facility may be shut down or have limited production capabilities in order for the Company to perform and complete the Facility Expansion Work and its other obligations under Amendment #2025-18. The Company shall not be subject to any Service Fee Adjustments for Undelivered Water or any other Performance Liquidated Damages related to such Facility shut downs or limited production capabilities so long as: (i) such shut down or limited production is included in the Facility Transition Plan set forth in Schedule 15B hereto, as agreed to by the Parties through the MOPO plan, or as otherwise provided in the approved Project Schedule, or (ii) the Company has provided written notice to Tampa Bay Water at least thirty (30) days prior to such shut down or period of limited production capabilities setting forth the duration, including specific dates, of such shut down or period of limited production capabilities, or (iii) the Company and Tampa Bay Water have otherwise agreed to the proposed shut down or production capability limitation (all such periods of shut down or limited production capabilities described in each of subsections (i), (ii) or (iii), "**Planned Closures**"). The Parties shall work together in good faith to accommodate additional Planned Closures as reasonably necessary to facilitate the completion of the Facility Expansion Work in accordance with the Project Schedule and to accommodate Tampa Bay Water's obligations to provide water to its members.

(b) If (i) the Facility is shut down or has limited production capabilities due to the performance of the Facility Expansion Work, and (ii) such shut down or limited production capabilities are not Planned Closures, such periods of shutdown or limited production capabilities shall be deemed "**Unplanned Closures**". If an Unplanned Closure results in the potential application of a Service Fee Adjustment for Undelivered Water or other Operation Period liquidated damages (collectively, "**Unplanned Closure LDs**"), (A) such Unplanned Closure LDs shall be applied at a rate equal to 50% of the rate set forth in the Agreement for Service Fee Adjustments or Operation Period liquidated damages, and (B) the Company shall not be deemed liable, and such Unplanned Closure LDs shall be deemed waived, insofar as such Unplanned Closure LDs (at a rate equal to 50% of the rate set forth in the Agreement) do not exceed, in the aggregate, $600,000 (the "**Unplanned Closure LD Deductible**"). If the Company incurs Unplanned Closure LDs in excess of the Unplanned Closure LD Deductible (such excess amount, "**Excess Unplanned Closure LDs**"), the Company shall only be responsible for such Excess Unplanned Closure LDs if (1) the Unplanned Closure was caused by the negligence or willful misconduct of the Company or its Subcontractors, or (2) the Unplanned Closure was due to the failure by the Company or its Subcontractors to provide advance notice to Tampa Bay Water of a reasonably anticipated shutdown or a reasonably anticipated period of limited production capabilities of the Facility. The Company's maximum aggregate cumulative liability for Excess Unplanned Closure LDs shall be $1,000,000.

(c) Notwithstanding anything to the contrary in the Agreement, Unplanned Closure LDs shall be deemed waived to the extent that the Company produces enough Treated Water above Tampa Bay Water's firm demand request within the three (3) days following the conclusion of the Unplanned Closure to make up for the shortfall that resulted in the Unplanned Closure LDs. Tampa Bay Water will work in good faith with the Company to supply sufficient amounts of Raw Water to reasonably accommodate the Company's efforts to eliminate shortfall values subject to Service Fee Adjustment. In the event that Tampa Bay Water cannot accommodate production by either Raw Water or Finished Water restrictions to address a given shortfall, the three (3) day duration of opportunity to produce makeup quantities shall be reasonably extended by consent of Tampa Bay Water, not to be unreasonably withheld.

(d) The Parties acknowledge that nothing herein shall prohibit the Company from seeking relief from Tampa Bay Water due to an Uncontrollable Circumstance, Tampa Bay Water Fault or Tampa Bay Water requested Change Order related to a shut down or limitation of the production capabilities of the Facility."

8. **Construction Delay Liquidated Damages**. The Parties acknowledge and agree that time is of the essence in the Facility Expansion Work and that Tampa Bay Water will suffer significant loss if the Facility Expansion Work does not achieve Facility Expansion Substantial Completion by the Facility Expansion Scheduled Substantial Completion Date, or the Facility Expansion Work does not achieve Facility Expansion Final Completion by the Facility Expansion Scheduled Final Completion Date. In such event, the total amount of Tampa Bay Water's damages will be difficult to ascertain and quantify because this is a public construction project which, when completed, will provide a public benefit to the Tampa Bay area. Therefore, if the Company fails to achieve Facility Expansion Substantial Completion by the Facility Expansion Scheduled Substantial Completion Date, or the Facility Expansion Final Completion by the Facility Expansion Scheduled Final Completion Date, as applicable, except in each case to the extent that such delay is due to Uncontrollable Circumstance, Tampa Bay Water Fault, or Tampa Bay Water requested Change Order, the Company shall pay to Tampa Bay Water delay liquidated damages in the amount shown in Table 5-b immediately below, based on the number of days that (i) Facility Expansion Substantial Completion occurs after the Facility Expansion Scheduled Substantial Completion Date or (ii) Facility Expansion Final Completion occurs after the Facility Expansion Scheduled Final Completion Date, as applicable. If Facility Expansion Substantial Completion or Facility Expansion Final Completion is delayed due to Uncontrollable Circumstance, Tampa Bay Water Fault, or Tampa Bay requested Change Order, the Facility Expansion Scheduled Substantial Completion Date or the Facility Expansion Scheduled Final Completion Date (or both, as applicable) shall be adjusted by the Parties to account for such delay, and liquidated damages shall commence, if at all, on the first day that the Company cannot establish that such delay is directly and primarily due to Uncontrollable Circumstance, Tampa Bay Water Fault or a Tampa Bay requested Change Order, as applicable.

Liquidated Damages set forth in Table 5-b below represent a fair and reasonable estimate of Tampa Bay Water's actual damages in this circumstance and are not a penalty.

Table 5-b Delay Liquidated Damages

1. From the Facility Expansion Scheduled Substantial	$4,000 per day beginning on Facility Expansion Scheduled

	Completion (as extended) to the date on which Facility Expansion Substantial Completion occurs	Substantial Completion (as extended) and continuing until the date on which Facility Expansion Substantial Completion is achieved;
2.	From the Facility Expansion Scheduled Final Completion Date to the date on which Facility Expansion Final Completion occurs	$1,000 per day beginning on Facility Expansion Scheduled Final Completion Date and continuing until the date on which Facility Expansion Final Completion is achieved

Note: Delay liquidated damages provided for herein shall be additive if Facility Expansion Substantial Completion occurs after Facility Expansion Scheduled Final Completion Date and shall continue in this manner until Facility Expansion Substantial Completion is achieved.

9. **Bonds.** As a condition to Tampa Bay Water's issuance of the Notice to Proceed with the Facility Expansion Work Construction Work under the terms of this Amendment #2025-18, the Company shall furnish Facility Expansion Work Performance and Payment Bonds acceptable to Tampa Bay Water in the form set forth in Schedule 13B in the amount of the Guaranteed Maximum Price (Facility Expansion Work).

10. **Subcontractor Review**. Section 13.8.1 of the Agreement is deleted in its entirety and replaced with the following:

"13.8.1 Subcontractor Review and Approval

Tampa Bay Water shall have the right to approve any Subcontractor engaged in any portion of the Facility Expansion Work or Operation Services at the Facility the value of which exceeds one-tenth of one percent (0.10%) of the GMP (Facility Expansion Work). Tampa Bay Water's review and approval of any proposed Subcontractor shall not be unreasonably withheld. The Company shall furnish Tampa Bay Water with copies of all bid packages, copies of bids received and written notice of its intention to engage Subcontractors, together with all information requested or otherwise available to the Company in order to allow Tampa Bay Water to conduct an Open Book review of Subcontractor work or services and conclude that: (a) such work or services are reasonable and necessary; (b) no conflicts of interest exist; (c) there is no record of criminal conviction or pending criminal investigation; (d) there is no final judicial or administrative finding or adjudication of illegal employment practices or discrimination; (e) State or local Taxes have been unpaid; and (f) there is no judicial or administrative finding or adjudication of non-performance in contracts within the past ten (10) years.

Before any subcontract is awarded, the proposed Subcontractor shall execute and provide to Tampa Bay Water an affidavit attesting to each item (a) through (f) hereof, and in addition shall execute a Non-Collusion Affidavit in substantially the same form as provided in Attachment 2 to Schedule 31A to the Agreement. In the event Tampa Bay Water fails to respond to any notice of intention to engage Subcontractor within thirty (30) days of receipt of such

notice, unless a shorter period is agreed to in writing by Tampa Bay Water, Tampa Bay Water shall be deemed to have approved the proposed Subcontractor. If Tampa Bay Water requests additional information or a supplementary Subcontractor affidavit in response to such notice, an additional thirty (30) day period of review shall commence upon Tampa Bay Water's receipt of the requested information or supplementary affidavit. In no event shall any Subcontract be awarded to any person, company or other entity that is or has been debarred, suspended or disqualified by federal, State, local or Tampa Bay Water contracting authorities for any service or work within the scope of the Facility Expansion Work or Operation Services at the Facility.

The Parties acknowledge and agree that, with respect to the Facility Expansion Work, Tampa Bay Water has approved those Subcontractors set forth in Schedule 31A as of the effective date of Amendment #2025-18."

11. **Schedule Amendments, Supplements and Additions.**

(a) The Schedules of the Agreement listed below in the column marked "Original Schedule" as well as any previous replacement, amendment or modification thereto, shall be amended and replaced by the Schedules attached hereto as indicated in the column marked "Replacement Schedule". All references in the Agreement and any amendment thereto, to the Schedule numbers listed in the column marked "Original Schedule" shall hereafter be references to the Schedule numbers in the column marked "Replacement Schedule", and said "Replacement Schedule" shall supersede and replace the "Original Schedule" as well as any previous replacement, amendment or modification thereof.

Original Schedule	**Replacement Schedule**
Schedule 7B	Schedule 7C [Permits & Approvals (Facility Expansion Work)]
Schedule 9A	Schedule 9B [Acceptance Testing (Facility Expansion Work)]
Schedule 10A	Schedule 10B [Tampa Bay Water Review]
Schedule 12B	Schedule 12C [Insurance]
Schedule 13A	Schedule 13B [Form of Bonds (Facility Expansion Work)]
Schedule 19B	Schedule 19C [Project Schedule (Facility Expansion Work)]
Schedule 22	Schedule 22A [Facility Expansion Option (Facility Expansion Work)]

(b) Schedule 6H [Preliminary Design/Design Criteria Package] attached hereto shall supplement Schedules 6, 6A, 6B, 6C, 6D, 6E, 6F, and 6G of the Agreement, and to the extent

that Schedule 6H conflicts with Schedules 6, 6A, 6B, 6C, 6D, 6E, 6F, or 6G, then Schedule 6H shall control.

(c) Schedule 3B [Projected Cash Flow (Facility Expansion Work)], Schedule 4C [Connections with Tampa Bay Water System], Schedule 15B [Transition Plan (Facility Expansion Work)], Schedule 30A [Guaranteed Maximum Price (Facility Expansion Work)], Schedule 31A [Open Book Criteria and Requirements (Facility Expansion Work)], and Schedule 33 [Company Scope of Services (Facility Expansion Work)] are adopted and shall be deemed Schedules to the Agreement upon execution of this Amendment #2025-18.

12. **Operation, Maintenance, Repair and Major Equipment Renewals and Replacements of Facility.** The Parties acknowledge and agree that the Company shall not be responsible for the operation, maintenance and repair of the Facility Expansion Work upon Facility Expansion Final Completion pursuant to this Amendment #2025-18. The Parties intend to negotiate in good faith an amendment to the Agreement setting forth the Company's responsibility for such operation, maintenance and repair following execution of this Amendment #2025-18. Nothing herein shall be deemed to release the Company from its obligations to operate, maintain, and repair the Facility, excluding the Facility Expansion Work, as provided for under the Agreement.

13. **PFAS Requirements**. The following provision is hereby added as a new Section 7.7.5 in the Agreement:

"**7.7.5 PFAS Treatment Obligations.**

Tampa Bay Water agrees that the Company has no responsibility hereunder whatsoever with respect to any per- and polyfluoroalkyl substances (PFAS) related to the Facility, including to conduct any testing, provide any notice or advice, or install, operate, or maintain any PFAS treatment system for the Facility. Upon Company's request, Tampa Bay Water shall provide any existing test reports, which are not otherwise protected from any privilege from disclosure under Applicable Law (i.e., attorney-client privileged, work-product, or subject to another privilege or exemption from disclosure) for regulated or unregulated contaminants for all influent sources to the Facility. Further, at any time when such testing is required by Applicable Laws, Tampa Bay Water shall test the influent to the Facility for compliance with all Applicable Laws (including, without limitation, those applicable standards and requirements promulgated by the U.S. Environmental Protection Agency and those relating to PFAS), and shall promptly provide to the Company such testing results subject to the same protections of disclosure under Applicable Law as provided for herein. To the extent the Facility is in non-compliance with any Applicable Law applicable to PFAS, including any federal maximum contaminant level for regulated PFAS in drinking water, Tampa Bay Water (i) will be responsible for (A) any required notification to its member utilities, (B) installation of PFAS treatment, and (C) if necessary, the negotiation of any administrative consent order with local environmental regulators to address the PFAS non-compliance, and (ii) shall perform any and all actions necessary to bring the Facility into compliance with Applicable Law applicable to PFAS (including those referenced in Section 7.7.5(i)) in a timely manner. To the maximum extent allowed under Applicable Law, Tampa Bay Water shall reimburse the Company and its officers, directors, employees, contractors and agents for (1) any and all losses, liabilities, damages, and expenses incurred by the Company as a result of Tampa Bay Water's failure to perform any actions for which it is responsible pursuant to this

Section 7.7.5 and (2) for any and all losses, liabilities, damages, and expenses incurred by the Company as a result of Tampa Bay Water's use of the settlement funds from the PFAS Class Actions for purposes other than matters addressed or resolved through Tampa Bay Water's participation in the PFAS Class Actions."

14. **Indemnity**. Section 11.3.1 of the Agreement is deleted in its entirety and replaced with the following:

"Pursuant to Sections 725.06 and 725.08, Florida Statutes, the Company shall indemnify and hold harmless Tampa Bay Water, its officers, directors, and employees (collectively, the "Tampa Bay Water Indemnitees") from and against claims, losses, damages, liabilities, including reasonable attorneys' fees to the extent caused by the negligence, recklessness or intentionally wrongful conduct of the Company and other persons employed or utilized by the Company in the performance of the Agreement. The Company's duty to indemnify under this Section shall not extend to claims, demands, causes of action, damages, liabilities, losses or expenses to the extent due to: (i) the negligence of a Tampa Bay Water Indemnitee; or (ii) any act or omission of a Tampa Bay Water Indemnitee judicially determined to be responsible for or, to the extent of the contribution, contributing to the loss or expense. Nothing herein shall be deemed to abridge the right of Tampa Bay Water to such contribution where appropriate. These indemnification provisions are for the protection of the Tampa Bay Water Indemnitees only and shall not establish, of themselves, any liability to third parties; and the Company and each Tampa Bay Water Indemnitee reserve any defenses they may have to any such third party claim. This indemnification obligation shall include, but is not limited to, all claims against the Tampa Bay Water Indemnitees by an employee or former employee of the Company, the Guarantor or any Subcontractor. The provisions of this Section shall survive termination of this Agreement. In carrying out any of the provisions of this Agreement or in exercising any authority granted by this Agreement, there will be no personal liability upon any public official, except in the case of intentional misconduct."

15. **Miscellaneous Agreement Revisions**.

(a) The third sentence of Section 4.10.2.5 of the Agreement is hereby deleted in its entirety and replaced with the following: 'When the Company is notified by the Tampa Bay Water Engineer of rejection of Defective Construction Work, the Company shall promptly, and in any event within seven (7) days, commence action to correct such work."

(b) The last sentence of Section 4.14.1 of the Agreement is hereby deleted and replaced with the following: "All costs involved and time required to perform these responsibilities shall be considered as having been included in the GMP (Facility Expansion Work) and in the Project Schedule for performing the Facility Expansion Work, with the exception of any damage or rework needed to address newly discovered underground utilities or completion of any work covered by an allowance item as described in Schedule 31A."

(c) The last sentence of Section 4.14.3 of the Agreement is deleted in its entirety and replaced with the following: "All damage, injury or loss to property caused, directly or indirectly, in whole or part, by the Company, any Subcontractor or Supplier or anyone for whose

acts any of them are liable in connection with the Facility Expansion Work, shall be remedied at the Company's expense."

(d) Section 4.15.12 is deleted in its entirety and replaced with the following: Tampa Bay Water reserves the right to let other contracts in connection with work relating to the Parent Site (including, without limitation, the Facility Site) other than the Facility Expansion Work Construction Work. The Company shall afford other contractors reasonable opportunity for the introduction and storage of their equipment and materials for the execution of their construction work and shall properly interface its Facility Expansion Work Construction Work with their work. If the execution of any part of the Facility Expansion Work Construction Work depends on the performance of any other contractor, Utility company or Tampa Bay Water (but not including any Subcontractor or Supplier of the Company), the Company shall promptly provide Notice to the Tampa Bay Water Engineer of any defects or deficiencies in such other tie-in work that render it incompatible with the intended results of these Design Requirements. The Company's failure to provide the required Notice shall constitute an acceptance of the work by others as being fit and proper for integration with the Facility Expansion Work Construction Work. Delays caused by other contractors working on the Site, who are engaged directly by Tampa Bay Water and not subject to Company supervision or control, shall be considered delays caused by Tampa Bay Water Fault, for purposes of Section 4.15.9; provided that the Company complies with the notice requirements in the definition of Tampa Bay Water Fault. Tampa Bay Water shall supervise, coordinate and direct its separate contractors so as to not interfere with or impact the Facility Expansion Work.

(e) The following is added to the end of Section 7.7.3.3 of the Agreement: "With respect to any Hazardous Substance or Hazardous Waste for which Tampa Bay Water is responsible as set forth in this Section 7.7.3.3, the Company shall be obligated to resume the Facility Expansion Work at the affected area of the project only after the Company's receipt of a written certification reasonably acceptable to the Company that (i) the Hazardous Substance or Hazardous Waste has been removed or rendered harmless; and (ii) all necessary approvals have been obtained from all government and quasi-government entities having jurisdiction over the project or Site related to such Hazardous Substance or Hazardous Waste. To the fullest extent permitted by Applicable Law, Tampa Bay Water shall hold harmless the Company, its officers, directors, employees, contractors and agents against any and all claims, losses, damages, liabilities and expenses, including reasonable attorneys' fees and expenses, arising out of or resulting from the presence, removal or remediation of Hazardous Substances or Hazardous Waste for which Tampa Bay Water is responsible as set forth in this Section 7.7.3.3."

16. **Dispute Resolution Amendments for Facility Expansion Work**.

(a) Section 10.1.1 of the Agreement is deleted in its entirety and replaced with the following:

"10.10.1 Designation of Independent Engineer

Tampa Bay Water, the Company and the Company's design-build contractor (the "Design-Builder" and, together with Tampa Bay Water and the Company, the "Facility Expansion Parties") shall collectively agree upon the selection of the Independent Engineer prior to the issuance of a Notice to Proceed with the Facility Expansion Work, and thereafter (through the Facility Expansion Final Completion) within thirty (30) days of the resignation, removal, disqualification under Section 10.10.2, or unavailability of any previously serving Independent Engineer. The Facility Expansion Parties shall select an Independent Engineer from a list mutually agreed upon by the Facility Expansion Parties

of five (5) nationally recognized individuals with knowledge with respect to the design/build, acceptance testing, commissioning, and operation and maintenance of water treatment plants. The fees of the Independent Engineer shall be shared equally by Facility Expansion Parties who are party to the dispute. The Facility Expansion Parties shall cooperate to establish the terms and conditions of the Independent Engineer's retention which are mutually satisfactory to the Facility Expansion Parties, it being the intent of the Facility Expansion Parties that the activities of the Independent Engineer be limited to the resolution of disputes among and between the Facility Expansion Parties and related questions, and that the Independent Engineer not be retained on a full-time basis. The Facility Expansion Parties shall hold harmless and indemnify the Independent Engineer from any liability for its work performed under this Agreement. If the Independent Engineer resigns, dies, is disqualified, or becomes incapacitated, or if any Facility Expansion Party reasonably and in good faith desires to terminate the services of the selected Independent Engineer (provided, however, that the Independent Engineer may not be terminated while engaged in a dispute resolution pursuant to this Agreement), then the Facility Expansion Parties shall mutually select a successor Independent Engineer from the above-described list."

(b) Section 10.10.2 of the Agreement is deleted in its entirety and replaced with the following:

"**10.10.2. Independence**

The Independent Engineer shall retain independence of all Facility Expansion Parties and the parties to this Agreement, including the Member Governments of Tampa Bay Water. The Design-Builder, the Company, Tampa Bay Water and the Member Governments shall not engage or attempt to engage the services of the Independent Engineer for any other purposes without prior written notice to, and the consent of, all Facility Expansion Parties. Unless consented to by all Facility Expansion Parties, the separate engagement of the Independent Engineer by the Design-Builder, Company, Tampa Bay Water, or any Member Government party shall disqualify the Independent Engineer from continuing to serve in the capacity of Independent Engineer."

(c) Section 10.10.3 of the Agreement is deleted in its entirety and replaced with the following:

"**10.10.3. Establishment of Dispute Resolution Committee**

(a) The Parties shall establish, within forty-five (45) days after the Contract Date, a dispute coordination committee (the "Committee") consisting of two (2) management representatives each from Tampa Bay Water and the Company. The representatives to the Committee shall be appointed by both Parties within the aforesaid forty-five (45) day period, and written notice of such appointment shall be delivered to each other. In the event any Party's representative changes, the other Party shall be notified within fifteen (15) days of the change.

(b) The Facility Expansion Parties shall establish, within thirty (30) days after the effective date of Amendment #2025-18 to this Agreement, a dispute coordination

committee for disputes involving (i) Tampa Bay Water and (ii) the Design-Builder or the scope of the Facility Expansion Work performed by the Design-Builder or any Design-Builder subcontractors, suppliers or consultants (the "DB Dispute Committee"). The representatives of the DB Dispute Committee shall be appointed by each of the Facility Expansion Parties within the aforesaid thirty (30) day period, and written notice of such appointment shall be delivered to each Facility Expansion Party. In the event any Facility Expansion Party's representative changes, such Facility Expansion Party will notify the other Facility Expansion Parties within fifteen (15) days of the change."

(d) Section 10.10.4 of the Agreement is deleted in its entirety and replaced with the following:

"10.10.4. Committee Dispute Resolution

(a) Any dispute, disagreement, claim or controversy between the parties arising out of or relating to the performance of this Agreement or its breach (except those matters which constitute or are alleged by either Party to constitute an Event of Default hereunder and those matters which are governed by Section 10.10.4(b) hereof) shall be referred to the Committee by prompt written notice by either Party. At the mutual request of both Parties, the Independent Engineer may be invited to participate and assist in the deliberations of the Committee. If the Parties, through negotiations within the Committee, are unable to resolve any dispute within thirty (30) days of the written notice of such dispute, such dispute shall be resolved by the Independent Engineer pursuant to Section 10.10.5 (to the extent such dispute relates to the Facility Expansion Work and is not otherwise governed by Section 10.10.4(b) below). Within such thirty (30) day period, the Committee shall meet as often as the circumstances may deem necessary to resolve disputes. All disputes (except those matters which constitute or are alleged by either party to constitute an Event of Default hereunder and those matters which are governed by Section 10.10.4(b) hereof) shall be referred to the Committee for resolution as a condition precedent to seeking any other relief under this Agreement.

(b) Any dispute, disagreement, claim or controversy among the Facility Expansion Parties arising out of or relating to the performance of Facility Expansion Work or payment for such Facility Expansion Work to the extent that such dispute involves (i) Tampa Bay Water, and (ii) the Design-Builder or the scope of the Facility Expansion Work performed by the Design-Builder or any Design-Builder subcontractors, suppliers or consultants (such disputes, "DB Disputes") shall be referred to the DB Dispute Committee by prompt written notice by any Facility Expansion Party. At the request of all Facility Expansion Parties, the Independent Engineer may be invited to participate and assist in the deliberations of the DB Dispute Committee. If the Facility Expansion Parties, through negotiations within the DB Dispute Committee, are unable to resolve any DB Dispute within thirty (30) days of the written notice of such DB Dispute, such dispute shall be resolved by the Independent Engineer pursuant to Section 10.10.5. Within such thirty (30) day period, the DB Disputes Committee shall meet as often as the circumstances may deem necessary to resolve such DB Disputes. All DB Disputes shall be referred to the DB Disputes Committee for resolution as a condition precedent to seeking any other relief under this Agreement; provided, however, that each Facility Expansion Party acknowledges and agrees that the DB Disputes Committee shall not consider disputes to the extent (A) such dispute is solely

between Tampa Bay Water and the Company, or (B) such dispute is solely between the Company and Design-Builder."

(e) Section 10.10.5 of the Agreement is deleted in its entirety and replaced with the following:

"10.10.5. Independent Engineer to Arbitrate.

Those disputes specified under Sections 10.10.4 of this Agreement shall be referred to the Independent Engineer for review and determination, if the dispute is not resolved by the Committee or the DB Dispute Committee, as applicable. The referral will be made by the complaining party. The resolution of all disputes to be referred to the Independent Engineer for arbitration pursuant to this Section 10.10 shall be administered in accordance with the Florida Arbitration Code ("Code"), Chapter 682, Florida Statutes (1999) except as otherwise provided in this Section 10.10. Where there is a conflict between the Code and the express terms of this Section 10.10, the terms of Section 10.10 shall govern the parties' arbitration proceeding. The Independent Engineer shall render a decision as expeditiously as possible, and in no event, later than twenty (21) days following the presentation of the dispute, and shall report the decision in writing to Tampa Bay Water and the Company and, if the dispute is a DB Dispute, the Design-Builder. Each Facility Expansion Party agrees that the decision of the Independent Engineer regarding a dispute having a monetary value of One Hundred Fifty Thousand Dollars ($150,000) or less, or involving an extension of time of thirty (30) calendar days or less, shall be final and binding upon each Facility Expansion Party. A binding decision of the Independent Engineer with respect to disputes having a monetary value of One Hundred Fifty Thousand Dollars ($150,000) or less, or involving an extension of time of thirty (30) calendar days or less, shall be final and conclusive unless determined by a court of competent jurisdiction to be fraudulent, capricious, arbitrary, so grossly erroneous as to necessarily imply bad faith, or not supported by substantial evidence. All other decisions and determinations of the Independent Engineer (except for determinations related to disputed payments or disputed invoices pursuant to Section 31.13 of Schedule 31A), including, without limitation, determinations regarding Facility Expansion Final Completion, shall be advisory in nature and non-binding upon the Facility Expansion Parties (such decisions and determinations, "**Non-Binding Determinations**"). If any Facility Expansion Party involved in the applicable dispute refuses to accept any Non-Binding Determination, notification of such non-acceptance shall be provided to the other Facility Expansion Parties within fifteen (15) days after receipt of the decision. Any of the Facility Expansion Parties can file a complaint with respect to any Non-Binding Determination in a court of competent jurisdiction in the county in which the Project is located for a de novo review. When functioning as an interpreter and judge under this Section, the Independent Engineer shall not show partiality to any applicable Facility Expansion Party and shall not be liable in connection with any interpretation or decision rendered in good faith. The rendering of a decision by the Independent Engineer pursuant to the provisions of this Section (except those matters which constitute or are alleged by a party to constitute an Event of Default hereunder) shall be a condition precedent to any exercise by the applicable Facility Expansion Parties of such rights or remedies as either may otherwise have under the Agreement or by law; provided however, that nothing contained herein shall restrict in any manner Tampa Bay Water's right to terminate this Agreement for convenience, pursuant to Section 10.2 hereof.

Pending the resolution of any disputed matter, the Facility Expansion Parties shall continue their performance under this Agreement, including but not limited to the payment of all sums which are not in dispute."

(f) Section 10.10.6 of the Agreement is deleted in its entirety and replaced with the following:

"10.10.6. Conduct of Arbitration Proceedings.

The Facility Expansion Parties each agree that (1) the arbitration evidentiary proceedings will be no longer than six (6) days in duration unless the parties otherwise agree or in the judgment of the Independent Engineer the matter is unusually complex and sophisticated and thereby requires a longer time; (2) in the event that the Independent Engineer selected by the Facility Expansion Parties discontinues serving in that capacity and the Facility Expansion Parties are unable to agree upon a successor, they agree that the same process and criteria will be used by the court in selecting a successor Independent Engineer, and (3) that the Independent Engineer may modify the time frames provided herein only to prevent manifest injustice to a party. The Independent Engineer will set a time for evidentiary hearing of the dispute in accordance with the following requirements:

(a) in the cases of disputes which occur during the period from the issuance of the Notice to Proceed with the Facility Expansion Work until Facility Expansion Final Completion, each Facility Expansion Party shall provide to the Independent Engineer and the other Facility Expansion Parties, to the extent such Facility Expansion Party is involved in the applicable dispute, a written statement of their position within five business days of the notice to arbitrate under Section 10.10, and the evidentiary proceedings shall commence not later than fourteen (14) days after receipt of notice of the intention to arbitrate and service of the same upon the defending party;

(b) in cases of disputes which do not occur during the period from the issuance of the Notice to Proceed with the Facility Expansion Work until Facility Expansion Final Completion, the evidentiary proceedings shall commence no later than forty-five (45) days after the date of the Independent Engineer's receipt of notice of the dispute and service of the same upon the defending party/ies; and

(c) the Independent Engineer will convene, either in person or telephonically, a pre-hearing conference with the applicable Facility Expansion Parties to discuss with them, the hearing management process, witnesses and discovery, scheduling of witnesses and evidence and such other matters as the parties seek the determination of, in advance of the evidentiary hearing."

17. **Representations of Tampa Bay Water**. Tampa Bay Water acknowledges, represents, warrants and confirms the following:

(a) Review of Amendment #2025-18. Tampa Bay Water has carefully read and understands the effect of this Amendment. Tampa Bay Water had the assistance of separate legal counsel in reviewing, discussing, and considering all terms of this Amendment.

(b) Reliance Only on Representations Herein. Tampa Bay Water's execution of this Amendment is not based on Tampa Bay Water's reliance upon any representation, understanding or agreement not expressly set forth herein. Neither the Company nor Veolia Operating have made any representations to Tampa Bay Water not expressly set forth herein.

(c) Residency and Good Standing. Tampa Bay Water is an interlocal governmental agency created and existing pursuant to the authority of Sections 373.1962, 373.1963 and 163.01, Florida Statutes, and is authorized to transact business in the State of Florida.

(d) Authority and Compliance. Tampa Bay Water has full power and authority to execute and deliver this Amendment and to incur and perform the obligations provided for herein and therein, all of which have been duly authorized by all proper and necessary action of the governing body of Tampa Bay Water. Tampa Bay Water is in compliance with all laws and regulatory requirements to which it is subject.

(e) Voluntary Act. Tampa Bay Water executes this Amendment as a free and voluntary act, without any duress, coercion or undue influence exerted by or on behalf of the Company, Veolia Operating or any other party.

(f) Representations True and Correct. All of the warranties and representations made in this Amendment and the Agreement are materially true and correct as of the date hereof and Tampa Bay Water is not in default of any of the foregoing nor aware or any default with respect thereto.

(g) Binding Agreement. This Amendment is a valid, binding and enforceable obligation of Tampa Bay Water, and does not violate any law, rule, regulation, contract or agreement otherwise enforceable by or against Tampa Bay Water, except as the same may be limited by bankruptcy, insolvency, reorganization or other similar laws affecting the rights of creditors generally.

18. **Representations of the Company and Veolia Operating.** The Company and Veolia Operating acknowledge, represent, warrant and confirm the following:

(a) Review of Amendment #2025-18. The Company and Veolia Operating have read and understand the effect of this Amendment. The Company and Veolia Operating had the assistance of separate legal counsel in reviewing, discussing and considering all terms of this Amendment.

(b) Reliance Only on Representations Herein. The Company's and Veolia Operating's executions of this Amendment are not based upon their reliance upon any representation, understanding or agreement not expressly set forth herein. Tampa Bay Water has not made any representation to the Company or Veolia Operating not expressly set forth herein.

(c) Residency and Good Standing. The Company and Veolia Operating are organized and existing under the laws of the State of Delaware and are in good standing in the State of Delaware and are authorized to do business in the State of Florida.

(d) Authority and Compliance. The Company and Veolia Operating have full power and authority to execute and deliver this Amendment and to incur and perform the obligations provided for herein and therein, all of which have been duly authorized by all proper and necessary action of the governing body of the Company and Veolia Operating. The Company and Veolia Operating are in compliance with all laws and regulatory requirements to which they are subject.

(e) Voluntary Act. The Company and Veolia Operating execute this Amendment as a free and voluntary act, without any duress, coercion, or undue influence exerted by or on behalf of Tampa Bay Water or any other party.

(f) Representations True and Correct: No Defenses. All of the warranties and representations made in this Amendment and the Agreement as previously amended are materially true and correct as of the date hereon, and the Company and Veolia Operating are not in default of any of the foregoing nor aware of any default with respect thereto.

(g) Binding Agreement. This Amendment is a valid, binding and enforceable obligation of the Company and Veolia Operating, and does not violate any law, rule, regulation, contract or agreement otherwise enforceable by or against the Company or Veolia Operating, except as the same may be limited by bankruptcy, insolvency, reorganization or other similar laws affecting the rights of creditors generally.

(h) Binding Guaranty: Obligations. The Guaranty is a valid, binding and enforceable obligation of the Guarantor, and does not violate any law, rule, regulation, contract or agreement otherwise enforceable by or against the Guarantor. The Guarantor has acknowledged, approved and consented to this Amendment.

19. **Selection of Design-Build Contractor.** The Parties acknowledge and agree that CDM Constructors Inc., a Massachusetts corporation, has been selected by the Company as the design-build contractor for the Facility Expansion Work, and that Tampa Bay Water has consented to such selection. If it is determined, in the Company's reasonable discretion, that the design-build contractor's subcontract will be terminated for cause, the Parties agree to work cooperatively in good faith to: (i) facilitate the Company's selection of an alternative design-build contractor to complete the performance of the Facility Expansion Work, and (ii) make equitable adjustments to the schedule and GMP (Facility Expansion Work) to account for impact of such termination and replacement of the design-build contractor.

20. **Counterparts.** This Amendment may be executed in any number of counterparts, all of which taken together shall constitute one and the same instrument.

21. **Ratification.** The Parties' obligations and responsibilities under the Agreement as amended through Amendment #2024-17 are hereby ratified and confirmed, except as they may be in conflict with the provisions of this Amendment #2025-18 or as expressly deleted, replaced, amended or modified by this Amendment #2025-18. In the event of any conflict or inconsistency between the Agreement as amended through Amendment #2025-17 and this Amendment #2025-18, this Amendment shall prevail.

[The remainder of this page is intentionally left blank]

IN WITNESS WHEREOF and intending to be legally bound, the duly authorized representatives of the Parties have caused this Amendment #2025-18 to be executed as of the date first written above.

VEOLIA WATER NORTH AMERICA – SOUTH, LLC

By: _____
Name: Karine Rouge
Title: CEO, Municipal Water, Veolia North America

VEOLIA WATER NORTH AMERICA OPERATING SERVICES, LLC, formerly Known as US FILTER OPERATING SERVICES, INC.

By: _____
Name: Karine Rouge
Title: CEO, Municipal Water, Veolia North America

ATTEST:

By:

TAMPA BAY WATER, A REGIONAL WATER SUPPLY AUTHORITY

By:

APPROVED AS TO FORM:

Surface Water Treatment Plant Component of the Tampa Bay Regional Water Treatment Plant
SCHEDULE 3B – PROJECTED CASH FLOW

3.1 PROJECTED CASH FLOW

Based on the Baseline Master Project Schedule which is provided as Schedule 19C, the Company has developed a projected cash flow for used by Tampa Bay Water and the Tampa Bay Water Engineer for the purpose process payment applications with respect to completion of Facility Expansion within the Guaranteed Maximum Price. The GMP is used to project the cash flow on the project, however, the GMP includes contingency which may never be spent. This cash flow is shown in Table 3-1, Projected Cash Flow. The actual cash flow will be based on actual progress and execution of the project.

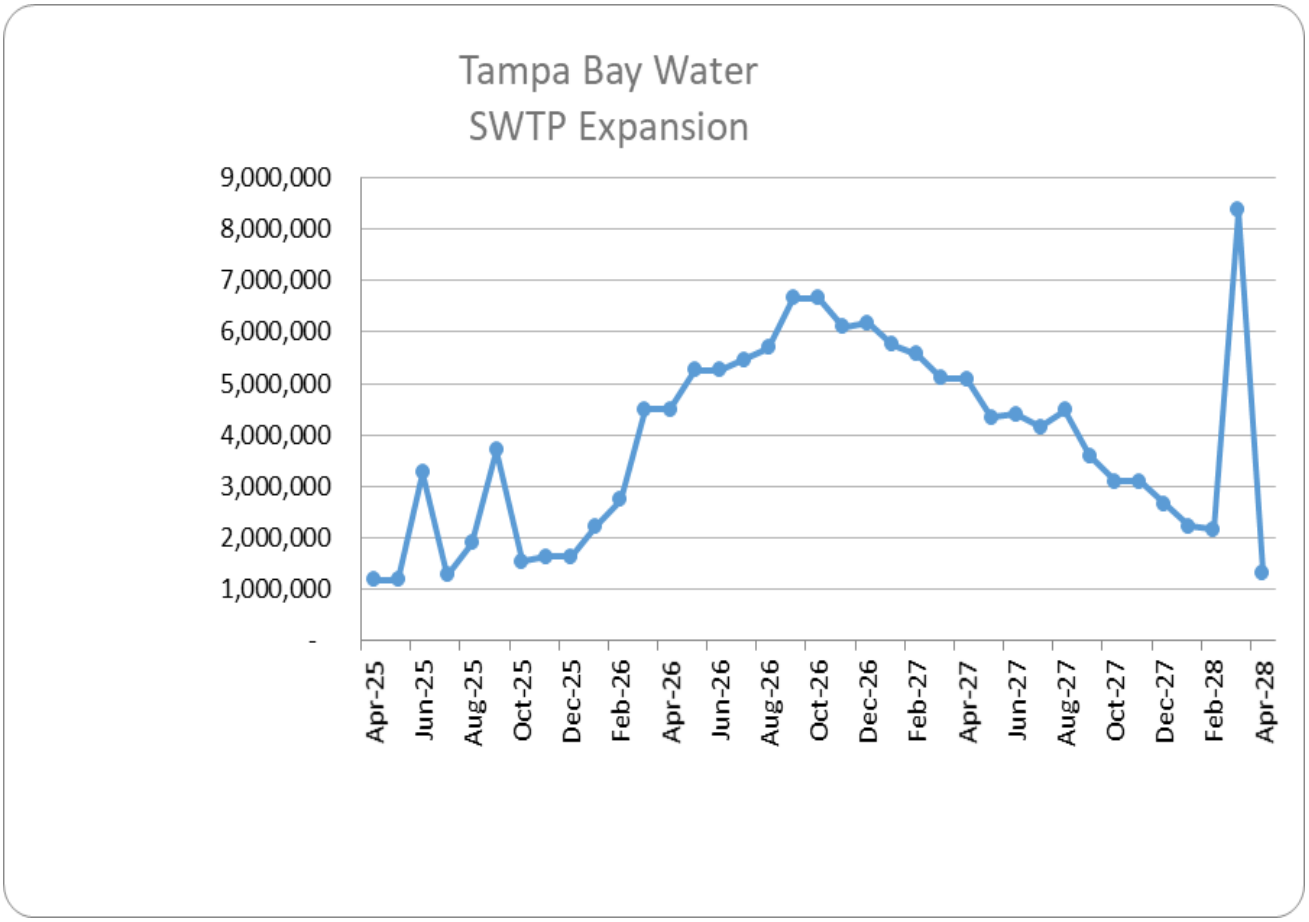
3.2 MONTHLY PROGRESS PAYMENTS

All monthly progress payments by Tampa Bay Water to the Company will be made pursuant to Schedule 31A of this Agreement and will be based upon the actual work satisfactorily completed.

TABLE 3-1 PROJECTED CASH FLOW

Month	% or Project	Monthly Drawdown	Cumulative Drawdown
Apr-25	0.82%	$1,174,520.83	$1,174,520.83
May-25	0.82%	$1,174,520.83	$2,349,041.66
Jun-28 (see Note1)	2.27%	$3,264,538.60	$5,613,580.26
Jul-25	0.88%	$1,270,062.33	$6,883,642.59
Aug-25	1.31%	$1,889,110.83	$8,772,753.42
Sept-25 (see Note1)	2.57%	$3,694,225.13	$12,466,978.55
Oct-25	1.07%	$1,542,655.63	$14,009,634.18
Nov-25	1.14%	$1,632,638.44	$15,642,272.62
Dec-25	1.14%	$1,632,638.44	$17,274,911.06
Jan-26	1.54%	$2,214,938.96	$19,489,850.02
Feb-26	1.90%	$2,733,069.79	$22,222,919.81
Mar-26	3.13%	$4,495,385.77	$26,718,305.57
Apr-26	3.13%	$4,495,385.77	$31,213,691.34
May-26	3.65%	$5,251,326.15	$36,465,017.49
Jun-26	3.65%	$5,251,326.15	$41,716,343.63
Jul-26	3.80%	$5,467,514.22	$47,183,857.86
Aug-26	3.96%	$5,691,774.83	$52,875,632.69
Sep-26	4.63%	$6,652,946.21	$59,528,578.90
Oct-26	4.63%	$6,652,946.21	$66,181,525.12
Nov-26	4.24%	$6,092,676.23	$72,274,201.35
Dec-26	4.29%	$6,175,291.43	$78,449,492.78
Jan-27	4.00%	$5,756,143.86	$84,205,636.63
Feb-27	3.87%	$5,562,456.62	$89,768,093.26
Mar-27	3.55%	$5,100,852.34	$94,868,945.59
Apr-27	3.54%	$5,089,045.49	$99,957,991.08
May-27	3.02%	$4,344,436.83	$104,302,427.92
Jun-27	3.06%	$4,396,883.96	$108,699,311.88
Jul-27	2.89%	$4,157,985.93	$112,857,297.81
Aug-27	3.11%	$4,476,630.18	$117,333,928.00
Sep-27	2.50%	$3,594,486.46	$120,928,414.46
Oct-27	2.15%	$3,088,162.48	$124,016,576.94
Nov-27	2.15%	$3,088,162.48	$127,104,739.42
Dec-27	1.85%	$2,656,329.66	$129,761,069.08
Jan-28	1.54%	$2,219,726.69	$131,980,795.77
Feb-28	1.51%	$2,167,279.56	$134,148,075.33
Mar-28 (see Note2)	5.82%	$8,369,704.24	$142,517,779.57
Apr-28	0.91%	$1,309,279.23	$143,827,058.80
	100.00%	$143,827,058.80	
Note 1: Bonds & Builder Risk Insurance Note 2: 5% Retention Release per Schedule 31A			

Schedule 3B – Projected Cash Flow



Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 4C – CONNECTIONS WITH TAMPA BAY WATER SYSTEM

4.1 UPSTREAM CONNECTIONS

Raw water will be supplied to the Regional Surface Water Treatment Plant (RSWTP) from the existing 72-inch diameter raw water main, which begins at Tampa Bay Water's Raw Water Storage Tank No. 1 and continues into the RSWTP site. The Company will construct a new 42-inch diameter raw water transmission main to supply water to the new high-rate flocculation/sedimentation – ozonation treatment process train. The new 42-inch diameter raw water main will be connected to existing 36-inch raw water yard piping near Raw Water Tank No. 1. The levels in the Raw Water Storage Tank are expected to fluctuate between elevation 62 feet NGVD and elevation 71 feet NGVD.

4.2 DOWNSTREAM CONNECTIONS

Finished water from the RSWTP will be conveyed through the existing 72-inch diameter finished water transmission main to a connection with Tampa Bay Water's existing 60-inch diameter finished water transmission main.

4.3 TAMPA BAY WATER COMMUNICATIONS

The Company will be expected to coordinate the plant Supervisory Control and Data Acquisition (SCADA) system to provide communication of select data to Tampa Bay Water. The RSWTP SCADA system consists of the Master Unit (MTU), which shall be a hyperconverged system with virtualization of computing, storage, and networking resources; and all attached controllers and instrumentation. The RSWTP SCADA system includes or will include the following connections:

- An interface presently exists and shall be maintained, to the Tampa Bay Water main SCADA system via serial communications to a PLC, called the Buffer PLC.
- An internet connection will be provided, connected on the plant side to the SCADA system's Perimeter Firewall. Access between SCADA and the outside world will be limited to:
    - manually applied updates and patches of switches and routers, servers and workstations, and software
    - remote access by operators for View-Only SCADA software operation
    - administrative access with appropriate credentials and authentication

4.4 POWER

Electrical power to the RSWTP will continue to be provided by TECO through underground power cables from the TECO-owned substation just south of the Company's site to the Company furnished 15 KV switchgear in the RSWTP's existing electrical building.

4.5 CAUSTIC SODA

The Company shall be responsible for maintaining caustic soda storage, pumping, and chemical piping that allows transfer of caustic soda from storage tanks located on the RSWTP site to caustic storage tanks located in Tampa Bay Water's Alkalinity Adjustment Facility (AAF).

4.6 RSWTP RECYCLE RETURN FLOWS

Recycle flows from the RSWTP's process water recycle systems will continue to be returned to Tampa Bay Water's raw water supply system through two existing 24-inch diameter recycle return piping connections to Tampa Bay Water's 84-inch diameter Tampa Bypass Canal Transmission Main, which conveys raw water to Raw Water Storage Tank Nos. 1 and 2.

SCHEDULE 6H – NARRATIVE DESCRIPTION OF PROJECT ELEMENTS

Narrative descriptions of the project elements presented in Schedule 6H are excerpts from the Regional Surface Water Treatment Plant Expansion Basis of Design Report dated December 2024 (60% Design Stage, Preliminary Design Report version). The final Regional Surface Water Treatment Plant Expansion Basis of Design Report will be issued at the 90% Design Stage and the information in that version will supersede previous versions.

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4.0 Facilities Plan and Recommended Design Criteria

4.0 Facilities Plan and Recommended Design Criteria

This section describes proposed new components and proposed modifications to existing components of the RSWTP. To facilitate review, many of the design tables included in this section are presented in a Table 4-X and a Table 4-XA format, with Table 4-X providing information related to the new components of each treatment process and Table 4-XA providing operational-type criteria for treatment process after the facility expansion. This format has been adopted since the facility is being expanded, in terms of treatment capacity, unequally among the various unit processes. Hence, the full treatment capacities of the facility after the Plant Expansion can be easily ascertained.

At the "design-rated" condition, the plant is designed to produce 145 million gallons of finished water per 24 hours with all five high-rate flocculation/sedimentation – ozonation process trains online, 3.6% combined backwash and filter-to-waste demand (12 filter backwashes per day), and the average historical solids production rate (662 lb./MG). For clarity within the document, the 145 million gallons per 24 hours will be shortened to the "design flow" or 145 MGD. Because of the intermittent nature of filter backwashes, peak instantaneous rates of finished water production (between backwashes) may exceed 150 MGD.

As previously discussed in Section 1, influent raw water quality characteristics at the RSWTP may vary significantly. Under certain adverse water quality conditions, filter run times may be shortened, demands for filtered water for backwash may increase, and treatment residuals production rates (from the high-rate flocculation/sedimentation process and the filtration treatment process) may increase and may impact the RSWTP's finished water production capacity. Values included in the tables in this section that relate to the high-rate flocculation/sedimentation, ozonation, and filtration treatment processes are consistent with favorable influent raw water conditions that would allow the RSWTP to operate at the proposed design-rated capacity of 145 million gallons per 24 hours. Tables related to treatment residuals handling reflect average residuals production rates at the design-rated capacity.

Chemical dosages presented herein were calculated from chemical usage data from 2019-2022, provided by Veolia. The maximum chemical feed rates and daily usage rates are based upon using the 99th percentile chemical doses and the proposed peak capacity of the RSWTP (145 MGD). Feed rates are expressed in gallons per hour (gph) to generally match metering pump capacity convention while usage is expressed in gallons per day (gpd). Any operational criteria related to days of storage of chemicals is based upon a more typical plant operating rate of 110 MGD and the 50th percentile chemical dose.

Appendix A contains preliminary engineering drawings for this expansion. These drawings include preliminary liquids and solids process flow diagrams, preliminary hydraulic profiles, preliminary electrical one-line diagrams and electrical site plans, and preliminary process and instrumentation diagrams (P&IDs) for the major processes.

4.1 Site Civil Work

This subsection discusses the various plant components impacting the site plan and associated civil work. Design criteria are provided for site grading and stormwater management.

4.1.1 Grading and Drainage

The following site grading criteria will be used in newly developed portions of the site:

- The minimum roadway elevations will be established based on the surface water elevations in the stormwater management system for the 5-year 24-hour design storm (elevations established from stormwater modeling analyses).
- The minimum floor elevations of any new buildings will be a minimum of 1 foot above the 25-year/24-hour design storm event water surface elevations of the onsite drainage systems (elevations established from stormwater modeling analyses) and will be located outside of the 100-year floodplain.
- The site will be graded to promote stormwater runoff into existing and new drainage systems.
- For any new plant driveways, a minimum road cross slope of ¼-inch/foot (2%) will be provided.
- All new stormwater conveyance systems will be designed in compliance with Hillsborough County's Stormwater Management Technical Manual (October 2023) and Florida Administrative Code requirements.
- Stormwater treatment and attenuation will be provided within existing stormwater retention/detention areas.

4.1.2 Process Piping

Interior surfaces/linings of all process piping and potable water piping will be approved for contact with potable water per NSF 61.

New raw water influent piping to the new ACTIFLO® unit and all other large diameter process yard piping will be ductile iron with cement mortar lining. Smaller diameter process yard piping and potable water piping may be ductile iron with cement mortar lining or may be PVC. All buried ductile iron pipe will be furnished with a bitumastic exterior coating.

Ductile iron pipe installed in exposed locations will have a cement mortar lining and will be field painted with an exterior epoxy coating system.

New process gravity drain system piping will be PVC.

New chemical feed system piping will be consistent with existing chemical piping and compatible with the chemical that it is carrying. In addition, new chemical feed piping installed below grade will be dual contained except where installed in covered chemical pipe trenches.

4.1.3 Process Basin Drainage and Discharge

All new major process basins will be provided with a method to drain the basin and discharge the drained process water to the plant recycle system. Recycle flows will continue to be pumped to the raw water storage tanks or manifolded into the raw water influent piping upstream of the high-rate flocculation/sedimentation treatment processes.

4.1.4 Sanitary Sewer Drains and Discharge

No new sanitary drain facilities are planned for the RSWTP expansion. However, in some cases, conflicts with proposed new structures may potentially require rerouting of some existing sanitary drains and sanitary force mains. Replacement sanitary drain and force main piping will be PVC or ductile iron with a ceramic epoxy lining.

4.2 Liquid Flow Balance

Preliminary liquid process flow diagrams and hydraulic profiles through the treatment process for the complete facility after expansion are presented on the preliminary drawings included in Appendix A. The process flow diagrams reflect operation of the RSWTP at the proposed design-rated treatment capacity of 145 million gallons per 24 hours.

4.3 Solids Mass Balance

The preliminary solids process flow diagram for the complete facility after expansion is presented on Sheet G-9 of the preliminary drawings included in Appendix A. The following conditions and assumptions should be considered when reviewing the solids mass balance. The basis for the values presented in the solids process flow diagram are outlined in more detail in Section 4.10 Residuals Handling.

- Maximum plant flow of 145 MGD utilizing approximately 3.3% of the filtered water production to meet filter backwash demand, contributing the average historical solids production. Under these conditions, it was estimated to require approximately 12 filter backwashes per day.
- No solids are attributed to the miscellaneous water usage that flows back into the process drains since these flows are minor and/or very intermittent.
- Historical data was compiled from 2019 through 2022 for daily average plant flow, turbidity, ferric sulfate usage, polymer usage, lime usage, and microsand supplementation to determine the historical dry solids production. Turbidity was used as a surrogate for total suspended solids with an assumed 1.75 TSS to Turbidity ratio. A 10% solid fraction was assumed for the lime liquid dose.
- Historical total suspended solids concentrations, thickened solids concentrations fed to the belt filter presses, and dewatered cake solids concentrations were used to size the various residuals improvements.
- The ACTIFLO® system is assumed to remove 90% of the solids content from the influent flow. The BAF was assumed to remove the remaining 10%. Of the solids that would be sent to Recycle Surge Basin No. 1, 80% of those solids would be removed and sent back to the influent of the gravity thickeners.

- The new dewatering equipment capacity of 1,600 pounds per hour (lbs./hr) was selected from the low end of loading rates provided by the manufacturer (between 800 to 1,000 pounds per hour per meter (lbs./hr/m)), accounting for a decrease in performance due to feeding inert water treatment plant sludge with some seasons of algae-laden sludge. Historical thickened solids feed rates to the existing six belt filter presses were used to determine average loading capacity of the existing units.
- All belt filter wash water has been and will be returned to the gravity thickening system.

4.4 High-Rate Flocculation/Sedimentation Process (ACTIFLO®)

The new ACTILFO® Unit No. 5 coagulation tank, injection tank, maturation tank, and settling tank geometry, dimensions, and volume will essentially match the existing ACTIFLO® Units 1 through 4 geometry, dimensions, and volumes. All appurtenances such as hydrocyclones, mixers, and sand slurry recirculation pumps will be similar to existing equipment. Coagulant aid polymer feed into the injection and maturation tanks, and microsand feed into the injection tank, will be as currently designed and operated for the existing four ACTIFLO® units.

4.4.1 Process Requirements

Table 4.1 provides the basis of design criteria for the new ACTIFLO® Unit 5. **Table 4.1A** provides the revised basis of design criteria for the existing and the proposed new ACTIFLO® units at the new design-rated treatment capacity of 145 million gallons per 24 hours. Note that the proposed ACTIFLO® Unit No. 5 and the existing ACTIFLO® Unit Nos. 1 through 4 are each designed for an influent flow rate of 36 MGD. When the RSWTP is operating at the proposed design-rated capacity of 145 MGD, the total combined influent flow rate to the five ACTIFLO® units will be approximately 155.5 MGD, which equates to approximately 31.1 MGD per ACTIFLO® unit. The values shown in **Table 4.1A** reflect an even distribution of flow between the five ACTIFLO® trains though operations may operate any individual ACTIFLO® unit at up to 36 MGD influent flow.

Table 4.1 Basis of Design Criteria – New High-Rate Ballasted Sedimentation Systems

Unit Process	Parameter and Units	Value
ACTIFLO® Treatment Trains	Number of New Trains	1
	Influent Capacity, MGD	36
Coagulation Tank Design	Length, ft-in[1]	17’-3”
	Width, ft-in	15’-11”
	Side Water Depth, ft-in	25’-0”
	Total Depth, ft-in	27’-0”
	Number of Mixers	1 (split-shaft, dual blade)
	Mixer Motor, hp[2]	25
	Velocity Gradient, G, per sec	346
Injection Tank Design	Length, ft-in	17’-3”
	Width, ft-in	15’-11”
	Side Water Depth, ft-in	25’-0”
	Total Depth, ft-in	27’-0”
	Number of Mixers	1 (split-shaft, dual blade)

Unit Process	Parameter and Units	Value
	Mixer Motor, hp	25
	Velocity Gradient, G, per sec	346
	Hydrocyclone Return Flow per Tank, MGD	0.29
Maturation Tank Design	Length, ft-in	25’-0”
	Width, ft-in	33’-0”
	Side Water Depth, ft-in	25’-0”
	Total Depth, ft-in	27’-0”
	Number of Variable Speed Mixers	1
	Mixer Motor, hp	30
	Velocity Gradient, G, per sec	218
Settling Tank Design	Solids Underflow per Tank, MGD	1.44
	Total Length, ft-in	33’-0”
	Total Width, ft-in	33’-0”
	Type of Sedimentation	Laminar Upflow through lamella settling tubes
	Polystyrene Lamella Tube Area Length, ft-in	25’-0”
	Polystyrene Lamella Tube Area Width, ft.-in	33’-0”
	Total Depth, ft-in	27’-0”
	Projected Surface Area Multiplier for Polystyrene Lamella Tubes modules	10.3
	Projected Surface Area, s.ft	8,498
	Variable Speed Solids Scraper Assembly	One per tank
	Scraper Motor, hp	5
Sand-Solids Recirculation Circuit	Total number of Hydrocyclones	8 (4 duty/4 standby)
	Hydrocyclone Capacity (per ea.), gpm[4]	250
	Number of Sand Recirculation Pumps per Injection Tank	2
	Pump Capacity, gpm	1,000
	Pump Motor Size, hp	50
	Total Solids Flow Rate, gpm	1,600
	Estimated Solids, percent	0.13 to 0.26
Raw Water pH Adjustment – Acid Addition	Chemical	Sulfuric Acid (H_2SO_4)
	Feed Solution Strength, percent	93
	50th Percentile Dose as Active Chemical, mg/L	60
	75th Percentile Dose as Active Chemical, mg/L	82
	99th Percentile Dose as Active Chemical, mg/L	125
	Target pH, units	4.2-5.2
Coagulant Addition	Chemical	Ferric Sulfate ($FeSO_4$)
	Ferric Sulfate Strength, percent	65
	Iron, percent	13
	50th Percentile Dose as Ferric Sulfate, mg/L	78
	75th Percentile Dose as Ferric Sulfate, mg/L	99
	99th Percentile Dose as Ferric Sulfate, mg/L	162

Unit Process	Parameter and Units	Value
Coagulation Aid and Sand/Solids Separation Polymer	Chemical	Cationic Polymer
	Delivery Form	Dry solid
	Solution Strength, percent[8]	1%
	50th Percentile Dose as Active Chemical, mg/L	0.8
	75th Percentile Dose as Active Chemical, mg/L	0.9
	99th Percentile Dose as Active Chemical, mg/L	1.4
Microsand Replenishment System	No. of Sand Slurry Pumps (new)	1
	Sand Slurry Pump, hp	1.5
	Sand Slurry Pump, gpm	30
	Sand Slurry Concentration, g/L[7]	15

Notes:
[1] ft-in = feet – inches expressed as '-"
[2] hp = horsepower
[3] ft^2 = square feet
[4] gpm = gallons per minute
[5] ft^3 = cubic feet
[6] ft^3/hr = cubic feet per hour
[7] g/L = grams per liter
[8] Coagulation aid polymer is pumped at a 1% solution and then further diluted to a 0.3% solution.

Table 4.1A Basis of Design Criteria – High-Rate Ballasted Sedimentation Systems – Expanded Facility

Unit Process	Parameter and Units	Value
Hydraulic Basis of Design To ACTIFLO® Process	Plant Maximum Design Flow (million gallons per 24 hrs)	145
	ACTIFLO® Design Inlet Flow Rate at Plant Maximum Design Flow, MGD	155.5
	Total Number of ACTIFLO® Trains	5
Coagulation Tank Design	Design Inlet Flow Rate per Train, at Plant Maximum Flow, MGD	31.1
	Total Number of Tanks	5
	Volume per Tank, gals	51,350
	Total Volume, gals	256,750
	HRT[1] at Design Influent Flow Rate, at Plant Maximum Flow, min[2]	2.38
Injection Tank Design	Design Inlet Flow Rate per Train, at Plant Maximum Flow, MGD	31.1
	Design Outlet Flow Rate, at Plant Maximum Flow, MGD	31.49
	Total Hydrocyclone Underflow Return Rate, MGD	1.44
	Total Number of Tanks	5
	Volume per Tank, gals	51,350
	Total Volume, gals	256,750
	HRT at Design Outlet Flow Rate, at Plant Maximum Flow, min	2.35 [3]
Maturation Tank Design	Design Flow Rate per Train, at Plant Maximum Flow, MGD	31.49
	Total Number of Tanks	5
	Volume per Tank, gals	154,296
	Total Volume, gals	771,478
	HRT at Design Flow Rate, at Plant Maximum Flow, min	7.05
Settling Tank Design	Design Inlet Flow Rate per Train, at Plant Maximum Flow, MGD	31.49

Unit Process	Parameter and Units	Value
	Design Outlet Flow Rate, at Plant Maximum Flow, MGD	30.05
	Total Number of Tanks	5
	Volume per Tank, gals	203,670
	Total Volume, gals	1,018,350
	Total Solids Withdrawal Rate, MGD	7.195
	Lamella Tube Area per Tank, ft^2	825
	Projected Surface Area Multiplier for Lamella Tubes, ft^2	10.3
	Projected Surface Area per Tank, ft^2	8,498
	Total Projected Surface Area, ft^2	42,488
	Projected Overflow Rate at Design Inlet Flow Rate, at Plant Maximum Flow, gpm/ft^2	2.57 [4]
	Projected Rise Rate at Design Inlet Flow Rate, at Plant Maximum Flow, ft/min	0.34[4]
Sand-Solids Recirculation Circuit	Total Number of Sand Recirculation Pumps	10 (5 Active, 5 standby)
	Total Firm Pump Capacity, gpm	4,000
Raw Water pH Adjustment – Acid Addition	Chemical	Sulfuric Acid (H_2SO_4)
	Strength, percent	93
	Specific Gravity, units	1.84
	50^{th} Percentile Dose as Active Chemical, mg/L	60
	75^{th} Percentile Dose as Active Chemical, mg/L	82
	99^{th} Percentile Dose as Active Chemical, mg/L	125
	Maximum Solution Feed Rate, gph	442
	Maximum Solution Usage Rate, gpd	10,608
Coagulant Addition	Chemical	Ferric Sulfate
	Ferric Sulfate Strength, percent	65
	Ferric Iron, percent	13
	Specific Gravity, units	1.55
	50^{th} Percentile Dose as Ferric Sulfate, mg/L	78
	75^{th} Percentile Dose as Ferric Sulfate, mg/L	99
	99^{th} Percentile Dose as Ferric Sulfate, mg/L	162
	Maximum Solution Feed Rate[1], gph	942
	Maximum Feed Rate as Ferric Sulfate, gph	612
	Maximum Solution Feed Rate[1], gpd	22,608
	Maximum Feed Rate as Ferric Sulfate, gpd	14,688
Coagulation Aid and Sand/Solids Separation Polymer	Chemical	Cationic Polymer
	Delivery Form	Dry solid
	Solution Strength, percent[6]	1% Solution
	Specific Gravity, units	1.003

Unit Process	Parameter and Units	Value
	50th Percentile Dose as Active Chemical, mg/L	0.8
	75th Percentile Dose as Active Chemical, mg/L	0.9
	99th Percentile Dose as Active Chemical, mg/L	1.4
	Maximum Solution Feed Rate[7], gph	843
	Maximum Solution Usage Rate[7], gpd	20,232
Microsand Replenishment System	Total Sand Loss Estimate. ppd[5]	4,363[8]
	Sand Slurry Concentration, g/;	15
	Slurry Water Volume, gpd	34,865[8]

Notes:

1 HRT = Hydraulic Retention Time
2 min = minute
3 Based upon average of inlet flowrate and outlet flow rate
4 Based upon inlet flow rate
5 ppd = pounds per day
6 Coagulation aid polymer is pumped at a 1% solution and then further diluted to a 0.3% solution.
7 Maximum feed and usage rates were calculated using 99th percentile chemical doses.
8 Estimated values based on previous data from the 2007 Basis of Design Report.

4.4.2 Coagulation Tank

The raw water will enter the coagulation tank through new 42-inch diameter influent raw water piping where pH will be adjusted, and Ferric Sulfate coagulant is added. The tank will be approximately 17’ –3” inches long, approximately 15’ – 11” wide and have a side water depth of approximately 25’ – 0”. Total surface area will be approximately 275 square feet and active tank volume will be approximately 6,864 cubic feet (approximately 51,350 gallons). The tank will be equipped with one 25-hp (constant-speed with soft-starter) Sole source SPXFlow mixer, which will be vertically mounted on a platform in the middle of the tank.

4.4.3 Injection Tank

The coagulated water will pass into the second flash mix tank (injection tank) over an overflow baffle where flocculent aid polymer and microsand are added to initiate floc formation. The microsand serves as a “seed” for floc formation and development in the next process step. The tank will be 17’-3” long, 15’-11” wide, and have a side water depth of 25’-0” for a total surface area of 275 square feet and an active volume of 6,864 cubic feet (approximately 51,350 gallons). The tank will be equipped with one 25-hp (constant-speed with soft-starter) Sole source SPXFlow mixer, which will be vertically mounted on a platform in the middle of the tank. The flow to the injection tank will increase by 200 gallons per minute (gpm) or 0.29 MGD due to the recycle of water carrying microsand from the hydrocyclone underflow. The flow will also be increased by sand slurry makeup water and polymer solution water.

4.4.4 Maturation Tank

Water will pass through the underflow passage from the injection tank into the maturation tank. In the maturation tank, mixing will be controlled to provide ideal conditions for the formation of polymer bridges between the microsand and the destabilized suspended solids. This process is further augmented by the large specific surface area of the microsand providing enhanced opportunity for polymer bridging and enmeshment of microsand and floc already in suspension. The maturation tank will be 25’-0” long and

33’-0” wide with a 25’-0” side water depth. The tank will have a surface area of approximately 825 square feet and an active volume of approximately 20,625cubic feet (approximately 154,296 gallons). Coagulant aid polymer is added at two different locations in this unit. The tank will be equipped with a one 30-hp variable speed Sole source SPXFlow mixer with VFD, vertically mounted on a platform in the middle of the tank. The flow through the maturation tank is the same as described for the injection tank.

4.4.5 Settling Tank

Flocculated water will overflow from the maturation tank and enter the settling tank. Because of the high ratio of microsand to iron hydroxide precipitate within each floc particle, the floc settles very rapidly. The settled water, after disengaging from the floc, flows upward through a lamella settling zone where any few remaining lighter floc particles are removed. Clarified water exits the system via a series of collection troughs that empty into a collection channel. The settling tank will be 33’-0” wide and 33’-0” long with a 27’-0” total depth. The lamella tube settling nominal surface area is 25’-0” long by 33’-0” wide. This provides a surface area of approximately 825 square feet. The lamella tube supplier provided a multiplier factor of 10.3 to convert nominal surface area to projected surface area (PSA). The calculated PSA will be 8,498 ft^2. At the design influent flow rate, the projected overflow rate will be approximately 2.57 gallons per minute per square foot (gpm/ft^2) or a projected rise rate of 0.34 feet per minute (ft/min). The tank will be equipped with a 5-hp variable speed solids scraper assembly for solids/sand removal, lamella polystyrene tube assemblies, and effluent collection troughs. Turbidity of the decant water from the settling tank will be indicated and recorded, and high turbidity alarmed at the HMI.

4.4.6 Ancillary Equipment

The microsand-floc mixture will rapidly settle to the bottom of the settling tank and be directed to a central sump with a circular scraper mechanism and withdrawn using a rubber-lined centrifugal slurry pump. The sand-floc mixture will be pumped to a bank of four hydrocyclones per sand pump located over the injection tanks for separation. Energy from pumping is effectively converted to centrifugal forces within the body of the hydrocyclone causing iron humate and hydroxide floc to be separated from the higher density microsand. Once separated, the microsand is concentrated and discharged from the bottom of the hydrocyclone (returned to the injection tank). The lighter density iron humate and hydroxide floc will exit the top of the hydrocyclone and flow by gravity to the gravity thickener influent mix/splitter structure where flow is distributed between the three existing gravity thickeners. A clean-out is installed on the 12” Hydrocyclone overflow pipe to the gravity thickener to allow flushing using jetting equipment. Two microsand/solids recirculation pumps, one operational and one standby, will be provided. The pumps will be located at ground level adjacent to the settling tank. Approximately 1,000 gpm is recycled to the hydrocyclones where 200 gpm is returned to the injection tank carrying the returned microsand and 800 gpm carries the solids to the gravity thickener process.

The Train #5 ACTIFLO® Control Panel (ACP) will be located on the settling tank bridge under the settling tank canopy. All ACTIFLO® equipment motors and electrical gear will be powered from a new motor control center (MCC) housed within the ozone generator building electrical room.

4.4.7 Raw Water pH Adjustment

Pretreatment prior to coagulation will continue to consist of pH adjustment with sulfuric acid. The influent water will be acidified in ACTIFLO® coagulation tank to a pH range between pH 4.2 to pH 5.2, depending

upon varying raw water quality. Under low color/low TOC conditions, the coagulation pH is typically between pH 4.8 and 5.2. Under other influent water quality conditions, a coagulation pH value between 4.2 and 4.5 may be targeted.

After the facility expansion, the maximum feed rate and daily usage for the 93 percent purity sulfuric acid solution will be 442 gph and 10,608 gpd respectively.

The primary pH adjustment of the raw water using sulfuric acid for enhanced coagulation will be at the coagulation tank of ACTIFLO® Unit 5. New sulfuric acid feed pumps will be installed at the existing north chemical containment area and a new double-contained sulfuric acid feed line will be installed from the new feed pumps to the sulfuric acid injection point in the coagulation tank.

Additionally, TBW and Veolia may elect to add a 50 percent sodium hydroxide injection point at this location. This feed point would be used in the event that alkalinity needs to be increased.

4.5 Coagulant Addition

Ferric sulfate in the form of a 65 percent solution of the hydrated crystal with a maximum concentration of approximately 13 percent elemental iron by weight will continue to be used to provide the iron salt for coagulation. The addition of ferric sulfate will be in the ACTIFLO® coagulation tank.

After facility expansion, the maximum feed rate and daily usage for the 65 percent purity ferric sulfate solution will be 942 gph and 22,608 gpd respectively.

4.6 Ozonation System

One ozone contactor of the same dimensions, geometry, volume, and concentration-time (CT) characteristics as the existing Ozone Contactor Units 3 and 4 will be provided. This new contactor, Ozone Contactor Unit 5, will receive flow from the new ACTIFLO® Unit 5 to be built adjacent to the contactor. A new ozone generator and power supply unit (PSU) will be dedicated to Ozone Contactor Unit 5 with flexibility to also serve Ozone Contactor Units 1 or 2 via ozone gas and gaseous oxygen (GOX) interconnects. An ozone dissolution system will be provided to disperse the ozone into the contactor. Off-gas from Ozone Contactor Unit 5 will be pulled from the contactor through the new off-gas destruct system.

The new ozone residual sampling system for Ozone Contactor 5 will use a gravity system to deliver the sample water to the four sample analyzer stations, each outfitted with an analyzer and sampling appurtenances and housed in a weather protected enclosure. Two sample stations are required for calculating CT requirements, but four sample stations may be utilized in the future so that the first four channel passes can be used as disinfection zones, effectively doubling the available contact time for CT calculations to meet disinfection goals. The intent of the new sampling system will be to deliver samples quickly to avoid lag times and temperature increases. Provisions for an ozone quenching agent, including feed lines and an associated diffuser, will be installed in the final channel of the Ozone Contactor 5 for future use. While hydrogen peroxide as an ozone quenching agent has not been used to date, it is anticipated that hydrogen peroxide or calcium thiosulfate may be required in the future to quench excess ozone residual and/or to provide advanced oxidation process (AOP) capability. Such residuals could result from the need to achieve higher pathogen inactivation credits by using higher ozone residuals.

Table 4.2 provides the basis of design criteria for the new LOX storage and feed system, ozone generator, ozone contactor, ozone dissolution system, and ozone off-gas destruct system. **Table 4.2A** provides the revised basis of design criteria relating to the design-rated capacity of 145 MGD.

The new ozone system equipment will largely match existing equipment, except for the ozone generator which will be sized to match the replacement generators being installed for Ozone Units 1 and 2 (in 2024). A firm ozone dose capacity of at least 4.0 mg/L was utilized in the original RSWTP design and the subsequent expansion and will be utilized for the current facility expansion.

Table 4.2 Basis of Design Criteria – New Ozonation Systems

Unit Process	Parameter and Units	Value
Pre-Ozonation pH Adjustment – Lime	Chemical	Quicklime (CaO)
	Slaked Lime Slurry Solids Content, percent	10-15
	Mixer Type	Mechanical
	Number of Mixers per Contactor	2
	Mixer Motor Size, hp	7.5
Pre-Ozonation pH Adjustment-Sodium Hydroxide – Standby Basis Only to be Used During Lime System Downtime	Chemical	Sodium Hydroxide (NaOH)
	Utilized Commercial Solution Strength, percent	50
	99th Percentile Dose as Commercial Solution, mg/L	85
Liquid Oxygen Storage and Feed Systems	Number of Tanks	1
	Type of Tank	Horizontal Cryogenic
	Tank Nominal Capacity (Volume)	13,000 gal
	Number of Vaporizers	2
	Type of Vaporizer	Ambient
	Vaporizer Minimum Capacity	284 scfm[1]
Ozone Generators	Number of Ozone Generators	1
	Generator Rated Capacity	1,200 lbs/day (12% ozone in oxygen) 2,100 lbs/day (6% ozone in oxygen)
	Design Ozone Concentration	6-12%
	Minimum Firm Ozone Dose	4 mg/L
	Type of Coolant	Chilled Water @ 55 Deg F
	Number of New Chilled Water Units	2
	Chilled Water Unit Minimum Capacity	68 tons
Ozone Contactor	Number of New Contactors	1
	New Contactor Design Flow Rate at Plant Maximum Flow, MGD	29.54
	Type of Contactor	Multi-pass Channel with End-Around Baffles
	Number of Total Passes (after ozone dissolution)	8

Unit Process	Parameter and Units	Value
	Number of Passes Prior to Ozone Quench Aid Addition	7
	Pass Length (Inner Dimensions), ft-in	47’-10”
	Pass Width (Inner Dimensions), ft-in	7’-6”
	Total Length to Width Ratio	45
	Minimum Water Depth, ft-in	19’-9”
	Total Contactor Volume, gals	428,889
	Total Ozone Contact Volume, gals	375,924
	Number of New Ozone Dissolution Systems	1
Ozone Dissolution	Dissolution Method	Gas Dispersion System with Static Mixer
	Orientation of Contactor Static Mixer Housing	Vertical
	Number of Contactor Static Mixers Housing per Ozone Contactor	1
	Diameter of Static Mixer Housing, in.	42
	Number of Static Mixer Helical Elements per Housing	2
	Total Static Mixer Housing Length, ft-in	13’-8”
	Estimated Headloss, in inches water gauge	25
	Gas Flow Turndown	Unlimited
	Water Flow Turndown	6:1
	Number of Pre-Dispersion Loops per Ozone Contactor	2 (1 active, 1 standby)
	Sidestream Pump Flow Capacity, gpm	250-300
	Sidestream Pump Discharge Pressure, psi	60
	Eductor Ozone/Oxygen Gas Capacity, scfm[1]	154
	Pre-Dispersion Static Mixer-Housing Diameter, in.	4
	Number of Pre-Dispersion Mixer Helical Elements	2
Ozone Destruct	Type of Destruct Unit	Thermal Catalytic Units with Off-gas Blowers
	Number of New Destruct Units	2 (1 active, 1 standby)
	Off-gas Destruct Unit Capacity, scfm[1]	313
Post-Ozonation-pH Adjustment Lime	Chemical	Quicklime (CaO)
	Purity, percent	89
	Slaked Lime Slurry Solids Content, percent	10-15
	99th Percentile Dose as $Ca(OH)_2$	26.9
Post-Ozonation-pH Adjustment – Sodium Hydroxide Standby Basis Only – To Be Used During Lime System Downtime	Chemical	Sodium Hydroxide (NaOH)
	Purity, percent	50
	99th Percentile Dose as Solution, mg/L	42
Post-Ozonation-Filter Aid Polymer Addition	Chemical	Cationic Polymer Liquid
	Solution Strength, percent	1.0
	50th Percentile Dose as Active Chemical, mg/L	0.008
	75th Percentile Dose as Active Chemical, mg/L	0.025

Unit Process	Parameter and Units	Value
	99th Percentile Dose as Active Chemical, mg/L	0.062

Notes:
[1] scfm = standard cubic feet per minute.

Table 4.2A Basis of Design Criteria – Ozonation Systems – Expanded Facility

Unit Process	Parameter and Units	Value
Capacity	Plant Maximum Design Flow, MGD	145
	Ozone Contactor Design Flow Rate at Plant Maximum Design Flow, MGD	150.2
	Total Number of Ozone Contactors	5
Pre-Ozonation pH Adjustment – Lime	Chemical Used	Quicklime (CaO)
	Commercial Chemical Purity as CaO, percent	89
	Slaked Lime ($Ca(OH)_2$) Slurry Solids Content, percent	10-15
	Slurry Density, lb/gal	7.83
	Slurry Specific Gravity	1.06
	99th Percentile Dose as $Ca(OH)_2$, mg/L	54.3
	Maximum Slurry Usage Rate, gpd	76,896
	Maximum Slurry Usage Rate, gph	3,204
Pre-Ozonation pH Adjustment-Sodium Hydroxide – Standby Basis Only to be Used During Lime System Downtime	Chemical	Sodium Hydroxide (NaOH)
	Commercial Solution Strength, percent	50
	Commercial Solution Specific Gravity, units	1.52
	99th Percentile Dose as Commercial Solution, mg/L	85
	Design Flow Basis, MGD	36
	Maximum Commercial Solution Usage Rate[1], gpd	16,176
	Maximum Commercial Solution Feed Rate[1], gph	674
Ozone Contactor	Total Number of Contactors	5
	Ozone Contact Volume per Contactor, gals	365,102
	Total Ozone Contact Volume, gals	1,824,624
	Ozone Contactor HRT at Plant Maximum Design Flow (30.05 MGD per Contactor), min.	17.5
	Advanced Oxidation Contact Volume per Contactor, gals	53,002
	Total Advanced Oxidation Contact Volume, gals	265,008
	Available Advanced Oxidation (O_3-H_2O_2) HRT at Plant Maximum Design Flow, min.	2.54
Post-Ozonation pH Adjustment Lime	Chemical	Lime
	Purity, percent	89
	Slaked Lime Slurry Solids Content, percent	10-15
	Slurry Specific Gravity	1.06
	99th Percentile Dose as $Ca(OH)_2$, mg/L	26.9
	Maximum Slurry Feed Rate, gph	1,587
	Maximum Slurry Usage Rate, gpd	38,088
Post-Ozonation-pH Adjustment – Sodium Hydroxide Standby Basis	Chemical	Sodium Hydroxide (NaOH)

Unit Process	Parameter and Units	Value
Only – To Be Used During Lime System Downtime	Purity, percent	50
	Specific Gravity, units	1.52
	99th Percentile Dose, mg/L	42
	Maximum Solution Feed Rate, gph	333
	Maximum Solution Usage Rate, gpd	7,992
Post-Ozonation-Filter Aid Polymer Addition	Chemical	Cationic Polymer (Liquid)
	Solution Strength, percent	1.0
	Specific Gravity	1.003
	50th Percentile Dose as Active Chemical, mg/L	0.008
	75th Percentile Dose as Active Chemical, mg/L	0.025
	99th Percentile Dose as Active Chemical, mg/L	0.062
	Maximum Solution Feed Rate, gph	36
	Maximum Polymer Usage Rate, gpd	864

4.6.1 Building and Location

The new ozone contactor and ozone generator building will be located on the north end of the plant across the driveway from the existing north liquid chemical storage containment area and Dry Chemical Building No. 1. The new LOX storage and feed area will be in proximity to the fifth train with consideration for truck delivery accessibility.

The Ozone Generation Building will house the ozone generator and PSU, air compressor system for nitrogen boost, and a dedicated electrical room. The gaseous oxygen filter and pressure control piping will also be in the building.

The ozone dissolution system will be adjacent to the ozone contactor to allow for immediate dispersion into the contactor. The pumps and piping will be configured similar to Trains 3 and 4.

4.6.2 Ozone Contactor

The new ozone contactor inlet channel will be connected to the outlet of the new pre-ozonation pH adjustment basins (located at the outlet of ACTIFLO® Unit 5 sedimentation tank). The downstream end of the inlet channel will contain the entrance to the ozone dissolution down-flow pipe. The outlet of the down-flow pipe housing the gas dispersion system static mixer will discharge into the first reaction cell of the new ozone contactor. The ozone contactor passes will be arranged in a serpentine pattern providing a 46:1 length to width ratio.

The new contactor will consist of eight passes (not counting inlet channel pass) with ozone contact in seven of the passes with ozone quenching agent addition immediately prior to the eighth and final pass. Each pass is 7’-6” wide and 47’-10” long. Based upon a water depth of approximately 19’-9”, the total operating volume per contactor will be approximately 428,900 gallons. Active ozone contact volume prior to hydrogen peroxide addition would be approximately 375,900 gallons. The potential ozone contact time will be 13.4 minutes at plant maximum design flow.

A pressure vacuum relief valve will be located on the contactor roof to relieve excess vacuum or positive pressure in the contactor during draining or filling and protect the structure from any other atypical conditions.

4.6.3 Ozone Dissolution System

Ozone dissolution will be accomplished using new units identical to the currently existing gas dispersion systems (GDS) with static mixers. A new GDS static mixer system will be employed at the inlet of the new ozone contactor.

Subsequent to pH adjustment, the settled water will enter an inlet channel. The water will flow downward through a 42-inch diameter stainless steel pipe by gravity. This down-flow pipe contains a 42-inch minimal diameter static mixer with two (2) helical elements constructed of stainless steel. The 2.5:1 L/R ratio will give a high level of mixing efficiency with low headloss, estimated at 25-inches water gauge. The new static mixer housing will be fitted with two 4-inch diameter flanged injectors upstream of the mixing elements for addition of the ozone/water solution. The overall length of the static mixer housing and injection ports will be approximately 13’-8”. Two 8-inch diameter flanged inspection ports will be provided for inspection and maintenance of the mixers.

The new GDS static mixer system will be provided with two (2) pre-dispersion loops composed of a static mixer, a vacuum eductor/ejector (also referenced as a liquid jet compressor) and a sidestream pump. A small sidestream of the incoming water, 250 to 300 gpm is pumped by the sidestream pump at a pressure of approximately 60 pounds per square inch (psi). The vacuum created by the velocity of the water at the eductor draws ozone gas into the water. The 4-inch diameter static mixer with four helical elements operates at a high velocity and shear rate to form tiny gas bubbler (approximately 980 microns) with a tight size distribution. This ozone rich stream is then injected into the down-flow pipe before the static mixer elements. The down-flow pipe then exits into the first ozone contact pass. The design mass transfer efficiency is 95-percent.

4.6.4 Liquid Oxygen Storage and Vaporizers

The new LOX Storage and Feed Area will house a single horizontal LOX storage tank with the same nominal capacity as the existing tanks, two vaporizers, and two chilled water units. This capacity allows for an estimated 16 to 20 days of LOX storage during average ozone production at 10 to 12-percent ozone-in-oxygen concentration. The vaporizers will be sized for a minimum capacity of 284 scfm and designed to operate in parallel to match the strategy for the existing facilities. The chilled water system will include two units with a minimum capacity of 68 tons per day, depending on chilled water requirements of the ozone generators and power supply units (PSUs). A concrete curb will enclose the new LOX storage and feed area, and equipment will rest on concrete pads with a concrete slab foundation. A gaseous oxygen interconnect between Train 5 and Trains 1 and 2 will be provided for redundancy.

4.6.5 Hydrogen Peroxide Addition

To date, hydrogen peroxide has not been required or used at the RSWTP for ozone quenching or advanced oxidation. However, during the previous expansion, Tampa Bay Water requested the retention of the hydrogen peroxide feed capability for future use in quenching ozone residuals that could occur if higher ozone residuals were necessary for additional pathogen inactivation. In addition, the hydrogen peroxide

could be used for advanced oxidation, if necessary, for effective oxidation of some taste and odor compounds like geosmin, MIB or algal toxins.

As an alternative to hydrogen peroxide, calcium thiosulfate could be evaluated as an ozone quenching agent since it is considered safer to handle and more cost efficient to store. If calcium thiosulfate was utilized in place of hydrogen peroxide, the system would rely on ozone and biofiltration alone for removal of taste and odor compounds in place of advanced oxidation.

4.6.6 Off-Gas Destruction

The off-gas destruct units (ODUs) will be thermal catalytic units with off-gas blowers maintaining a constant vacuum pressure in the ozone contactor headspace. The off-gas system will be sized for the maximum expected oxygen flow of 284 standard cubic feet per minute (scfm) plus an allowance for leakage. Two off-gas destruction units will be installed, one duty and one standby, each rated for a minimum of 313 scfm.

4.6.7 Pre-Ozonation and Post-Ozonation Chemical Additions

Pre-ozonation and post-ozonation pH adjustments will be performed in mixing basins of the same dimensions, geometry, and volumes as the existing mixing basins. Each mixing basin will be equipped with mixers of the same number, construction, and mixer motor characteristics as currently utilized. Capability to perform pH adjustment using either slaked lime solution or sodium hydroxide will be provided. Lime and sodium hydroxide addition piping and valves will match the currently installed equipment. Filter aid polymer will also be dosed in the post-ozonation mixing basin.

Following ozonation, pH adjustment, and filter aid polymer addition, water from Train 5 will flow through new 48-inch diameter filter influent piping to the north end of the existing common filter influent channel at Filter No. 1. Stop log guides will be incorporated into this connection to allow the filter influent piping to be periodically isolated, dewatered, and cleaned. An upward facing 48” x 20” wye will be provided above grade to allow access for jetting tools and a suction hose to facilitate the cleaning process.

4.7 Biologically Active Filtration

Three new biologically active filters (BAFs) with basin dimensions, geometry, and filter surface area equivalent to the existing filters will be constructed. The new filters 16 to 18 will be constructed to the south of existing Filter No. 15 and to the east of existing chlorine contact chamber. The filter influent channel for Filter Nos. 16 to 18 will be connected to the south end of the existing common filter influent channel for Filter Nos. 10 to 15 using a 48-inch diameter pipe. Considering the filter influent channel for Filter Nos. 10 to 15 is connected across the gap between existing Filter No. 9 and Filter No. 10, this design will provide flexibility to allow any combination of filters to be used with any combination of ACTIFLO® - Ozonation process trains. Stop log guides will be incorporated into the design of the connection to the existing filter inlet channel to allow isolation of the filter influent piping for dewatering and cleaning. An above-grade 48” x 20” wye fitting will be included in one of the sections of the vertical piping to facilitate access for insertion of jetting tools and a suction hose needed for cleaning.

The design intent is to produce 145 million gallons finished water per 24 hours. Filter No. 16 will be provided with the ability to monitor the pressure by means of filter profile.

It is planned to install a stop log structure in the filter influent channel between Filters 16 and 17. This arrangement will allow periodic filter influent channel cleaning without disrupting total plant production.

4.7.1 Process Requirements

Table 4.3 provides the basis of design criteria for the new BAF filters process, backwash supply pumping and finished water pumping. **Table 4.3A** provides the revised basis of design criteria relating to the design rated treatment capacity of 145 MGD as discussed in Section 1. Per Table 4.4A, after facility expansion, on a filter loading rate basis with all filters on-line, the maximum filtration rates will be 3.9 gpm/ft^2. With one filter out of service the filter loading rate will be 4.13 gpm/ft^2 for the maximum flow conditions.

Table 4.3 Basis of Design Criteria – New Filtration Systems

Unit Process	Parameter and Units	Value
Biologically Active Filters	Type of Filter	Single Cell, constant rate, with rate-of-flow controller
	Number of New Filters	3
	Length of Filter Cell, ft-in	66’-0”
	Width of Filter Cell, ft-in	22’-6”
	Surface Area per Filter, ft^2	1,485
	Design Water Depth Over Media, ft-in	9’-7”
	Media Freeboard, ft-in	2’-11”
	Underdrain System	Type S Plastic Block Lateral with IMS 200 media retainer
	Filter-to-Waste (FTW) Flow Rate (maximum), gpm/ft^2	2.00 [1]
	Filter-to-Waste (FTW) Duration, mins	5[1]
Filter Media Configuration	Filter Type	Dual-Media
	Sand Layer Thickness, in.	6
	Sand Effective Size, mm	0.45 to 0.55
	Sand Uniformity Coefficient	≤ 1.50
	GAC Layer Thickness, in.	48
	GAC Mesh Size	8x20
	GAC Effective Size, mm	1.0 to 1.2
	GAC Uniformity Coefficient	≤1.5
	Support Mechanism	IMS 200 Media Retainer
Filter Backwash	Type of Backwash	Air Scour/Water
	Minimum Hydraulic Rate, gpm/ft^2	8[1]
	Maximum Hydraulic Rate, gpm/ft^2	22 [1]
	Number of Waste Backwash Collection Troughs per Filter	9
	Width and Depth of Waste Backwash Collection Trough, in.	25” by 26”
	Design Backwash Water Volume including Filter-to-Waste, gals	420,000
	Air Scour Rate, scfm/ft^2	3 – 5 [1,2]

Unit Process	Parameter and Units	Value
	Duration of Air Scour	4 minutes

Notes:
[1]Per existing process.
[2]Existing blowers to be used.

Table 4.3A Basis of Design Criteria – Filtration Systems – Expanded Facility

Unit Process	Parameter and Units	Value
Hydraulic Basis of Design	Plant Maximum Design Flow, MGD	145.0
	Filter Maximum Design Flow Rate at Plant Maximum Flow, MGD	150.2 [1]
	Total Number of Filters	18
Biologically Active Filtration	Total Number of Filters at Maximum Condition	18
	Surface Area per Filter, ft^2	1,485
	Total Filter Surface Area at Maximum Condition, ft^2	
	Filtration Rate at Maximum Design Flow – All Filters in Service, gpm/ft^2	3.9
	GAC Volume per Filter, ft^3	5,940
	Total GAC Volume at Maximum Design Condition, ft^3	106,920
	Empty Bed Contact Time at Maximum Design Condition, min	7.7
Filter Backwash	Frequency of Backwashes at 145 MGD – Favorable Raw Water Quality Condition	12 Filters per day
	Backwash Water Volume including Filter-to-Waste per Cycle, gals	420,000
	Total Daily Backwash Water Volume including Filter-to-Waste at 145 MGD – Favorable Raw Water Quality Condition, MG	5.09

Notes:
[1]Assuming 3.6 percent losses due to backwash and FTW under favorable raw water quality conditions.

4.7.2 Pre-Filtration Chemical Additions

Filtered water influent flow to new Filter Nos. 16 to 18 will be primarily from the existing ACTIFLO® - Ozonation Trains 3 and 4 and possibly, under very specific reduced-capacity operating conditions, from Trains 1 and 2. All four of these existing process trains are equipped with feed systems for lime (and sodium hydroxide feed as backup) for pre-filtration (post-ozonation) pH adjustment and filter aid polymer dosing, and no modifications to these existing systems are needed to support operations of new Filters 16 to 18. However, new chemical systems and modifications of existing chemical systems are needed for filter aid polymer dosing and pH adjustment of the water produced by Train 5. Descriptions of these systems are provided in Section 4.5.7.

4.7.3 Filters Configuration and Piping

The design for expansion includes three new filters for a total of 18 after facility expansion. Each filter will be 22’-6” wide and 66’-0” long. The filters will have a single cell, with an H-shaped channel and gullet

located on one side and side feed to the underdrain. The filters are designed to operate at equal and constant rates, each having a filtered water insert venturi meter and motorized modulating valve controlled by the SCADA system.

The filters will have motorized inlet slide gates and motorized waste backwash water slide gates. Gates and gate hardware will be Type 316 stainless steel.

Each filter will have nine, 25-inches wide by 26-inches deep waste backwash water troughs to match the existing filters. The troughs will be fiberglass reinforced plastic (FRP) per Tampa Bay Water's responses to Alternatives Evaluation. Concrete walkways will provide access to the filters and slide gates operators. Each filter will be fitted with a level sensor and transmitter, media headloss monitor and filtered water turbidimeter.

- Filter No. 16 is provided with a headloss depth profile monitoring capability (pressure transmitter every foot of media depth) for monitoring filter headloss profile across the media depth for process monitoring and optimization.
- A pressure gauge and transmitter at the inlet of the Backwash supply pipe to the filter, for direct and more accurate Backwash pressure monitoring is provided.
- A translucent sand trap at the bottom of the filter effluent pipe for media loss monitoring is provided.

4.7.4 Filter Media

The media will be the same as the original design and is a dual media configuration with 6-inches of sand underlying 48-inches of granular activated carbon (GAC). The sand will have an effective size of 0.45 to 0.55 millimeter (mm) with a uniformity coefficient of 1.5 or less. The sand will be laid directly on top of the filter underdrain using an integral media support layer. The effective size of the GAC of this mesh size will vary from 1.0 and 1.2 mm and will have a uniformity coefficient of 1.5 or less.

4.7.5 Filter Underdrain

The existing filters include Leopold Universal® Type S® underdrain made from high-density polyethylene (HDPE) with an IMS porous cap. Technical Memorandum 3A (TM -3A) presented details on the following options.

- Plastic Block Laterals - Leopold Type S® block with IMS 200 cap or Type XA® block with IMS 200 cap.
- Stainless steel (SST) lateral systems as manufactured by Anthratech Western Inc. (AWI) and Roberts Trilateral SST

Tampa Bay Water has decided to use Leopold Type S® plastic block underdrain with IMS 200 media retainer for new filters. This will allow consistency of operation across all filters, provide flexibility to backwash using concurrent air and water at rates practiced currently and alleviate concerns with clogging of IMS porous cap.

4.7.6 Filter Backwashing

As currently occurs, filter backwashing will be initiated by either filtered water turbidity, accumulated headloss in the media, or a pre-selected time. All these criteria will be adjustable. The backwashing of only one filter at a time will be allowed.

Provision will be made to backwash the filter media using an air scour and associated backwash water system. The system will allow an initial air scouring cycle at a rate of 3 to 5 scfm/ft^2 followed by low-rate (8 gpm/ft^2), high-rate (22 gpm/ft^2) and a final low-rate (8 gpm/ft^2) water backwash. Existing backwash pumps will be used for backwashing the new filters.

No new air scour blowers will be provided since only one filter will be backwashed at a time and two 100 percent capacity blowers are already installed.

4.7.7 Filter-to-Waste

Consistent with existing operations, a five-minute filter-to-waste period at maximum flow rate of 2 gpm/ft^2 is proposed.

4.7.8 Filtered Water Piping

New filtered water piping, a new filtered water junction box, and modifications to existing filtered water piping will be required to integrate new Filter Nos. 16 to 18 into the system.

All filtered water from existing Filter Nos. 1 – 15 is routed through branches of the common filtered water header to either Clearwell 1/2 or Clearwell 3/4. The existing filter backwash pumps draw water from Clearwells 3/4 (and may also draw water from Clearwell 1/2 if a valve in connecting piping between Clearwells 1/2 and 3/4 is opened). Filtered water from Filter Nos. 1 – 15 that is not used for filter backwash flows into the clearwells' effluent channels and continues to the chlorine contact chambers. No changes to this system are proposed.

The common filtered water header from new Filter Nos. 16 to 18 will flow into a filtered water weir box structure located adjacent to the northeast corner of Filter No. 16. The purpose of the weir is to maintain a minimum hydraulic grade elevation within the common filtered water header (for existing Filter Nos. 1 to 15 this function is provided by influent weirs at Clearwell Nos.1/2 and 3/4). After passing over the weir, filtered water will pass through new 48-inch filtered water yard piping which will be connected to existing 60-inch filtered water piping that carries filtered water from existing Clearwells 3/4 to the existing chlorine contact chambers.

4.8 Chlorine Contact Chamber

The existing two chlorine contact chambers are combined into a single structure. Each chamber consists of multiple 11-ft. wide passes and a final 6-ft. wide pass. After the final 6-ft. wide pass, flows from both chambers merge at the upstream end of the approach channel to the finished water transfer pumps. Opening or closing of gates at the upstream and downstream ends of each chamber allow either chlorine contact chamber to be taken out of service for inspection and/or cleaning.

Table 4.4 provides operational design criteria for the existing chlorine contact chambers. No modifications to the chlorine contact chambers are included in this project. Sodium hypochlorite dosing will continue to be flow-paced based upon plant finished water production.

Table 4.4 Basis of Design Criteria – Chlorine Contact Chambers – Expanded Facility

Unit Process	Parameter and Units	Value
Chlorine Contact Chamber	Maximum Design Flow, MGD[1]	150
	Number of Chlorine Contact Chambers	2
	Max Volume per each Contact Chamber, gals[2]	803,600
	Min. Volume per each Contact Chamber, gals[2]	642,800
	Minimum Detention Time at Maximum Design Flow Condition – Both Basins in Service, min	12.3
	Minimum Detention Time at Design Flow Condition – One Basin out of Service, min	6.2

Notes:
[1]Instantaneous peak flow
[2]Depth varies between approximately 8 feet and 10 feet.

Chlorine will continue to be provided by commercial strength sodium hypochlorite at a 10 to 15 percent by weight purity. The design basis for chlorine addition was set during the previous 2008 to 2011 expansion using a maximum chlorine residual of 4.0 mg/L and an average chlorine residual of 2.0 mg/L.

Table 4-5 provides operational design criteria for the sodium hypochlorite feed system for the expanded facility. Further discussion regarding proposed modifications to the existing sodium hypochlorite storage and feed systems is included in Section 4.9.

Table 4.5 Basis of Design Criteria – Sodium Hypochlorite Feed System – Expanded Facility

Unit Process	Parameter and Units	Value
RSWTP Free Chlorination Process	Maximum Design Flow, MGD	145
	Chemical	Sodium Hypochlorite (NaOCl)
	Purity Range, percent	10-15
	Assumed Purity, percent	10
	Available Chlorine per Gallon 10 percent Solution, lbs	0.84
	Specific Gravity	1.15
	50th Percentile Chloring Dose, mg/L	4.5
	75th Percentile Chlorine Dose, mg/L	4.6
	99th Percentile Chlorine Dose, mg/L	6.5
	Design Chlorine Residual, mg/L	4.0
	Average Chlorine Residual, mg/L	2.0
	Maximum Design Condition Sodium Hypochlorite Solution Usage[1], gph	393
	Maximum Design Condition Sodium Hypochlorite Solution Usage[1], gpd	9,432

Notes:
[1] Maximum feed and usage rates were calculated using 99th percentile chemical doses

4.9 Residuals Handling

This subsection describes the selected residuals handling system for the Work and provides the basis of design criteria. The selected residuals handling system will continue to provide the maximum feasible recycle/reuse of waste streams. It is intended that the only "lost" water will be water contained in the solids (dewatering to typically 18 percent solids) and sanitary waste streams. Calculations were performed at 110 MGD plant flow with two belt filter presses out of service and 145 MGD maximum design flow with one belt filter press out of service, unless noted otherwise. Results for the maximum design flow are reported in the tables below.

The residuals handling system has been designed based upon the requirements of the EPA's Filter Backwash Recycle Rule (FBRR, 66FR 31086). As such all recycled flows will be introduced into the main treatment process at a point prior to the point of pH adjustment and coagulant addition. The recycle stream will be pumped from either existing Recycle Surge Basin 1 or Recycle Surge Basin 2. The recycle surge basin system will serve to equalize the various recycle streams including filter-to-waste water, spent backwash water, belt filter press filtrate and wash water, gravity thickener overflow, backwash solids clarifier effluent, and other miscellaneous plant flows.

4.9.1 Process Requirements

Table 4.6 provides the basis of design criteria for the new residuals handling system components. **Table 4.6A** provides the basis of design criteria for the total residuals handling system which includes the total system (existing and new components). The residuals handling system is expected to produce a solids cake with a minimum solids content of 15 percent with an expected solids content of 18 percent or higher. Since the initiation of operation of the plant, the dry solids content of the dewatered cake has been consistently 18 to 19 percent.

Table 4.6 Basis of Design Criteria - New Residuals Handling System

Unit Process	Parameter and Units	Value
Belt Filter Press Feed Pumps	Type of Pumps	Variable Speed Progressive Cavity Pumps
	Number of Pumps	1
	Capacity per pump, gpm	200
	Motor Size, hp	15
Belt Filter Press Dewatering Units	Type	Belt filter presses
	Number of Units	7
	Belt Width, meters	2
	Maximum Solids Feed Rate per BFP, lbs/hr	1,600
	Feed Solids Concentration, percent	5.6
	Dewatered Solids Concentration, percent	18
	Type of Conditioning Agent	Anionic Polymer
Belt Filter Press Wash Water Pumps	Type of Pumps	End Suction Centrifugal
	Number of Pumps	7
	Capacity per pump, gpm	95

Unit Process	Parameter and Units	Value
	Pressure Build, psi	10-60
	Motor Size, hp	5
Belt Filter Press Polymer Feed Pumps	Type of Pumps	Variable Speed Progressive Cavity Pumps
	Number of Pumps	2
	Capacity per pump, gpm	11
	Motor Size, hp	2
Additional Solids Drying Area	Area, acres	1
	Access Road	Existing paved road
	Location	North of Pond 40
	Stormwater and Runoff Collection Pond	Recycle Surge Basin 2

Table 4.6A Basis of Design Criteria - Residuals Handling System – Expanded Facility

Unit Process	Parameter and Units	Max Flow Condition[1]
Backwash Solids Clarifiers	Number of Clarifiers (Installed/Duty/Standby)	3/2/1
	Volume per Clarifier, gal	565,000
	Total Installed Clarifier Volume, gal	1,695,000
	Type	Batch/Fill/Draw
	Backwash Water Flow, MGD	4.93
	Assumed Effluent Solids Concentration, percent solids	1.25
	Dry Solids Underflow, lbs/day	6,755
	Batches Per Day	12
	Number of Backwash Sludge Pumps (Installed/Duty/Standby)	2/1/1
	Capacity per Pump	60ft @ 33ft
	Pump Horsepower, hp	3
Gravity Thickeners	Number of Installed Thickeners	3
	Number of Duty Thickeners	2
	Surface Area per Thickener, ft^2	7,088
	Total Thickener Surface Area, ft^2	14,176
	Freeboard, ft	2.28
	Sidewater Depth, ft	15
	Cone Height, ft	10.65
	Assumed Maximum Solids Holding Depth from Bottom of Conical Tank[2], ft	14
	Solids Holding Volume, gals/tank	357,453
	Total Duty Sludge Holding Volume, gals	714,906

Unit Process	Parameter and Units	Max Flow Condition[1]
	Influent to Gravity Thickeners	
	ACTIFLO Hydrocyclone Underflow, gpd	4,315,000
	Backwash Solids Clarifier Underflow, gpd	64,800
	Belt Filter Press Filtrate, gpd	722,739
	Dewatering Polymer Addition, gpd	9,427
	Total Influent Feed, gpd	5,111,966
	Approximate Solids Content of Influent, percent solids	0.24
	Dry Solids, lbs/day	96,343
	Solids Flux, lbs/day/ft^2	6.8
	Hydraulic Loading, gpd/ft^2	361
	Effluent from Gravity Thickeners	
	Thickened Solids Outflow (10th percentile, Average), percent solids	3.9, 5.6
	Solids Feed Rate per GT, gpd/tank	102,942
	Solids Storage Time, days/tank	3.5
Belt Filter Press Dewatering Units	Number of Installed Units	7
	Number of Duty Units	6
	BFP Feed Rate, gpm	57.2
	Loading Rate of BFPs, lbs/hr	1,600
	Dry Solids Production, lbs/day	95,972
	Number of Days Operating, days	5
	Necessary Daily Operating Time Duty Units, hrs	14.0
Belt Filter Press Feed Pumps	Total Number of Belt Filter Press Feed Pumps (Existing + New)	7
	Capacity of New Pumps, gpm	200
	Capacity per Existing Pumps, gpm	200
	Total Pump Capacity, gpm	1,400
Recycle Surge Basin System	Number of Basins	2
	Orientation of Basins	Series (Primary) and Parallel (Secondary)
	Total Basin Capacity, gals	1,764,422
	Daily Recycle Volume from GTs, gal	4,906,081
	Storage Time, hrs	15.4
	Number of Return Pumps Per Basin	2
	Return Pump Capacity Each, gpm	5,310
	Number of Return Pump Stations	2

Unit Process	Parameter and Units	Max Flow Condition[1]
	Total Return Pump Duty Capacity, gpm	10,620
Sludge Drying Beds and Collection Pond	Total Area, acres	7
	Access Road	Existing paved road
	Berm Height, ft	2
	Total Stormwater Pretreatment Volume, acre-ft	4
	Type	Dry Pond
	Design Storm Event, in	1
Backwash Water Clarifier Solids Thickening Polymer	Chemical	Anionic Polymer
	Solution Strength[3], percent	0.3
	Polymer Dose, mg/L	0.32
	Dry Polymer Usage Rate, ppd	40.0
	Solution Feed Rate, gph	66.7
	Fill Time, hr/day	6.0
	Capacity of Existing Pumps	1,680gph pump with 2:1 gear reducer (840gph); up to 100 psig
	Status	Existing ECO Pulsafeeder GA12 pumps are properly sized, but existing pumps are out of service. VNA will repair if dosing at the clarifiers is deemed necessary.
Gravity Thickener Solids Thickening Polymer	Chemical	Anionic Polymer
	Solution Strength[3], percent	0.3
	Polymer Dose, mg/L	4.6
	Dry Polymer Usage Rate, ppd	196
	Total Solution Feed Rate, gph	326
	Solution Feed Rate per Duty Pump, gph	163
	Capacity of Existing Pumps	180gph pump up to 100 psig
	Status	Existing ECO Pulsafeeder GA4 pumps are satisfactory for dosing at the GT in the future expansion without any gear reduction.
Belt Filter Press Dewatering Polymer	Chemical	Anionic Polymer
	Solution Strength[3], percent	0.3
	Dose as Pure Polymer, lbs/dry ton solids	6.8
	Dry Polymer Usage Rate, ppd	324
	Total Solution Feed Rate, gph	540
	Solution Feed Rate per Duty Pump, gph	90

Unit Process	Parameter and Units	Max Flow Condition[1]
	Capacity of Existing Pumps, gph	1,320gph pump with 2:1 gear reducer (660gph); up to 50 psig
	Status	Existing ECO Pulsafeeder GH8 pumps are satisfactory for future expansion. New pumps shall match existing.
Dewatering Polymer Storage	Average Historical Polymer Usage, lb dry active polymer/dry ton solids	6.8
	Total Polymer Usage at Historical Average Solids Loading, dry lb/day	324
	Days of Storage Available at Average of Historical Polymer Usage[4], days	18
	Status	Days of storage above include dosing to Backwash Solids Clarifier and Gravity Thickeners. Dosing to clarifier and thickener are not performed on a regular basis. Existing storage is satisfactory for future expansion.

Notes:
[1] Maximum design condition of 145 MGD maximum plant capacity at average historical dry solids production with N+1 redundancy.
[2] Operator reads solids depth approximately 25 feet from weir along the thickener bridge. Goal is to maintain 10ft or less of solids blanket.
[3] RSWTP reported solution strength in aging tank.
[4] Chemical storage guiding principle is 14 days of storage at sustainable flow and average dose.

4.9.2 Backwash Water Solids Clarifiers

The three batch clarifiers that provide solids separation of spent filter backwash water will remain. New spent backwash water piping from proposed new Filter Nos. 16 – 18 will be interconnected with the existing spent backwash water piping from Filter Nos. 1 – 15.

4.9.3 Recycle Surge Basins

No modifications to the two existing recycle surge basins or recycle return pumping systems are included in the proposed design. A new paved area for storage of dewatered and dried treatment process residual solids (approximately 1 acre) will be constructed immediately to the northwest of Recycle Surge Basin No. 2. Drainage from this new paved area will be routed to the recycle surge basin. Based on hydraulic modeling analyses, the recycle return pump stations consist of a 75-hp duplex pump station located at each recycle basin and are estimated to have adequate capacity to handle the increase in recycle flows resulting from the proposed increase in capacity of the RSWTP and from any stormwater drainage from the proposed new residuals solids storage area.

4.9.4 Gravity Thickeners/Solids Pumping

There will be no modifications to the existing gravity thickeners, nor to the number of gravity thickeners onsite, in the proposed design. The common solids header which connects the thickened solids lines of all three gravity thickeners will be modified to accommodate the additional solids feed pump for the new belt filter press. Refer to the following section on belt filter presses for more details. The common solids

header may need to be upsized from an 8-inch to a 10-inch pipe, pending finalization of the hydraulic model results, to mitigate hydraulic constraints when Gravity Thickener No. 3 is offline, and the plant must deliver thickened solids from Gravity Thickeners No. 1 and 2 to three presses in Dewatering Building No. 2.

4.9.5 Belt Filter Presses

Thickened solids are withdrawn from the central sump of each gravity thickener to a common header. This common header connects to the suction side of each belt filter press feed pump. One new pump will be added in the Work and connected to the gravity thickener common header near Gravity Thickener No. 3. The new pump will be rated at 200 gpm and will have a 15-horsepower variable speed drive motor. This pump will be dedicated to new Belt Filter Press No. 7. The control for each feed pump will be located in the corresponding control panel for each belt filter press and can control both solids feed rate and polymer pump speed. Belt filter press feed and polymer feed is set manually from the control panel by the operator but can also be set through SCADA. Protection devices on the belt filter press feed pumps will include high pressure switches and interlocks with the belt filter presses. The Work will include seven new 2-meter belt filter presses, which have a capacity of 1,600 pounds per hour (lbs./hr) and can produce dewatered cake with at least 18 percent solids. At maximum design solids production (145 MGD with average solids production), the belt filter presses can process the solids operating approximately 14 hours per day, 5 days per week, with one unit out of service and a maximum loading of 1,600 lbs./hr. In poor water quality conditions, the total plant production will be impacted. Under a poor-quality condition (110 MGD with 90th percentile historical solids production), the belt filter presses can process the solids operating approximately 13 hours per day, 7 days per week, with 2 units out of service and a maximum loading of 1,600 lbs./hr.

The new belt filter presses will be housed in the existing pits located in Solids Dewatering Building No. 1 and No. 2. A seventh above grade pit will be constructed in the empty space in Solids Dewatering Building No. 2 to accommodate the seventh belt filter press. The Expansion will include duty-standby polymer feed pump skids for the seventh belt filter press to match the existing design philosophy for the existing belt filter press polymer pumps. Refer to the Chemical Storage and Feed Systems section for more details.

The buried filtrate line will be modified near Dewatering Building No. 2 to accommodate the additional filtrate flow from Belt Filter Press No. 7. No modifications to the filtrate pump station are required for the proposed work.

4.9.6 Dewatered Solids Storage/Handling/Disposal

The horizontal and inclined screw conveyors in Solids Dewatering Building No. 1 and No. 2 collect dewatered cake from the belt filter presses and deliver it up to the truck loading bay where it is distributed into a truck bed in either the east bay or west bay using a series of horizontal screw conveyors. One truck is filled at a time. The horizontal and screw conveyors in the dewatering buildings will be replaced with one belt conveyor per building that can change direction in multiple axes with one belt and one drive motor per building. Within the truck loading bay itself, the distribution horizontal screw conveyor (HSC-5070-2) on the east side will be replaced with a larger trough and screw to accommodate the additional cake produced by the two dewatering buildings.

An additional paved solids drying area (approximately 1 acre) will be constructed north of Pond 40 near the entrance to the existing dewatering solids drying area. Modifications to the existing solids drying area, additional turning equipment, truck tire wash station, and capacity check for Recycle Surge Basin No. 2's pumping system are being analyzed in a separate evaluation. Once a decision on the modifications to this area has been made, the design elements will be folded into the design of the rest of the plant.

4.9.7 Residuals Chemical Additions

Polymer is used to assist in the thickening and dewatering of residual solids. The existing system located in Solids Dewatering Structure 1 consists of a dry polymer mixing system and two 2,500-gallon capacity mixing and aging tanks. The polymer solution is pumped to the Gravity Thickeners No. 1 and 2 and the four original belt filter presses with dedicated polymer metering pumps. The Solids Dewatering Structure 2 includes two 2,500-gallon capacity mixing and aging tanks which can be filled by the same dry polymer mixing system within Solids Dewatering Structure 1 through a common suction line. The polymer pumps in this covered canopy area feed Gravity Thickener No. 3, the Influent mix tower, the backwash solids clarifiers, and the two belt filter presses added in the 2010 plant expansion. Plant staff have reported that even though they have the two extra tanks, they only use the two 2,500-gallon tanks in Solids Dewatering Structure 1 area at any given time. The suction line to the Solids Dewatering Structure 2 polymer pumps is routed to receive polymer from either set of tanks. New polymer metering pumps (duty-standby) will be installed for the new belt filter press. The polymer metering pumps will withdraw from the stock solution in the mixing and aging tanks to each application point. Refer to the Chemical Storage and Feed Systems sections for more details on the pump and storage updates for dewatering polymer.

4.10 Chemical Storage and Feed Systems

This subsection describes the various new chemical storage and feed systems for the expansion of the RSWTP.

Modifications to the existing liquid and dry chemical storage and feed systems and construction of new chemical storage and feed facilities will be required to support the expanded treatment processes and the addition of a fifth ACTIFLO® train. The chemical storage and feed systems requiring modification are as follows:

- ACTIFLO® Train 5: Sulfuric acid, ferric sulfate, sodium hydroxide, microsand, and coagulant aid polymer.
- Pre-Ozonation and Post-Ozonation pH Adjustment: Lime and sodium hydroxide (backup to lime).
- Biologically Active Filters: Filter aid polymer.
- Disinfection: Sodium hypochlorite.
- Belt Filter Press No. 7: Solids dewatering polymer.

4.10.1 Process Requirements

Sections 4.9.1 through 4.9.11 summarize the existing storage and feed systems and proposed modifications to those systems. The design will not utilize separate day tanks for wet chemicals. The rationale for this approach is as follows:

1. The daily use of a number of the chemicals are well in excess of 2,000 gpd. As such a true "day" tank would be a relatively large tank approaching the size of a bulk storage tank for most plants.

2. The day tank and associated transfer pump(s) represent additional leak points and safety hazards. Overall safety is enhanced by minimizing the number of chemical containers and transporting devices.

3. The facility, due to its size and treatment processes, will utilize relatively large volumes of chemicals. As such, delivery contracts are established with stringent delivery schedules and guarantees.

4. In the unlikely case of a storage tank failure, provisions will be made in the design to allow direct metering pump suction from the delivery truck. As explained in Item 3., the facility will have essentially daily deliveries of most chemicals used in the facility and facility downtime to the loss of a storage tank would be minimal.

Table 4.7 summarizes the new wet chemical bulk storage tanks. **Table 4.7A** details the revised wet chemical bulk storage tanks sizes and capacities. **Table 4.8** lists the days of storage at sustainable and maximum flow. All chemical storage containment areas will be sized to hold 110 percent of the largest tank capacity. **Table 4.9** summarizes the new chemical metering pumps. New eyewash/shower stations will be provided in the wet chemical bulk containment area and the new dry chemical buildings.

Table 4.7 Basis of Design Criteria – New Bulk Liquid Chemical Storage

Chemical	Capacity per Tank (Approximate) (gallons)	Number of New FRP Tanks	FRP Tank Dimensions
Ferric Sulfate (65% Solution)	25,000	2	12' Dia. X 29'-6" long
Sodium Hypochlorite (10% to 15% Trade Solution)[1]	25,000	1	12' Dia. X 29'-6" long

Table 4.7A Basis of Design Criteria – Bulk Liquid Chemical Storage – Expanded Facility

Chemical	Capacity per Tank - Approximate (gallons)	Total Number of Tanks	Total Storage Capacity (gallons)
Ferric Sulfate (65% Solution)	25,000	5	125,000
Sulfuric Acid (93% Solution)	25,000	3	75,000
Sodium Hypochlorite (10% to 15% Trade Solution)	25,000	3	75,000
Sodium Hydroxide (50% Solution)	25,000	3	75,000

Table 4.8 Bulk Liquid Chemical Storage- Total Days of Storage Onsite

Chemical	Estimated Chemical Storage Time at Sustainable Flow and 50th Percentile Chemical Dosing (Days)	Estimated Chemical Storage Time at Sustainable Flow and 99th Percentile Chemical Dosing (Days)	Estimated Chemical Storage Time at Maximum Flow and 99th Percentile Chemical Dosing (Days)
Ferric Sulfate (65% Solution)	15	7.2	5.3
Sulfuric Acid (93% Solution)	19	9.3	6.8
Sodium Hypochlorite (10-15% Trade Solution	15	10.5	7.6
Sodium Hydroxide (50% Solution)	47	12.3	9.0

Table 4.9 Basis of Design Criteria – New Chemical Metering Pumps

Chemical	Application Points	Active Pump	Standby Pump	Pump Capacity gph	Pump Type
Ferric Sulfate (65% Solution)	Influent Line to each ACTIFLO® Coagulation Tank- Train 5	1	1	235	Peristaltic
Sulfuric Acid (93% Solution)	Influent Line to each ACTIFLO® Coagulation Tank Primary Injection Point	1	1	300	Gear
Sodium Hypochlorite (10% Trade Solution)	Chlorine Contact Chamber	2	2	310	Diaphragm
Sodium Hydroxide (50% Solution)	Re-Circulating Loop to Train 5– Pre-Ozone and Post-Ozone pH Adjustment Points	2	1	720[1]	Gear
Lime (10-15% Slurry)	Re-Circulating Loop to Train 5 Pre-Ozone and Post-Ozone pH Adjustment Points	2	Shared standby with trains 1 and 2	3,600	Centrifugal
Lime (10-15% Slurry)	Re-Circulating Loop to Trains 3 and 4 Pre-Ozone and Post-Ozone pH Adjustment Points	2	2	3600 Pre-Ozone 3300 Post-Ozone	Centrifugal
Microsand	Influent Line to the Injection Tank in ACTIFLO® Train 5.	1		30 (gpm)	Centrifugal
Filter Aid Polymer (1.0% Solution)	Post-Ozone Injection Point – Train No. 5	1	1	45	Gear
Coagulant Aid Polymer (1.0% Solution)	ACTIFLO® Injection Tank – Train No. 5 ACTIFLO® Maturation Tank- Train No. 5	1 1	1	440 440	Gear

Chemical	Application Points	Active Pump	Standby Pump	Pump Capacity gph	Pump Type
Cationic Polymer Transfer Pumps	Transfer Pump from new north polymer building to existing north dry chemical building. Transfer Pump from existing north dry chemical building to new north polymer building	1 1		1000 1000	Gear

[1] To match pumps recently purchased by Veolia operations.

4.10.2 New Sulfuric Acid System

4.10.2.1 Sulfuric Acid Storage

The three existing 25,000-gallon steel tanks for the 93 percent strength sulfuric acid are sufficient to meet the demand of the expanded facility. Additional sulfuric acid storage will not be required onsite.

4.10.2.2 New Sulfuric Acid Metering Pumps

Two new metering pumps (one active pump and one standby pump) will be required for the primary pH adjustment point for ACTIFLO® Train 5. These pumps will serve a peak feed rate of 300 gph will be used to feed the required doses of sulfuric acid. The feed pumps will be located in the sulfuric acid containment area on the north side of the plant and will feed directly into the Train 5 ACTIFLO® coagulation tank. All necessary metering pump appurtenances will be provided, including, but not limited to, safety valves, back pressure valves, and pulsation dampeners.

4.10.3 New Ferric Sulfate System

4.10.3.1 New Ferric Sulfate Storage

Two new 25,000-gallon horizontal FRP tanks will be provided for 65 percent ferric sulfate solution storage. One tank will be constructed on the north side, in the existing containment area, previously used for hydrogen peroxide storage. This tank will serve ACTIFLO® Train 5 and connect to the existing piping for service to Trains 1 and 2. The other ferric sulfate tank will be installed in a new containment area to be constructed adjacent to the current chemical storage site on the south side of the plant and will be dedicated to dosing ferric sulfate to existing Trains 3 and 4 ACTIFLO® systems. The two new ferric sulfate tanks will be connected by piping to the existing tanks to share chemical volume. Tank dimensions will have a diameter of 12-feet in and a length of 29-feet and 6-inches. Connections for the delivery of ferric sulfate will be provided with 2-inch male camlock and groove connectors on 2-inch diameter PVC fill-line with appropriate air station connection. A 6-inch diameter PVC vent will be used to protect the tanks from excessive pressure or vacuum. The ferric sulfate fill line for both new tanks shall be furnished with basket strainers to filter out iron particulates and prevent settling on the bottom of the tanks.

A 6-inch diameter Polyvinyl chloride (PVC) overflow pipe would drain any overflow to the containment area beneath. A sump will be provided with a locking valve on the stormwater discharge pipe. The secondary containment structures will be designed to hold 110% of the volume of the ferric sulfate tanks.

Precautionary signs will be posted and locking caps used on the fill lines to prevent accidental introduction of other chemicals.

4.10.3.2 New Ferric Sulfate Metering Pumps

Two new metering pumps (one duty and one standby) at a maximum feed rate of 235 gph will be used to feed the required doses of ferric sulfate to Train 5 of the ACTIFLO® system. These pumps will be installed within the ferric sulfate containment area on the north side of the plant. All necessary pump appurtenances will be provided, including, but not limited to safety valves, back pressure valves, pulsation dampeners, and calibration columns. The new tank on the south side will be plumbed to the existing tank and pumps, therefore additional pumps are not required at this location.

4.10.4 New Coagulation Aid Polymer System

4.10.4.1 New Coagulation Aid Make-Up System

The coagulation aid polymer which also assists in the separation of the recirculated sand/solids, will be delivered as a dry polymer, preferably in 1650-2000 lb supersacks. As requested by Veolia, the polymer storage onsite should be sufficient to meet the polymer usage demands for 30 days of operation. An additional polymer makeup system will be required for the new treatment train and will be housed in the new North Polymer Building in close proximity to ACTIFLO® Train 5. A new polymer makeup system will be provided and designed to match the two existing cationic polymer makeup systems onsite. The polymer bags will be lifted by overhead hoist and fed via gravity into a new volumetric feeder. The volumetric feeder will meter the dry polymer at 30 lbs/hr into a wetting device. The wetted polymer slurry will flow into two, 2,500 gallons mix and feed tanks and be fed to the pumps as a 1.0 percent solution. The polymer is fed to the injection locations from one tank, while the other tank fills and ages. The required aging time for this cationic polymer is 30 minutes.

4.10.4.2 New Coagulation Aid Metering Pumps

Three new variable speed gear pumps at a maximum flow rate of 440 gph will be used to meter the polymer solution. Three pumps will feed the injection and maturation tanks (2 duty, 1 one common standby). A secondary dilution water stream will be provided to further reduce the solution strength to 0.3 percent if required for satisfactory operation.

To allow for redundancy in the event of a polymer system failure, the new makeup system will be connected to the polymer makeup system in the existing north dry chemical building. Two new transfer pumps will be provided for this purpose. One pump will be located in the existing north dry chemical building and will transfer mixed and aged polymer to mix tanks 5 and 6. Another transfer pump will be provided in the new north polymer building to supply existing mix tanks 1 and 2 with mixed and aged polymer in the event of system failure.

4.10.5 New Lime System

A new quicklime storage silo will be provided to meet the increased lime demand of the expanded water treatment plant. A new dry chemical building will be constructed on the south side of the plant, near ACTIFLO® Trains 3 and 4 to house and operate the new lime equipment. The new lime silo (Lime Silo No. 3) will feed Lime Slaker No. 3, which will feed slurry into Lime Slurry Tanks 3 and 4. The new lime slaker shall be capable of slaking 4,000 lbs/hr of dry lime, which is consistent with the capacity of the slakers in

the north lime building. Four new lime metering pumps will draw from the two new 2,000-gallon Slurry Tanks. The new lime system will tie into the existing pipework serving Trains 3 and 4 pre- and post-ozonation. The existing recirculation loop from Slurry Tanks 1 and 2 (feeding Slurry Tanks 3 and 4) will be retained to provide system redundancy. The associated transfer pipework will be re-routed to the new lime building.

The two existing lime silos on the north side of the plant will serve ACTIFLO® Trains 1, 2 and 5. Lime Slurry Tanks 1 and 2 will continue to feed the pre and post ozonation mixing tanks for ACTIFLO® Trains 1 and 2. One new lime pump (3,600 gph capacity) will draw from the existing Lime Slurry Tanks 1 and 2. The new pump will feed diluted lime slurry (10-15%) to the pre and post-ozonation pH adjustment points for Train 5 on a recirculating loop. Train 5 will share standby pumps with Trains 1 and 2, which can be connected via flex-hose if necessary.

A 1.5-inch connection to the plant water system will be provided for flushing the lime slurry pumping and piping system. Flushing water will discharge to the plant drain system and will be recycled. In the event the water is not suitable for recycle, the plant recycle system will be by-passed to the sanitary pump station.

4.10.6 Sodium Hydroxide (Caustic Soda) System

4.10.6.1 Sodium Hydroxide Storage

The current sodium hydroxide storage on site meets the demands of the expanded facility for finished water pH adjustment. However, sodium hydroxide has also been used intermittently for pre and post ozonation pH adjustment as a backup to lime. In these situations, the usage rate of sodium hydroxide for pre- and post-ozonation pH adjustment may be significantly higher than demands for pH adjustment of finished water. Therefore, to decrease the volume of sodium hydroxide required during these periods, the chemical strength is to be increased from 25% to 50%. Additional storage tanks will not be required, although the piping and chemical tanks must be heat traced and insulated to prevent crystallization of the chemical. The heat tracing on the existing sodium hydroxide lines to Trains 1-4 shall be evaluated and repaired/replaced if necessary.

4.10.6.2 New Sodium Hydroxide Metering Pumps

One new sodium hydroxide re-circulating pump will be provided to pump the chemical from the bulk storage tanks to a new re-circulating line that will feed the pre- and post-ozonation pH adjustment points for treatment Train 5. The model and capacity of this pump will match the existing pumps recently purchased by Veolia operations. All necessary metering pump appurtenances will be provided, including, but not limited to safety valves, back pressure valves, pulsation dampeners, and calibration columns.

Additionally, the treatment plant doses sodium hydroxide for pH adjustment of finished water. These pumps are appropriately sized and will not be replaced in this expansion.

4.10.7 Hydrogen Peroxide System

The existing 3,000-gallon high density polyethylene hydrogen peroxide tank will be demolished to provide room for an additional 25,000-gallon ferric sulfate tank on the north side of the plant. The existing

hydrogen peroxide pipework to Trains 1-4 will be retained and capped close to the existing containment area. Hydrogen peroxide pipework will not be routed to Train 5.

4.10.8 New Filter Aid Polymer System

Mixing, storage, and metering of this polymer for Train 5 will be located in the new north Dry Chemical Feed Building. The chemical will be stored in the original 1650–2000-pound supersacks that are delivered to the plant. The polymer storage onsite should be sufficient to meet the polymer usage demands for 30 days of operation. It should be noted that filter aid polymer and coagulation aid polymer are the same cationic polymer, therefore the filter aid polymer feed draws from the new coagulant aid polymer mixing tanks described above. The wetted polymer slurry will be fed as a 1 percent solution. A secondary dilution water stream will be provided to further reduce the solution strength to 0.3 percent if required for satisfactory operation. Metering pumps (one duty, one standby) with a capacity of 45 gph will meter the chemical from polymer mixing Tanks 1 and 2 to the post ozonation mixing Tank in Train 5.

4.10.8.1 Sodium Hypochlorite System

Commercial grade sodium hypochlorite solution (10 to 15 percent available Cl_2) will continue to be used as a chlorine source. One new 25,000-gallon FRP horizontal tank with a diameter of 12-feet and 29-feet and 6-inches long, will be installed at the new NaOCl Storage and Containment area. The new sodium hypochlorite tank will be connected to the two existing tanks by pipework to share chemical volume. A 2-inch diameter PVC fill line will be provided for the delivery of hypochlorite. The containment area will hold 110% of the storage volume. A sump will be provided with a locking valve for rainwater removal. An emergency eyewash and shower will be provided adjacent to the containment area. Precautionary signs will be posted and locking caps used on the fill lines to prevent accidental introduction of other chemicals. A 6-inch diameter PVC overflow pipe will be provided to drain any overflow to the containment area beneath. Additionally, a 4-inch diameter PVC vent with a pressure/vacuum relief valve will be used to protect the tanks from excessive pressure or vacuum. The four existing sodium hypochlorite metering pumps have sufficient capacity to meet the increased plant demand. Although the operability of these pumps is poor, therefore they will be replaced with this plant expansion. Each pump will have a maximum pumping capacity of 310gph. All necessary metering pump appurtenances will be provided, including, but not limited to safety valves, back pressure valves, pulsation dampeners, and calibration columns.

4.10.9 Dewatering Aid Polymer System

The tables to support the dewatering and thickening aid polymer is found in Section 4.10. A description of the system and modifications to the system are provided below.

4.10.9.1 Dewatering Aid Polymer Storage and Make-Up System

The solids dewatering and thickening aid polymer system is delivered as a dry polymer in supersacks of 1,650 pounds. The bags are lifted by overhead hoist and fed via gravity into a volumetric feeder. A volumetric feeder meters the dry polymer into a wetting device. The wetted polymer slurry flows into one 2,500-gallon mix and feed tank at a time and is fed as 0.3% solution to the pump. There is a dilution line that can further dilute the polymer manually with the rotameter based on operator judgement of how it is mixing with the thickened sludge. There are two additional 2,500-gallon tanks, but plant operation staff has confirmed they are not used. There are 6 existing supersacks of dry anionic polymer stored onsite. The guiding principle for chemical storage onsite is to provide at least 14 days of storage at sustainable

plant flow and average dose. At historical average polymer usage rates and 145 MGD plant flow, the 6 supersacks provide 18 days' worth of polymer, which meets the onsite chemical storage requirements.

4.10.9.2 Polymer Usage for Backwash Solids Clarifiers

Anionic dewatering polymer is used to assist in settling the solids in the spent backwash water in the Backwash Solids Clarifiers. While the plant does not currently dose polymer at the backwash solids clarifiers, they would like to maintain the pipelines. Polymer for this treatment process is fed into the common influent line to the Backwash Solids Clarifier system. The polymer solution is dosed from the 0.3% strength aging tanks in the dewatering area through Pumps 12 and 13. Therefore, the polymer usage was scaled from the 50 lbs/day for 15 filters backwashed per day in the 2007 BODR. The new calculated dose is approximately 1.0 mg/L, or 40 lbs/day at maximum design conditions. The polymer solution dosing rate required in this condition is 67 gph per duty pump. The existing pumps are oversized but are currently out of service. VNA can replace the pumps in the future if dosing to the Backwash Solids Clarifiers is reinstated.

4.10.9.3 Polymer Usage for Gravity Thickener Solids Thickening

Solids separation and thickening in the Gravity Thickeners can be enhanced using the same anionic dewatering polymer. While the plant does not currently dose polymer at the Gravity Thickeners, they would like to maintain the ability to do so. Polymer is dosed from the same 0.3% strength dewatering polymer solution tanks as the backwash solids clarifiers and the belt filter presses. The gravity thickeners can be fed dewatering polymer two different ways. There is one polymer dosing location to the influent mix tower which would distribute the polymer evenly to all three gravity thickeners (i.e., through Polymer Pumps 7 or 8), and the second way is to dose the polymer to each gravity thickener individually (i.e., through Pumps 5 or 6 for Gravity Thickeners Nos. 1 and 2; through Pumps 7 or 8 for Gravity Thickener No. 3). Therefore, the polymer usage of 587 lbs./day for 2 gravity thickeners from the 2007 BODR was used and then reduced to account for intermittent usage of the chemical. The new calculated dose is approximately 4.6 mg/L, or 196 lbs./day for maximum design conditions. The polymer solution dosing rate required under these conditions for the individual thickener polymer pumps is 163 gph per pump, or 326 gph for the polymer pump dosed to the influent mixing tower. If dosing to the individual gravity thickener, the existing pump capacities of the ECO Pulsafeeder GA 4 pumps are satisfactory. If dosing to the influent mix tower, then the GA 4 pump is undersized to meet the polymer needs for two gravity thickeners. Both pumps 7 and 8 would need to be turned on to meet the required polymer flow.

4.10.9.4 Proposed Metering Pumps and Polymer Usage for the Belt Filter Presses

Anionic dewatering polymer is used to assist in solids separation through the belt filter presses. The dewatering polymer would be dosed from the same dewatering polymer solution tanks in the dewatering building through the new polymer Pumps No. 14 through 15. The average historical polymer usage from the data provided by Veolia from February through September 2023 was 6.8 lbs of active polymer per ton of dry solids. Based on this polymer usage, the total polymer usage for 5 duty belt filter presses would be 246 lbs./day at 110 MGD and average historical solids production conditions for the dewatering buildings. At 145 MGD and average historical solids production conditions, the total polymer usage for 6 duty belt filter presses would be 324 lbs./day. Two new polymer pumps (duty-standby) will be provided for polymer dosing to the new belt filter press. Each pump will have a capacity of up to 1,320 gph (22 gpm) with a 2 to 1 gear reducer to match existing pump capacity.

4.11 Architectural Work

This subsection provides the basis of design criteria and goals for the architectural work.

4.11.1 General

The overall facility architectural goals are as follows:

- Design expansion facilities similar in size and architectural treatment to the existing buildings on site of similar use.
- Proposed modifications to existing facilities will be sensitive to cost and to the existing aesthetic.
- Proposed new treatment process facilities will be designed in a similar or complimentary aesthetic to the existing facilities.
- All facility buildings will be designed in an efficient, economic and holistic, environmentally sensitive manner.
- Select building systems that provide a balance between affordability and efficiency of construction, and aesthetics.

4.11.2 Code and Building Design Requirements

The design will be based on the following Codes and Standards:

- 2023 Florida Building Code, Building, Eighth Edition
- 2023 Florida Building Code, Existing Building, Eighth Edition
- 2023 Florida Building Code, Energy Conservation, Eighth Edition
- 2023 Florida Fire Prevention Code, Eighth Edition
- 2023 Florida Building Code, Accessibility, Eighth Edition
- Local Planning and Zoning Codes and Ordinances
- Occupational Safety and Health Administration (OSHA)
- National Fire Protection Association (NFPA) applicable provisions.
- Americans with Disabilities Act (ADA)

4.11.3 Building Layouts

The design approach to the new buildings and structures will be to re-create the aesthetic of the existing buildings on site. The colors, textures and architectural components will match, or be similar to, the existing components.

4.11.4 Exterior Finishes and Structure Systems

The exterior features of the new buildings will include the following finishes:

- The new Ozone Building No. 3 will be constructed at the location shown on the Civil Site Plan. It will consist of an ozone generator room and an electrical room. The character of the building will be the façade will be designed to face the plant main entrance area and relate to architectural elements on the existing operations building. The structural system will be colored split-face CMU exterior bearing walls with a steel joist and composite deck roof framing system.

- The new Dry Chemical Storage Building will be constructed similar to the existing Dry Chemical Feed Building with a steel frame structure with colored split-face CMU exterior walls. It will consist of a lime feed system room and an electrical room. The sloped portion of the roof will have light gage steel trusses with Spanish tile metal panels in a custom blue color and Kynar® finish. The low-slope portion of the roof will be a modified bitumen membrane system over tapered insulation.
- The new Ferric Sulfate and existing Sulfuric Acid Tank storage will be provided with a pre-engineered metal canopy system for weather protection over the pumps only.
- The new Filter Building will be constructed at the location shown on the Civil Site Plan. The architectural character of the building will be similar to the existing Filter Buildings with a cast-in-place concrete lower level with enclosed pipe gallery and pre-engineered metal canopy system at the upper level for weather protection.
- The new Polymer Storage Building will be constructed at the location shown on the Civil Site Plan. It will consist of a polymer pumping room, polymer makeup and storage room, and electrical room. The architectural character of the building will be similar to the other existing process buildings. The structural system will be colored split-face CMU exterior bearing walls with a steel joist and composite deck roof framing system.

4.11.5 Interior Finishes

The finishes for the new buildings demand a level of durability, low maintenance, and appealing aesthetics and will be consistent with the finishes in the existing buildings on site. Where applicable the interiors of buildings will not be provided with any wall coatings.

4.12 Structural Work

This section addresses the design criteria relating to the structural design of new structures and modifications to existing structures identified in other sections of this report. All structures and modifications will be designed in accordance with the structural codes and design standards listed in this section.

4.12.1 Codes, Standards, and References

The design will be based on the requirements of the following codes and standards:

4.12.1.1 Governing Code

The governing code for the project will be as follows. In no case will the strength, serviceability, or quality standards for materials and procedures be less than that required by the governing code.

- 2023 Florida Building Code, Building, Eighth Edition
- 2023 Florida Building Code, Existing Building, Eighth Edition

Where the provisions contained or referenced herein differ from those in the governing code, design will be performed in accordance with the most stringent.

4.12.1.2 Referenced Standards

The following codes will be used for design and as specifically referenced herein.

- American Society of Civil Engineers (ASCE)
    - ASCE 7-22 Minimum Design Loads for Buildings and Other Structures
- American Institute of Steel Construction (AISC)
    - AISC 360-16 Specification for Structural Steel Buildings
- Aluminum Design Manual (ADM)
    - ADM1-2020: Part 1–Specification for Aluminum Structures
- American Concrete Institute (ACI)
    - ACI 318-19 Building Code Requirements for Structural Concrete
    - ACI 350-20 Code Requirement for Environmental Engineering Concrete Structures
    - ACI 350.1 Tightness Testing of Environmental Engineering Concrete Structures
- ASTM Standards
- American Welding Society (AWS)
    - AWS D1.1: 2020 Structural Welding Code – Steel
    - AWS D1.2: Structural Welding Code - Aluminum
    - AWS D1.4: 2017 Structural Welding Code - Reinforcing Steel
    - AWS D1.6: 2018 Structural Welding Code - Stainless Steel
- Steel Joist Institute (SJI) Standards
- Steel Deck Institute (SDI) Standards
- The Masonry Society (TMS)
    - TMS 402-16 Building Code Requirements for Masonry Structures

4.12.2 Standards

Design of specific systems and materials will be performed in accordance with the codes, specifications, and other standards adopted by the governing code. In the absence of direction from the governing code, the most recent edition of the documents referenced herein for each system and material will be used.

4.12.3 Structure Descriptions

- High-Rate Flocculation/Sedimentation Unit 5: Cast-in-place reinforced concrete structure.
- Ozone Contactor Tank Train 5: Cast-in-place reinforced concrete structure.
- Ozone Generator Building 3: Reinforced masonry bearing/shear walls.
- Liquid Oxygen Storage Train 5: Cast-in-place reinforced concrete slab on grade.
- Coagulant Aid and Polymer Building Train 5: Reinforced masonry bearing/shear walls.
- Filters No. 16-18: Cast-in-place reinforced concrete structure.
- Dry Chemical Feed Building 3: Steel braced frames supporting reinforced masonry cladding and light gage metal roof trusses.
- South System Chemical Storage: Cast-in-place reinforced concrete structure.
- Sodium Hypochlorite Storage: Cast-in-place reinforced concrete structure.
- Belt Filter Press Feed Pump Slab: Cast-in-place reinforced concrete slab on grade.
- Modifications to Solids Dewatering Building No. 1: modifications are related to the removal and replacement of the belt filter press equipment
- Modifications to Solids Dewatering Building No. 2: modifications are related to the removal and replacement of the belt filter press equipment

4.12.4 Design Loads and Serviceability

4.12.4.1 Scope

All applicable loads and load combinations will be determined as required by the governing code, occupancy, site and environmental effects, equipment and processes. Appropriate load combinations will be established and appropriate allowable stresses, load factors and safety factors (as applicable). These criteria will be established at the beginning of preliminary design and confirmed at the beginning of final design.

Dead Loads

Dead loads are those resulting from the weight of all fixed construction such as walls, partitions, floors, roofs, cladding, equipment bases and all permanent, nonremovable, stationary furnishings.

Numerical values for the dead load of well-defined components of a structure will be used as documented in the following publications:

- ASCE 7
- AISC Manual
- Concrete Reinforcing Steel Institute (CRSI) Handbook
- Manufacturer's catalogs for fabricated components

Live Loads

Live loads will consist of all loads due to occupancy, furnishings and equipment. Live load reduction will not be employed for members of large influence area in the design of environmental and industrial facilities, due to the relatively high probability of simultaneous loads on all areas. Live load reduction may be employed in general buildings that are not part of environmental or industrial facilities, with approval.

Uniform Live Loads

Uniform live loads will be established in accordance with the governing code. Values are listed below for purposes of preliminary design. Actual usage and equipment will be considered during final design and higher loadings used when appropriate.

Buildings

- Office areas 50 psf
- Office file, record and mainframe computer areas 125 psf
- Personnel assembly areas 100 psf
- Stairways, corridors, lobbies 100 psf
- Partitions (present or future) 30 psf
- Roofs 20 psf
- Storage areas 250 psf

Process Structures

- Office areas 150 psf

- Stairways, corridors, lobbies, catwalks 150 psf
- Storage areas 300 psf
- Process areas (including hatches and gratings) 200 psf
- Electrical rooms 300 psf
- Control rooms 150 psf
- Unrestricted vehicular areas AASHTO HL93

Equipment Loads

Loads from equipment will be considered live loads. The maximum loads and support details for each major piece of equipment will be provided by the discipline designing or specifying it. Final weights of process-mechanical equipment will be established during preliminary design. Preliminary weights of building service equipment (HVAC, plumbing, and electrical) will be established during preliminary design, and confirmed during final design.

In addition to the mechanism's static dead load, design will be performed for other effects, such as those due to operation, maintenance and malfunction. Examples include, but are not limited to, the following.

- All equipment: Contents.
- Rotating agitator equipment (mixers, flocculators, and mechanical aerators): Design will be performed for moment, torque, and lateral/vertical thrust.
- Rotating clarifier mechanisms: Design will be performed for stalling torque.
- Vertical turbine pumps: Design will be performed for suction load plus the weight of the suspended water column in the riser.
- Slide gates, non-self-contained: Design will be performed for a load equal to the breaking strength of the operating stem, or the stalling torque of the motorized operator, in the event the gate is frozen.
- All equipment: Design will be performed for required maintenance procedures, such as the removal of a large component and the placing of it temporarily on the adjacent structure.

Impact Loads

- Static loads will be increased for the effects of impact by the following percentages:
    - Vehicular loads: In accordance with the AASHTO Specification.
    - Bridge crane supports: 25% of hoist capacity. 20% of the sum of the hoist capacity, hoist weight, and trolley weight will be applied as a lateral load, and 10% of the sum of the hoist capacity and total crane weight will be applied as a longitudinal load.
    - Monorail supports: 25% of hoist capacity. 10% of the sum of the hoist capacity and hoist weight will be applied as a longitudinal load.
    - Light machinery supports, shaft or motor driven: 20% of the operating weight (minimum) or manufacturer's recommendation.
    - Hangers supporting floors or balconies: 33% of live load reaction.

Construction Live Loads

The contractor is normally responsible for maintaining loads on partially or fully complete structures at or below the design live loads noted on the drawings, or for providing supplemental support. However, in certain cases, if the service load on a structural element is negligible, a design load will be used that would accommodate reasonable construction activities.

When it is necessary to provide particular restrictions on construction sequencing, special loads conditions may result. This is particularly applicable to work involving the modification of existing structures. These cases will be evaluated, and appropriate criteria established during final design. Such restrictions will be indicated in the drawings or specifications.

4.12.5 Environmental Loads

The proposed structures for the surface water treatment plant are designated as essential facilities in accordance with the governing code.

Risk Category: IV

Wind Loads

Minimum design wind loads are prescribed in ASCE 7 for the project location and shown below as Ultimate and Nominal design wind speeds. The code required minimum wind speeds will be considered the design wind speeds for the project.

- Ultimate wind speed V_{ult}: 155 mph
    - This is equivalent to a Category 4 hurricane per ASCE
- Basic Wind Speed V_{asd}: 120 mph
    - Exposure factor: C

Appropriate shape modification factors, uneven distributions, and orthogonal effects will be considered for each structure. Main wind force resisting systems, as well as appropriate components and cladding, will be designed for internal and external effects. Increased allowable stresses or reduced load factors will be used, as appropriate.

Internal loads due to positive or negative air pressure caused by mechanical or process systems will not be considered wind loads. These loads will be considered in the manner of a process liquid load.

4.12.6 Process Liquid Loads

Design will be performed for liquid loads assuming liquid surface at the maximum working level using normal allowable stresses, or the load factor for a live load, as appropriate. In addition, design will be performed assuming the liquid surface at the maximum possible level under surcharge conditions using an increase in allowable stresses, or the load factor for a dead load, as appropriate.

Where cells of a tank communicate so that one cannot be isolated from an adjacent cell (by valves, gates, stoplogs, or other normal operational means), the separating walls will not be designed for liquid on one side only. However, design will be performed for a 12-inch minimum water level differential on either side of the wall to account for flow lag and minor dynamic effects, unless hydraulic analyses indicate different level.

Elements acting as or affected by screens (which remove trash or other solids from flow) will be designed for liquid to its maximum level, assuming the screen is completely blocked. Elements acting as flow baffles (at which blockage is unlikely) will be designed for a 12-inch minimum water level differential, unless hydraulic analyses indicate a different level.

Closed liquid containing structures will, whenever possible, be vented to preclude pressurization or depressurization. However, certain structures may experience pressure or vacuum effects due to particular mechanical or process systems, or the malfunction of systems or components. In such cases, design will be performed for the maximum water, air, or gas pressure as provided by the mechanical-process discipline in preliminary design.

4.12.7 External Earth and Groundwater Loads

Earth and groundwater loads will be developed from the following criteria in accordance with the project geotechnical report and the governing code.

4.12.7.1 Design Grade Elevation

Design will be performed for ground surface at finish grade. Substructures will be designed to permit the external excavation to be backfilled after the construction of the ground level slab. Should substantial economic advantages be realized by altering this criterion, limits of backfill requirements will be indicated in the contract documents.

4.12.7.2 Design Groundwater Elevation

General

Design will be performed for groundwater at the following elevations for new structures.

- 100 Year Flood elevation: Not in a flood zone (Flood Zone X), per Flood Insurance Rate Map (FIRM) Map 12057C0378K, Panel 378 of 801, dated October 7, 2021.

Minor Structures

When the project design groundwater level is below finish grade, design groundwater elevation will be established at finish grade for relatively small below-grade structures, such a manholes and vaults, to account for localized rises in groundwater due to pipe breaks, leaking structures, etc.

4.12.7.3 Groundwater Pressures

Design will be performed for pressures generated by groundwater acting laterally, downward and upward, as appropriate. Loads factors appropriate for live loads will be used. Design will be performed for groundwater at the normal elevation for normal allowable stresses or load factors, as appropriate. Design will be performed for groundwater at the following flood elevation for increased allowable stresses or reduced load factors, as appropriate.

4.12.7.4 Lateral Soil and Groundwater Pressures

Hydrostatic

The following equivalent fluid pressures will be used in preliminary design for well-graded, granular, mineral soils with a moist unit weight of 120 pounds per square foot (pcf). Soil pressures for final design

will be developed in accordance with the geotechnical report. Design for cantilevered walls of environmental engineering structures will be performed for at-rest soil pressures.

Table 4.10 Equivalent Fluid Pressures

Pressure Condition	Pressure Coefficient	Equivalent Lateral Fluid Pressure	
		Above Groundwater	Below Groundwater
At-rest[1]	0.50	60 pcf	90 pcf
Active[1]	0.33	40 pcf	80 pcf
Passive[2]	3.00	360 pcf	170 pcf

(1) Minimum
(2) Maximum

Surcharge
Walls to which vehicles can reasonably be expected to approach within a distance equal to half the wall height will be designed for a uniform surcharge equal to 2 feet of soil.

4.12.8 Combination of Loads

4.12.8.1 General

Design will be performed for combinations of loads, along with appropriate load factors or allowable stresses, in accordance with the governing code. In the absence of specific direction by the code, the most severe distribution, concentration and combination of design loads and forces will be used. These combinations may be limited by practical considerations, such as the following:

- The effects of any load type (other than dead load) will not be used to reduce the effects of another load type. A maximum of 90% of the dead load will be used in any factored loadcombination, or 60% of the dead load for allowable stress load combinations, where it reduces the effects of another load type.

4.12.8.2 Liquid Containing or Below-grade Structures

Design will be performed for structures that contain liquids, extend below grade, or both, for the following load combinations.

- Liquid-containing compartments full, no backfill for liquid containing compartments. No reduction will be made for any counteracting soil pressure on the face remote from a contained liquid unless approved.
- Backfill and groundwater with liquid-containing compartments empty and full.
- Liquid containing compartments empty or full in any combination.

Note that tightness testing will be required for liquid containing structures in most cases.

4.12.9 Serviceability

Additional requirements for serviceability will be considered as provided in subsequent sections and referenced standards for specific materials.

4.12.9.1 Deflection

Design will be performed to limit deflections to the following. In cases indicated with an asterisk (*), deflection limit will apply to live load effects only. For monorails and cranes, impact need not be included.

• Monorails, including the effects of differential support deflection	L/450
• Bridge crane girders	L/1000
• Floor plates and gratings*	L/360
• Beams, lintels or slabs supporting masonry	L/720 (0.3-inch maximum)
• Roofs without plastered ceilings*	L/240
• Floors, steel framed*	L/360
• Floors, concrete	In accordance with ACI 318

4.12.9.2 Vibration

Design will be performed for the effects of vibration to provide appropriate protection against structural deterioration, mechanical deterioration, and significant occupant discomfort. Under normal circumstances, the guidelines below will generally be followed. If deemed necessary by the supervising structural personnel, a dynamic analysis of the system will be performed.

Mechanical Vibration

Concern for mechanical vibration is greatest for equipment such as blowers, induced-draft fans, motors, generators, compressors, steady bearings at pump shafts, and centrifuges. Operating frequencies, unbalanced loads, and specific design recommendations will be obtained from the manufacturer by the discipline specifying the equipment.

To avoid resonant vibration, the ratio of the structure's natural frequency to the operating frequency of the equipment will be restricted to less than 0.50 or greater than 1.50. Where practical, the latter will be used to avoid resonance during equipment startup and shutdown. Consideration will be given to applicable modes of vibration, including vertical, lateral, and rotational.

Design will be performed in accordance with the following guidelines for equipment which produce significant vibrational effects, where possible and appropriate.

- Equipment will be mounted on concrete foundations or supporting systems rather than metal supporting systems.
- A foundation pad or mat will be provided with a mass equal to 10 times the rotating mass of the equipment or 3 times the gross mass of the equipment (minimum), whichever is greater.

- Major equipment foundations and supporting systems will be isolated by expansion joints or independent supports from the remaining structure to minimize vibrational transmission.
- Vibration isolators, dampeners, and/or inertia blocks will be provided where appropriate.
- Anchorage to foundations will be provided by embedded anchor bolts. Drilled anchors will only be used if approved by the Engineer of Record.

Transient Vibration

For elevated steel walkways or platforms, beams will be provided with a depth greater than or equal to 1/20 of the span.

4.12.10 Foundation Design

4.12.10.1 Scope

Criteria will be established for the design of structure foundations in coordination with the geotechnical recommendations. Permanent structure foundation elements will be designed to distribute loads to the supporting soil in accordance with their allowable loads, and to accommodate predicted deformations of the structure caused by settlement or movement of the supporting elements. Structure foundation elements will be designed to resist effects of groundwater, including buoyancy.

4.12.10.2 Geotechnical Report

The geotechnical report will provide a description of the subsurface conditions, as well as recommendations for design and construction. The draft report will be reviewed for applicability and feasibility of the recommendations to the preliminary structural design. Comments will be provided to the geotechnical engineer for incorporation in the final report.

4.12.10.3 Shallow Foundation Support

Design of shallow foundation elements (footings and mats), including excavation and backfill limits and details, will be performed in accordance with the recommendations of the geotechnical report.

To the extent possible, buried piping and ductbanks will be maintained outside the influence zone of the foundation elements. Limits of this zone will be established based on bearing materials' characteristics as documented in the geotechnical report. At a minimum, this zone will be defined by a line extended outward and downward from the bottom corners of a foundation element at a 1 vertical to 1 horizontal slope. A reinforced concrete encasement or other appropriate protection will be provided for any utilities extending into this zone.

4.12.10.4 Retaining Walls

The stability of retaining walls will be confirmed for appropriate lateral soil and groundwater pressures, surcharges and other applicable loads. Passive pressures from the soil in front of the wall or footing keys will not be used to reduce loads, stresses, or overturning and sliding effects, unless measures are taken to ensure against erosion or removal of the soil and approved. Design will be performed for the following factors of safety.

- Overturning: 2.0
- Sliding: 1.5

For design of retaining walls with portions below the design groundwater level, the effects of uplift pressures will be considered in stability analyses.

4.12.10.5 Buoyancy

General Criteria

Buoyancy is defined as the condition of instability resulting when uplift forces due to groundwater exceed resisting forces due to dead load and anchorage systems. Design will be performed in accordance with the following.

Complete Structures

For groundwater at the design level, structures will be designed to resist buoyancy considering only the structure dead load, soil directly above the structure and footing extensions. The effects of live loads, liquid contents (unless relief valves are used), vertical soil friction and soil cohesion will be neglected. When anchorage systems are used, they will be designed to resist the net uplift force transmitted to the components of the anchorage. Structures will be designed to provide minimum factors of safety (FOS), calculated as the ratio of total resisting force to total buoyant force. The factor of safety against buoyancy will be evaluated for the following cases:

- FOS = 1.1: Using the dead load of the structure only
- FOS = 1.25: Using the dead load of the structure plus the dead load of the soil over the toe of the structure.
- FOS = 1.5: Using the dead load of the structure, plus the dead lead of the soil over the toe of the structure, plus the assumed soil pull-out wedges (based on the soil friction angle).

Partially Complete Structures

Since the contractor will normally be required to maintain a dewatered excavation, it will be assumed that groundwater will be maintained, at any given time, at or below the surface of the backfill currently in place. If the completed portion of the structure has insufficient resistance against pressures generated in this condition, the groundwater elevations at which the structure is stable will be provided in the contract documents.

4.12.11 Concrete Design

4.12.11.1 Scope

Design of all cast-in-place, site-cast, and precast concrete structures will be performed, except as indicated below. Member sizes, reinforcement, and details will be determined in accordance with the governing code.

Design of site concrete work, such as paving, curbing, and sidewalks will be performed by the civil discipline. Design of the following structures and elements will be performed by the fabricator or erector, in accordance with criteria provided in the contract documents.

- Precast site structures, including manholes, vaults, pipe, culverts, and headwalls
- Precast architectural elements, including wall panels, copings, and sills

4.12.11.2 General Criteria

Codes and Standards

Concrete structures will be designed in accordance with the following, as appropriate.

- General structures: ACI 318
- Environmental engineering structures: ACI 350
- Bridge structures: AASHTO Bridge Specification
- Reinforcing steel, welding: AWS D1.4

Structures that convey, store or treat liquid, are subjected to severe environmental exposures, or have restrictive leakage requirements will be designed as environmental engineering structures.

Materials and Design Strengths

Design will be performed for concrete with the following minimum 28-day compressive strengths (f'_c).

- Structural concrete: 4,500 psi
- Concrete topping: 4,000 psi
- Precast concrete: 5,000 psi
- Concrete Grout 3,500 psi
- Flowable fill – non-excavatable 300 psi
- Flowable fill – excavatable 100 psi (maximum)

Design will be performed for the strengths and properties of the following materials.

- Deformed reinforcing bars: ASTM A615, Grade 60
- Deformed reinforcing bars, welded or field bent: ASTM A706
- Welded wire fabric, plain and deformed: ASTM A1064

Design Methods

Environmental engineering structures will be designed by the Strength Design Method (Ultimate Strength) with the modified allowable stresses, durability coefficients and serviceability requirements recommended in ACI 350 for the appropriate sanitary exposure. Structures other than environmental engineering structures will be designed by the Strength Design Method.

4.12.11.3 General Design and Detailing Concepts

Joints - General

Joint Types

Design will be performed using the following joint types.

- Isolation joints are formed discontinuities in or between structures that allow movement in any direction. They are not considered to be load-transferring joints. The movement may be due to anticipated settlements, differential deflections, or temperature and shrinkage.
- Expansion joints are formed discontinuities in or between structures that allow movement perpendicular to the plane of the joint only. They are not considered to be load-transferring joints. Most often, this movement is due to both expansive and contractive forces generated by temperature and shrinkage. This movement is accommodated by providing smooth dowels

across the joint, debonded on one side. Expansion joints are normally constructed using a joint filler that has sufficient stiffness to maintain its shape during concrete placement but compresses under the subsequent movement. Keys will not be used in expansion joints. The end surfaces of the elements forming the joint will have face reinforcing to prevent spalling.

- Contraction joints function as a plane of weakness for crack formation to dissipate shrinkage stresses and are not considered to be load-transferring joints. They may be formed by use of a bond breaker between concrete placements, discontinuing reinforcing steel, forming or sawing a partial depth groove, or by a combination of these methods. Keys will not be used in contraction joints.
- Partial contraction joints are a form of contraction joint often used specifically for environmental engineering structures. They are usually not employed as load transferring joints, but do have a limited capacity for load transfer, and can be used as such with caution. A bondbreaker is applied to the joint plane and only 50% of the reinforcing steel passes through the joint. Keys will not be used in partial contraction joints.
- Construction joints are formed joints between adjacent concrete placements and are designed to be load-transferring joints. Bond between the placements is promoted and reinforcing steel is continuous through the joint so that the section behaves as though it was monolithically constructed. The surface of the first placement will be roughened to promote bond. Keys will not be used unless project requirements dictate and use is approved.

Layout and Design

The jointing system layout will be determined at the beginning of preliminary design. Joint types, locations, and related criteria will be selected. All joints will go through the entire structure in one plane whenever possible. Staggers and offsets will not be used for expansion, partial contraction and contraction joints, and avoided for construction joints unless absolutely necessary.

Joints - Environmental Engineering Structures
Layout and Design

All joints will be specifically located on the drawings, including steps, offsets and staggers, if required. Unless an analysis of temperature and shrinkage effects is performed, the layout will be developed in accordance with the following guidelines for normal cements and service conditions.

- Expansion joints: Expansion joints will be provided at a maximum spacing of approximately 120 feet on center in each direction, unless a greater spacing is approved. Where possible, expansion joints will be located at points of zero shear transfer across the joint. For expansion joints through and perpendicular to spanning systems, independent supports will be provided on each side of the joint. A seated expansion joint for spanning members will not be used unless project conditions prohibit the use of the double supports.
- Contraction joints: Contraction joints will not be used in environmental engineering structures.
- Partial contraction joints: Partial contraction joints will be provided at a maximum spacing of approximately 30 feet on centers in each direction, unless otherwise approved. If used other than parallel to one-way spanning elements, the effects of discontinuity on the design will be

considered. Partial contraction joints will not be "dead-ended" except at an expansion or isolation joint.

- Construction joints: Construction joints will be provided as required for constructability with a maximum spacing of approximately 30 feet on centers in each direction, unless otherwise approved. Reinforcing will be extended and developed through the joint. Lap splices will be staggered were possible.

Waterstops

Continuous waterstops will be provided in all joints in walls, slabs, and other elements separating the following spaces. Additional installations may be required by special project conditions.

- Between liquid containing areas and dry, habitable areas
- Between liquid containing areas and external areas (air, water, or soil)
- Between below-grade dry, habitable areas and external areas (water or soil)
- Between adjacent liquid containing areas when one can be drained while the other remains full

Waterstops in vertical joints will be extended to 2 inches below the top of the wall, or to the first horizontal joint above the design process liquid or groundwater level, whichever is lower. For horizontal joints at the intersection of walls and slabs, starter walls will be provided as required to avoid interference between the waterstop and horizontal reinforcing. For new construction, waterstops will be ribbed PVC, 9 inches wide with a center bulb at expansion joints and 6 inches wide at partial contraction and construction joints.

Reinforcement - General

Spacing

In general, 6 inches and 12 inches will be used as the basic spaces for detailing on continuous elements such as walls and slabs.

Splices

Splices in deformed reinforcing bars will be lap splices conforming to ACI 318 or ACI 350, unless otherwise indicated. For tension members, full penetration welded splices will be used. In circular tanks designed for ring tension, splice locations will be staggered. Mechanical splicers will be used only in noncritical applications where failure of the splice would not result in structural failure. When used, they will be the threaded-type mechanical splicers.

Bends

For beams, slabs, joists, and similar members, straight longitudinal bars will be used rather than bent longitudinal bars whenever possible.

Preferred Reinforcing

To the extent possible, the preferred (outermost) reinforcing in continuous members (slabs and walls) within a system will remain consistent even if the spanning direction of the various members within the system varies.

Reinforcement - Environmental Engineering Structures
Minimum Reinforcement

The minimum area of reinforcement is mainly a function of the distance between the movement joints (those that dissipate shrinkage and temperature stresses) in the direction of the reinforcement. It is also a function of the concrete mix, element thickness, and environmental conditions.

A minimum total area of reinforcement will be provided in accordance with the recommendations of ACI 350 for normal cement and service conditions. Reinforcement will be provided on each face of the element equal to not less than half of the minimum total area. A minimum bar size of #5 (except for ties and stirrups) and a maximum spacing of 12 inches will be used for all elements functioning as continuous liquid containment elements.

Anchors and Embedments
Anchor Types

Design will be performed in accordance with ACI 318 for the following anchor types.

- Cast-in anchors are set prior to casting of the concrete. Anchor bolts are the most common type, used in applications such as anchoring of steel columns. Other types include bolts with embedded plates, strap anchors, and headed anchor studs.
- Expansion anchors are generally drilled-in bolts that engage the concrete substrate by using a sloping mandrel to force wedges into the sides of the hole during tightening.
- Adhesive anchors are generally drilled-in bolts that engage the concrete substrate through the chemical bonding by a resin. Reinforcing dowels may also be anchored in this manner.

Selection

Cast-in anchors generally provide the greatest assurance of adequacy and will be used whenever practical. Cast-in inserts (threaded receptacles set below the concrete surface) will be avoided unless necessary, due to the difficulty of verifying adequate thread engagement. Drilled-in anchors will be used when greater flexibility is required in positioning the anchored elements. Expansion anchors will be used in non-critical applications only and not for tensile or vibratory loads.

Design

Anchor bolts may be designed using the allowable loads and location restrictions provided in the concrete provisions of the International Building Code. Otherwise, design for allowable loads will be performed by either an analysis that that considers the controlling failure mode (including anchor failure, bond failure, and substrate failure), or in accordance with the results of an independent testing program. In

determining allowable loads, the effects of anchor spacing, edge distance, and combined loadings will be considered.

Waterproofing
Waterproofing will be provided on walls separating dry, habitable areas from either liquid-containing areas or exterior water or groundwater. Apply to wet or dry side, as appropriate for the particular waterproofing used.

Concrete Grout
Concrete fill (f'_c = 3,500 psi) will be used mainly in environmental engineering structures to contour liquid containing spaces for flow and drainage purposes, unless it is more expedient or economical to contour the structural concrete. Concrete fill will not be considered as a structural element for resisting stresses or providing support. However, it will be considered as permanent dead load for the resistance of hydrostatic uplift.

4.12.11.4 Systems and Elements

Elevated Slabs
Structural slabs less than 8 inches in thickness will be designed with a single grid of reinforcing steel; structural slabs 8 inches or greater in thickness will be designed with two grids of reinforcing steel unless the cover and bar sizes required would result in concrete placement problems.

Walls
Walls less than 10 inches in thickness will be designed with a single grid of reinforcing steel; walls 10 inches and greater will be designed with two grids. Walls less than 12 inches thick will be restricted to less than 10 feet high for any one placement, to avoid concrete placement and consolidation. A minimum thickness of 12 inches will be used for walls continuously containing liquid.

Slabs-on-Grade
Slabs-on-grade, other than those in environmental engineering structures, will be designed for the following minimum criteria, assuming construction on competent bearing material with a 12-inch thick (minimum) layer of structural fill. Additional analysis and design will be performed for special loading conditions, particularly large, concentrated loads.

- Light Office Areas: 4-inch slab with equivalent of #4 @ 12" each way.
- Heavy Nonvehicular Areas: (200 psf - 500 psf live load): 6-inch slabs with # 4 at 12" spacing each way at center.
- Light Vehicular Areas: (AASHTO H-10 Loading or Less): 6-inch slab with #5 at 12" spacing each way at center, with special attention to the placement and compaction of granular base under slab.
- Heavy Vehicular Areas: (AASHTO H-15 Loading or Greater) 10-inch slab with two layers of reinforcing each way. Use minimum of #5 at 12" spacing each way in each layer.

In general, spacing of joints will be limited to 30 feet or less, with maximum area per placement equal to or less than 900 square feet. Increases in joint spacing and pour area necessitated by project requirements will be specially designed.

4.12.12 Masonry Design

4.12.12.1 Scope

The size and layout of all loadbearing masonry elements (exterior walls, bearing walls, shearwalls, pilasters, columns, beams, and lintels) will be designed by the structural discipline based on the architectural layout and will be reviewed to ensure a continuous and stable loadbearing system. Design of all loadbearing and non-loadbearing elements (such as partition walls and veneer) and their connections will be performed in accordance with applicable criteria.

4.12.12.2 General Criteria

Codes and Standards

Design of masonry structures, elements, and details will be performed in accordance with the following.

- Concrete and clay masonry: TMS 402-2016

Materials and Design Strengths

Design will be performed for the specified strengths and properties of the following materials.

Masonry Units:

- Concrete masonry units ASTM C90, Type I (2000 psi)

Mortar and Grout:

- Mortar ASTM C270, Type S (1800 psi)
- Grout ASTM C476, Fine Grout (2000 psi)

Reinforcement:

- Deformed Bars ASTM A615,
- Grade 60Joint Reinforcing ASTM A1064

The specified compressive strength of masonry, f'_m, will be as follows.

- Concrete masonry 2,000 psi

Design Methods

Design will be performed for all masonry elements and their components in accordance with Allowable Stress Design (ASD) methods specified in the applicable codes and standards. Where approved, elements may be designed using specified empirical methods.

4.12.12.3 General Design and Detailing

Reinforcing

Deformed bar reinforcing will be provided in loadbearing and exterior masonry. All courses and cells containing bars will be fully grouted.

In all masonry, horizontal joint reinforcing will be provided spaced at a maximum of 16 inches vertically to control cracking. Horizontal joint reinforcing will be considered to be part of the total horizontal reinforcing where required. Joint reinforcing will be hot-dip galvanized and consist of two parallel 9-gauge wires with 9-gauge connecting diagonal cross-rods or box ties welded to them at 16-inch maximum spacing.

Below Grade and Submerged Applications
Masonry will not be used in either below ground or submerged applications unless dictated by project requirements and approved. When required, solid or fully grouted hollow units will be used with an appropriate coating for protection and leak prevention.

Control Joints
In general, the spacing of control joints in masonry walls will be controlled by other building components and architectural requirements. The layout of control joints will be reviewed for its effect on the structural design of the masonry, particularly in regard to structural elements such as masonry lintels bond beams functioning as tension chords in "box system" buildings.

4.12.13 Structural Metal Design

4.12.13.1 Scope

Design of structural metal structures, systems, elements and details, will be performed, except as indicated below, for the applicable criteria.

4.12.13.2 General Criteria

Codes and Standards

Design of metal structures and elements will be performed in accordance with the following.

- Structural and miscellaneous steel: AISC Specification – ASD (unless otherwise noted)
- Steel joists and joist girders: SJI Specification
- Steel deck, general: SDI Manual
- Steel deck, diaphragms: SDI Diaphragm Manual
- Aluminum: AA Aluminum Design Manual
- Stainless steel: AISI
- Welding, steel: AWS D1.1
- Welding, aluminum: AWS D1.2
- Welding, stainless steel: AWS D1.6

4.12.13.3 Design Strengths

Design will be performed for the specified strengths and properties of the following materials

Steel:

- Structural steel wide flange shapes: ASTM A 992
- Structural steel M, S, and HP shapes: ASTM A572
- Structural steel channels and angles: ASTM A36
- Structural steel tubing: ASTM A500, Grade C
- Structural steel plates: ASTM A36High strength steel bolts: ASTM F3125
- Structural steel nuts: ASTM A563
- Anchor bolts and threaded rods: ASTM F1554 Grade 36
- Welding electrodes: AWS E70XX

Aluminum:

- Aluminum extruded shapes: ASTM B221, 6061-T6
- Aluminum sheet and plate: ASTM B209, 6061-T6
- Aluminum extruded pipe: ASTM B429, 6063-T6 or 6061-T6

4.12.13.4 Design Methods

General

Design of structural metals will be performed in accordance with Allowable Stress Design (ASD) methods specified in the referenced codes and standards. Load Factor and Resistance Design methods (LRFD) may be used with approval.

Steel Deck

Deck sizes, profiles, and connections will be selected from load tables in the referenced standards.

Joists and Joist Girders

Sizes will be selected from load tables in the referenced standards. Design loads will be provided in the contract documents. For loads other than uniform loads, a load diagram will be provided.

Gratings

Sizes of metal gratings will be selected in accordance with the manufacturer's load tables for uniform loads and limited concentrated loads defined in the tables. For other loads, design will be performed in accordance with ASD methods specified in the appropriate material standards.

4.12.14 Modification of Existing Structures

4.12.14.1 Scope

The adequacy of existing structures, elements, and details will be verified for modifications (alterations, repairs, and additions) as required by the governing code. New structural elements will be designed as required by the proposed modifications in accordance with applicable criteria.

4.12.14.2 General Criteria

2023 Florida Building Code, Existing Building, Eighth Edition

4.12.14.3 General Design and Detailing

Design and detailing of modifications to existing structures will conform to the criteria provided for the specific materials involved.

4.12.15 Performance Specification Design

4.12.15.1 Scope

Criteria, standards, quality, and submittal requirements will be developed for the design, fabrication, and construction of permanent structures designed by the contractor, subcontractor, manufacturer, or vendor.

Design of the following structures and elements will be performed by the fabricator or vendor, in accordance with criteria provided in the contract documents.

- Access hatches
- Castings, such as manhole covers and trench grates
- Storage tanks, vessels and silos
- Stacks and chimneys
- Piping, ductwork, and conduit hangers and supports
- Patented track for monorails and underhung bridge cranes

For the following items, submittals required for review and approval during construction will include complete drawings, material data, and design calculations.

- Precast concrete planks, tees, wall panels, and architectural concrete
- Precast concrete manholes
- Precast concrete cylinder pipe
- Pre-engineered Light Gauge Metal Roof Trusses
- Structural metal roof deck
- Guardrail
- Grating and Planking

4.13 Power Supply and Electrical Systems

This subsection addresses the existing power supply and electrical systems and the changes that will be necessary as part of the expansion.

4.13.1 Codes and Standards

Electrical work will be designed in accordance with the latest editions of the National Electrical Code (NEC) and Local Electrical Codes. The following are the pertinent codes, standards and references that will govern the design.

National Fire Protection Association (NFPA), with the most relevant codes and standards including:

- NFPA 70 – National Electrical Code (2020 Edition)
- NFPA 72 – National Fire Alarm Code
- NFPA 110 – Standard for Emergency and Standby Power Systems
- NFPA 780 – Standard for the Installation of Lightning Protection Systems
- NFPA 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities

Other relevant codes and standards include:

- National Electrical Safety Code (NESC)
- Occupational Safety and Health Administration (OSHA)
- National Electrical Manufacturers Association (NEMA)
- American National Standards Institute (ANSI)
- Insulated Cable Engineers Association (ICEA)
- International Society of Automation (ISA)
- Underwriters Laboratories (UL)
- Factory Mutual (FM)

- International Electrical Testing Association (NETA)
- Institute of Electrical and Electronics Engineers (IEEE)
- 2023 Florida Building Code (FBC)

All electrical equipment and materials will be listed by Underwriters Laboratories and will bear the appropriate UL listing mark or classification marking. Equipment, materials, etc. utilized not bearing a UL certification shall be field or factory UL certified prior to equipment acceptance and use.

4.13.2 Design Criteria

The electrical system for the additional facilities will be designed and sized for the maximum loads expected for the new equipment. An additional 20 percent reserve space and capacity will be included for future needs in all ductbanks, conduits, conduit supports, motor control centers (MCCs), and panelboards.

4.13.3 Electrical Distribution

Normal and standby power for the existing and new/expanded facilities at the plant can be obtained through the existing 13.2 kV main switchgear in the Main Electrical Building. The existing main switchgear is fed from the Tampa Electric Company (TECO) substation nearby with two 13.2 kV feeders. Emergency power is supplied by the plant's two on-site diesel engine driven 1250 kW emergency generators.

The existing power distribution system at the plant has been designed to provide redundant power supplies and split-bus configurations such that no single fault or loss of power in the system will shut down the plant. From distribution level to usage end, the electrical gear is of double-ended configuration (having two main feeds). The existing system utilizes dual ended 15kV switchgear, feeding redundant pad mounted step-down distribution transformers to each facility, where the 480-volt distribution utilizes main-tie-main and split bus configurations. Power to process loads is equally distributed on these busses. The double-ended scheme provides the required level of redundancy and allows shutdown of electrical equipment for periodic maintenance. Additions to the existing power distribution system required as part of this expansion will follow this configuration.

4.13.3.1 Chemical Storage and Feed Systems

Modifications to the existing liquid and dry chemical storage and feed systems will utilize the existing panelboards or MCCs. Spare circuit breakers will be used, or new circuit breakers of the same type will be provided. For the existing South Dry Chemical Building, existing MCC-5A/5B will be utilized to supply the new Sodium Hydroxide recirculation Pump in the building and will also supply the new South Dry Chemical Feed Building 3 (New Lime Silo) via a new 480V power distribution panel located in a separate air-conditioned electrical room within that building. For the North Dry Chemical Feed Building, the existing 480 V panel, PDP-3 will be utilized to supply the new Microsand Feed Pump and Lime Slurry Feed Pump and associated control panels in the building. The existing 480 V panel, PDP-4 in the North Chemical Feed Pump Building will be utilized to supply the new Sulfuric Acid and Ferric Sulfate pumps and associated control panels that will be placed in the existing North Chemical System Storage. The new Filters 16 to 18 will be supplied via a new 480V power distribution panel that will be fed by existing MCC-4A/4B in the existing Main Electrical Building.

4.13.3.2 Residuals Handling

The existing Dewatering Building No. 1 and 2 will be modified, as described in this section. Power to the buildings is supplied through existing MCC-3A and MCC-3B, respectively. MCC-3A is an existing Allen-Bradley Centerline MCC, and MCC-3B is an existing Siemens Tiastar Series MCC. Both are located in separate air-conditioned electrical rooms within these buildings. After demolition of the existing equipment described in this section, these existing motor control centers will have an adequate quantity of spare circuit breakers or empty buckets and the necessary spare electrical capacity to supply the new equipment required to upgrade this process.

4.13.3.3 Ozone System

As described in this Section, the expansion will include a new Ozone Generator, Ozone Contactor, ballasted flocculation/sedimentation (ACTIFLO®) process treatment unit, new Train 5 Coagulant and Filter Aid Polymer Building, and all miscellaneous associated equipment. The estimated connected load, as noted on the drawings, exceeds the spare capacity available at the existing North and South ozone facility motor control centers. Due to this, two new 1000 kVA pad mounted distribution transformers, fed by existing spare circuit breakers in the 13.2 kV main switchgear, will be required to supply these process areas. Each transformer will feed a new motor control center (MCC-6A and MCC-6B) which will be placed in an air-conditioned electrical room within the new ozone generator building. The new electrical loads for these buildings/processes will be split up evenly between the two busses, utilizing a main-tie-main configuration. This double-ended scheme aligns with the configuration of the existing system, provides redundancy, and allows for shutdown of electrical equipment for periodic maintenance.

4.13.4 Motor Control Centers

Where six or more combination motor controllers are required, motor control centers may be used to provide grouped motor control. Each motor control center will consist of enclosed vertical sections joined together to form a rigid freestanding assembly. These sections will be designed to accommodate a front draw-out starter unit. Solid state motor overloads will be used. The motor control centers will be rated 480-volts, 3 phase, 3 or 4 wire, 60 Hz. Motor control center main circuit breaker will be service entrance rated and suitable for use as a service entrance. Where main circuit breakers are rated 1200 A or higher, the circuit breaker will be equipped with an arc flash reduction mode, per NEC 240.87. The motor control centers will be wired NEMA Class 2, Type B. The motor control centers will be configured to allow for ethernet communication to the main control system via the ethernet fiber optic network. Ethernet cable will be Category 8 type for short runs, and Category All Ethernet cables within the motor control centers will be shielded. All starter unit control wiring will be minimum 14 AWG stranded copper. The motor control center enclosures will be NEMA 1 gasketed and located in conditioned electrical rooms. The structure will contain top and bottom horizontal wireways for full access to each vertical structure wireway. Horizontal busses will be rated as required and will be tin-plated copper. Vertical busses will be 300 ampere, minimum, tin-plated copper. Infrared (IR) inspection windows will be provided on motor control center enclosures. Ground detectors will be provided in a top control unit of the motor control center and completely wired to the horizontal bus for phases A, B, and C. The detector will visually indicate a grounded phase. The ground detector will include 480/120-volt transformers, white pilot lights, clear lenses, wiring, terminals, nameplates, and other devices, as required.

4.13.5 Transformers

Dry- type transformers will be UL-l Listed, with a minimum UL rating of K-4. The transformers will be indoors, with NEMA 1 enclosures. The windings will be copper. Temperature rise will be 115 degrees Celsius (°C), with Class H insulation. Dry- type transformers will be 3-phase, rated 480- to 208/120 V.

Medium voltage distribution transformers shall be pad-mounted, liquid filled type. The enclosures will be double-compartment construction. The windings will be copper. Transformer insulating oil shall be Exxon Univolt 33 Hydrofined (R) oil, or equal. The transformers will be 3-phase, rated 13,200V to 480V. There will be two 2.5 percent, full capacity taps above and two 2.5 percent, full capacity taps below rated primary voltage.

4.13.6 Variable Speed Drives

For motors and systems designed to operate at varying speeds, variable frequency drives (VFD's) will be used. All VFD's will utilize Pulse Width Modulated (PWM) technology using IGBT semiconductor devices for power conversion. Motors under 100 horsepower will use standard 6 pulse technology. Motors 100 horsepower and larger may use either 18-pulse type with phase shift transformers or active front end (AFE) technology to mitigate harmonics imposed on the power distribution system. In any case a harmonics system study will be required to ensure IEEE 519 standards will be met. Each drive will be complete with input disconnect and lockout, power on light, run light, fail light, and digital indicators for voltage, current, and frequency. Isolated output contacts for run and fail will be provided. Isolated inputs for the start and local/remote speed control will also be provided. A digital display mounted on the panel door will indicate faults in English statements. Various drive set-up parameters such as gain, bias, and slope control, stall protection, speed control response time, speed control stability, minimum starting frequency, and over voltage detection will be set up by means of a keyboard mounted on the panel door.

4.13.7 Motors

The motors for this project will normally be NEMA design B squirrel cage induction motors, either open, weather protected, or totally enclosed fan cooled (TEFC). All motors will be premium efficiency, high power factor. Across-the-line starting will be utilized only for motors under 50 horsepower. Motors under 50 HP may be VFD operated where necessary (e.g., ACTIFLO® injection, coagulation, and maturation mixers). Motors used in conjunction with VFD's will be rated for inverter duty and be in strict accordance with the latest NEMA MG-1, Part 31 standard. VFD control by its nature can be considered soft start. Any two-speed motor would be of the two-winding type.

Unless otherwise noted, all motors ½ horsepower through 100 horsepower will be rated 230/460 volt, 3-phase, 60 Hertz A.C.; motors 125 horsepower and above will be rated 460 volts, 3-phase, 60 Hertz A.C., and motors below ½ horsepower will be rated 115/230 volt, 1-phase, 60 Hertz A.C. Motors 50 horsepower and larger will have a 120-volt space heater for moisture control.

For motors rated 100-hp and larger, not on variable frequency drives, power factor correction capacitors to correct the power factor to 95 percent may be used. The operating power factor of the motors should range from 93 to 95 percent at full load and 95 to 98 percent when partially loaded. The capacitor banks will be located on top of the motor control centers. Capacitors shall be dry type with integral current

limiting fuse protection, blown fuse indicators, and discharge resistors. Covers shall be gasketed, bolt on type. Capacitors shall be UL listed and NEMA rated and tested.

Motors rated 125 horsepower and smaller will have a local disconnect switch at the motor, including motors on VFDs. If the available fault current at a motor disconnect switch is greater than 10kAIC, a circuit breaker will be used rather than a fusible disconnect switch to avoid single phasing the motor. Motors rated 125 horsepower and larger will be provided with a local emergency stop pushbutton.

4.13.8 Lighting

Exterior and interior light will be LED type, 120V, and suitable for the environment in which they are to be located. Fixtures shall also be rated for the anticipated ambient temperature, with corresponding light output de-rating included in the design calculations as required. In general, fixtures installed in spaces which are not air conditioned shall be rated for minimum 55 °C ambient. Interior lighting will be controlled via individual switches. Outdoor site lighting will be controlled by a combination of photocell and time control circuits. Emergency egress lights will be provided with internal 90-minute battery packs /units. Illumination levels will be calculated, and as per the recommendations of the Illuminating Engineers Society of North America (IESNA) and the requirements of OSHA.

4.13.9 Electrical Enclosures and Hardware

NEMA enclosure, area and equipment classifications will be as follows:

- NEMA 1, 1A, and 12 for dry areas such as electrical or non-process rooms above grade.
- NEMA 4 (and 3R minimum rating) for wet, watertight (and weatherproof or raintight) which will be for interior and/or exterior areas.
- NEMA 4X for wet, hose down, watertight areas that are corrosive that will be interior and/or exterior areas. Enclosures will be aluminum or type 316 stainless steel in nonchemical areas and FRP in chemical areas.
- NEMA 7 for classified hazardous areas as per National Electrical Code. Class, Division and Group will be determined during detailed design.

Electrical mounting stands, conduit mounting channel and metal channel, raceway or box hardware mounted in process or exterior locations will be aluminum or stainless steel.

4.13.10 Raceways

Conduit used for this project will be Rigid Galvanized Steel (RGS), and Rigid Aluminum. Corrosive areas will use PVC schedule 80. Direct buried underground conduits will be PVC type Schedule 80. Conduit in duct banks may be PVC Schedule 40.

Concrete ductbanks will be provided for selected major underground conduit installations, generally for large feeders and/or multi-conductor cables between structures. All concrete duct banks passing under roads will be reinforced with steel bar. Where underground conduit installations transition to above ground, conduits shall be RGS with bitumastic coating.

Liquid tight flexible metal conduit will be provided for short connections to motors and other devices, as required. Liquid tight conduit will have an interlock flexible galvanized steel core with a permanently bonded exterior grade polyvinylchloride (PVC) jacket.

The minimum size of conduit allowed will be ¾-inch. Conduits will be concealed in the slab, in walls or the ceiling to the greatest extent possible.

All underground conduits will be provided with a warning tape above the conduits. Underground electrical conduits will be placed at least 24 inches below grade. Working clearances between underground electrical utilities and other nonelectric underground utilities should be 12 inches (minimum) in addition to other specific equipment requirements.

4.13.11 Conductors

Wires and cables will be of annealed, 98 percent conductivity, soft drawn copper. All conductors shall be stranded, except that lighting and receptacle wiring may be solid.

Power wiring rated 600V and less will be NEC type XHHW-2 for sizes up to #4/0 AWG. Sizes 250 kcmil and larger will be NEC type RHW-2. Minimum power wire size: No. 12 AWG. Special VFD (variable frequency drive) power cables will not be provided unless specifically requested. Where VFD cables are not used, conductors may be routed in metallic conduits. Ground conductors will be provided in all conduits runs.

Control wiring will be No. 14 AWG Type XHHW-2, stranded. Instrumentation signal wires will be single twisted pair or multi-twisted pair of stranded, 600-volt copper cable with 50 mil polyvinylchloride insulation over each conductor, over all aluminum-Mylar tape shield, over all tin copper drain wire and 45 mil minimum polyvinylchloride jacket overall. Twisted pair cables will be shielded and will have aluminum-Mylar tape shields and tinned copper drain wires over individual twisted pairs of cable. Single twisted pair cables will be 16 AWG minimum.

All wire and cables will be run in conduit. All cables will be marked with wire markers to identify each conductor at equipment terminals and intermediate junction boxes, pole boxes, and hand poles.

4.13.12 Grounding

The grounding system will conform to NEC Article 250. The source for the new electrical systems will have a maximum resistance to ground of 5 ohms and will consist of a combination of an incoming service ground conductor, exterior driven 3/4” x 10’ copper clad ground rods interconnected in a ring around building perimeters and connected to the building/structure steel. All inaccessible connections will be exothermically welded.

Neutrals of 480-208Y/120V transformers will be connected to an approved grounding electrode as required by the National Electric Code for separately derived systems. In addition, the neutral must be bonded to the transformer enclosure. A grounding conductor shall be run with the supply conductors from the distribution ground bus to the transformer enclosure.

All conductive non-current carrying components of the electrical system such as raceways and enclosures will be grounded. A separate ground conductor will be installed with the phase conductors in all feeder and branch circuits. A separate ground conductor shall be installed with 120V control circuit conductors.

As shielded instrument cables have an internal shield which is grounded, no additional ground wire with these cables will be provided.

4.13.13 Lightning Protection and Surge Protection

All buildings and structures provided as part of this expansion will be provided with a Lightning Protection Institute (LPI) certified lightning protection system.

The lightning system will be coordinated and designed by a licensed lightning protection system supplier based on the performance specification prepared during final design. System protection will be tied to the building grounding grid.

Surge protective devices (SPDs) will be provided in the new distribution system to control transient disturbances caused by power system surges and lightning transients. SPDs will be provided at tall distribution equipment, e.g., motor control centers, distribution equipment, VFDs, and panelboards. All instrumentation will be equipped with local surge protective devices. All control panels will be equipped with local surge protective devices and surge protective terminals.

4.13.14 Fire Alarm and Security Systems

Fire alarm systems for new buildings and structures will be provided as required to meet local codes and NFPA 72. The fire alarm system will be coordinated and designed by a licensed professional engineer based on the performance specification prepared during final design and will be integrated into the facilities' overall fire alarm system.

Access control, security and CCTV systems will be provided in required areas, as shown on drawings. These requirements will be met by performance specifications with locations and risers shown on the drawings.

No telephone, telecommunications, paging, or intercom systems will be provided.

4.13.15 Identification and Marking

All electrical equipment and conductors will be identified. In general equipment identification nameplates will be provided for all components of the distribution system such as circuit breakers, switches, transformers, panelboards, motor control centers, starters, etc. Nameplates will identify the equipment name along with the upstream power source. Identification nameplates will use black letters on a white background.

Panelboards will have typed directories. Wires in lighting panels will be identified with their associated pole number using vinyl cloth wrap around labels or machine generated sleeve type labels.

Receptacles, wall switches, exit lights, instruments, etc. will be identified with the panel and circuit number using machine generated labels.

Wire and cable for feeders and branch circuits will be color coded to conform to existing facility standards. Color coding will be: Brown, Orange, Yellow, Gray (A,B,C,N) for 480/277V systems and Black, Blue, Red, White (A,B,C,N) for 208/120V systems. Equipment ground will be identified by the color green exclusively.

In general, the phase orientation for disconnects, starters and panel boards will be phased "A," "B," and "C" either top to bottom or left to right. Clockwise rotation is required. Correction of rotating loads will be done at the motor.

4.13.16 Power System Study

New electrical power system studies will be included for the RSWTP as part of the project. The manufacturer supplying the major electrical equipment for this project will also provide the following power system studies:

- Motor Starting Study
- Short Circuit Study
- Selective Coordination Study
- Arc Flash Study

An arc flash hazard analysis will be performed and will cover the entire electrical system (existing and new equipment). Arc flash warning labels will be provided per NFPA 70E. The selective coordination study will contain “as left” field ratings and settings of the electrical equipment and devices. The power system study will be performed using SKM PowerTools, in the version preferred by Tampa Bay Water. Native "back-up" SKM files will be submitted as a deliverable to Tampa Bay Water. Label format will be coordinated with Veolia Electrical Safe Work Practices (ESWP) Policy and Safety Training.

4.14 Process Instrumentation and Controls

This subsection describes the process control system. These descriptions include the main control architecture, networking, and major system control criteria.

4.14.1 Overview

This section provides control description and design criteria for the various processes that will be provided in the RSWTP. The control description is subdivided into six control sections as follows:

- Main Control System
- ACTIFLO® System
- Ozone System
- Filter System
- Solids Handling Systems
- Chemical Feed Systems

4.14.2 Main Control System Architecture and Communications

4.14.2.1 Introduction

The supervisory control and data acquisition (SCADA) system is designed such that there is no central controller, and thus no single point of failure that could disable the entire system. If any controller fails, it will only affect the portion of the system for which it was responsible.

The SCADA system is configured to allow total plant automation with little need for operator intervention, but it can also operate in a fully manual mode. Local controls can also override SCADA system controls

when required. It is anticipated that the system will run in a semi-automatic mode, which will require minimal operator input to operate the plant and give the operator all the required information necessary to ensure that the system is in permit compliance. All new processes and systems incorporated in the Work will be controlled and monitored by the SCADA System in this same manner.

The System Architecture Drawing presents a conceptual configuration of the SCADA system modifications.

4.14.2.2 SCADA Servers and Workstations

Two existing PC Servers are virtualization hosts of five virtual machines: Primary and Secondary Human Machine Interface (HMI) servers, Historian, Terminal Server, and Development. The HMI software is AVEVA (formerly Wonderware) InTouch version 2014R2. The HMI virtual servers are networked in a primary/backup redundant relationship, with the primary as default input/output (I/O) server and the backup computer in a standby mode. The backup computer monitors the processing and network communications functions of the primary. Should the primary computer fail, the backup computer will assume all control and I/O server functions. Manual intervention is required to return control to the primary computer after the problem has been corrected. The Historian virtual server provides long-term storage of data generated and collected by the HMI servers. The Terminal Server manages the HMI client sessions for operator use. The Development virtual machine provides a safe environment for creating and testing HMI modifications.

The system also has several client/workstation PCs, at which all monitoring and control functions can be performed.

HMI screens will be developed for all new process equipment installed, using the existing HMI software, and following the existing graphical and other standards.

4.14.2.3 Programmable Logic Controllers

The existing system is based around the Allen-Bradley SLC 5/05 series controller. The SLC 5/05 was chosen originally for its ability to directly connect to Ethernet networks. The controller supports TCP/IP (Transmission Control Protocol / Internet Protocol), the most widely used protocol in Ethernet networks. However, the SLC 5/05 series of PLC equipment will be obsolete by the conclusion of the Work, so it will not be used in new construction.

The Work will include ControlLogix and CompactLogix series controllers for all new system, process, and area PLC-based control panels. These controllers also support Ethernet TCP/IP communication, allowing for data transfer as needed both peer-to-peer with all other PLCs in the facility and with the Servers. Both of these controller series also use the same programming environment. CompactLogix will be the default choice for new PLCs. ControlLogix, which uses the same programming environment, may be used in locations where a more powerful processor or redundant controllers are required.

Where operator interface terminals (OITs) are required for local touchscreen control over a PLC and its associated equipment, Allen-Bradley PanelView Plus 7 Performance units will be used.

4.14.2.4 Internal Communications Network

The system communicates across a local area network (LAN)/switch system that is comprised of a pair of Ethernet switches, one for the SCADA server and workstations, the other for the remotely located PLCs.

Fiber optic cable will be used whenever a cable run would cross the boundary of a structure. Copper Ethernet cable will be used for cable runs within a structure. Copper Ethernet cable will be Category 8 type for short runs, and Category 6 or 6a for longer runs. Shielded Ethernet cable will be used within motor control centers (MCCs).

Each new PLC will be directly connected to the existing facility Ethernet network. The form of physical media used to connect to the network will depend on the location of new PLCs with respect to existing network nodes. A fiber optic transceiver or Ethernet switch will be provided in each panel connected by fiber optic cable, for the conversion of fiber to copper. Each new PLC panel will also have an Ethernet port that will allow the connection of a laptop or desktop computer for future usage or troubleshooting.

All devices added to the network will incorporate appropriate cybersecurity measures in their installation and configuration, including all existing network-wide policies and other pertinent industry-standard practices.

4.14.3 ACTIFLO® System Monitoring and Process Control

The ACTIFLO® controller will communicate with the main control system via the Ethernet fiber optic network. All control parameters and data will be resident in the local controller so stand-alone operation of the ACTIFLO® Process can occur when required.

The ACTIFLO® control panel(s) will be completely assembled, tested and programmed for the specified functionality. The control panel will be supplied with a ControlLogix PLC with redundant processors, OIT, panel door switch, and uninterruptible power supply (UPS). The ACTIFLO® control panel will include the input/output, I/O, capabilities as required for the ACTIFLO® system. All I/O including spare points will be wired to field terminations and include surge arrestors

Kruger Products will provide the ACTIFLO® control panel(s).

4.14.4 Ozone System Monitoring and Process Control

The ozone controller, covering the control of the new liquid oxygen storage and vaporization equipment and nitrogen boost as well as the new ozone generator and destruct units, will communicate with the main control system via the Ethernet fiber optic network. All control parameters and data will be resident in the local controller so stand-alone operation of the ozone process can occur when required.

The ozone control panel(s) will be completely assembled, tested and programmed for the specified functionality. The control panel will be supplied with a ControlLogix PLC with redundant processors, OIT, panel door switch, and UPS. The control panel will include the input/output (I/O) capabilities as required for the ozone system. All I/O including spare points will be wired to field terminations and include surge protection.

The ozone system supplier will provide the ozone control panel(s).

4.14.5 Filter Control System Monitoring and Process Control

The filter controller will communicate with the main control system via the ethernet fiber optic network. All control parameters and data will be resident in the local controller so stand-alone operation of the filter process can occur when required.

The filter control panel will contain a CompactLogix PLC that will monitor and control the filter and backwash system as described in the treatment process control description. The control panel will be supplied with an OIT, panel door switch, and UPS.

4.14.6 Solids Handling Systems Monitoring and Process Control

Solids handling controllers will communicate with the main control system via the Ethernet fiber optic network. Existing controllers will be used where feasible, and new controllers will be added where necessary, including vendor-furnished controllers for belt filter presses and solids thickening and dewatering polymer. All control parameters and data will be resident in the local controller so stand-alone operation of the solids handling process can occur when required. New control panels will contain a CompactLogix PLC, OIT, panel door switch, and UPS.

4.14.7 Chemical Feed Systems Monitoring and Process Control

Chemical feed controllers will communicate with the main control system via the Ethernet fiber optic network. All control parameters and data will be resident in the local controller so stand-alone operation of the chemical feed process can occur when required. New chemical feed control panels will contain a ControlLogix PLC with redundant processors, OIT, panel door switch, and UPS.

Further details of new and modified controls of the chemicals used in the expansion work, as listed in Section 4.11, will be developed along with the overall design as it approaches 30 percent design.

4.15 Heating, Ventilation, and Air Conditioning (HVAC) Work

This subsection addresses the design criteria relating to the heating, ventilation, and air conditioning work.

4.15.1 Codes and Standards

All HVAC Systems will be designed in accordance with the following:

- Florida Mechanical Code, Eighth Edition 2023
- Florida Building Code, Eighth Edition 2023
- Florida Energy Conservation, Eighth Edition 2023
- Florida Fire Prevention Code, Eighth Edition 2023
- Applicable State of Florida Regulations
- Florida Accessibility Code for Building Construction
- The Americans with Disabilities Act Accessibilities Guidelines (ADAAG)
- Occupational Safety and Health Administration (OSHA)
- American Society of Heating, Refrigeration and Air Conditioning (ASHRAE) Handbooks
- Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Duct Manuals
- National Fire Protection Association (NFPA) 90A Standard for the Installation of Air-Conditioning and Ventilating Systems
- All other applicable NFPA Standards
- Air Moving and Conditioning Association (AMCA)
- Air Conditioning and Refrigeration Institute (ARI)
- Ten State Association Standards for Water Works

The Florida Building Codes with local amendments, NFPA Standards, and the Florida Energy Code are the applicable codes of the local jurisdiction. The 10 State Standards is a widely accepted industry design standard, which CDM follows as a matter of policy. The design shall conform to the latest revision of all applicable codes in effect at the time of permit review.

Table 4.11 HVAC Design Criteria – Ambient Conditions

Description	Value	Unit	Comment
Climate Station	722021	-	Tampa Executive
Latitude	28.014 N	Degrees	-
Longitude	82.345 W	Degrees	-
Elevation	22	Feet	-
Maximum Ambient Dry Bulb/Mean Coincident Wet Bulb Temperature	95.4/77.6	Degrees F	ASHRAE 0.4% Dry Bulb/Mean Coincident Wet Bulb
Minimum Ambient Design Temperature	34.3	Degrees F	ASHRAE 99.6% Dry Bulb
Maximum Ambient Design Temperature	79.3	Degrees F	ASHRAE 0.4% Dehumidification Dew Point
Cooling Degree Hours	14444	Hours	CDH80
Heating Degree Days	33	Days	HDD50

Note: Based on 2021 ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc.) Fundamentals, Climate Design Information for Tampa Executive Airport

4.15.2 Design Criteria

Table 4.12 HVAC Design Criteria – Indoor Conditions

	Summer		Winter		Pressurization	Notes
Area	**Temp (°F)**	**Minimum Outside Air**	**Temp (°F)**	**Minimum Outside Air**		
Existing Operations Building						
Electrical Room	85	N/A	Ambient	N/A	Neutral	3
Blower Room	Max 10°F above ambient	6 ACH	Ambient	N/A	Neutral	1
New Ozone Building						
Electrical Room	85	N/A	Ambient	N/A	Neutral	3
Ozone Generator Room	80	6 ACH	Ambient	6 ACH	Negative	2
New Chemical Storage Building						
Electrical Room	85	N/A	Ambient	N/A	Neutral	3
Polymer Room	78	N/A	Ambient	N/A	Neutral	3
Lime Feed Area	Max 10°F above ambient	1 CFM/sq.ft.	Ambient	1 CFM/sq.ft.	Negative	2
Existing Dewatering Building						
Electrical Room	85	N/A	Ambient	N/A	Neutral	3
Storage Area	Max 10°F above ambient	6 ACH	Ambient	N/A	Neutral	1

Notes:
The space will be ventilated in the summer.
The space will be ventilated continuously.
The space will be cooled year-round as needed.
The space will be cooled in the summer.

4.15.2.1 Electrical Rooms

Electrical Rooms will be cooled to maintain operation of the electrical equipment and reduce the heat and humidity effects on the electrical equipment. The cooling design condition shall be a maximum temperature of 85°F. No heating systems will be provided. For Electrical Rooms containing equipment essential to plant operation, such as VFD Rooms, redundant air conditioning systems will be provided. Temperature/trouble alarms will be provided to alert plant operators if temperatures rise outside of required operating ranges.

4.15.2.2 Non-Hazardous Process Areas

Non-Hazardous process areas (Existing Operations Building Blower Room and Dewatering Building Storage Area) will be ventilated with outside air at a minimum rate of 6 air changes per hour (intermittent).

Additional ventilation will be provided, if required, to maintain a maximum temperature rise of 10˚F above ambient conditions within the space caused by any heat generating equipment. The non-hazardous process areas will not be heated unless temperature sensitive materials or equipment are present within the area. No humidity control is to be provided for the blower room and storage area.

4.15.2.3 Hazardous Process Areas

Hazardous process areas (Ozone Generator Room) will be ventilated continuously with outside air at a minimum rate of 6 air changes per hour to prevent the buildup of toxic gases in accordance with Florida Mechanical Code Section 502.9.9. Additional emergency exhaust will be provided at 24 air changes per hour. Emergency exhaust will be activated by an ozone leak sensor or wall switch. The cooling design condition shall be a maximum temperature of 80°F. No heating systems will be provided. The Ozone Generator Room will be provided with a continuous gas detection system that will shut off the ozone generator and sound a local alarm when concentrations reach above the permissible exposure limit. Manual start/stop control will be provided at each entry door. No humidity control is to be provided.

4.15.2.4 Chemical Areas

Chemical Areas (Lime Feed Area) shall be ventilated continuously at 1 CFM per square foot as required by the Florida Mechanical Code for chemical storage areas with storage quantities exceeding the maximum allowable quantities. Ductwork will be provided as necessary to capture vapors/fumes that are both heavier and lighter than air per the requirements of the Florida Mechanical Code. Additional emergency/summer ventilation will be provided at a minimum of 12 air changes per hour. Manual stop/start control will be provided at each entry door, and line voltage thermostat control will be provided within the space. Systems will include break glass type ventilation system shut down devices at each entry door as required by the Florida Mechanical Code.

The Polymer Room will be cooled to protect the polymer from the effects of high heat and humidity. The cooling design conditions shall be a maximum temperature of 78°F. No heating systems will be provided.

4.15.3 System Equipment

- Exhaust fans will be aluminum construction (when possible) with corrosion resistant coatings suitable for the intended application.
- Air conditioning systems will be direct expansion packaged or split system air conditioning units with air cooled condensers. Areas provided with heating will be provided with auxiliary electric heating coils. Equipment will be provided with corrosion resistant coatings suitable for the intended application.
- Supply, return, and exhaust ductwork in non-hazardous areas will be constructed of galvanized steel. Ductwork in hazardous process areas will be constructed of aluminum, stainless steel, or fiberglass reinforced plastic (FRP). Ductwork will meet the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards. Ductwork will be provided with externally mounted fiberglass insulation as required.
- Hangers and supports will be galvanized steel, stainless steel, or FRP. Support spacing and size of hangers will be as called for in the SMACNA standards.
- Air distribution devices will be aluminum construction with off white enamel or anodized mill finish.

- Refrigerant piping shall be Type K copper with closed cell foam type insulation.
- Condensate piping shall be Type K copper with closed cell foam type insulation for above grade applications, and Type K copper or PVC for below grade applications.
- All HVAC system equipment shall be high quality industrial equipment with corrosion resistant coatings suitable for the intended application.
- Control systems will be standard electric/electronic self-contained modular control systems.

4.16 Plumbing Work

This subsection provides the basis of design criteria for the plumbing work.

4.16.1 Codes and Standards

All Plumbing systems will be designed in accordance with the following:

- Florida Plumbing Code, Eighth Edition 2023
- Florida Building Code, Eighth Edition 2023
- Florida Energy Conservation, Eighth Edition 2023
- Florida Fire Prevention Code, Eighth Edition 2023
- National Fire Protection Association (NFPA)
- Florida Accessibility Code for Building Construction
- Applicable State of Florida Regulations
- The Americans with Disabilities Act Accessibilities Guidelines (ADAAG)
- Occupational Safety and Health Administration (OSHA)
- Ten State Association Standard for Water Works

The Florida Building Codes with local amendments, NFPA Standards, and the Florida Energy Code are the applicable codes of the local jurisdiction. The 10 State Standards is a widely accepted industry design standard, which CDM follows as a matter of policy. The design shall conform to the latest revision of all applicable codes in effect at the time of permit review.

4.16.2 Design Criteria

The plumbing design will include the following items where applicable: sanitary drainage, waste, and vent (DWV) systems; acid resistant DWV systems with an acid neutralization tank; potable domestic cold and hot water systems serving the facility's plumbing fixtures; non-potable protected water systems for hose bibbs and wash down stations; process water systems. An emergency shower/eyewash station will be provided in the hazardous areas. Potable water service to the emergency shower/eyewash station will be protected with a reduced pressure backflow preventer to prevent possible contamination. There will be no plumbing systems routed in or above electrical rooms.

4.16.3 System Equipment

- Sanitary drain, waste, and vent piping and storm water piping shall be hub and spigot cast iron soil pipe with resilient gasketed joints. To lower construction costs contractor will be allowed the option of providing underground PVC Schedule 40 pipe however, above ground piping will be cast iron.

- Corrosive area drainage piping will be polypropylene pipe with thermal fusion butt welded polypropylene joints and fittings.
- Potable, non-potable, and plant water piping shall be Type K copper pipe with cast copper or brass fittings.
- Fittings shall be constructed with flanged, threaded, and lead-free solder joints.
- Hangers, supports, and anchors shall be galvanized steel, stainless steel, or FRP.
- Hose stations will be 50-ft industrial hose with stainless steel hangers and chromed plated brass hose bib fixtures.
- Emergency fixtures shall be commercial grade stainless steel with hold open brass control valves and stainless-steel dust covers. Emergency fixtures in corrosive process areas will be PVC. Emergency fixtures will be provided with flow sensors and alarms tied into SCADA.

4.17 Fire Protection

This subsection addresses the design criteria relating to the fire protection work for the new RSTWP buildings.

4.17.1 Codes and Standards

As the project will be permitted after December 31, 2023, the Eighth Edition of the Florida Building Codes mentioned below apply.

- Florida Fire Prevention Code, Seventh Edition 2020 (based on 2018 Edition of NFPA 1)
- Florida Building Code, Seventh Edition 2020 (based on 2018 Edition of the International Building Code)
- Applicable State of Florida Regulations
- NFPA 13 Standard for the Installation of Sprinkler Systems, 2019 Edition
- NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection, 2019 Edition
- NFPA 24 Standard for Installation of Private Fire Service Mains and Their Appurtenances, 2019 Edition
- NFPA 70 National Electrical Code, 2020 Edition
- NFPA 72 National Fire Alarm and Signaling Code, 2019 Edition
- NFPA 291 Recommended Practice for Water Flow Testing and Marking Hydrants, 2022 Edition
- Applicable Insurance Underwriters Standards
- The Americans with Disabilities Act Accessibilities Guidelines (ADAAG)
- Occupational Safety and Health Administration (OSHA)

The Florida Building Codes and the NFPA codes are the applicable codes of the local jurisdiction. Insurance underwriters' standards are particular to the Client's insurance and/or risk management department. The design shall conform to the latest revision of all applicable codes in effect at the time of permit review.

4.17.2 Design Criteria

Fire protection systems will be provided for the existing Dry Chemical and the Ozone Generator Buildings. All buildings which require sprinkler system protection will be provided with an ordinary hazard wet pipe sprinkler systems in accordance with NFPA 13 standards. The electrical rooms within the buildings will not

be sprinklered as permitted by NFPA 13 standards. Sprinkler heads will be glass bulb type corrosion resistant exposed pendent, upright, and sidewall type as required. Piping shall be exposed.

Performance-type plans and specifications shall be prepared by CDM and include all pertinent information required to allow a fire protection system contractor to prepare detailed installation drawings. Specifications shall cover all major pieces of equipment and systems to be installed. The fire protection contractor shall submit the stamped and signed plans and calculations to the engineer and Fire Department for their review.

The existing fire sprinkler systems shall be maintained and modified to accommodate any proposed building layout modifications in current areas served. The current fire sprinkler system protects both the Dry Chemical Building and Ozone Buildings. Each of these have wet-type systems with a noted density of 0.20 gpm/ft^2 over the most remote 1,500 ft^2 with an outside hose allowance of 250 gpm.

Refer to other sections of the report for additional fire protection requirements (fire hydrants, fire extinguishers, and fire alarm systems).

4.17.3 System Equipment

- All fire protection system aboveground piping and fittings shall be Schedule 40 steel with welded joints.
- All piping hangers and supports shall be stainless steel.
- All below-grade piping shall be ductile iron pipe with restrained joints such as “Lok-Ring” by American Ductile Iron Pipe or “Megalug” by EBBA Iron.
- Sprinkler heads in finished area shall be brass construction glass bulb type, recessed pendent sprinklers.
- Sprinkler heads in process area shall be stainless steel or brass construction with corrosion resistant coatings, glass bulb type, upright, pendent or sidewall sprinklers.
- Exposed piping and hangers shall be painted.
- All other system components and controls will conform to the requirements of NFPA 13.
- A fire department connection will be provided for all systems, located within 100 ft. of a fire hydrant; thread type and final location to be coordinated with the authority having jurisdiction (AHJ).
- A new fire hydrant flow test must be conducted to be less than one year old at time of permit submission.

Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 7C – PERMITS & APPROVALS

7.1. RESPONSIBILITIES

The Company shall be responsible for acquisition of all permits required for the completion of design and construction. This includes, but is not limited to, acquisition of all permits contained in the Project Permitting and Approvals Plan, which is include in the Design Builder's scope of work under the agreement entitled "SURFACE WATER TREATMENT FACILITY DESIGN, CONSTRUCTION AND OPERATION AGREEMENT AMENDMENT NO. 2023-15."

With regard to the Project Permitting and Approvals Plan, the agreement states: The Plan will identify permits/approvals that must be obtained during Phase 1 Design Phase Services, those permits that may extend beyond the completion of the Phase 1 Design Phase services and those that will be obtained during Phase 2 Construction Phase services.

The Company will submit the updated Project Permitting and Approvals Plan within 30 days of the earlier of either Limited Notice to Proceed or Notice to Proceed for Phase 2 Construction Phase Services.

Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 9B – ACCEPTANCE TESTING

9.1 ACCEPTANCE TESTS

The Acceptance Test shall demonstrate the ability of the new treatment process components, in combination with existing treatment process components, to meet the applicable criteria in Schedule 6H. Specific combinations of existing and proposed existing treatment process components to be tested shall include:

1. The new high-rate flocculation/sedimentation – ozonation treatment process train ("Train 5") shall be operated in series with existing Filter Nos. 1 – 4 (existing Train 1 out of service and stop log in the existing filter inlet channel between Train 1 and Train 2 connections in place) for five consecutive 24 hour days. Water quality sampling and analyses shall be performed on samples of Filter Nos. 1 – 4 filtered water effluent to demonstrate compliance with applicable water quality parameters from Schedule 8C. Ozone residual analyzer data from new Ozone Contactor No. 5 shall also be recorded. During this test, Train 5 shall be operated at an influent flow rate of no more than the maximum unit process designed treatment capacity. Influent flows will be reduced during periods where any of Filter Nos. 1 – 4 are in backwash, during filter-to-waste mode and when the maximum filter capacity of Filters 1 – 4 is exceeded.

2. A second five consecutive 24 hour day acceptance test of the new high-rate flocculation/sedimentation – ozonation treatment process train shall be performed with Train 5 operated at the maximum unit process designed treatment capacity. The stop logs will be removed permitting flow into the filter inlet channel.

3. A third two consecutive 24 hour day acceptance test of the new high-rate flocculation/sedimentation – ozonation treatment process train shall be performed with Train 5 operated at the minimum influent flow rate of 20 MGD to demonstrate that all equipment has the necessary range to be turned down sufficiently to operate at the minimum flow rate.

4. The new Filters 16 - 18 will be performance tested on an individual basis. Any combination of existing high-rate flocculation/sedimentation treatment process trains, including Train 5 shall be operated with new Filters 16 -18 and with any combination of existing Filter Nos. 1 - 15 for five consecutive 24 hour days. Water quality sampling and analyses shall be performed on samples from each Filter Nos. 16 - 18 filtered water effluent to demonstrate compliance with applicable water quality parameters from Schedule 8C. Each filter will demonstrate water quality compliance independently. During this test, except for periods when filters are in backwash or filter-to-waste modes, Filter Nos. 16 - 18 shall each be operated at a filtration rate of 8.34 MGD each for five consecutive days to demonstrate required

hydraulic capacity of each filter independently.

5. Phase 2 solids handling improvements (Solids Building 2). Each of the three new belt presses will be tested and will demonstrate independently the specified design solids throughput at the specified design percent solids material concentration for five consecutive days at a minimum of 8 hours per day so long as there is a sufficient amount of solids available for processing. They will otherwise be tested at, or near to as possible, the maximum rate based on solids available for processing. The belt presses may be tested independently or in combination with other presses. The new conveyor system will be tested for three consecutive days at a minimum of 8 hours per day at the maximum specified design capacity of conveyor system so long as there is a sufficient amount of solids available for processing. It will otherwise be tested at, or near to as possible, the maximum specified capacity based on solids available for processing.

6. Phase 2 solids handling improvements (Solids Building 1). Each of the four new belt presses will be tested and will demonstrate independently the specified design solids throughput at the specified design percent solids material concentration for five consecutive days at a minimum of 8 hours per day so long as there is a sufficient amount of solids available for processing. They will otherwise be tested at, or near to as possible, the maximum rate based on solids available for processing. The belt presses may be tested independently or in combination with other presses. The new conveyor system will be tested for three consecutive days at a minimum of 8 hours per day at the maximum specified design capacity of conveyor system so long as there is a sufficient amount of solids available for processing. It will otherwise be tested at, or near to as possible, the maximum specified capacity based on solids available for processing. The modified truck loading conveyor will be tested and will demonstrate the maximum specified design solids throughput for five consecutive days at a minimum of 8 hours per day so long as there is a sufficient amount of solids available for processing. It will otherwise be tested at, or near to as possible, the maximum specified design rate based on solids available for processing.

Acceptance Testing of a given system or treatment process will not commence until successful startup and commissioning have been achieved, equipment is placed into service and ancillary systems that enable operation of the equipment are prepared for operation. Startup and commissioning activities will be addressed within the Acceptance Test Plan, which is further discussed below.

Treated Water from the new process units added as part of the Expanded Facility may not be delivered to the Clearwell until full clearance has been received from the FDEP to begin operation of the Expanded Facility and Tampa Bay Water is satisfied that the applicable Water Treatment Performance Standards have been met. Following issuance of the Letter of Clearance by FDEP, the Company will be allowed to discharge the Treated Water produced by the Expanded Facility to the Clearwell.

During the Acceptance Tests of Train 5 and Filter Nos. 16 - 18, the Expanded Facility will be delivering Treated Water to Tampa Bay Water's treated water storage tanks (located at the High Service Pump Station) and water quality testing shall continue to be performed by the Company to demonstrate that the Expanded Facility is producing Treated Water meeting the Water Treatment Performance Standards in Schedule 8C, as well as any additional testing required by the FDEP or pursuant to any Legal Entitlements. Should monitoring and testing indicate that the performance of the Expanded Facility is unsatisfactory at any time during the Acceptance Testing, then immediate action shall be taken by the Company to shut down the new high-rate flocculation/sedimentation process train or new Filter Nos. 16 - 18, as appropriate.

At least 120 days prior to Substantial Completion the Design Builder shall submit to the Company for its review a detailed Acceptance Test Plan defining the test program as related to each specified objective. The Company shall submit the Acceptance Test Plan to Tampa Bay Water for review. If edits are necessary, they will be implemented by the Design Builder within 21 days of receipt of comments. The Acceptance Test Plan shall define the procedures to be used, the specific measurements to be made, the proposed usage of permanent and temporary instrumentation, the organization of the test team, the testing schedule (including the expected date, time and duration of each test), and the operating and maintenance schedule during testing. The Acceptance Test Plan shall include specific, detailed sampling protocols to be utilized in conducting the Acceptance Test. Preliminary tests may be conducted at the Design Builder's expense; however, the results of such tests shall not be made part of the Test Report. The Acceptance Test shall not be conducted until the Acceptance Test Plan is approved, and authorization is received from Tampa Bay Water. The Acceptance Test Plan shall address the Design Builder's approach and details for meeting the requirements herein.

All labor, materials, equipment, and services required to perform the Acceptance Test shall be supplied by the Design Builder and the Company shall operate the facility, provided that Tampa Bay Water shall supply all required Raw Water in sufficient quantities for all required tests. If the Company is not the operating entity at the facility during Acceptance Testing, operation will be performed by the operating entity at the time. As long as the Expanded Facility is producing Treated Water meeting the Water Treatment Performance Standards in Schedule 8C, Tampa Bay Water will be responsible for chemical and electricity costs and will take full ownership and use of the Treated Water. Overall facility chemical and electricity use guarantees held by the Company shall remain in effect during Acceptance Testing.

Monitoring of water quality parameters shall be performed by the Company in accordance with Schedule 8C except for parameters with a monthly monitoring frequency unless the Company is no longer the operating entity for the facility. If the Company is not the operating entity at the facility during Acceptance Testing, such monitoring will be performed by the operating entity at the time. These parameters will be monitored weekly during the Acceptance Test. For the tests with duration of less than one week, all parameters shall be tested for at least once during the test.

All of the above water quality samples shall be analyzed in-house (at the Facility Laboratory) by the entity responsible for facility operation or by an outside laboratory at Company's expense that is a full service lab certified in drinking water by the Florida Department of Environmental Protection (FDEP) in accordance with Schedule 8C. All testing shall be according to analytical methods approved by the United States Environmental Protection Agency or the FDEP.

The Design Builder shall submit calculations for meeting total log inactivation requirements for the Train 5 Ozone Contactor using log removal credits and CT calculations, for each day at the period of maximum flow. Subsequently, the Company shall provide this information to the Tampa Bay Water.

The Design Builder shall submit to the Company three (3) hard copies and one electronic copy of the written report within 30 days following the conclusion of the Acceptance Test and the Company shall provide two (2) hard copies and an electronic copy to Tampa Bay Water.

The Acceptance Test Plan, as approved by Tampa Bay Water, shall specify the contents of such Acceptance Test report, including, but not limited to:

1. A certification that testing was conducted in accordance with the approved Acceptance Test Plan;

2. A certification of the results of the testing, including a determination of the extent to which the Expanded Facility complies with the applicable Performance Guarantees(s);

3. All data measured and recorded during the test(s);

4. All calculations used in determining test results; and

5. Any other data reasonably requested by Tampa Bay Water to be included in such reports.

9.2 ACCEPTANCE STANDARDS

The Acceptance Tests shall demonstrate the Expanded Facility's compliance with the following on a uniform and continuous basis (the following are the "Acceptance Standards"):

1. Analytical results for each parameter within the Water Treatment Performance Standards.

2. Operation of the Expanded Facility at the flow rates required herein.

3. Successful continuous delivery of Treated Water in compliance with Schedule 8C Water Treatment Performance Standards.

4. A verification of hydraulic and throughput (e.g. solids lb/hr, chemical pump gal/hr etc.) capacity of

critical components of the Expanded Facility.

9.3 RETESTING

Provisions for retesting are set forth in Section 5.8.2 of the Service Agreement.

SCHEDULE 10B – TAMPA BAY WATER REVIEW

10.1 MONTHLY PROJECT PROGRESS REPORT

Over the term of the Service Agreement, the Company shall furnish Tampa Bay Water a monthly project progress report in accordance with the Service Agreement Section 4.11.2.2 that summarizes all aspects of the completed month's work progress. From the Agreement Date through the Date of Final Completion, the Company shall conduct a monthly meeting and briefing of Tampa Bay Water staff and representatives.

10.1.1 REVIEWS

Pursuant to Sections 4.5.1 and 4.10.2.4 of the Service Agreement, Tampa Bay Water, including its authorized representatives, will provide timely review and comment on all submittals in order not to delay the progress of the work. Tampa Bay Water review shall not relieve the Company of any of its performance obligations of the Service Agreement.

The Design Builder shall submit to the Company, who will in turn submit to Tampa Bay Water, a list of submittals subject to Tampa Bay Water's review within 90 days of receiving the Limited Notice to Proceed. Upon receipt, Tampa Bay Water will review this list and identify which specific submittals they prefer to review. This process aims to clearly define the scope of submittals that Tampa Bay Water will review. However, Tampa Bay Water retains the right to review any submittal, including those not initially selected from the provided list.

10.2. DESIGN PHASE

10.2.1. DESIGN REVIEW INTENT

In accordance with the terms and conditions of Amendment #2025-18 of the Service Agreement, Tampa Bay Water will review the Facility Expansion Work design for consistency with the intent of Design Requirements and to provide input on selected issues such as selection of finishes, architectural concepts, and landscaping that may not specifically be addressed in the Design Requirements. Tampa Bay Water's input to the design process shall be solicited by the Company on a regular basis, including during design progress meetings and at the key stages in the design preparation.

10.2.2. [Intentionally left blank]

10.2.3. DESIGN CHANGES REQUESTED BY TAMPA BAY WATER

The procedures to be followed for incorporating design changes requested by Tampa Bay Water are specified in Section 4.5 of the Service Agreement.

10.2.4. DESIGN SUBMITTAL PROTOCOL

No later than forty-five (45) days following the execution of Amendment 2025-18, the Design Builder shall submit to the Company, who will in turn submit to Tampa Bay Water a Design Submittal Protocol. The Protocol shall identify the key submittal packages to be prepared by the Design Builder and the expected submittal dates. The Design Submittal Protocol will be based on the project schedule to

facilitate permitting, procurement and construction to meet schedule milestones. The submittals listed in the Design Submittal Protocol will be inclusive of all submittals required by the ENGINEER for review and will take precedence over submittals requested in each individual specification section.

In addition to identified key submittal packages, the Design Builder will provide the following:

- Project Management Plan
- Sealed and signed Issued for Construction incorporating final permitting agency comments and true-up revisions of approved changes modifications from vendors and subcontractors.

10.2.5. OPERATIONS AND MAINTENANCE (O&M) PLAN

[Intentionally left blank as this subsection applies to extension of the Operations and Maintenance Agreement term, which is not part of the Facility Expansion Work.]

10.2.6. REVISIONS TO MAJOR EQUIPMENT RENEWAL AND REPLACEMENT PLAN

[Intentionally left blank as this subsection applies to extension of the Operations and Maintenance Agreement term, which is not part of the Facility Expansion Work.]

10.2.7. DESIGN PROGRESS MEETINGS

Tampa Bay Water and its Authorized Representatives shall have the right to attend and participate in the Company's design progress meetings. These meetings will be conducted at a mutually convenient site in the Tampa Bay area.

The Company shall provide Tampa Bay Water copies of documentation produced as a result of the meetings.

10.3 CONSTRUCTION PHASE

10.3.1. CONSTRUCTION REVIEW INTENT

In accordance with Sections 4.10 and 4.12.6 of the Service Agreement, Tampa Bay Water shall review construction activities and participate in construction progress meetings as needed to verify compliance with the Design Requirements. In addition, Tampa Bay Water will review and verify the progress of construction in considering approvals of payment requests.

10.3.2. TAMPA BAY WATER OVERSIGHT DURING CONSTRUCTION

Tampa Bay Water and its Authorized Representatives shall have complete access to the Facility Site at all times. It is expected that Tampa Bay Water will have full-time representation at the Facility Site throughout construction, start-up, and acceptance testing. Tampa Bay Water and its Authorized Representatives shall have the right to attend the Company's regularly scheduled construction progress meetings.

Pursuant to Section 4.10 and 4.12.6 of the Service Agreement, the Company shall solicit Tampa Bay Water input to the process on a regular basis. The Company shall provide Tampa Bay Water copies of documentation produced as a result of any construction progress meeting.

10.3.3. O&M MANUAL

No later than one hundred eighty (180) days prior to the expected Scheduled Acceptance Date, Design Builder shall submit to the Company, who will in turn submit to Tampa Bay Water, a draft update to the

Company's Operations and Maintenance Manual for review and comment by Tampa Bay Water. The O&M Manual shall be a comprehensive manual organized into separate sections addressing each of the unit processes involved, the overall plant operation and control, and auxiliary plant equipment and systems. The O&M Manual shall include the following information:

- Equipment and System Manufacturers/Suppliers' O&M Manuals (as appendices)
- Forms and checklists to be used for monitoring equipment and process system operation and preventive maintenance
- Updates to the Facility O&M Manual

The following O&M Manual Sections will be updated by the Company as part of a future O&M services extension Amendment (as applicable):

- Expanded Facility staffing and organizational plan
- Plant upset and emergency response plan
- Major Equipment Renewal and Replacement Plan
- GAC Replacement Plan
- Residue Beneficial Reuse Plan
- Emergency Notification Plan as required by FDEP
- Monitoring and reporting requirements

Each separate unit process, auxiliary plant systems, and grounds/building section of the O&M Manual shall include a detailed written explanation of the following:

- The process or system including its key components
- The system function including its purpose and normal operating parameters
- Design criteria for that system
- Description of the manufacturer's recommended spare parts inventory and the Company's proposed spare parts inventory level.
- Equipment summary including nameplate data, supplier/local representative, and manufacturer
- Description of instrumentation and control system, including an alarm summary
- Description of normal system operations including startup and shutdown, adjustment of variable functions and settings, interface with other plant systems, routine monitoring checklists and record keeping forms
- Procedures for optimizing coagulation and determining appropriate chemical dosage rates.
- Emergency system operations including procedures to be followed in the event of probable plant upset conditions such as temporary power outages, chemical spills, localized or area-wide flooding, etc.
- Maintenance, including predictive and preventative maintenance for: process functions such as cleaning and hose down, flushing and inspection; mechanical functions such as changing lubricating fluids and filters, checking rotating equipment balance, and changing valve seals and packing; electrical functions such as checking tightness of wiring terminal connections, exercising breakers, and recalibrating meters; instrument and control functions such as sensor calibration, and structural maintenance such as crack repairs and restoration of surface corrosion protection systems
- Trouble shooting system malfunctions
- Safety and emergency procedures

The Company and Tampa Bay Water will review the draft O&M Manual and provide comments and required corrections (all reviewers' comments and required corrections to be combined into a single file) within thirty (30) days of the initial submittal. The Design Builder shall submit to the Company, who will in turn submit to Tampa Bay Water, five (5) copies of the final O&M Manual (two for the Company and three for Tampa Bay Water) and an electronic O&M Manual incorporating the Company's and Tampa Bay Water's requested changes and comments sixty (60) days following the receipt of comments. The updated O&M Manual shall include hypertext links from the Table of Contents to the text and within the O&M Manual itself.

The Operations and Maintenance Manual shall include operating protocols which include, without limitation: (i) procedures for the monitoring of Raw Water by both Tampa Bay Water and the Company; (ii) identification of the reasonably expected removal efficiencies of the Expanded Facility as designed, when operated in accordance with prudent industry practice; (iii) identification of Raw Water conditions indicating the approach or threat of Unacceptable Raw Water Events ("Warning Concentrations"); (iv) procedures for notification by Tampa Bay Water to the Company, and by the Company to Tampa Bay Water, of observation of Raw Water exceeding the Warning Concentrations; and (v) identification and implementation of appropriate responses to Warning Concentrations and Unacceptable Raw Water Events (including, but not limited to, adjustment to the blend of Raw Water sources, suspension of deliveries of water from a particular Raw Water source, adjustment of Facility throughout, implementation of special treatment procedures, suspension of Expanded Facility operations, or waiver by Tampa Bay Water of the Water Treatment Performance Standards).

10.3.4. OPERATOR TRAINING PLAN

No later than one hundred eighty (180) days prior to the Scheduled Acceptance Date, the Design Builder shall submit a draft Operator Training Plan ("Training Plan") to the Company for review and comment by the Company and Tampa Bay Water. The Training Plan shall clearly define the classroom and hands-on training curriculum for each operator position and classification in the plant. Calendar dates and milestones shall be assigned to each portion of the training and a training schedule shall be submitted in the Training Plan. The date and duration of on-site training by each of the equipment manufacturer's technical representatives will be shown in the schedule.

The Company and Tampa Bay Water will review the draft Training Plan and provide comments and required corrections (all reviewers' comments and required corrections to be consolidated within a single file) within thirty (30) days of the initial submittal. The Design Builder shall submit a final version of the Training Plan incorporating the Company's and Tampa Bay Water's requested changes and comments thirty (30) days following the return of the draft version.

10.3.5. CONSTRUCTION RECORD DRAWINGS

Upon completion of all Facility Expansion Work, the Design Builder shall submit to the Company, who will in turn submit to Tampa Bay Water, a complete set of design drawings in PDF and AutoCad format, modified to clearly and accurately show all changes made during the construction. These drawings shall be designated in the revision block as "construction record" drawings and shall be checked by the Design Engineer(s) responsible for the original design verifying that the field changes shown are accurate and consistent with the design intent. Design Builder shall submit construction record drawings to the Company, who will in turn submit to Tampa Bay Water no later than sixty (60) days following completion of all Facility Expansion Work.

10.3.6. EQUIPMENT AND MATERIALS SUBMITTALS

Design Builder supplied equipment and materials are addressed in Section 10.2.4. The Design Builder's Engineer will review and approve equipment and materials supplied through the Owner Direct Purchase Program. Submittals for equipment and materials shown or specified in the design documents prepared by the Design Builder's Engineer shall be reviewed and approved by the Design Builder's Engineer and shall be provided to the Company and subsequently provided to Tampa Bay Water by the Company. Pursuant to Section 4.10 of the Service Agreement, Tampa Bay Water reserves the right to reject submittals containing unacceptable deviations from the Design Requirements, and to require that such deviations be corrected and resubmitted.

10.3.7. CONSTRUCTION PHOTOGRAPHS

The Design Builder, Company, and Tampa Bay Water will collaborate to create a Photography Plan within 60 days of receiving the Limited Notice to Proceed. This plan will outline:

- Content to be photographed
- Frequency of photography
- Responsibilities for taking photographs
- Methods for cataloging and filing images
- Procedures for distributing construction-related photographic documentation

The Photography Plan will serve as a guide for systematically documenting the construction process through visual means.

SCHEDULE 12C – INSURANCE

12.1 Insurance Coverage Required (General Terms Applicable to Construction Periods)

12.1.1 The Company shall procure and maintain from and including the date upon which the Company commences the Facility Expansion Work Construction Work until achievement of Facility Expansion Work Final Completion, insurance with the coverage and limits specified herein. To the extent that any of the coverage specified in the Agreement or this Schedule is more appropriately provided by a Contractor or Subcontractor performing work or services on behalf of the Company as part of the Facility Expansion Work, the Company may request that Tampa Bay Water accept coverage from such Contractor of Subcontractor in lieu of coverage from the Company. Acceptance of coverage from any Contractor or Subcontractor shall be at Tampa Bay Water's sole discretion and shall not waive Tampa Bay Water's right to exercise its rights against the Company under the Agreement if the coverage specified in this Schedule has not been provided; provided, however, that Tampa Bay Water hereby approves the provision of coverages by the Company's design-build contractor for the Project. The Company shall deliver certificates of insurance to Tampa Bay Water of all such properly executed insurance coverage evidencing compliance with the insurance requirements of this Schedule and the Agreement to Tampa Bay Water prior to, and as a condition for, Tampa Bay Water's issuance of the Notice to Proceed for the Facility Expansion Work. All insurance secured by the Company, or by any Contractor or Subcontractor with the approval of Tampa Bay Water, shall be in policies subject to Tampa Bay Water's approval as to compliance with the requirements set forth herein and in the Agreement.

12.1.2 The Company shall also procure and maintain Operating Period insurance with the coverage limits specified herein through the term of this Agreement.

12.1.3 (Not Used)

12.1.4 As to insurance the Company is required to provide, except as set forth in the following sentence, the Company shall be solely responsible for the amount of all deductibles, self-insured retention, claims which are not covered and claims which exceed available insurance as respects liability caused by work or operations performed by or on behalf of the Company. Tampa Bay Water shall be responsible for all deductibles and losses excess of any limits or sub-limits under the Builders Risk policy, including without limitations those deductibles and losses that are either caused by Tampa Bay Water or someone working on behalf of Tampa Bay Water, as well as any natural event loss, including, but not limited to, hurricane, windstorm, flood, wildfire, earthquake, land movement, tornado, etc.

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12.1.5 Tampa Bay Water shall be included as an Additional Insured on all policies of insurance required by this Schedule and the Agreement, other than Workers' Compensation and Professional Liability. The Commercial General Liability Additional Insured endorsement, equivalent to the most recent version of ISO form 2010 will state that the coverage provided to the Additional Insured is primary and non-contributing with any other insurance available to the Additional Insured as respects liability caused by work or operations performed by or on behalf of the Company.

12.1.6 All of the required insurance coverage shall be issued as required by Florida law and shall comply with the requirements contained herein. All insurance shall be with companies rated A- V11 or better by AM Best and eligible and authorized to do business in the State of Florida. The required policies of insurance shall be construed in accordance with the laws of the State of Florida.

12.1.7 All required insurance coverage of the Company and its Subcontractors shall be primary to any insurance or self-insurance program carried by Tampa Bay Water, as respects liability caused by work or operations performed by or on behalf of the Company and its subcontractors. Tampa Bay Water's insurance or self-insurance programs or coverage shall not be contributory with any insurance required of the Company or its Subcontractors and shall insure Tampa Bay Water only, unless the loss is caused by the work or operations by Tampa Bay Water.

12.1.8 The acceptance of delivery by Tampa Bay Water of any Certificate of Insurance evidencing the insurance coverage and limits required herein does not constitute approval or agreement by Tampa Bay Water that the insurance requirements of the Agreement have been met or that the insurance policies shown in the Certificates of Insurance are in compliance with this Schedule and the Agreement.

12.1.9 The Company shall require that all policies of insurance identified herein provide that the insurer give Tampa Bay Water thirty (30) days advance written notice of any cancellation, and the Company shall give Tampa Bay Water thirty (30) days' advance written notice of any Adverse Change.

12.1.10 The Company acknowledges that it is responsible for the payment of any claims or losses which fall within applicable deductibles or self-insured retention amounts, except certain claims under the Builders Risk policy. Tampa Bay Water shall be under no obligation to purchase any insurance relating to claims or losses arising from the Facility Expansion Work, unless due to work or operations of Tampa Bay Water. Any decision by Tampa Bay Water to purchase such insurance shall not be construed as a waiver of its rights under this Schedule and the Agreement. The Company shall comply with all requirements for insurance in this Schedule and the Agreement unless excused under the Agreement.

12.1.11The insurance coverage and limits required of the Company under this Schedule and the Agreement are designed to meet the requirements of Tampa Bay Water and are not designed as a recommended insurance program for the Company.

12.2 Construction Period Insurance

12.2.1 Unless otherwise provided herein, prior to commencement of the Facility Expansion Work Construction Work, the Company shall secure, or the Company may cause the subcontractor to secure, and maintain at all times during performance of the Facility Expansion Work the insurance specified in subparagraphs 12.2.2.1, 12.2.2.2, 12.2.2.3, 12.2.2.4, 12.2.2.5 and 12.2.2.6 below, with Tampa Bay Water and such other persons or interests Tampa Bay Water may designate in connection with performance of the Facility Expansion Work as Additional Insured parties and with limits specified below for each coverage.

12.2.2 **Insurance Requirements for the Company** - Unless otherwise provided herein, the Company shall provide the following insurance coverage for performance of the Facility Expansion Work:

12.2.2.1 **Workers' Compensation & Employer's Liability**
Coverage: Statutory limits required by Workers' Compensation Laws of the State of Florida, with Employers' Liability
Part One: Workers' Compensation: Statutory Limits
Part Two: Employers' Liability
Bodily Injury by Accident: $1,000,000 each accident
Bodily Injury by Disease; $1,000,000 each employee
Bodily Injury by Disease: $1,000,000 policy limit

12.2.2.2 **Automobile Liability** (for operations at and away from the project Site)
Coverage: Bodily injury and property damage for all owned, hired and non-owned automobiles, trucks and trailers, including coverage for contractual liability. Coverage provided shall be:
Combined Single Limit: $1,000,000 each accident

12.2.2.3 **Commercial General Liability Coverage**
Coverage: Third party bodily injury, personal injury/advertising injury and property damage liability:
Limits of Liability:

General Aggregate	$5,000,000
Products/Completed Operations Aggregate	$5,000,000
Personal/Advertising Injury Aggregate	$5,000,000
Each Occurrence Limit	$5,000,000

12.2.2.4 **Pollution Liability Insurance**
Coverage: Clean-up costs, remediation, third-party bodily injury and property damage resulting from pollution conditions on or off the Site caused by negligence of the Company, its Contractors and Subcontractors. Shall be purchased by the Company and remain in force during the Term of the Agreement with a limit of:
$2,000,000 for each claim and $5,000,000 total all claims

Note: Tampa Bay Water shall be included as an Additional Insured under the Pollution Liability Policy. The Company shall not be liable for pollution conditions existing on the Project Site prior to the start date of construction.

12.2.2.5 **Excess/Umbrella Liability Insurance**:
Coverage: All Excess/Umbrella policies shall be at least as broad as the underlying primary policy.
a. Limits:

Combined Single Limit	$10,000,000 each occurrence
General Aggregate	$10,000,000

b. Subcontractor Policy Limits:

Combined Single Limit	$2,000,000 each occurrence
General Aggregate	$2,000,000

Note: The insurance required in this subparagraph shall also include Employer's Liability coverage in limits specified in subparagraph 12.2.2.1

12.2.2.6 **Builder's Risk Insurance:**
Coverage: (1) All new buildings/structures; (2) All expanded/remodeled existing buildings/structures; and (3) All materials, equipment, supplies intended for specific installation in the Facility Expansion Work while such materials, equipment and supplies are in transit to the project Site, while temporarily located away at a scheduled off-site location from the project Site, and while located at the project Site.
Policy Limits: Completed Value Replacement Cost
Policy Sub-Limits:

Earthquake	$25,000,000
Flood	$10,000,000
Wind	$25,000,000
Transit	$ 1,000,000
On or Off-Site Storage	$10,000,000

Notes: (a) If Builder's Risk Insurance is provided through a stand alone policy, Tampa Bay Water and the Company will mutually agree upon applicable sub-limits in lieu of the above stated sub-limits at Tampa Bay Water's expense.

(b) The Builder's Risk Insurance shall be placed with a company or companies lawfully authorized to do business in the State of Florida. The property insurance shall be on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided or agreed in writing, until Substantial Completion of the Facility Expansion Work. The Company acknowledges and agrees that it will maintain continuous coverage between the builder's risk and permanent property insurance coverage for the Expanded Facility, and if any gap in coverage occurs the Company shall be solely responsible and liable for any resulting uncovered claims or losses up to the agreed upon applicable sublimits. This insurance shall include interests of Tampa Bay Water, the Company and its Contractors and Subcontractors of all tiers.

(c) Property/Builders Risk insurance shall be on an all-risk policy form (subject to standard terms, conditions, limitations and exclusions) including but not limited to the perils of fire and extended coverage and physical loss or damage including, without duplication of other coverage, theft, vandalism, malicious mischief, sinkhole, collapse, flood and earthquake, false work, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements. The policy shall cover reasonable compensation for Architect's services and expenses required as a result of such insured loss. Boiler and machinery coverage shall also be purchased on a comprehensive basis. The Builder's Risk and Boiler and Machinery policy(ies) shall also include coverage for testing and for permission to occupy.

(d) The Property/Builder's Risk Insurance policy shall include a waiver of the carrier's rights of recovery under subrogation against Tampa Bay Water, the Company and its Contractors and Subcontractors whose interest is insured under such policy.

12.2.3 **Insurance Requirements for the Company's Contractors and Subcontractors** - In addition to the Construction Period Insurance required from the Company by paragraphs 12.2.1 and 12.2.2, above, the Company shall require its Contractors and Subcontractors to provide and maintain insurance coverage that protects Tampa Bay Water from liabilities arising from on or off-site operational exposure and operations performed in connection with the Facility Expansion Work with limits as specified in subparagraphs 12.2.3.1, 12.2.3.2, 12.2.3.3 and 12.2.3.4 below. The Company shall require its Contractors and Subcontractors to provide and maintain insurance of the type and in limits set forth in subparagraphs 12.2.3.1, 12.2.3.2 and 12.2.3.3 for work performed or services provided in connection with the Facility Expansion Work. Such insurance (except for workers' compensation/employer's liability, and professional liability if required) shall include the appropriate parties as Additional Insureds and shall be maintained by insurance companies rated A- VII or better by AM Best. This insurance may be provided in policy or policies, primary and excess, including umbrella. The limits of liability shall be as stated below, unless written approval is provided by Tampa Bay Water for variance from those limits.

12.2.3.1 **Automobile Liability** (for operations at and away from the project Site)
Coverage: Bodily injury and property damage for all owned, hired and non-owned automobiles, trucks and trailers, including coverage for contractual liability. Coverage provided shall be:
Combined Single Limit: $1,000,000 each accident

12.2.3.2 **Workers' Compensation and Employer's Liability**
Coverage: Statutory limits required by the State of Florida, with Employer's Liability

Part One:	Workers' Compensation	Statutory Limits
Part Two:	Employer's Liability	Required Annual Limits
Bodily injury by accident	$500,000 each accident	
Bodily injury by disease	$500,000 each employee	
Bodily injury by disease	$500,000 policy limit	

12.2.3.3 **Commercial General Liability**

Coverage: Third party bodily injury, personal injury/advertising injury, and property damage liability (including products liability for any product manufactured, assembled or otherwise worked upon away from the project Site).

Contractor Requirements:	Annual Limits of Liability
General Aggregate	$5,000,000
Products/Completed Operations Aggregate	$5,000,000
Each Occurrence Limit	$5,000,000
Subcontractor Minimum Requirements:	Annual Limit of Liability
General Aggregate	$2,000,000
Products/Completed Operations Aggregate	$1,000,000
Each Occurrence Limit	$1,000,000

12.2.3.4 **Pollution Liability Insurance**

Coverage: Clean-up costs, remediation, third-party bodily injury and property damage resulting from pollution conditions on or off the Site caused by the intentional or negligent acts of the Company, its Contractors or Subcontractors shall be purchased by the Company and remain in force during the Term of the Agreement with a limit of not less than the following Base Level and Enhanced Level Insurance.

Base Level

$2,000,000 for each claim and $5,000,000 total all claims

Enhanced Level

The Company agrees to include its Contractors and Subcontractors under the Company's Enhanced Level Pollution Liability Insurance coverage.

Note: Tampa Bay Water shall be included as an Additional Insured under the Pollution Liability Policy. The Company, its Contractors and Subcontractors shall not be liable for pollution conditions existing on the Project Site prior to the start of construction, unless such conditions are known to the Company, its Contractors or Subcontractors and have been subsequently exacerbated by the Company, its Contractors or Subcontractors.

12.2.3.5 **Contractor's Property Insurance**

All risks property insurance (subject to standard terms, conditions, limitations and exclusions) covering Contractor's and Subcontractor's personal property, tools and equipment, whether owned leased, borrowed or rented, shall be provided.

12.3 Construction Period Bonds

12.3.1 The Company shall provide Tampa Bay Water with surety bonds designed to support and guarantee the financial and construction obligations set forth in Amendment #2025-18, in the forms provided in Schedule 13B. The bonds shall be underwritten by a carrier with an A- rating VII or better from AM Best. The bonds shall list Tampa Bay Water as the obligee and will be maintained until achievement of Facility Expansion Work Final Completion. The bonds shall be in the total amount of the GMP (Facility Expansion Work).

12.4 Operating Period Insurance

12.4.1 The Company shall obtain and maintain Operating Period insurance as described in this paragraph 12.4 and shall deliver to Tampa Bay Water properly executed standard Certificates of Insurance, and insurance policies or binders setting forth the insurance coverage and limits required herein. The Certificates, policies and/or binders must be personally, manually signed by the authorized representative of the insurance company shown on the Certificate, policy and/or binder with proof that the person signing is an authorized representative thereof. In addition, certified, true and exact copies of all new insurance policies and endorsements required herein shall be provided to Tampa Bay Water on a timely basis when issued. The Company is not required to provide copies of renewal policies to Tampa Bay Water but will provide renewal Certificates of Insurance in accordance with Section 12.4.3 below.

12.4.2 [Reserved].

12.4.3 Renewal Certificates of Insurance shall be provided to Tampa Bay Water at least ten (10) business days following the expiration of current coverage so that there shall be no interruption in the insurance coverage required of the Company. The Company acknowledges and agrees that it is solely responsible for maintaining continuous insurance coverage in the amounts set forth herein without lapse during the Operating Period.

12.4.4 Unless a separate Project Aggregate Limit is required, should the Company have a blanket, comprehensive or all inclusive insurance program that the insurance coverage specified in this paragraph 12.4 can be included under and that is acceptable to Tampa Bay Water, then the Company shall reasonably cooperate in adding said coverage and amounts of insurance; provided that there shall be no dilution or reduction of any of the insurance amounts or requirements available to Tampa Bay Water under this paragraph 12.4 as a result of utilizing such blanket, comprehensive or all inclusive insurance program.

12.4.5 The Company agrees that Tampa Bay Water has the right, but not the duty, at its discretion to place the insurance coverage required by the Agreement for the Operating Period with its insurance companies if the coverage, amounts and premium costs are more advantageous than those proposed by the Company. However, if the exercise of this right by Tampa Bay Water subjects the Company to any minimum earned premium penalty, Tampa Bay Water shall be responsible for the payment of such penalty, unless otherwise agreed.

12.4.6 The amounts and types of insurance must conform to the following minimum requirements. Where minimum coverage limits are stated in terms of both "Base Level Insurance" or "Enhanced Level Insurance", the Company shall provide the Enhanced Level Insurance where such insurance coverage is available at commercially reasonable rates. Where the minimum coverage limits are stated in terms of Base Level Insurance only, the Company shall provide such Base Level insurance.

Workers' Compensation	Statutory Limits
Employer's Liability	$1,000,000 Level Limit

Commercial General Liability on the occurrence form shall be purchased and maintained in force by the Company for all its operations under the Agreement. Coverage shall include but not be limited to Bodily Injury, Personal & Advertising Injury and Property Damage, Premises and Operations, Products & Completed Operations, Contractual Liability for this Agreement, Independent Contractor Liability, Broad Form Property Damage Liability, and Products & Completed Operations Coverage and shall not exclude coverage for "X" (explosion), "C" (collapse), and "U" (underground) Property Damage Liability exposures. Limits of coverage shall not be less than:

Base Level Insurance
Bodily Injury, Personal Injury/Advertising Injury & Property Damage Liability, and Products/Completed Operations Liability
$1,000,000 Combined single limit each occurrence
$2,000,000 General Aggregate Enhanced Level Insurance
Bodily Injury, Personal Injury & Property Damage Liability, and Products/Completed Operations Liability

$1,000,000 Combined single limit each occurrence
$10,000,000 General Aggregate

Notes: (a) The General Aggregate Limits must be specifically applicable to the Facility and to each location of the Company under the Agreement. (b) The Completed Operations Liability Coverage shall be renewed and maintained by the Company for a period of not less than four (4) years following termination of the Agreement.

Excess/Umbrella Liability Insurance shall be purchased and maintainedon a follow-form basis above the Commercial General Liability coverage with limits (when combined with primary Commercial General Liability coverage) of not less than the following Base Level Insurance and Enhanced Level Insurance:
Base Level Insurance

$25,000,000 Each Occurrence
$25,000,000 Aggregate
Enhanced Level Insurance
$100,000,000 Each Occurrence
$100,000,000 General Aggregate

Pollution Liability Insurance (including coverage for clean-up costs, remediation, third party bodily injury and property damage resulting from pollution conditions on or off the Site caused by the intentional or negligent acts of the Company, its Contractors or Subcontractors) shall be purchased and maintained in force during the term of the Agreement by the Company, with a limit of not less than the following Base Level and Enhanced Level Insurance:
Base Level Insurance
$2,000,000 for each claim and $5,000,000 in the aggregate

Enhanced Level Insurance

$30,000,000 for each claim and total all claims

Note: Tampa Bay Water shall be included as an Additional Insured under the Pollution Liability Insurance Policy. The Company shall not be liable for pollution conditions existing on the Project Site prior to March 20, 2000, unless such conditions are known to the Company and have been subsequently exacerbated by the Company.

12.4.7 All coverage shall be on either an occurrence form or, if on a claims-made form, the Company shall either (i) maintain such insurance coverage for at least five years following the expiration or termination of the Agreement, or (ii) purchase project-specific tail period coverage for a period of five years.

12.4.8 Uninsured loss of or damage to the Expanded Facility for which the Company is responsible under the indemnification provisions of the Agreement shall be the full responsibility of the Company.

12.5 Operations Period Bond

12.5.1 The Company shall provide Tampa Bay Water with an operations performance bond designed to support and guarantee the financial and performance obligations set forth in the Agreement. This bond shall be underwritten by a carrier with an A- rating or better from a rating agency acceptable to Tampa Bay Water on a form and with wording set forth in Schedule 13A, and shall list Tampa Bay Water as an obligee. The bond shall be in the amount of $7,500,000 and shall be maintained for the entire Agreement Term.

12.6 Loss Control and Safety

12.6.1 The Company shall be responsible for initiating, maintaining and supervising loss control (e.g. loss prevention and loss reduction for all risks including property, liability and workers' compensation), safety, and anti-substance abuse programs and action plans in connection with the Facility Modification Work and operation of the Expanded Facility. The Company shall provide adequate protection to avoid injury to all persons involved in any way in the Facility Modification Work or operation of the Expanded Facility, as well as all other persons including without limitation Tampa Bay Water, its employees, representatives, licensees, guests and agents who may visit the project Site or be affected by the Facility Modification Work or operation of the Expanded Facility. These safety and loss prevention programs and action plans shall include, but are not limited to:

(1) Adherence to OSHA standards and guidelines regarding worker safety and safety to the public, and adherence to all applicable laws, ordinances, rules, regulations and orders of any public agency relating to the safety of persons;

(2) Posting of danger signs and personal notification to all affected persons of the existence of a hazard of any nature;

(3) Furnishing and maintaining necessary traffic control barricades and flagman services;

(4) Use, storage, removal or disposal of required explosives or other hazardous materials only under supervision of qualified personnel and after first obtaining permission of all applicable governmental authorities;

(5) Maintenance of adequate quantities of both hose and operable fire extinguishers at the project Site.

12.6.2 The Company shall set forth in writing its loss control, safety and anti-substance abuse programs and action plans in connection with the Facility Modification Work and operation of the Expanded Facility. These programs and action plans shall be submitted to Tampa Bay Water for review and comment, if any.

12.6.3 The Company further agrees to be bound and agrees to bind all Contractors and Subcontractors of any tier to each and all of these programs and action plans. Contractors and Subcontractors at any tier shall bear all costs they incur for compliance with these programs and action plans.

SCHEDULE 13B – FORM OF BONDS

PERFORMANCE BOND

Document A312™ – 2010

Conforms with The American Institute of Architects AIA Document 312

Performance Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

Mailing Address for Notices

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

Mailing Address for Notices

CONSTRUCTION CONTRACT
Date:

Amount: $

Description:
(Name and location)

BOND
Date:

(Not earlier than Construction Contract Date)

Amount: $

Modifications to this Bond: ☐ None ☐ See Section 16

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature: _____		Signature: _____	
Name and Title:		Name and Title:	

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

- **.1** the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;
- **.2** the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and
- **.3** the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

- **.1** After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or
- **.2** Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;
.2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and
.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature: _____		Signature: _____	
Name and Title:		Name and Title:	
Address		Address	

Document A312™ – 2010

Conforms with The American Institute of Architects AIA Document 312

Payment Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

Mailing Address for Notices

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

Mailing Address for Notices

CONSTRUCTION CONTRACT
Date:

Amount: $

Description:
(Name and location)

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $

Modifications to this Bond: ☐ None ☐ See Section 18

CONTRACTOR AS PRINCIPAL
Company: *(Corporate Seal)*

SURETY
Company: *(Corporate Seal)*

Signature: _____

Name and Title:

Signature: _____

Name and Title:

(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

- **.1** have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
- **.2** have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

- **.1** the name of the Claimant;
- **.2** the name of the person for whom the labor was done, or materials or equipment furnished;
- **.3** a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
- **.4** a brief description of the labor, materials or equipment furnished;
- **.5** the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
- **.6** the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
- **.7** the total amount of previous payments received by the Claimant; and
- **.8** the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

§ 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature: _____		Signature: _____	
Name and Title:		Name and Title:	
Address		Address	

DUAL OBLIGEE RIDER

This Rider is executed concurrently with and shall be attached to and form a part of Bond No. _____

(hereafter "Bond") issued by the _____,

as Surety, on behalf of _____

_____,

hereafter referred to as the Principal, in favor of _____

_____,

hereafter referred to as the Primary Obligee for (the "Contract")

WHEREAS, the Primary Obligee requests that Surety and Principal add _____

_____as an additio

WHEREAS, the Surety and Principal agree to the above referenced changes requested by the Primary Obligee which are set forth in this Rider which is executed concurrently with the execution of the Bond upon the conditions herein stated.

NOW, THEREFORE, the undersigned hereby agree as follows:

1. _____
is added to the Bond as an additional obligee ("Additional Obligee"),

2. The Surety shall not be liable under the Bond to the Primary Obligee, the Additional Obligee, or either of them unless the Primary Obligee, the Additional Obligee or either of them shall make payments to the Principal (or in the case the Surety arranges for completion of the Contract, to the Surety) in accordance with the terms of the Contract as to payments and shall perform all other obligations to be performed under the Contract at the time and in the manner therein set forth, Notwithstanding anything in the Contract to the contrary. the Surety shall have no obligations or liability to the Additional Obligee unless they fulfill all of the Primary Obligee's obligations under the Contract which shall include all of the Primary Obligee's payment obligations to the Principal

3. The aggregate liability of the Surety under this Bond to any, all or either of the Primary Obligee or the Additional Obligee, as their interests may appear, is limited to the penal sum of the Bond. Further, the Additional Obligee's rights hereunder are subject to the same defenses Principal and/or Surety have against the Primary Obligee. The Surety may. at its option, make any payments under said Bond by check issued jointly to the Primary Obligee and the Additional Obligee.

4. Except as modified herein, all other terms and conditions of the Bond shall remain in full force and effect.

SIGNED, SEALED AND DATED this _____day of _____, _____.

Primary Obligee	Surety
By:_____	By:_____ Title:__
Additional Obligee	Principal
By:_____	By:_____ Title:__

Form F4594-9.2014

SCHEDULE 15B – TRANSITION PLAN

15.1 OVERVIEW OF TRANSITION PLAN REQUIREMENTS

The Design-Builder will provide a Draft Transition Plan to the Company within 30 days after commencement of construction. Subsequently, the Company and Design-Builder will produce a Final Transition Plan that the Company will provide to Tampa Bay Water within 60 days after the commencement of construction. The Transition Plan will be based upon the general outline provided in Exhibit 15-1. The Company and Design-Builder shall update the Transition Plan throughout the course of construction if necessary and as agreed to by Tampa Bay Water.

The Transition Plan will address the following:

1) Existing plant operations during construction of the Expanded Facility
2) Final construction work inspection and check-out
3) Start-Up and preliminary testing of the new components of the Expanded Facility
4) Disinfection and Clearance
5) Tracer studies
6) Transitional Operation

Items that will be addressed within each of these major categories are outlined below.

15.2. EXISTING PLANT OPERATIONS DURING EXPANDED FACILITY CONSTRUCTION

The existing Facility will be operated during the construction of the Expanded Facility by the Company in a manner consistent with the current operational protocol, with the possible exception of changes necessary to accommodate construction activities. There may be accommodations necessary to support Maintenance of Operations Plans, various equipment outages, operation of temporary equipment and other such unusual conditions necessitated by construction. Regardless of accommodations made, the Finished Water will comply with Finished Water Standards.

A preliminary list of construction activities that may require partial or complete shutdowns of RSWTP operations is provided below.

	Activity
1	Train 5 raw water influent piping tie-in to existing influent raw water piping.
2	Train 5 (post-ozonation) piping tie-in at north end of existing filter inlet channel.
3	Filters 16-18 filtered water piping tie-in to existing filtered water piping (at existing 60” x 48” TEE).
4	Filters 16-18 spent backwash water piping tie-in to existing spent backwash water piping.
5	New backwash piping tie-in to existing backwash piping in existing filter piping gallery (north end).
6	Filters 16-18 filter influent piping tie-in at south end existing filter influent channel.
7	Removal of existing/installation of new belt filter presses.
8	New backwash piping tie-in to existing backwash piping in existing filter piping gallery (south end).
9	Reroute of existing Filters 1-15 filter-to-waste piping.
10	Reroute of portion of existing interconnect piping between Recycle Surge Basin No. 1 and Recycle Surge Basin No. 2.
11	Chemical system tie-ins (multiple).

12	Sludge mixing tower piping modifications.
13	Electrical system tie-ins (multiple).
14	PLC/Control Systems tie-ins (multiple)
15	Temporary driveway closures (plant traffic rerouting).

For each activity that may require a partial or complete shutdown, the Transition Plan will address the following:

- Coordination of full and partial shutdowns of the plant for new component tie-ins. Where practical, multiple tie-in activities requiring full or partial shutdowns may be scheduled to be performed concurrently to minimize the total number of full or partial shutdowns.
- Durations and Finished Water production capacity impacts associated with each Maintenance of Plant Operations activity. Dates will be reflected in project schedule updates.
- Disinfection and clearance of new components required to be put in service to allow continued operation of the existing plant.

For each activity requiring roadway closures, the Transition Plan will identify alternate routing of plant vehicle and pedestrian traffic and any temporary impacts to plant operations resulting from inability to maintain access to certain equipment or facilities.

15.3 FINAL CONSTRUCTION INSPECTION AND CHECK-OUT

Throughout the Construction Period, the Company and Design-Builder will monitor the quality of all installations to insure work proceeds in accordance with the design drawings and specifications and manufacturer's recommendations. As installations are completed, documentation will be maintained noting satisfactory installation in accordance with the quality control standards. The Transition Plan will address how successful completion of all installation activities will be determined (and documented) prior to proceeding with the Acceptance Test.

The Transition Plan will also address detailed preparation check-out procedures, including procedures for:

- Ring-out of all power, control, and monitoring and control circuits prior to connection.
- System pressure and/or leak tests.
- Voltage check of all circuits.
- Phase sequence check.
- Pre-connection alignment check of all connecting pipelines and machines.
- Calibration or verification of operation of all equipment, including fuses, temperature, pressure, level, vibration, flow switches, analyzers, alarms, etc.; and all visual monitors, including gauges, thermometers, etc.
- Complete check-out, through simulated operating conditions, of all safety circuits and devices.
- Manual rotation and/or movement of all moving parts to ensure freedom of movement and correct direction of rotation.
- Check that all valves are correctly orientated and in their correct operating mode.

15.4 START-UP AND PRELIMINARY TESTING

Start-up and preliminary testing will be conducted prior to conducting the Acceptance Test. The Transition Plan will address how such activities will be conducted to demonstrate that the Facility is acceptable to begin treating Raw Water. The Transition Plan will address how the Design-Builder will conduct a pre-start-up safety review of the equipment and processes prior to commencing initial operation and testing. The Transition Plan will specify the start-up and commissioning of major equipment and systems, including, but not limited to, the following:

- Valves and gates actuators.
- Electrical equipment (e.g., switchgear, starter panels, protection and control circuits, transformers, etc.).
- Instrumentation and metering.
- Automation equipment.
- Building services (e.g., lights, HVAC, fire detection and protection, etc.).
- Leakage testing of process piping and process structures.
- Disinfection of process structures and piping (where applicable).
- Pumps.
- Mixers.
- Filters and backwash systems.
- Ozone generation systems.
- Chemical feed systems
- Belt filter presses and solids conveyors

The Transition Plan will address how individual systems may be started and operated under simulated operating conditions, including all modes of operation, to determine as nearly as possible whether the equipment and systems meet performance requirements. The equipment will be operated for a sufficient period of time to determine equipment operating characteristics, including temperature and vibration, to observe performance characteristics to demonstrate that the equipment produces the capacities and performance requirements. Such preliminary tests will be performed prior to the formal Acceptance Test. Where proper start-up requires the availability of auxiliary systems that have not yet been placed in service, the Design-Builder will not operate such equipment until all sub and auxiliary systems are installed and functional or other means are provided for the test and checkout of the equipment. Once initial operational tests have been satisfactorily completed, all equipment will be rechecked for proper alignment, realigned if necessary, and checked for loose connections, unusual movement, or other indications of improper operating characteristics.

15.5. DISINFECTION AND CLEARANCE

Disinfection and Clearance will be performed as required by Florida Administrative Code 62.555.

15.6 TRACER STUDIES

Tracer studies were required for Ozone Trains 1 and 2, but were waived for Trains 3 and 4 in accordance with EPA's Appendix C of the Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems Using Surface Water Sources, which states: "For systems that have two or more units of identical size and configuration, tracer studies only need to be conducted on one of the units. The resulting graph of T10 vs. flow can be used to determine T10 for all identical units."

A waiver for tracer studies applicable to Ozone Train 5 will be applied for as it was with Trains 3 and 4. In the event that a tracer study is required for Ozone Train 5, it will be performed in accordance with regulatory requirements.

15.7 TRANSITIONAL OPERATION

The Transition Plan will address the anticipated transition dates and timetable for beginning the long-term treatment operations. The Plan will address the approach for:

- The Design-Builder's approach for handling water used for testing that is not suitable for discharge into Tampa Bay Water's Water Supply System. Such water will be routed through the Facility's recycle water systems.
- The Design-Builder's approach for receiving FDEP's approval for allowing water that has been treated through new treatment process components (e.g., Train 5 and Filters 16-18) and conveyance systems to enter Tampa Bay Water's Water Supply System.
- Any testing required to satisfy the regulatory requirements and all other requirements of this Service Agreement, prior to the conduct of the Acceptance Test.
- Any other activities necessary to maintain continuous coordination between Tampa Bay Water's operations and operations of the RSWTP.

EXHIBIT 15-1
PRELIMINARY OVERVIEW OF THE TRANSITION PLAN

Commissioning of the Expanded Facility will be accomplished in a phased, controlled manner as follows:

- All facilities will be inspected and certified as being ready to accept Raw Water.
- All appropriate structures and pipelines will be disinfected.
- The Expanded Facility plant water-retaining process structures and piping will be filled in a controlled manner. Flow requirements will be coordinated with Tampa Bay Water staff. Structures and pipelines will then be tested for water tightness.
- All electrical, instrumentation and mechanical equipment will be individually checked out, calibrated, started, and tested. Included in this step is filter backwashing and preparation for operation. Potable water will be required for the initial backwash.

Once the ability of the Expanded Facility to effectively treat water has been established, gradual transition to treatment of Raw Water will begin.

The first phase of transition will begin by diverting a small portion of Raw Water into Train 5 and commencing mixing, flocculation, and ozonation. Chemical systems to be started in this phase are: Coagulant (Ferric Sulfate), Sulfuric Acid, Coagulant Aid Polymer, Filter Aid Polymer, Ozone and pH Adjustment by Lime. pH adjustment by NaOH will also be tested to verify function at some point following successful function by lime.

New filters will be started individually and operated in filter-to-waste mode until the effluent quality is satisfactory. At that point, the filter will be brought on-line. Expanded Facility treated effluent during transition will be continuously monitored to ensure water quality.

Throughout this entire period, the Raw Water entering the Expanded Facility and leaving the various process units will be monitored to ensure compliance with the required Water Treatment Performance Standards of Schedule 8B, as applicable, by conducting sampling and analyses. Following completion of the transition, the Facility will be ready for performance of the Acceptance Test described in Schedule 9B.

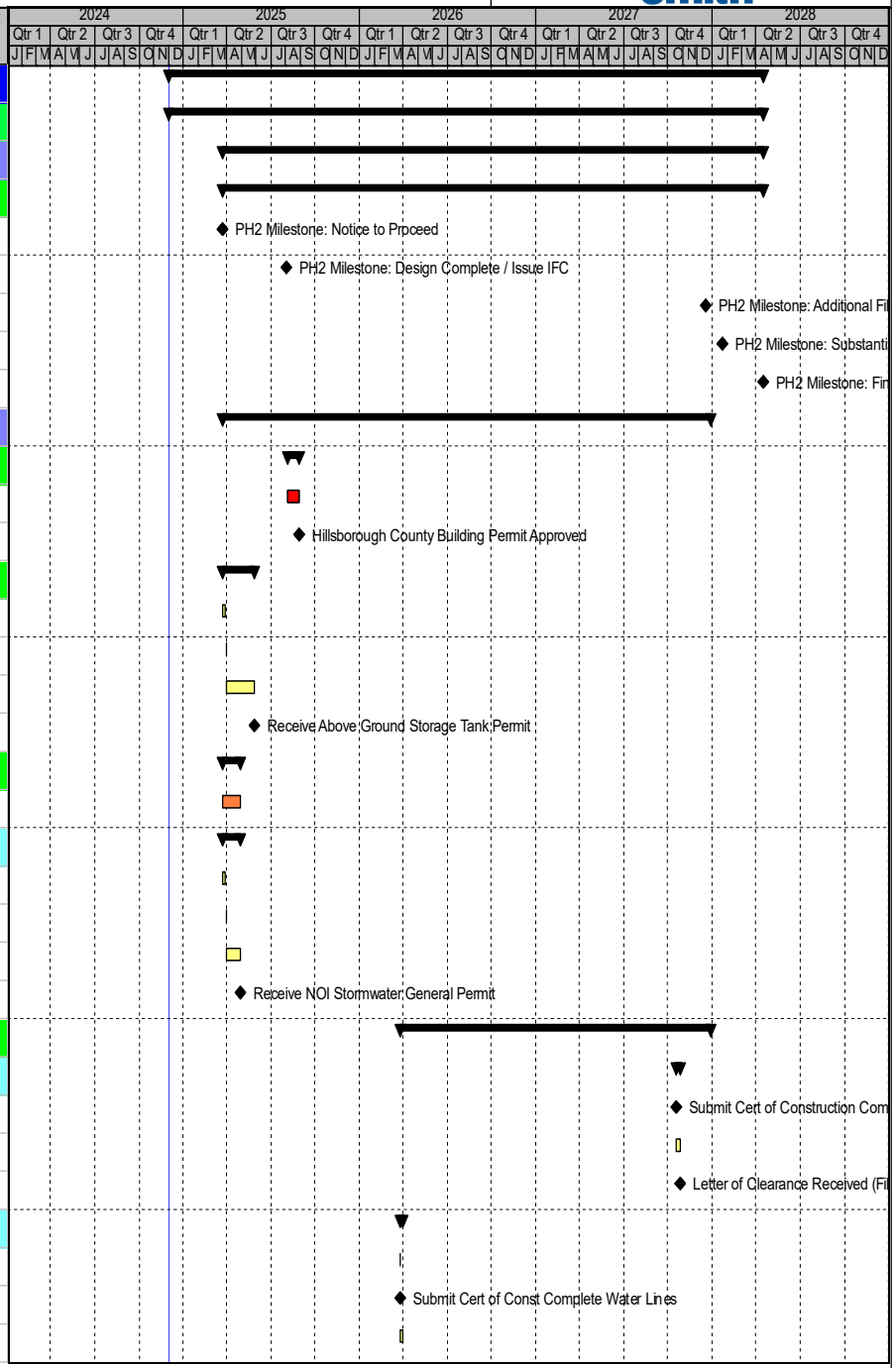
Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 19C – PROJECT SCHEDULE

Attached to this Schedule 19C is the schedule for the Progressive Design Build Construction Phase Services (Phase 2) to expand the capacity of the Surface Water Treatment Plant.

Attachment: PROGRESS SCHEDULE Phase 2 - Detail Schedule by WBS (All Activities)
P6 ID: 282964.Client2 Data Date:01-Dec-24
Layout: 282964:* PH2 Detail Sched (TF)

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
VWNA TBW RSWTP Expansion - Client Execution - Update			849	842	02-Dec-24	14-Apr-28	0
PHASE 2			842	842	02-Dec-24	14-Apr-28	0
PROJECT MILESTONES			766	766	24-Mar-25	14-Apr-28	0
Phase 2 Milestones			766	766	24-Mar-25	14-Apr-28	0
PH2.MS-00001	PH2 Milestone: Notice to Proceed	0%	0	0	24-Mar-25		67
PH2.MS-30001	PH2 Milestone: Design Complete / Issue IFC	0%	0	0		01-Aug-25	0
PH2.MS-50001	PH2 Milestone: Additional Filter Capacity Available	0%	0	0		17-Dec-27	0
PH2.MS-10001	PH2 Milestone: Substantial Completion (Balance of Plant)	0%	0	0		20-Jan-28	0
PH2.MS-20001	PH2 Milestone: Final Completion	0%	0	0		14-Apr-28	0
Construction Permits			692	692	24-Mar-25	29-Dec-27	14
Hillsborough County Building Permit			20	20	04-Aug-25	29-Aug-25	0
DS-PMT-040	Hillsborough County Building Permit Review	0%	20	20	04-Aug-25	29-Aug-25	0
DS-PMT-10040	Hillsborough County Building Permit Approved	0%	0	0		29-Aug-25	0
Above Ground Tank Registration & Permitting (if required)			46	46	24-Mar-25	27-May-25	67
CN.1170000	Prepare Storage Tank Permit Pkg	0%	5	5	24-Mar-25	28-Mar-25	67
CN.1180000	Submit Storage Tank Permit Pkg	0%	1	1	31-Mar-25	31-Mar-25	67
CN.1190000	Storage Tank Permit Review & Approval by FDEP (60 Cal Days)	0%	40	40	01-Apr-25	27-May-25	67
CN.1200000	Receive Above Ground Storage Tank Permit	0%	0	0		27-May-25	67
US Environmental Protection Agency			26	26	24-Mar-25	28-Apr-25	87
DS-PR-00410	USEPA: NOI To Use Stormwater at General Permit (Expansion)	0%	26	26	24-Mar-25	28-Apr-25	87
NOI To Use Stormwater General Permit (Expansion)			26	26	24-Mar-25	28-Apr-25	87
DS-PR-10410	CDM Smith Prepares NOI Storm General Permit	0%	5	5	24-Mar-25	28-Mar-25	87
DS-PR-20410	Submit NOI Stormwater Gen Permit Pkg to USEPA	0%	1	1	31-Mar-25	31-Mar-25	87
DS-PR-30410	NOI to Use Storm Gen Permit Rev & App by USEPA (30 Cal Days)	0%	20	20	01-Apr-25	28-Apr-25	87
DS-PR-40410	Receive NOI Stormwater General Permit	0%	0	0		28-Apr-25	87
FDEP - Drinking Water Facility Letter of Clearance Permit (Multiple)			442	442	25-Mar-26	29-Dec-27	14
Partial - Facilities Permit (Filters)			5	5	19-Oct-27	25-Oct-27	10
DS-PR-30300	Submit Cert of Construction Compliance Work (Filters)	0%	0	0	19-Oct-27		10
DS-PR-20300	Letter of Clearance Work - Review & Approve	0%	5	5	19-Oct-27	25-Oct-27	10
DS-PR-10300	Letter of Clearance Received (Filters)	0%	0	0		25-Oct-27	10
Partial - Raw Water Tie-In			6	6	25-Mar-26	01-Apr-26	429
DS-PR-80210	Received Clear to Place Water Lines in Service	0%	1	1	25-Mar-26	25-Mar-26	429
DS-PR-90210	Submit Cert of Const Complete Water Lines	0%	0	0	26-Mar-26		429
DS-PR-100210	Letter of Clearance Water Lines Review & Approve	0%	5	5	26-Mar-26	01-Apr-26	429

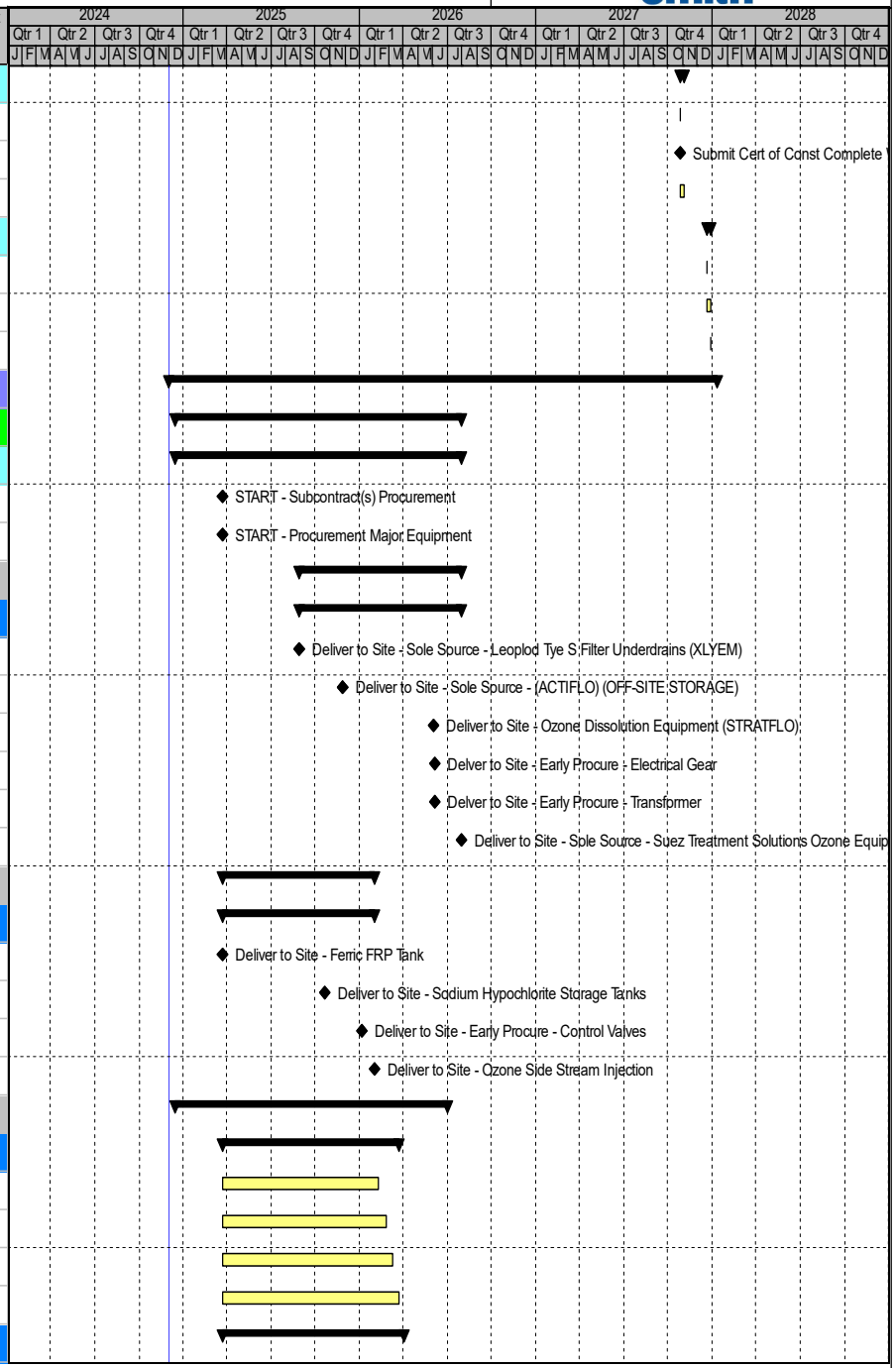


Print Date: 03-Dec-24

VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Partial - 42"/Actiflo/Ozone Train			6	6	26-Oct-27	02-Nov-27	30
DS-PR-130210	Received Clear to Place Water Lines in Service	0%	1	1	26-Oct-27	26-Oct-27	30
DS-PR-120210	Submit Cert of Const Complete Water Lines	0%	0	0	27-Oct-27		30
DS-PR-110210	Letter of Clearance Water Lines Review & Approve	0%	5	5	27-Oct-27	02-Nov-27	30
Final Clearance			7	7	20-Dec-27	29-Dec-27	14
DS-PR-30320	Submit Cert of Construction Completion - ALL	0%	1	1	20-Dec-27	20-Dec-27	14
DS-PR-20320	Letter of Clearance Review & Approve - ALL	0%	5	5	21-Dec-27	28-Dec-27	14
DS-PR-10320	Submit Cert of Construction Completion - ALL	0%	1	1	29-Dec-27	29-Dec-27	14
CONSTRUCTION STAGE			775	775	02-Dec-24	10-Jan-28	67
Pre-Construction / Procurement			406	406	16-Dec-24	31-Jul-26	426
Key Construction Procurement / Subcontracting			406	406	16-Dec-24	31-Jul-26	426
KCP-2	START - Subcontract(s) Procurement	0%	0	0	24-Mar-25		78
KCP-10002	START - Procurement Major Equipment	0%	0	0	24-Mar-25		236
EPP-1 Early Equipment Procurement			228	228	29-Aug-25	31-Jul-26	386
Sole Source Delivery to Site			228	228	29-Aug-25	31-Jul-26	386
PR140060	Deliver to Site - Sole Source - Leoplod Tye S Filter Underdrains (XLYEM)	0%	0	0		29-Aug-25	435
PR170060	Deliver to Site - Sole Source - (ACTIFLO) (OFF-SITE STORAGE)	0%	0	0		26-Nov-25	396
PR120060	Deliver to Site - Ozone Dissolution Equipment (STRATFLO)	0%	0	0		03-Jun-26	316
PR.FD.10100	Delver to Site - Early Procure - Electrical Gear	0%	0	0		04-Jun-26	239
PR.FD.80100	Delver to Site - Early Procure - Transformer	0%	0	0		04-Jun-26	426
PR150060	Deliver to Site - Sole Source - Suez Treatment Solutions Ozone Equipment (SUEZ)	0%	0	0		31-Jul-26	275
EPP-2 Early Equipment Procurement			214	214	24-Mar-25	02-Feb-26	435
Early Procurement - Delivery to Site			214	214	24-Mar-25	02-Feb-26	435
CN.1120000	Deliver to Site - Ferric FRP Tank	0%	0	0		24-Mar-25	535
CN.1100000	Deliver to Site - Sodium Hypochlorite Storage Tanks	0%	0	0		20-Oct-25	389
PR.FD.40100	Deliver to Site - Early Procure - Control Valves	0%	0	0		05-Jan-26	454
PR.FD.70100	Deliver to Site - Ozone Side Stream Injection	0%	0	0		02-Feb-26	401
GMP Equipment Procurement - Balance of Plant			386	386	16-Dec-24	01-Jul-26	446
General			250	250	24-Mar-25	24-Mar-26	370
PR160060	Procure, Submittals, Fab & Deliver - Sole Source - PEMD	0%	220	220	24-Mar-25	09-Feb-26	400
PR.FD.50100	Procure, Submittals, Fab & Deliver - Early Procure - Weirs & Gates	0%	230	230	24-Mar-25	24-Feb-26	282
CN.1130000	Procure, Submittals, Fab & Deliver - Ferric Feed Pumps	0%	240	240	24-Mar-25	10-Mar-26	295
PR.FD.60100	Procure, Submittals, Fab & Deliver - Early Procure - SCADA & Instrumentation	0%	250	250	24-Mar-25	24-Mar-26	355
Filter Equipment			257	257	24-Mar-25	02-Apr-26	509



P6 ID: 282964.Client2
Data Date:01-Dec-24
Layout: 282964:* PH2 Detail Sched (TF)

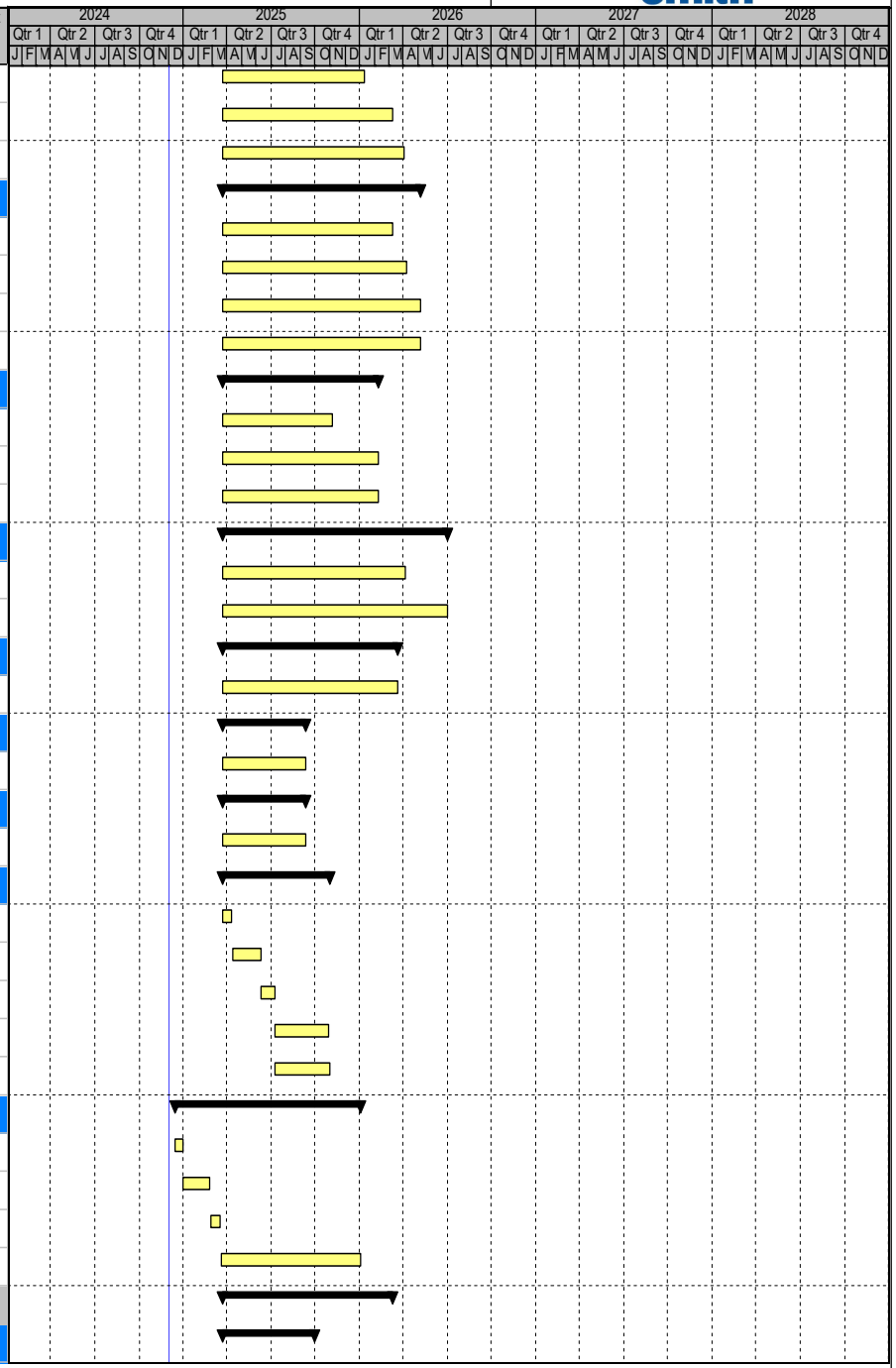
Actual | Remaining
LOE | Critical Work
Summary | Milestone

PROGRESS SCHEDULE

Phase 2 - Detail Schedule by WBS (All Activities)

Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.1110000	Procure, Submittals, Fab & Deliver - Finished Water Pumps	0%	200	200	24-Mar-25	09-Jan-26	566
CN.1080000	Procure, Submittals, Fab & Deliver - Backwash Pumps	0%	240	240	24-Mar-25	10-Mar-26	526
CN.790000	Procure, Submittals, Fab & Deliver - Filter V-Notch Troughs / Gullets	0%	257	257	24-Mar-25	02-Apr-26	509
Ozone, Ozone Generator, Actiflo Equipment			282	282	24-Mar-25	07-May-26	484
CN.1090000	Procure, Submittals, Fab & Deliver - Air Scour Blower	0%	240	240	24-Mar-25	10-Mar-26	299
CN.760000	Procure, Submittals, Fab & Deliver - Generator	0%	260	260	24-Mar-25	07-Apr-26	279
CN.770000	Procure, Submittals, Fab & Deliver - Mixers	0%	282	282	24-Mar-25	07-May-26	309
CN.1070000	Procure, Submittals, Fab & Deliver - Lime Silo and Feed System	0%	282	282	24-Mar-25	07-May-26	484
Yard Piping			220	220	24-Mar-25	09-Feb-26	546
PR.EP.30100	Procure, Submittals, Fab & Deliver - 16" DI Thickener Yard Pipe	0%	160	160	24-Mar-25	06-Nov-25	606
CN.1000000	Procure, Submittals, Fab & Deliver - 48"-42" Pipe (Actiflo Connection)	0%	220	220	24-Mar-25	09-Feb-26	395
CN.830000	Procure, Submittals, Fab & Deliver - Yard Pipe / Weir Box (Backwash Mods)	0%	220	220	24-Mar-25	09-Feb-26	546
Belt Filter Presses Equipment			320	320	24-Mar-25	01-Jul-26	254
CN.810000	Procure, Submittals, Fab & Deliver - Belt Filter Presses & Pumps - Bldg #2 (BFP 5-6-7)	0%	259	259	24-Mar-25	06-Apr-26	315
CN.4540000	Procure, Submittals, Fab & Deliver - Belt Filter Presses & Pumps - Bldg#1 (BFP 1-4)	0%	320	320	24-Mar-25	01-Jul-26	236
Solids Equipment			247	247	24-Mar-25	19-Mar-26	372
CN.800000	Procure, Submittals, Fab & Deliver - Sludge Pump Equipment	0%	247	247	24-Mar-25	19-Mar-26	372
Geotech Liner for Sludge Drying Area			120	120	24-Mar-25	10-Sep-25	499
CN.1550000	Procure, Submittals, Fab & Deliver - Geotech Liner for Sludge Drying Area	0%	120	120	24-Mar-25	10-Sep-25	499
Backwash Water Piping Mods			230	120	24-Mar-25	10-Sep-25	455
CN.4730000	Procure, Submittals, Fab & Deliver - Process Piping & Appurtances for Mods	0%	230	120	24-Mar-25	10-Sep-25	455
Large Bore Pipe			315	155	24-Mar-25	30-Oct-25	576
PR.EP.530100	Issue P.O. - LB Pipe	0%	15	15	24-Mar-25	11-Apr-25	416
PR.EP.550100	Prepare Submittal Package for Review - LB Pipe	0%	40	40	14-Apr-25	09-Jun-25	416
PR.EP.560100	Engineer Review Submittal - LB Pipe - Existing Filters to New Fitlers	0%	20	20	10-Jun-25	08-Jul-25	416
PR.EP.540100	Fab/Deliver - LB Pipe - Raw Water Feed Line to Actiflo Train	0%	240	80	09-Jul-25	29-Oct-25	416
PR.EP.970100	Fab/Deliver - LB Pipe - Existing Filters to New Filters	0%	240	80	09-Jul-25	30-Oct-25	576
Large Bore Valves			325	265	16-Dec-24	02-Jan-26	581
PR.EP.570100	Issue P.O. - LB Valves	0%	10	10	16-Dec-24	30-Dec-24	581
PR.EP.590100	Prepare Submittal Package for Review - LB Valves	0%	40	40	31-Dec-24	25-Feb-25	581
PR.EP.600100	Engineer Review Submittal - LB Valves	0%	15	15	26-Feb-25	18-Mar-25	581
PR.EP.580100	Fab/Deliver Sole Source - LB Valves	0%	260	200	19-Mar-25	02-Jan-26	581
Procure Subcontracts / Submittals / Eng Reviews			240	240	24-Mar-25	10-Mar-26	526
Procure Sitework - Roads, Swales, Ditches			134	134	24-Mar-25	30-Sep-25	8



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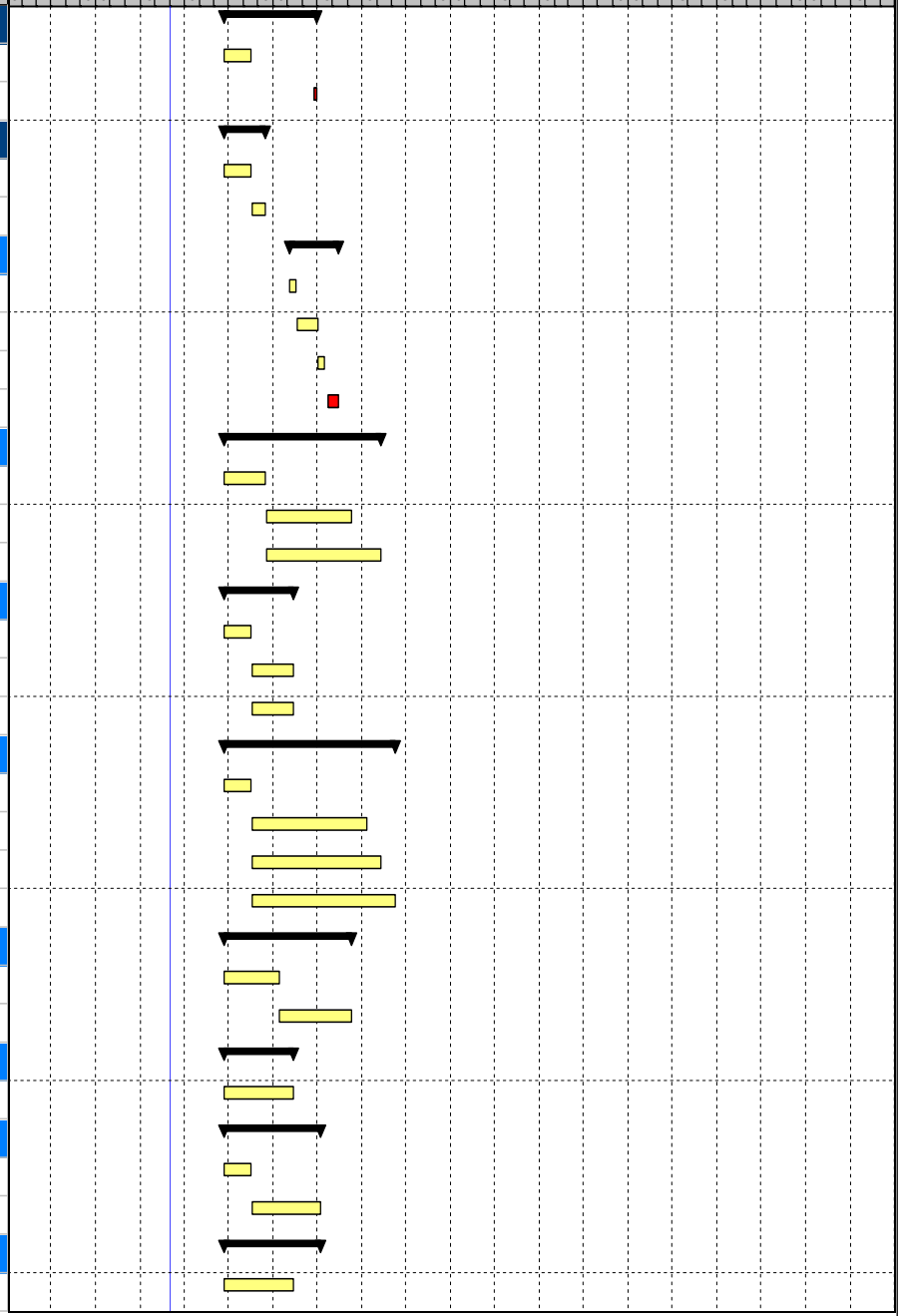
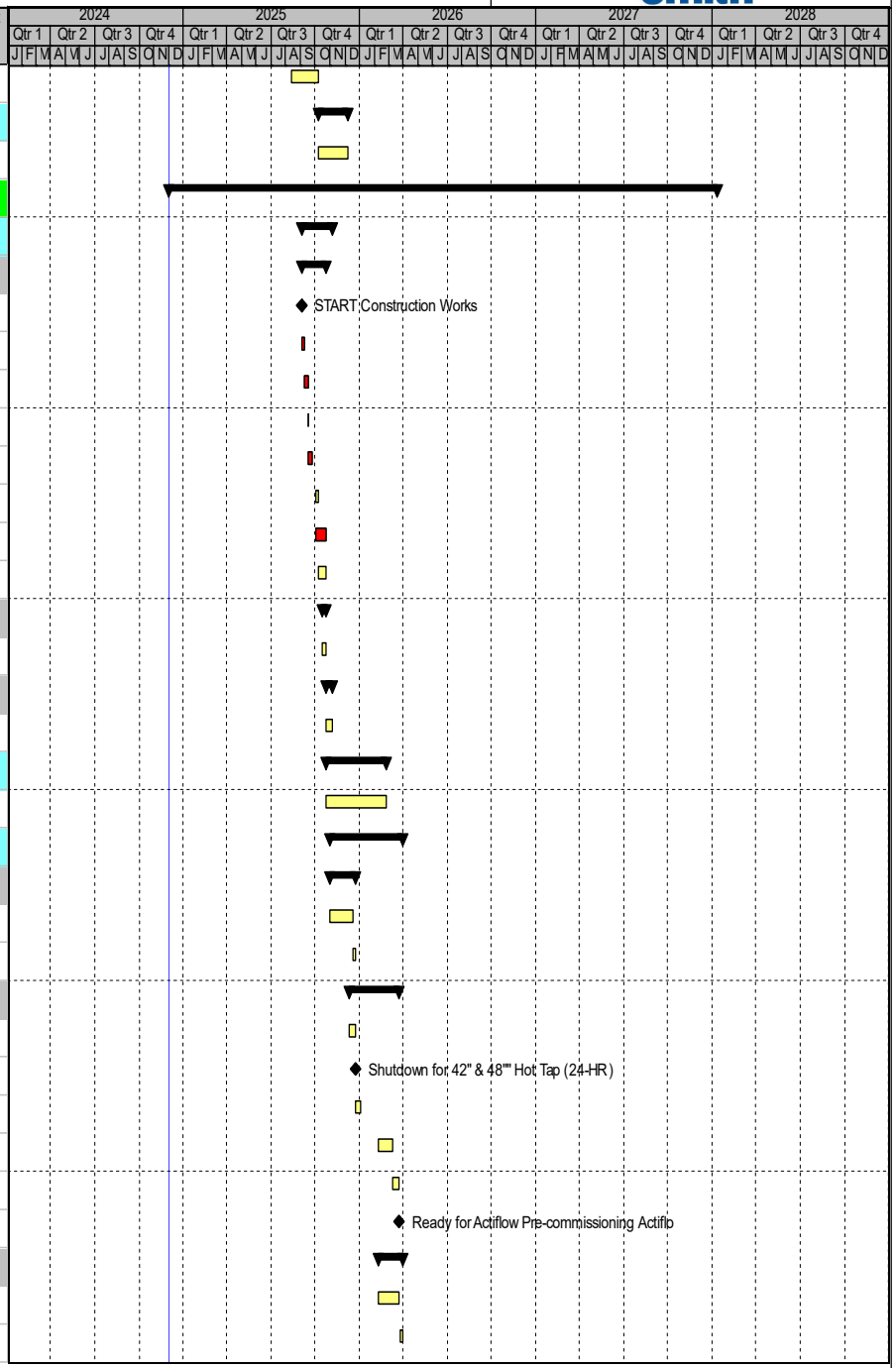
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Utilities			134	134	24-Mar-25	30-Sep-25	0
CN.350000	Procure, Submittals & Reviews - Sitework Subcontractor	0%	40	40	24-Mar-25	16-May-25	78
CN.360000	Sitework Mobilization	0%	5	5	24-Sep-25	30-Sep-25	0
Excavation / Shoring			60	60	24-Mar-25	16-Jun-25	82
CN.590000	Procure, Submittals, Reviews - Shoring System (Filter Gallary)	0%	40	40	24-Mar-25	16-May-25	82
CN.600000	Fab/Delivery - Shoring System Materials - Filter Gallary	0%	20	20	19-May-25	16-Jun-25	82
Procure Rigid Inclusion			69	69	06-Aug-25	13-Nov-25	0
CN.4890000	Procure - Rigid Inclusion Subcontract	0%	10	10	06-Aug-25	19-Aug-25	4
CN.4860000	Prepare & Submit - Rigid Inclusions Material Submittals	0%	30	30	20-Aug-25	01-Oct-25	4
CN.4870000	Rev & Approve - RIgid Inclusion Pile Submittals	0%	10	10	02-Oct-25	16-Oct-25	4
CN.4880000	Mobilize RI Equipment & Set-up - FIlter Area	0%	15	15	23-Oct-25	13-Nov-25	0
Procure Yard Mechanical Piping			220	220	24-Mar-25	09-Feb-26	380
CN.370000	Procure, Submittals & Reviews - Yard Piping Subcontractor	0%	60	60	24-Mar-25	16-Jun-25	204
CN.560000	Fab/Deliver - Yard Piping 42"	0%	120	120	17-Jun-25	09-Dec-25	420
CN.610000	Fab/Deliver - Yard Piping 24"-42"	0%	160	160	17-Jun-25	09-Feb-26	204
Procure Concrete / Structural			100	100	24-Mar-25	12-Aug-25	346
CN.420000	Procure, Submittals, Reviews - Concrete Subcontractor	0%	40	40	24-Mar-25	16-May-25	146
CN.430000	Fab/Delivery - Concrete Reinforcing FND 1st Del (Filter Bldg)	0%	60	60	19-May-25	12-Aug-25	146
CN.570000	Fab/Delivery - Concrete Reinforcing FND 1st Del (Ozone / Actiflo)	0%	60	60	19-May-25	12-Aug-25	346
Procure Process Mechanical Piping			240	240	24-Mar-25	10-Mar-26	370
CN.440000	Procure, Submittals, Reviews - Mechanical Process Piping	0%	40	40	24-Mar-25	16-May-25	328
CN.1020000	Fab/Delivery - Mechanical Process Piping Filters	0%	160	160	19-May-25	09-Jan-26	372
CN.1030000	Fab/Delivery - Mechanical Process Piping Ozone Contactor Tank	0%	180	180	19-May-25	09-Feb-26	390
CN.450000	Fab/Delivery - Mechanical Process Piping Actiflo	0%	200	200	19-May-25	10-Mar-26	328
Procure Electrical Package (Self-Perform)			180	180	24-Mar-25	09-Dec-25	365
CN.460000	Procure, Submittals, Reviews - Electrical Gear	0%	80	80	24-Mar-25	15-Jul-25	365
CN.470000	Fab/Delivery - Site Electrical Materials & Manholes	0%	100	100	16-Jul-25	09-Dec-25	365
Procure I&C Package (Self-Perform)			100	100	24-Mar-25	12-Aug-25	379
CN.480000	Procure, Submittals, Reviews - I&C Pacakge	0%	100	100	24-Mar-25	12-Aug-25	379
Procure Metals Package			140	140	24-Mar-25	08-Oct-25	427
CN.500000	Procure, Submittals, Reviews - Metals	0%	40	40	24-Mar-25	16-May-25	427
CN.510000	Fab/Delivery - Metals	0%	100	100	19-May-25	08-Oct-25	427
Procure Paintings & Coatings			140	140	24-Mar-25	08-Oct-25	626
CN.520000	Procure, Submittals, Reviews - Painting / Coatings	0%	100	100	24-Mar-25	12-Aug-25	626



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.530000	Mob - Painting / Coatings	0%	40	40	13-Aug-25	08-Oct-25	626
Mobilization of Field Office & Temp Utilities			40	40	08-Oct-25	08-Dec-25	587
MB-1	Mobilization of Field Office & Temp Utilities	0%	40	40	08-Oct-25	08-Dec-25	587
Construction Expansion			775	775	02-Dec-24	10-Jan-28	67
Sitework			46	46	02-Sep-25	05-Nov-25	607
Sitework - General Site-wide			36	36	02-Sep-25	22-Oct-25	617
CS-1	START Construction Works	0%	0	0	02-Sep-25		0
CN.1820000	Survey & Set Project Benchmarks	0%	5	5	02-Sep-25	08-Sep-25	0
CN.1830000	Install Environmental Protection Measures	0%	5	5	09-Sep-25	15-Sep-25	0
CN.1840000	Environmental Agency Inspection & Acceptance	0%	1	1	16-Sep-25	16-Sep-25	0
CN.1870000	Install Construction Temporary Fencing	0%	5	5	17-Sep-25	23-Sep-25	0
CN.2280000	Grade & Stone Existing Temp Field Office & Washdown Area	0%	5	5	01-Oct-25	07-Oct-25	587
CN.2010000	Install Temporary Road Access to South Area	0%	15	15	01-Oct-25	22-Oct-25	0
CN.2300000	Establish Guard Shack for Field Office & Tie-in Utilities	0%	10	10	08-Oct-25	22-Oct-25	617
Sitework - South Area			5	5	16-Oct-25	22-Oct-25	2
CN.2350000	Construct Temp Stone Ramp to Filter Area for Const Access	0%	5	5	16-Oct-25	22-Oct-25	2
Sitework - North Area			10	10	23-Oct-25	05-Nov-25	118
CN.2270000	Install Temporary Road Access to North Area & Washdown Area	0%	10	10	23-Oct-25	05-Nov-25	118
New Stormwater Pond			80	80	23-Oct-25	23-Feb-26	456
CN.950000	Construct Earth Stormwater Pond	0%	80	80	23-Oct-25	23-Feb-26	456
Yard Piping			101	101	30-Oct-25	31-Mar-26	511
Yard Piping - Actiflo Raw Water Feed Line			37	37	30-Oct-25	24-Dec-25	409
CN.YP.80050	Dig, Lay, Backfill Yard Piping - Raw Water Feed Line from Raw Water Tanks to Actiflo Train #5	0%	32	32	30-Oct-25	17-Dec-25	409
CN.YP.90050	Field Testing YP - Raw Water Line	0%	5	5	18-Dec-25	24-Dec-25	409
72-Inch Raw Water Tie-in to New Actiflo			70	70	10-Dec-25	24-Mar-26	395
CN.340000	Mobilize For Hot Tapping Existing 42" & 48"	0%	10	10	10-Dec-25	23-Dec-25	420
CN.1010000	Shutdown for 42" & 48"" Hot Tap (24-HR)	0%	0	0	24-Dec-25		420
CN.990000	Hot Tap Existing 42" & 48" Pipe	0%	5	5	24-Dec-25	02-Jan-26	420
CN.980000	Install U/G Pipe, 42" & 48" Hot Tap to Actiflo Pipe Connection	0%	20	20	10-Feb-26	10-Mar-26	395
CN.1210000	Install U/G 36" BFV and 36" Sleeve	0%	10	10	11-Mar-26	24-Mar-26	395
CN.820000	Ready for Actiflow Pre-commissioning Actiflo	0%	0	0		24-Mar-26	395
Yard Piping - Existing Filter to New Filters			35	35	10-Feb-26	31-Mar-26	511
CN.YP.20010	Dig, Lay, Backfill Yard Piping - Existing Filters to New Filters	0%	30	30	10-Feb-26	24-Mar-26	511
CN.YP.20050	Field Testing YP - Existing Filters to New Filters	0%	5	5	25-Mar-26	31-Mar-26	511



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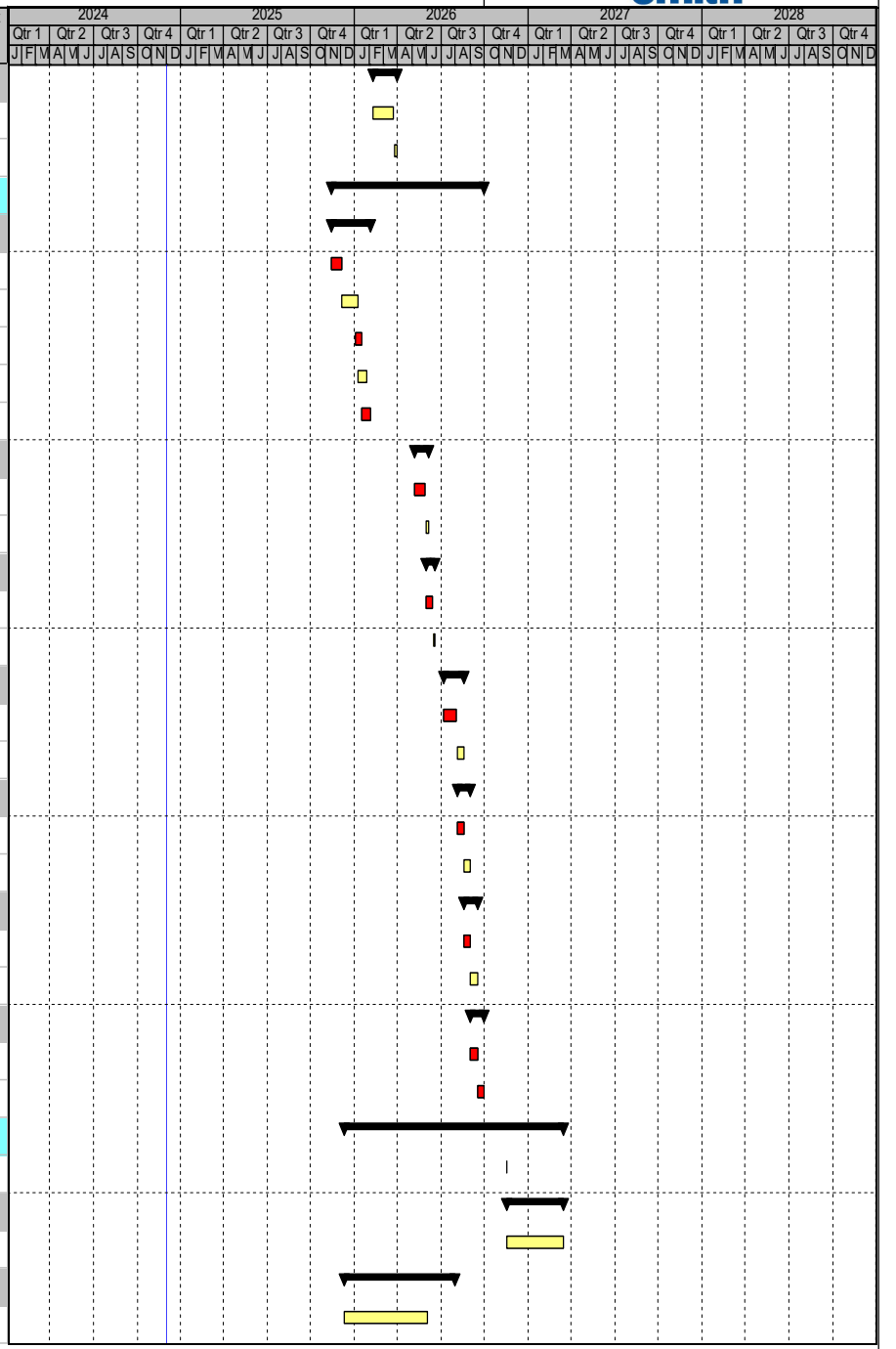
Yard Piping - Piping to Existing Filter Inlet Channel at Filter #1			35	35	10-Feb-26	31-Mar-26	204
CN.YP.30010	Dig, Lay, Backfill Yard Piping - Gallery	0%	30	30	10-Feb-26	24-Mar-26	204
CN.YP.30050	Field Testing YP - Gallery	0%	5	5	25-Mar-26	31-Mar-26	204
Rigid Inclusion Piles			218	218	14-Nov-25	29-Sep-26	155
Filter Bldg Structure			52	52	14-Nov-25	03-Feb-26	21
CN.2240000	Install Rigid Inclusion Piles - Filter Pipe Gallery (Approx 75)	0%	12	12	14-Nov-25	03-Dec-25	0
CN.2260000	Install Rigid Inclusion Piles - Filter 16-18 Basins (Approx 321)	0%	23	23	04-Dec-25	08-Jan-26	26
CN.2340000	Cut-off Rigid Inclusion Piles - Filter Pipe Gallery (Approx 75)	0%	10	10	02-Jan-26	15-Jan-26	0
CN.2250000	Construct Load Transfer Platform for RI Pile Driving - Filter 16-18 Basins	0%	12	12	09-Jan-26	27-Jan-26	26
CN.4490000	Construct Load Transfer Platform for RI Pile Driving - Filter Pipe Gallery	0%	12	12	16-Jan-26	03-Feb-26	0
Dry Chem Feed Bldg 3 (118-RI)			20	20	08-May-26	05-Jun-26	82
CN.RI.90010	Soil Improvement (RI Piles) - Dry Chem Feed Bldg3 (Approx 118)	0%	15	15	08-May-26	29-May-26	0
CN.RI.90020	Construct Load Transfer Platform for RI Pile Driving - Dry Chem Feed Bldg3	0%	5	5	01-Jun-26	05-Jun-26	82
Floc/Sed Unit 5 Structure (82-RI)			15	15	01-Jun-26	19-Jun-26	35
CN.3480000	Soil Improvement (RI Piles) - Floc/Sed Clarifier (Approx 52)	0%	10	10	01-Jun-26	12-Jun-26	0
CN.4500000	Construct Load Transfer Platform for RI Pile Driving - Floc/Sed Clarifier	0%	5	5	15-Jun-26	19-Jun-26	35
Ozone Contactor Tank Strcuture (210-RI)			30	30	07-Jul-26	17-Aug-26	79
CN.RI.50010	Soil Improvement (RI Piles) - Ozone Contactor Tank (Approx 218)	0%	20	20	07-Jul-26	03-Aug-26	0
CN.RI.50020	Construct Load Transfer Platform for RI Pile Driving - Ozone Contactor Tank	0%	10	10	04-Aug-26	17-Aug-26	79
Lox Storage Pad (36-RI)			20	20	04-Aug-26	31-Aug-26	160
CN.RI.70010	Soil Improvement (RI Piles) - Lox Storage Pad (Approx 36)	0%	10	10	04-Aug-26	17-Aug-26	0
CN.RI.70020	Construct Load Transfer Platform for RI Pile Driving - Lox Storage Pad	0%	10	10	18-Aug-26	31-Aug-26	160
Lox Heat Exchangers (22-RI)			20	20	18-Aug-26	15-Sep-26	165
CN.RI.80050	Soil Improvement (RI Piles) - Lox Heat Exchangers (Approx 34)	0%	10	10	18-Aug-26	31-Aug-26	0
CN.RI.80040	Construct Load Transfer Platform for RI Pile Driving - Lox Heat Exchangers	0%	10	10	01-Sep-26	15-Sep-26	165
Ozone Generator Bldg (35-RI)			20	20	01-Sep-26	29-Sep-26	0
CN.RI.60010	Soil Improvement (RI Piles) - Ozone Generator Bldg (Approx 35)	0%	10	10	01-Sep-26	15-Sep-26	0
CN.RI.60020	Construct Load Transfer Platform for RI Pile Driving - Ozone Generator Bldg	0%	10	10	16-Sep-26	29-Sep-26	0
Site Electrical			384	314	10-Dec-25	16-Mar-27	272
CN.1050000	Electrical Site Modifications (SUMMARY)	0%	150	0	17-Nov-26	17-Nov-26	251
Electrical Ductbank Extension (Actiflo / Ozone)			80	80	17-Nov-26	16-Mar-27	131
CN.620000	Electrical Ductbank Extension (Actiflo / Ozone)	0%	80	80	17-Nov-26	16-Mar-27	131
Existing Electrical Ductbank Modification (Filters)			160	160	10-Dec-25	30-Jul-26	426
CN.630000	Existing Electrical Ductbank Extension Mod (Filters)	0%	120	120	10-Dec-25	03-Jun-26	365



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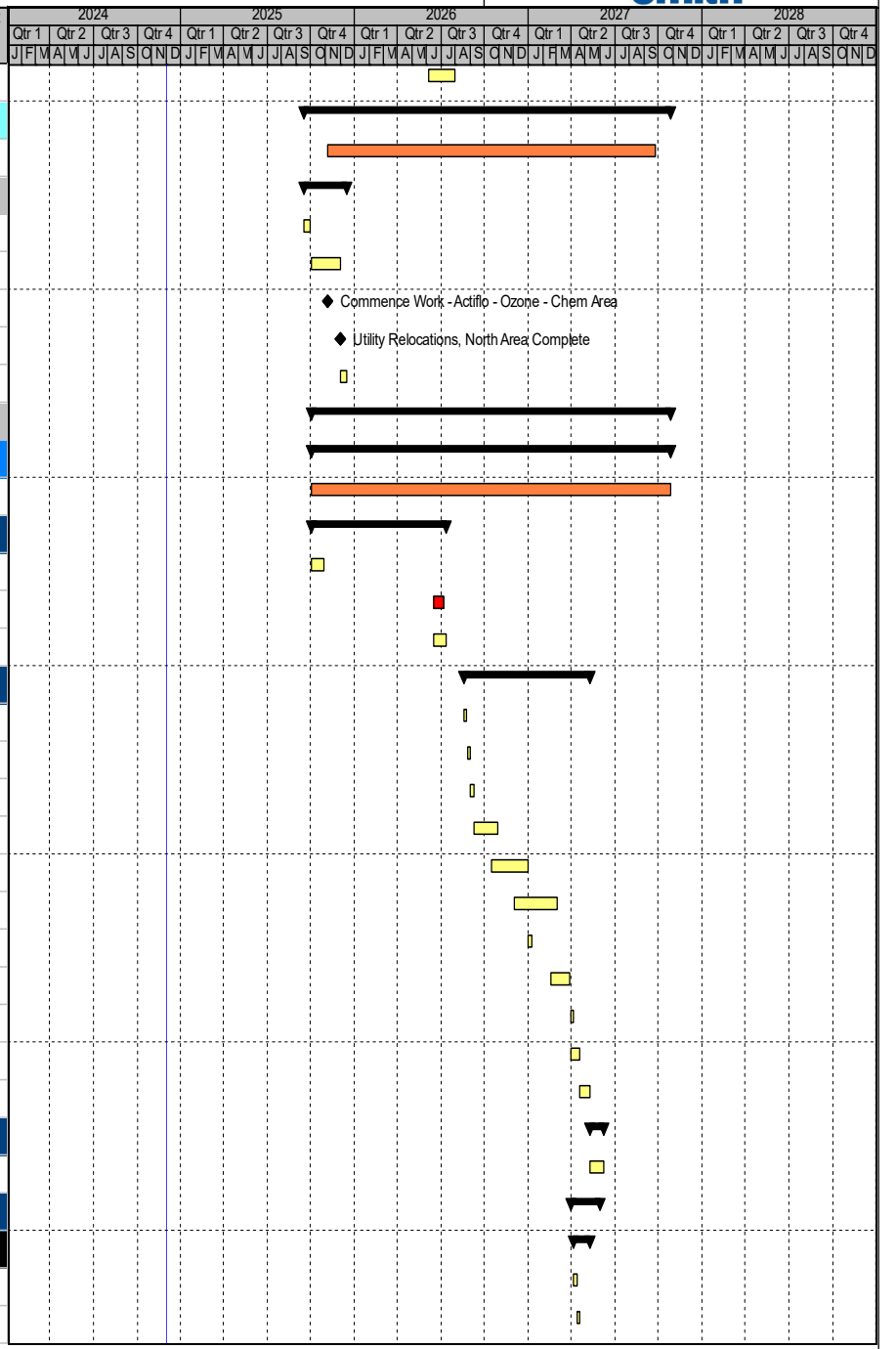
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.700000	Install Electrical Transformers	0%	40	40	04-Jun-26	30-Jul-26	426
North Area ((Ozone/Actiflo/Generator/Lox/Polymer)			525	525	17-Sep-25	25-Oct-27	117
CN.720000	Construct Actiflo (SUMMARY)	0%	403	470	06-Nov-25	24-Sep-27	26
General Civil			60	60	17-Sep-25	15-Dec-25	93
CN.1850000	Utility Locates - North Area	0%	10	10	17-Sep-25	30-Sep-25	93
CN.1860000	Utility Relocations, North Area	0%	40	40	01-Oct-25	01-Dec-25	93
CN.4000000	Commence Work - Actiflo - Ozone - Chem Area	0%	0	0	06-Nov-25		118
CN.1880000	Utility Relocations, North Area Complete	0%	0	0		01-Dec-25	93
CN.1890000	Clear & Grub - Northern Area	0%	10	10	02-Dec-25	15-Dec-25	93
Train 5 Construction Area			515	515	01-Oct-25	25-Oct-27	117
Ozone Contactor Tank			515	515	01-Oct-25	25-Oct-27	117
CN.740000	Construct Ozone Contact (SUMMARY)	0%	325	515	01-Oct-25	25-Oct-27	26
Sitework			193	193	01-Oct-25	13-Jul-26	439
CN.FL0-270010	Mobilize Sitework, Survey, Utility Locate, Relocations, Clear & Grub	0%	20	20	01-Oct-25	29-Oct-25	153
CN.FL0-140010	Excavate & Prep Foundation - Ozone Tank	0%	15	15	15-Jun-26	06-Jul-26	0
CN.FL0-260010	Install Temp Groundwater Management System	0%	20	20	15-Jun-26	13-Jul-26	439
Concrete / Structural			181	181	18-Aug-26	10-May-27	82
CN.FL0-150020	Structural Excavation - Ozone Contact Tank	0%	5	5	18-Aug-26	24-Aug-26	79
CN.FL0-150030	Install Underslab 6"-DR-OV Underdrain - Ozone Contact Tank	0%	5	5	25-Aug-26	31-Aug-26	79
CN.FL0-150040	Backfill & Prep SoG - Ozone Contact Tank	0%	5	5	01-Sep-26	08-Sep-26	79
CN.FL0-150050	F/R/P Concrete SoG, Ozone Contact Tank	0%	36	36	09-Sep-26	29-Oct-26	79
CN.FL0-150060	F/R/P Concrete Ext Walls, Ozone Contact Tank	0%	50	50	16-Oct-26	30-Dec-26	79
CN.FL0-150070	F/R/P Concrete Interior Walls, Ozone Contact Tank	0%	60	60	02-Dec-26	01-Mar-27	82
CN.FL0-170080	F/R/P Concrete Ozone Side Stream Innjection Pump Slab	0%	5	5	31-Dec-26	07-Jan-27	167
CN.FL0-150080	F/R/P Concrete Elevated Deck & Cure - Ozone Contact Tank	0%	30	30	16-Feb-27	29-Mar-27	82
CN.FL0-160080	F/R/P Concrete Sidestream Injection Tank Floor Slab EL 35.48	0%	5	5	30-Mar-27	05-Apr-27	92
CN.FL0-150100	Concrete Finishing, Ozone Contact Tank	0%	15	15	30-Mar-27	19-Apr-27	82
CN.FL0-150150	Leak Testing (Prep, Fill, Test, Drain) - Ozone Tank	0%	15	15	20-Apr-27	10-May-27	82
Coatings			20	20	11-May-27	08-Jun-27	122
CN.FL0-220010	Coatings - Ozone Tank	0%	20	20	11-May-27	08-Jun-27	122
Mechancial Process			45	45	30-Mar-27	01-Jun-27	218
Side Stream Injection Pump 9&10			25	25	06-Apr-27	10-May-27	108
CN.4220000	Install Vert 42" Ozone Diffusser Tube in Side Stream Injection	0%	5	5	06-Apr-27	12-Apr-27	102
CN.4230000	Set & Level Ozone Side Stream Injection Pumps 9&10	0%	5	5	13-Apr-27	19-Apr-27	102



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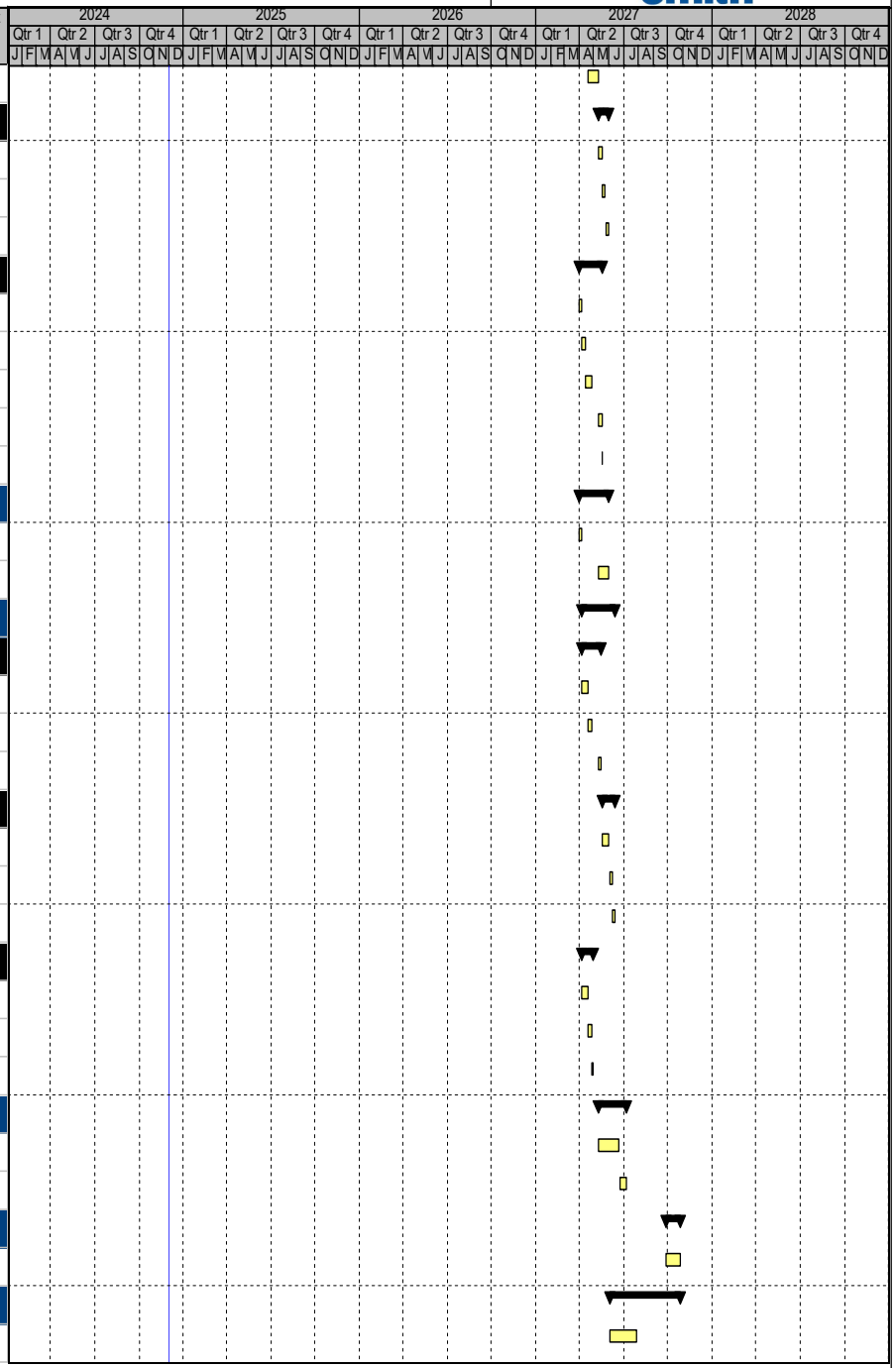
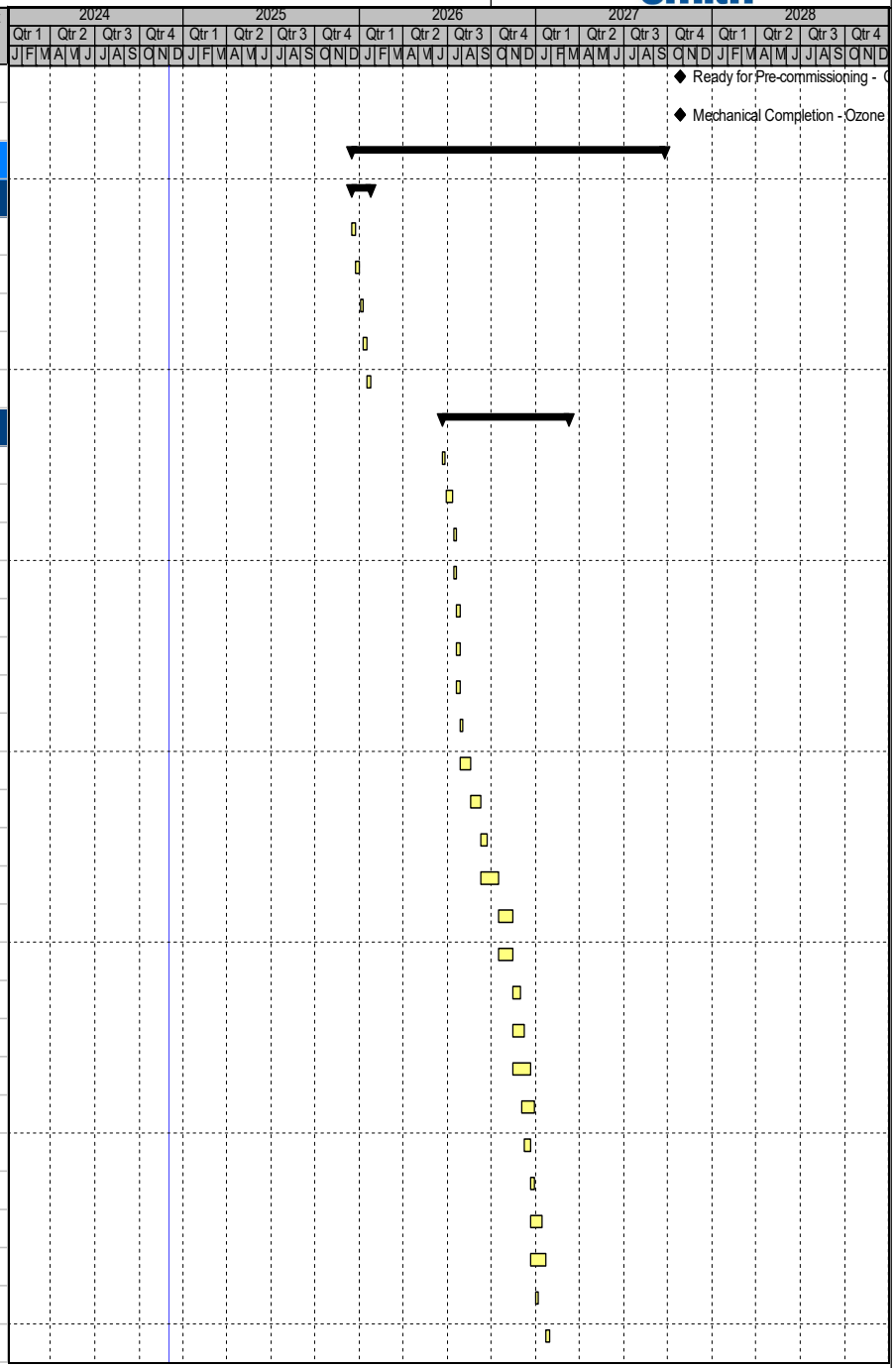
CN.4240000	Install Ozone Side Stream Injection Proess Piping & Appurtnances	0%	15	15	20-Apr-27	10-May-27	108
Ozone Contact Tank			15	15	11-May-27	01-Jun-27	218
CN.4340000	Set & Level Ozone Destruct Unit 7&8	0%	5	5	11-May-27	17-May-27	82
CN.4350000	Install Ozone Destruct Unit 7 Process Piping & Appurtances	0%	5	5	18-May-27	24-May-27	218
CN.4360000	Install Ozone Destruct Unit 8 Process Piping & Appurtances	0%	5	5	25-May-27	01-Jun-27	218
Post-Ozone Lime Mixing Tank			36	36	30-Mar-27	18-May-27	227
CN.4370000	Set & Level Mixers - Post Ozone Lime Mixing Tank	0%	5	5	30-Mar-27	05-Apr-27	88
CN.4380000	Install Baffles - Post Ozone Lime Mixing Tank	0%	5	5	06-Apr-27	12-Apr-27	243
CN.4390000	Install Injection Points & Process Piping - Post Ozone Lime Mixing Tank	0%	10	10	13-Apr-27	26-Apr-27	243
CN.4400000	Install 48" Filter Influent Wall Pipe Connection to Post Ozone Lime Mixing Tank	0%	5	5	11-May-27	17-May-27	227
CN.4410000	Tie-In 48" FI-DI Yard Pipe@t Post Ozone Lime Mixing Tank	0%	1	1	18-May-27	18-May-27	227
Metals			45	45	30-Mar-27	01-Jun-27	218
CN.FL0-190010	Install Stainless Access Plates - Ozone Contact Tank, T/Conc	0%	6	6	30-Mar-27	06-Apr-27	257
CN.FL0-170010	Install Structural Steel & Canopy - Ozone Destruct Units 7&8	0%	15	15	11-May-27	01-Jun-27	87
Electrical			49	49	06-Apr-27	14-Jun-27	88
Side Stream Injection Pump 9&10			29	29	06-Apr-27	14-May-27	108
CN.4250000	Electrical Rough-in - Sidestream Injection Pumps & Instrumentation	0%	10	10	06-Apr-27	19-Apr-27	118
CN.4260000	Electrical Wire & Cable - Sidestream Injection Pumps & Instrumentation	0%	5	5	20-Apr-27	26-Apr-27	118
CN.4270000	Electrical Termiantions - Sidestream Injection Pumps & Instrumentation	0%	4	4	11-May-27	14-May-27	108
Ozone Contact Tank			19	19	18-May-27	14-Jun-27	88
CN.4280000	Electrical Rough-in - Ozone Destruct Units 7&8	0%	10	10	18-May-27	01-Jun-27	88
CN.4290000	Electrical Wire & Cable - Ozone Destruct Units 7&8	0%	5	5	02-Jun-27	08-Jun-27	88
CN.4300000	Electrical Termiantions - Ozone Destruct Units 7&8	0%	4	4	09-Jun-27	14-Jun-27	88
Post-Ozone Lime Mixing Tank			19	19	06-Apr-27	30-Apr-27	88
CN.4310000	Electrical Rough-in - Post-Ozone Lime Mixing Tank	0%	10	10	06-Apr-27	19-Apr-27	88
CN.4320000	Electrical Wire & Cable - Post-Ozone Lime Mixing Tank	0%	5	5	20-Apr-27	26-Apr-27	88
CN.4330000	Electrical Termiantions - Post-Ozone Lime Mixing Tank	0%	4	4	27-Apr-27	30-Apr-27	88
Instrumentation & SCADA			40	40	11-May-27	07-Jul-27	82
CN.FL0-180010	Instrumentation - Ozone System	0%	30	30	11-May-27	22-Jun-27	82
CN.FL0-250010	I/O Loop Chech & Calibration	0%	10	10	23-Jun-27	07-Jul-27	82
Field Functional Testing			20	20	27-Sep-27	25-Oct-27	26
CN.FL0-200010	Functional Field Testing - Ozone Contact System	0%	20	20	27-Sep-27	25-Oct-27	26
Final Site Restoration			101	101	02-Jun-27	25-Oct-27	26
CN.FL0-240010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	40	40	02-Jun-27	28-Jul-27	87



Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-210010	Ready for Pre-commissioning - Ozone Contact System	0%	0	0		25-Oct-27	26
CN.FL0-230010	Mechanical Completion - Ozone	0%	0	0		25-Oct-27	26
Actiflo - High Rate Floc/Sed			445	445	16-Dec-25	24-Sep-27	137
Sitework			25	25	16-Dec-25	23-Jan-26	557
CN.3420000	Survey & Layout - Train 5 Area	0%	5	5	16-Dec-25	22-Dec-25	93
CN.3440000	Install Dewatering - Train 5 - Settling Tank / Maturation & Injection Tank	0%	5	5	23-Dec-25	31-Dec-25	93
CN.3450000	Rough-Grade - Settling Tank & Maturization / Injection Tank5, T/Conc EL 31.76	0%	5	5	02-Jan-26	08-Jan-26	93
CN.3460000	Rough-Grade - Ozone Tank, T/Conc EL 31.10	0%	5	5	09-Jan-26	15-Jan-26	93
CN.3470000	Rough-Grade - Ozone Generator Building	0%	5	5	16-Jan-26	23-Jan-26	557
Concrete / Structural			177	177	22-Jun-26	09-Mar-27	277
CN.3490000	Structural Excavation - Settling Tank Center Foundation & Maturization / Iniection Tanks	0%	5	5	22-Jun-26	26-Jun-26	35
CN.3500000	F/R/P Concrete - Settling Tank Center Foundation	0%	10	10	29-Jun-26	13-Jul-26	35
CN.3510000	Installl Underslab 10" SR-SS / Backfill & Concrete Encasement at Settling Tank	0%	5	5	14-Jul-26	20-Jul-26	35
CN.3540000	Install Underslab 6" Drainage PVC, Maturization & Injection Tank 5	0%	5	5	14-Jul-26	20-Jul-26	50
CN.3520000	Backfill Settling Tank & Prep SoG (Sloped Concrete)	0%	5	5	21-Jul-26	27-Jul-26	35
CN.3550000	Backfill Maturization / Injection Tanks & Prep SOG	0%	5	5	21-Jul-26	27-Jul-26	50
CN.3570000	Install Underslab 6" Drainage PVC, Pre-Ozone	0%	5	5	21-Jul-26	27-Jul-26	414
CN.3580000	Backfill Pre-Ozone & Prep SoG	0%	5	5	28-Jul-26	03-Aug-26	414
CN.3530000	F/R/P Concrete SoG, Settling Tank	0%	15	15	28-Jul-26	17-Aug-26	35
CN.3560000	F/R/P Concrete SoG, Maturization & Injection Tank 5, T/Conc EL 31.76	0%	15	15	18-Aug-26	08-Sep-26	35
CN.3590000	F/R/P Concrete SoG, Pre-Ozone, T/Conc EL 37.12	0%	10	10	09-Sep-26	22-Sep-26	389
CN.3600000	F/R/P Concrete Ext Walls, Settling Tank	0%	25	25	09-Sep-26	14-Oct-26	35
CN.3610000	F/R/P Concrete Ext Walls, Maturization / Injection Tanks	0%	20	20	15-Oct-26	12-Nov-26	35
CN.3630000	F/R/P Concrete Interior Walls, Settling Tanks	0%	20	20	15-Oct-26	12-Nov-26	126
CN.3640000	F/R/P Concrete Interior Wall, Coag / Injection	0%	10	10	13-Nov-26	30-Nov-26	126
CN.3620000	F/R/P Concrete Ext Walls, Pre-Ozone	0%	15	15	13-Nov-26	07-Dec-26	111
CN.3660000	F/R/P Concrete Elevated Deck & Cure - Settling Tank, EL 60.76	0%	25	25	13-Nov-26	21-Dec-26	126
CN.3670000	F/R/P Concrete Elevated Deck & Cure - Coag / Injection, EL 60.18	0%	20	20	01-Dec-26	29-Dec-26	126
CN.3650000	F/R/P Concrete Interior Walls, Pre-Ozone	0%	10	10	08-Dec-26	21-Dec-26	111
CN.3700000	Concrete Finishing, Settling Tank	0%	5	5	22-Dec-26	29-Dec-26	126
CN.3690000	F/R/P Concrete Elevated Deck & Cure - Pre-Ozone, EL 47.10	0%	15	15	22-Dec-26	13-Jan-27	116
CN.3680000	F/R/P Concrete Elevated Deck & Cure - Pre-Ozone, EL 59.76	0%	20	20	22-Dec-26	21-Jan-27	111
CN.3710000	Concrete Finishing, Maturization / Injection Tanks	0%	5	5	30-Dec-26	06-Jan-27	126
CN.3720000	Concrete Finishing, Pre-Ozone	0%	5	5	22-Jan-27	28-Jan-27	111



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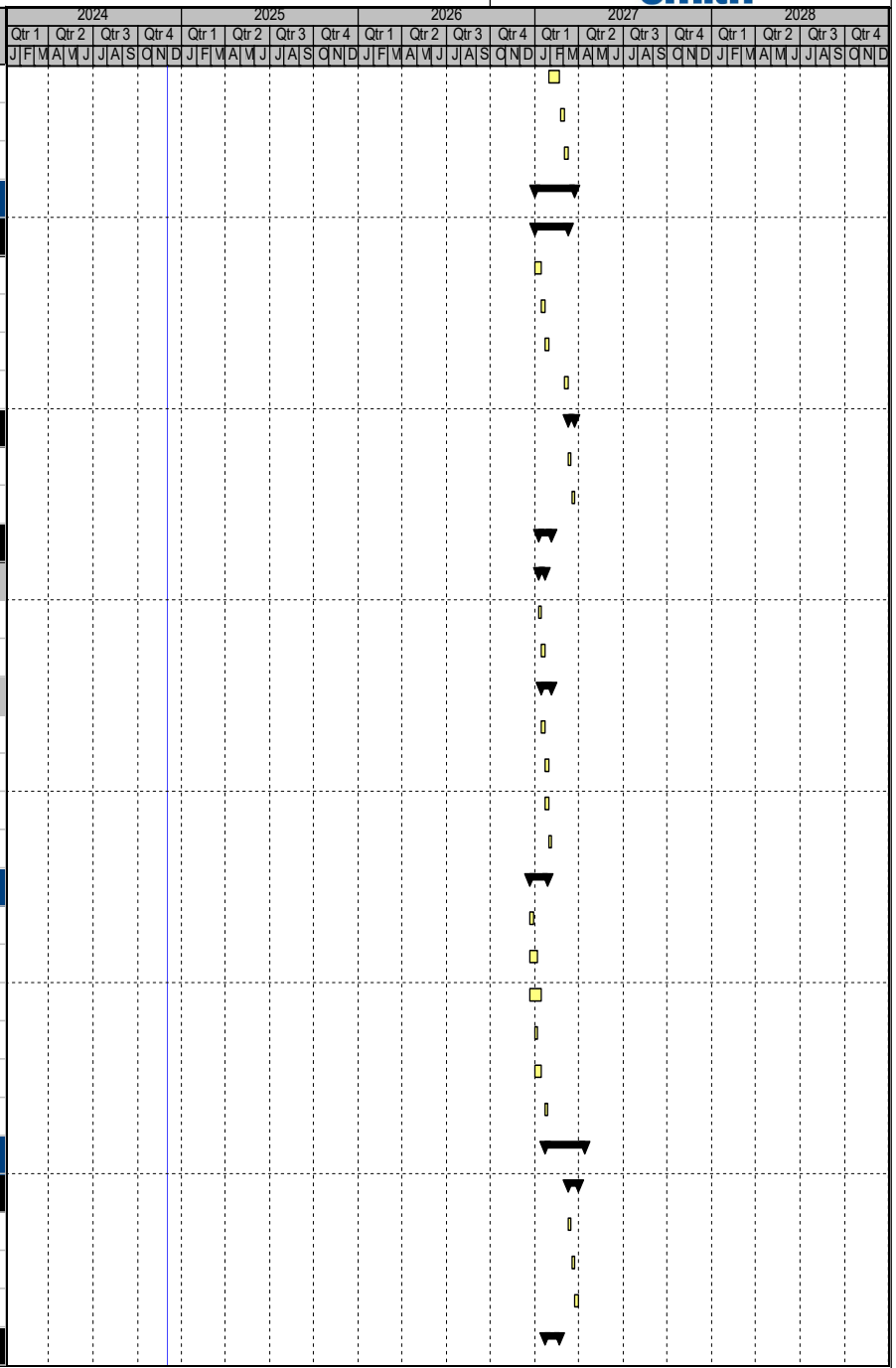
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.3730000	Leak Testing (Prep, Fill, Test, Drain)	0%	15	15	29-Jan-27	19-Feb-27	111
CN.3840000	Grout Settling Tank & Cure	0%	7	7	22-Feb-27	02-Mar-27	111
CN.3850000	Grout Pre-Ozone Tank & Cure	0%	5	5	03-Mar-27	09-Mar-27	121
Mechanical Process			57	57	30-Dec-26	23-Mar-27	121
Settling Tank 5			47	47	30-Dec-26	09-Mar-27	111
CN.3820000	Install Collection Trough	0%	10	10	30-Dec-26	13-Jan-27	126
CN.3830000	Install Lamella Tubes	0%	5	5	14-Jan-27	21-Jan-27	126
CN.3810000	Set & Level Scrapper Drive Unit	0%	5	5	22-Jan-27	28-Jan-27	126
CN.3800000	Set & Level Scrapper Mechanism	0%	5	5	03-Mar-27	09-Mar-27	111
Pre-Ozone Mixing Tanks 13 & 14			10	10	10-Mar-27	23-Mar-27	121
CN.3890000	Install Baffles - Pre-Ozone	0%	5	5	10-Mar-27	16-Mar-27	121
CN.3900000	Install Mixers - Pre-Ozone Lime Mixing Tank 13&14	0%	5	5	17-Mar-27	23-Mar-27	121
Maturaization Tank 5 / Coag & Injection Tank 5			20	20	07-Jan-27	04-Feb-27	148
Maturization Tank 5			10	10	07-Jan-27	21-Jan-27	148
CN.3910000	Install Baffle Walls - Maturization Tank	0%	5	5	07-Jan-27	13-Jan-27	148
CN.3920000	Install Mixer - Maturization Tank	0%	5	5	14-Jan-27	21-Jan-27	148
Coagulation & Injection Tank 5			15	15	14-Jan-27	04-Feb-27	148
CN.3930000	Install Baffle Walls - Coagulation Tank 5	0%	5	5	14-Jan-27	21-Jan-27	148
CN.3940000	Install Mixer - Coaugulation Tank 5	0%	5	5	22-Jan-27	28-Jan-27	148
CN.3950000	Install Baffle Walls - Injection Tank 5	0%	5	5	22-Jan-27	28-Jan-27	148
CN.3960000	Install Mixer - Injection Tank 5	0%	5	5	29-Jan-27	04-Feb-27	148
Metals			23	23	22-Dec-26	26-Jan-27	306
CN.3750000	Install Metal Guardrails, Settling Tank, EL 60.76	0%	5	5	22-Dec-26	29-Dec-26	163
CN.3740000	Structural Steel, Settling Tank, Elevated Decking, EL 60.76	0%	10	10	22-Dec-26	06-Jan-27	136
CN.3790000	Install Side Mounted Guard Rails, Ozone / Flock Sed Area	0%	15	15	22-Dec-26	13-Jan-27	163
CN.3760000	Install Alum Grating, Coag / Injection Tanks, EL 59.76	0%	5	5	30-Dec-26	06-Jan-27	319
CN.3780000	Structural Steel Columns, Rigid Frame, Metal Roof Decking, Settling Tank	0%	10	10	30-Dec-26	13-Jan-27	163
CN.3770000	Install Alum Grating, Pre-Ozone, EL ~59.76	0%	3	3	22-Jan-27	26-Jan-27	155
Electrical			57	57	22-Jan-27	13-Apr-27	121
Settling Tank 5			15	15	10-Mar-27	30-Mar-27	121
CN.3860000	Elec Rough-in - Scrapper Drive Unit	0%	5	5	10-Mar-27	16-Mar-27	111
CN.3870000	Pull Wire & Cable - Scrapper Drive Unit	0%	5	5	17-Mar-27	23-Mar-27	121
CN.3880000	Elec Terminations - Scrapper Drive Unit	0%	5	5	24-Mar-27	30-Mar-27	121
Maturaization Tank 5 / Coag & Injection Tank 5			20	20	22-Jan-27	19-Feb-27	148



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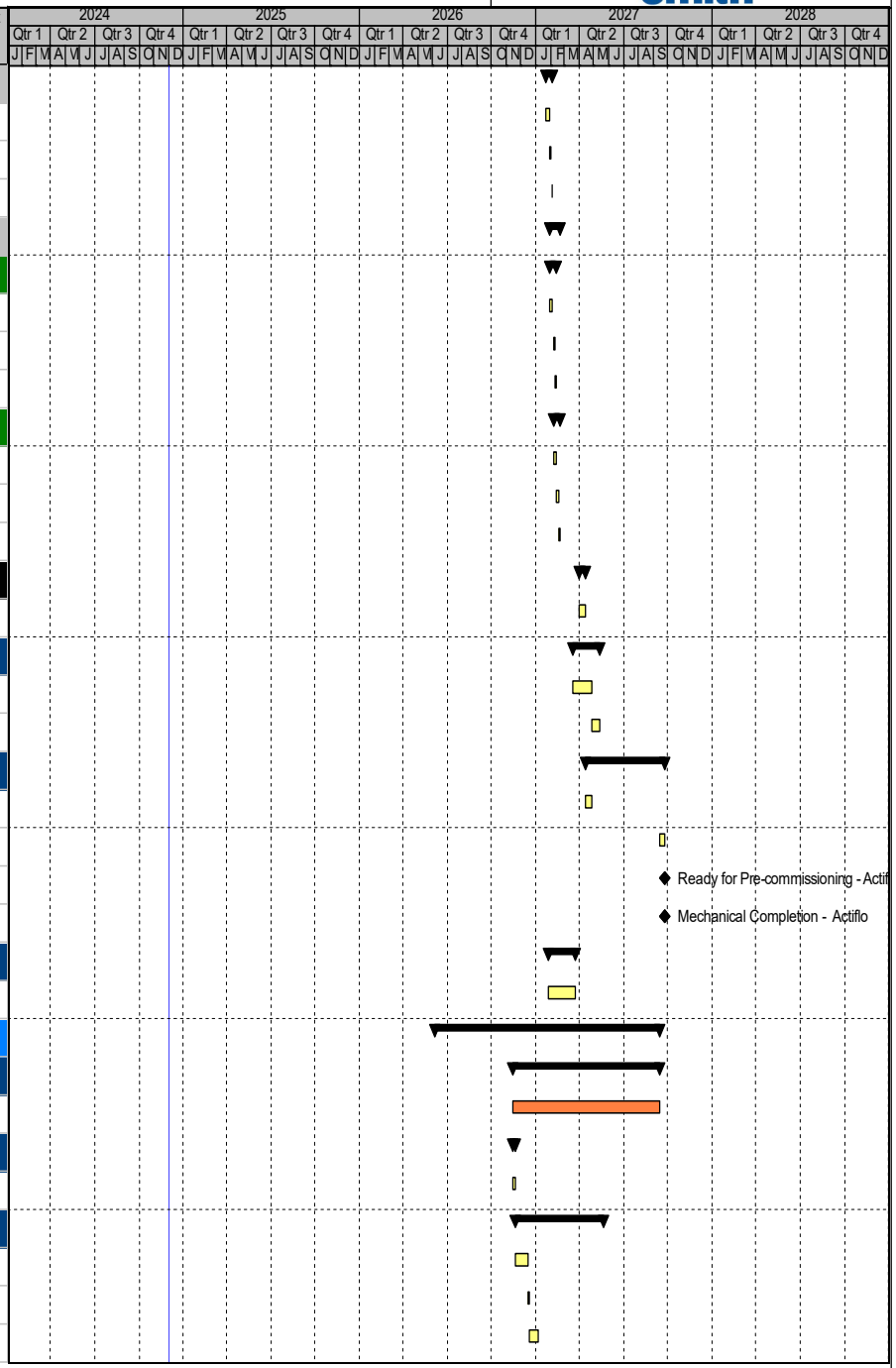
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Maturization Tank 5			10	10	22-Jan-27	04-Feb-27	158
CN.3970000	Elec Rough-in - Mixer - Maturization Tank 5	0%	5	5	22-Jan-27	28-Jan-27	158
CN.3980000	Pull Wire & Cable - Mixer - Maturization Tank 5	0%	3	3	29-Jan-27	02-Feb-27	158
CN.3990000	Elec Terminations - Mixer - Maturization Tank 5	0%	2	2	03-Feb-27	04-Feb-27	158
Coagulation & Injection Tank 5			15	15	29-Jan-27	19-Feb-27	148
Coagulation Tank 5			10	10	29-Jan-27	11-Feb-27	153
CN.4010000	Elec Rough-in - Mixer Coagulation Tank 5	0%	5	5	29-Jan-27	04-Feb-27	153
CN.4020000	Pull Wire & Cable - Mixer Coagulation Tank 5	0%	3	3	05-Feb-27	09-Feb-27	153
CN.4030000	Elec Terminations - Mixer Coagulation Tank 5	0%	2	2	10-Feb-27	11-Feb-27	153
Injection Tank 5			10	10	05-Feb-27	19-Feb-27	148
CN.4040000	Elec Rough-in - Mixer Injection Tank 5	0%	5	5	05-Feb-27	11-Feb-27	148
CN.4050000	Pull Wire & Cable - Mixer Injection Tank 5	0%	3	3	12-Feb-27	17-Feb-27	148
CN.4060000	Elec Terminations - Mixer Injection Tank 5	0%	2	2	18-Feb-27	19-Feb-27	148
Electrical Check-out			10	10	31-Mar-27	13-Apr-27	121
CN.4100000	Electrical Calibration & Checkout - Actiflo Sys	0%	10	10	31-Mar-27	13-Apr-27	121
Instrumentation & SCADA			40	40	17-Mar-27	11-May-27	111
CN.FL0-460010	Install Instrumentation - Actiflo	0%	30	30	17-Mar-27	27-Apr-27	111
CN.FL0-470010	I&C Loop Check	0%	10	10	28-Apr-27	11-May-27	111
Field Functional Testing			115	115	14-Apr-27	24-Sep-27	26
CN.FL0-500010	Contractor Completion List	0%	10	10	14-Apr-27	27-Apr-27	131
CN.FL0-480010	Functional Field Testing / Manuf Certifications - Actiflo System	0%	10	10	13-Sep-27	24-Sep-27	26
CN.FL0-490010	Ready for Pre-commissioning - Actiflo System	0%	0	0		24-Sep-27	26
CN.FL0-510010	Mechanical Completion - Actiflo	0%	0	0		24-Sep-27	26
Final Site Restoration			40	40	27-Jan-27	24-Mar-27	155
CN.FL0-520010	Final Grading, Sitework, Flatwork Restoration - Actiflo	0%	40	40	27-Jan-27	24-Mar-27	155
North Polymer Stroage Building			320	320	04-Jun-26	13-Sep-27	146
Summary			192	208	13-Nov-26	13-Sep-27	35
CN.4480000	North Polymer Storage Building (SUMMARY)	0%	192	208	13-Nov-26	13-Sep-27	35
Sitework			5	5	13-Nov-26	19-Nov-26	35
CN.FL0-1110010	Structural Excavation for Foundation - Polymer Bldg	0%	5	5	13-Nov-26	19-Nov-26	35
Concrete / Structural			123	123	20-Nov-26	19-May-27	226
CN.FL0.470110	F/R/P Concrete Foundation Footing & Cure, EL 33.30 - Polymer Bldg	0%	15	15	20-Nov-26	14-Dec-26	35
CN.FL0.490110	Backfill Footings for SoG & Underslab Rough-in - Polymer Bldg	0%	3	3	15-Dec-26	17-Dec-26	35
CN.FL0.460110	Under Slab Rough-in (Elec, Potable, Sanitary) - Polymer Bldg	0%	10	10	18-Dec-26	04-Jan-27	35



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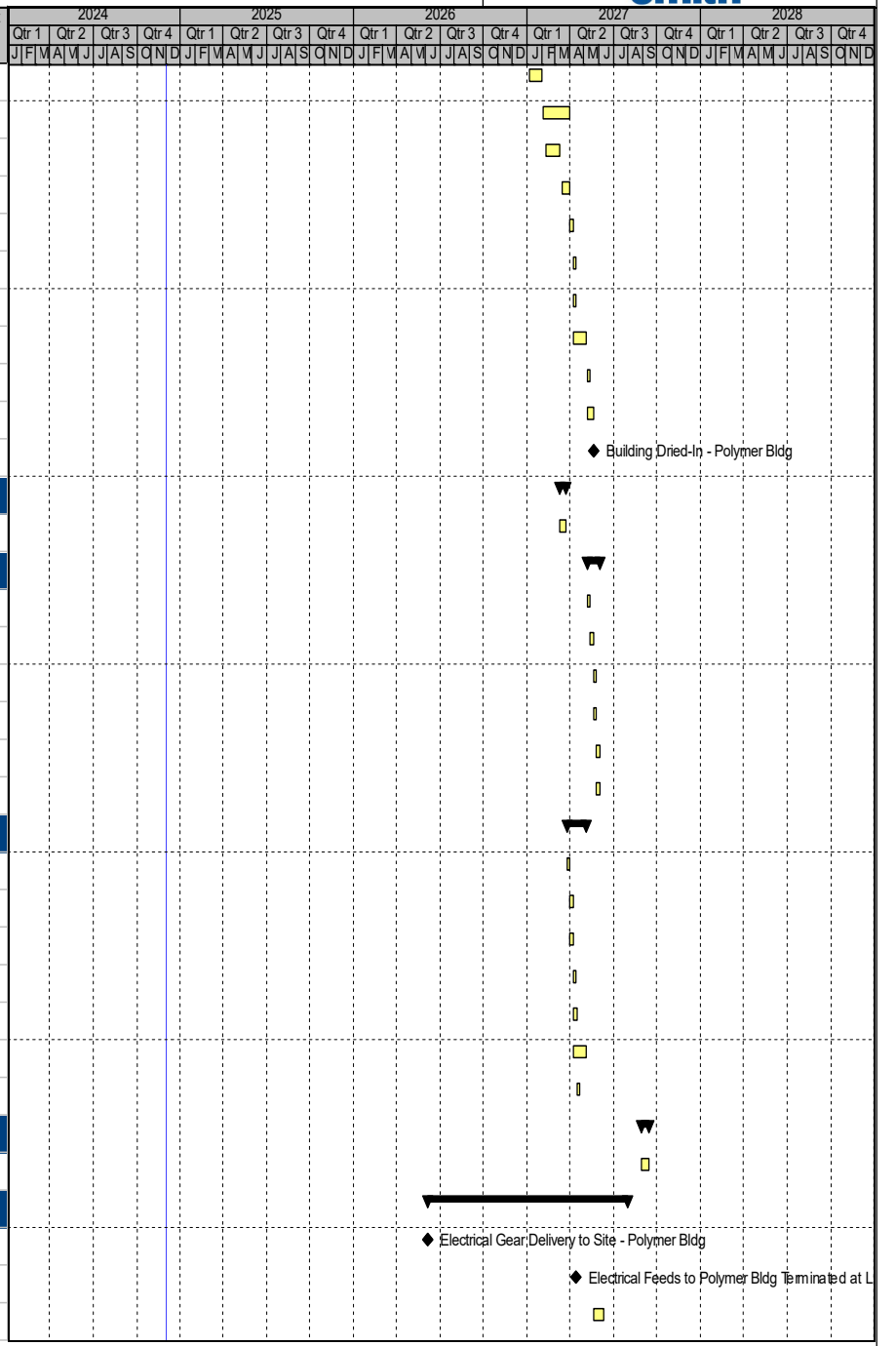
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.480110	F/R/P Concrete Slab-on-Grade & Cure, EL 35.80 - Polymer Bldg	0%	20	20	05-Jan-27	02-Feb-27	35
CN.FL0.500110	Exterior CMU Splitface Masonry - Polymer Bldg	0%	40	40	03-Feb-27	31-Mar-27	35
CN.FL0.510110	F/R/P Concrete Equipment Pads & Cure - Polymer Bldg	0%	20	20	10-Feb-27	10-Mar-27	94
CN.FL0.530110	Interior CMU Masonry Wall - Polymer Bldg	0%	12	12	16-Mar-27	31-Mar-27	35
CN.FL0.520110	Install Bar Joists & Composite Roof Decking - Polymer Bldg	0%	5	5	01-Apr-27	07-Apr-27	35
CN.FL0.640110	Prime Paint Interior Masonry Walls - Polymer Bldg	0%	5	5	08-Apr-27	14-Apr-27	65
CN.FL0.660110	Rough-in Life Saftey System - Polymer Bldg	0%	5	5	08-Apr-27	14-Apr-27	138
CN.FL0.540110	Install Roof Inslulation, Curbing, Membrane - Polymer Bldg	0%	20	20	08-Apr-27	05-May-27	35
CN.FL0.550110	Install Roof Scuppers, Downspouts, Metal Parapet Coping - Polymer Bldg	0%	5	5	06-May-27	12-May-27	231
CN.FL0.560110	Install Exterior Doors, Windows, Overhead Doors & Louvers - Polymer Bldg	0%	10	10	06-May-27	19-May-27	35
CN.FL0.570110	Building Dried-In - Polymer Bldg	0%	0	0		19-May-27	35
Metals			10	10	11-Mar-27	24-Mar-27	94
CN.FL0-1130010	Install Tank Structureal Steel Stairs, Platform & Handrails - Polymer Bldg	0%	10	10	11-Mar-27	24-Mar-27	94
HVAC			20	20	06-May-27	03-Jun-27	100
CN.FL0.580110	HVAC Roof RTU - Polymer Bldg	0%	5	5	06-May-27	12-May-27	40
CN.FL0.590110	HVAC Roof Exaust Fans - Polymer Bldg	0%	5	5	13-May-27	19-May-27	40
CN.FL0.600110	HVAC Install Exterior Condensor Units, Elec Rm - Polymer Bldg	0%	5	5	20-May-27	26-May-27	35
CN.FL0.610110	HVAC Ductwork - Polymer Bldg	0%	5	5	20-May-27	26-May-27	40
CN.FL0.700110	HVAC Temp Condition Elec Room - Polymer Bldg	0%	5	5	27-May-27	03-Jun-27	35
CN.FL0.620110	HVAC Ductwork, Elec Rm - Polymer Bldg	0%	5	5	27-May-27	03-Jun-27	100
Mechanical / Plumbing			29	29	25-Mar-27	04-May-27	101
CN.FL0-1260010	Set & Level Tanks 5&6	0%	5	5	25-Mar-27	31-Mar-27	94
CN.FL0-1270010	Set & Install Filter, Polymer & Transfer Pumps (6)	0%	6	6	01-Apr-27	08-Apr-27	94
CN.FL0-1290010	Process Piping, Tanks 5&6	0%	6	6	01-Apr-27	08-Apr-27	119
CN.FL0.670110	Rough-in Plumbing Roof Drains	0%	5	5	08-Apr-27	14-Apr-27	100
CN.FL0-1280010	St & Level Air Compressor Sys	0%	5	5	09-Apr-27	15-Apr-27	111
CN.FL0-1300010	Process Piping, Filter Polymenr Pumps (6)	0%	18	18	09-Apr-27	04-May-27	94
CN.FL0-1310010	Air Compressor Piping	0%	3	3	16-Apr-27	20-Apr-27	111
Coatings			10	10	30-Aug-27	13-Sep-27	35
CN.FL0-1170010	Coatings - Ozone Generator	0%	10	10	30-Aug-27	13-Sep-27	35
Electrical			290	290	04-Jun-26	30-Jul-27	65
CN.FL0-1210010	Electrical Gear Delivery to Site - Polymer Bldg	0%	0	0		04-Jun-26	285
CN.FL0.690110	Electrical Feeds to Polymer Bldg Terminated at LCP - Polymer Sys	0%	0	0		14-Apr-27	100
CN.FL0.650110	Electrical Rough-in, LV Lighting, Outlets, Switches - Polymer Bldg	0%	15	15	20-May-27	10-Jun-27	100



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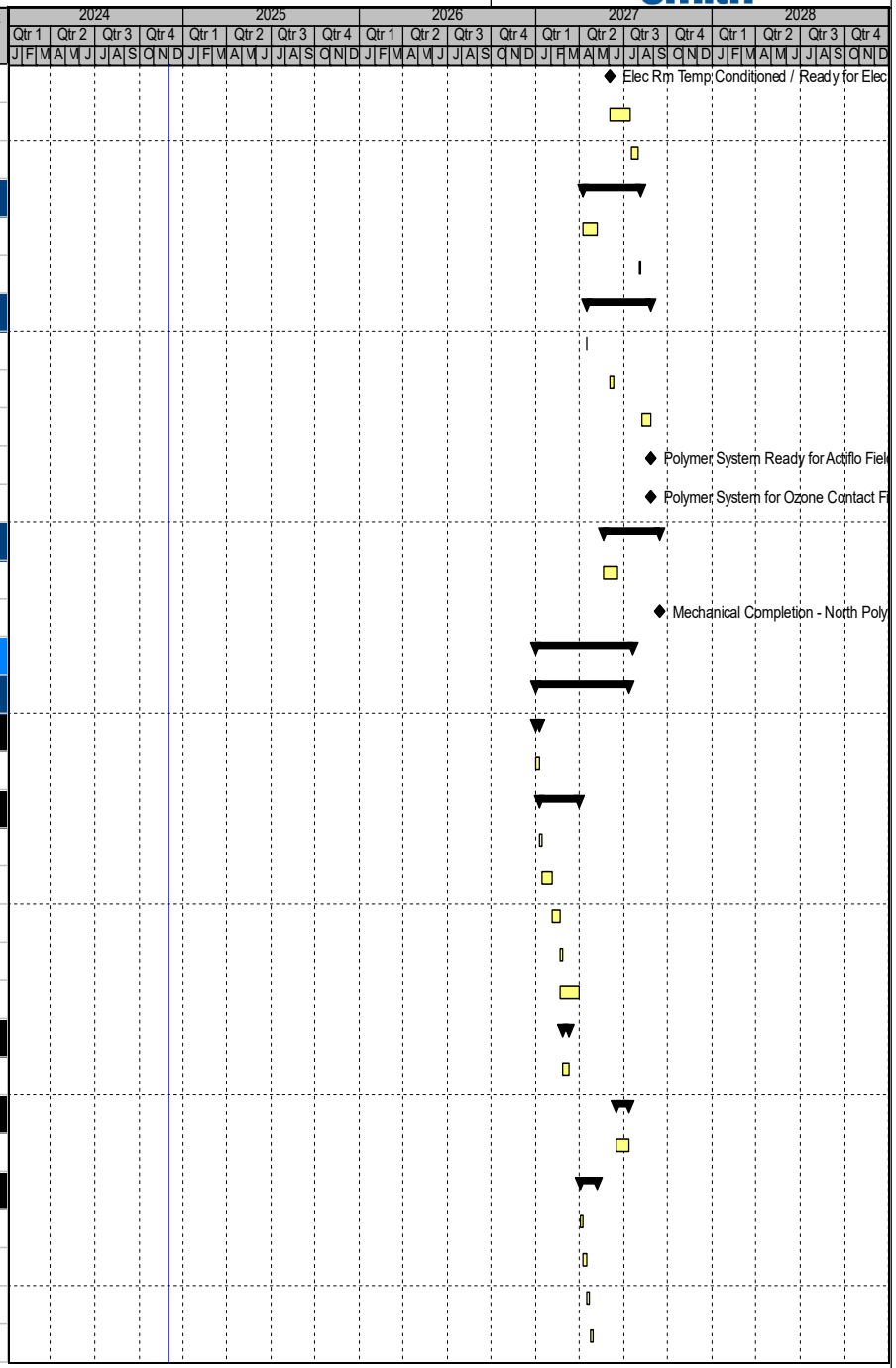
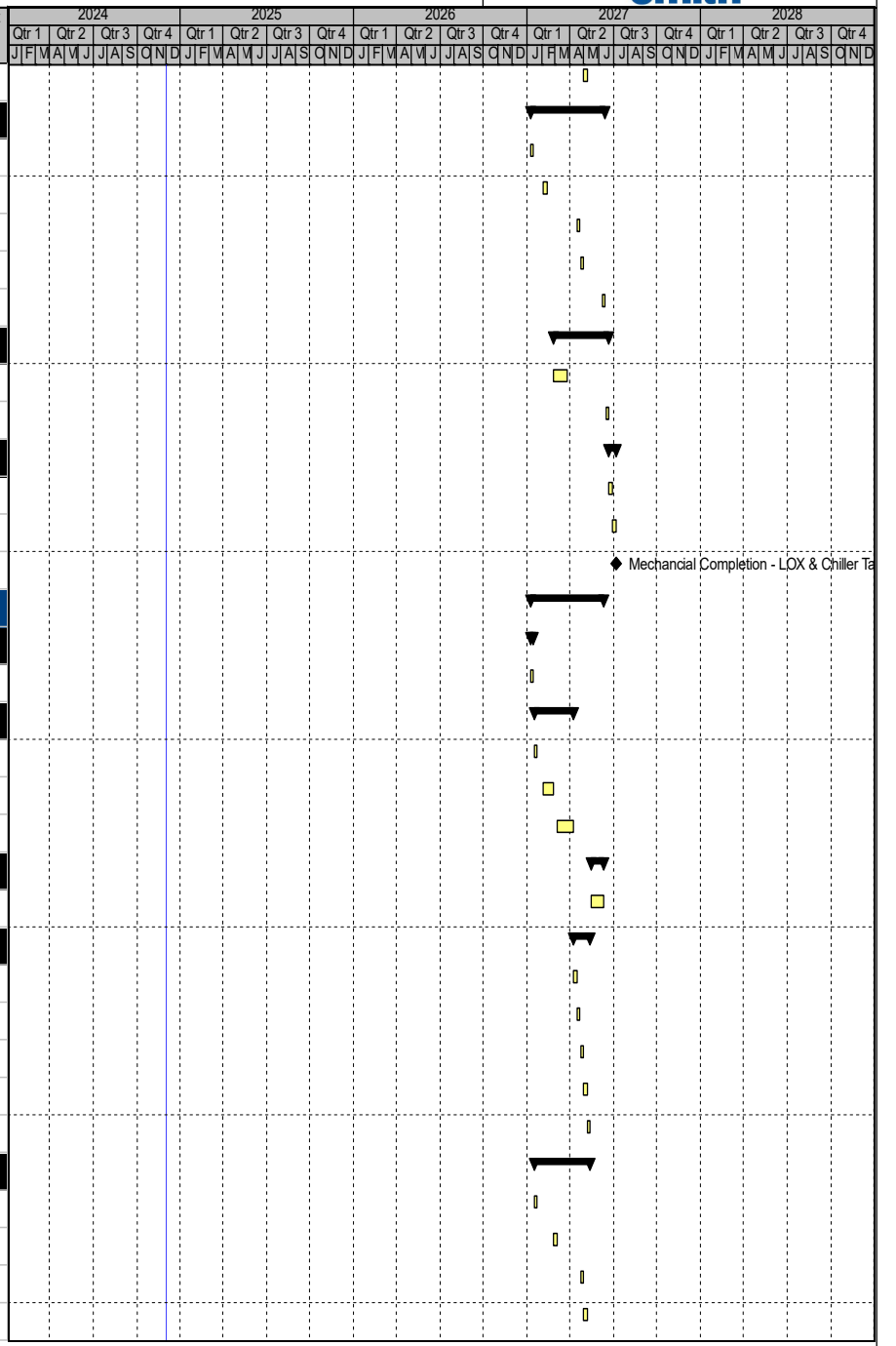
CN.FL0.630110	Elec Rm Temp Conditioned / Ready for Elec Gear Install - Polymer Bldg	0%	0	0		03-Jun-27	35
CN.FL0.680110	Install Electrical Rm Gear & Electrical Terminations - Polymer Bldg	0%	30	30	04-Jun-27	16-Jul-27	35
CN.FL0-1230010	Electrical Field Testing, Calibration & Checkout - Polymer Bldg	0%	10	10	19-Jul-27	30-Jul-27	35
Instrumentation			84	84	09-Apr-27	06-Aug-27	35
CN.FL0-1140010	Instrumentation - Polymer Sys	0%	20	20	09-Apr-27	06-May-27	94
CN.FL0-1240010	I&C Loop Check - Polymer Sys	0%	5	5	02-Aug-27	06-Aug-27	35
Field Functional Testing			95	95	15-Apr-27	27-Aug-27	45
CN.FL0-1220010	Functional Field Testing - Life Safety System	0%	2	2	15-Apr-27	16-Apr-27	138
CN.FL0-1250010	HVAC Test & Balance	0%	5	5	04-Jun-27	10-Jun-27	100
CN.FL0-1150010	Functional Field Testing - Polymer System	0%	15	15	09-Aug-27	27-Aug-27	35
CN.FL0-1200010	Polymer System Ready for Actiflo Field Testing	0%	0	0		27-Aug-27	35
CN.FL0-1160010	Polymer System for Ozone Contact Field Testing	0%	0	0		27-Aug-27	45
Final Site Restoration			80	80	20-May-27	13-Sep-27	35
CN.FL0-1190010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	20	20	20-May-27	17-Jun-27	95
CN.FL0-1180010	Mechanical Completion - North Polymer Storage Building	0%	0	0		13-Sep-27	35
Liquid Oxygen Building & Chiller Pad			139	139	31-Dec-26	20-Jul-27	184
LOX Tank 5 & Vaporizer 7&8			134	134	31-Dec-26	13-Jul-27	189
Sitework			5	5	31-Dec-26	07-Jan-27	79
CN.FL0-910010	Structural Excavation for Foundation - Liquid Oxygen Blg & Chiller Pad	0%	5	5	31-Dec-26	07-Jan-27	79
Concrete / Structural			58	58	08-Jan-27	01-Apr-27	109
CN.FL0.40110	Under Slab Rough-in - LOX	0%	3	3	08-Jan-27	12-Jan-27	79
CN.FL0.60110	F/R/P Concrete Slab-on-Grade & Cure, EL 38.00 - LOX	0%	15	15	13-Jan-27	03-Feb-27	79
CN.FL0.100110	F/R/P Concrete Walls, EL 40.50	0%	10	10	04-Feb-27	18-Feb-27	99
CN.FL0.110110	F/R/P Stair Foundation Pads	0%	5	5	19-Feb-27	25-Feb-27	134
CN.FL0.90110	F/R/P Concrete Equipment LOX Tank 5 Pads & Cure - LOX	0%	30	30	19-Feb-27	01-Apr-27	99
Metals			10	10	26-Feb-27	11-Mar-27	134
CN.FL0-930010	Install Ships Ladder (2) - LOX	0%	10	10	26-Feb-27	11-Mar-27	134
Coatings			20	20	15-Jun-27	13-Jul-27	189
CN.FL0-970010	Coatings - LOX	0%	20	20	15-Jun-27	13-Jul-27	189
Mechanical / Plumbing			25	25	02-Apr-27	06-May-27	134
CN.FL0.250110	Set & Level LOX Tank 5	0%	5	5	02-Apr-27	08-Apr-27	99
CN.FL0.280110	Set & Level Vaporizer 7&8	0%	5	5	09-Apr-27	15-Apr-27	99
CN.FL0.290110	Install Process Piping b/n LOX & Vaporizer 7&8	0%	5	5	16-Apr-27	22-Apr-27	134
CN.FL0.300110	Install Process Piping at Vaporizer	0%	5	5	23-Apr-27	29-Apr-27	134



Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.310110	Install & Tie-in 4" OX-SS Interconnect Piping	0%	5	5	30-Apr-27	06-May-27	134
Electrical			109	109	08-Jan-27	14-Jun-27	73
CN.FL0.230110	Electrical Rough-in - LOX	0%	5	5	08-Jan-27	14-Jan-27	162
CN.FL0.270110	Electrical Ductbank to Ozone Generator	0%	5	5	04-Feb-27	10-Feb-27	139
CN.FL0.240110	Electrical Pull Wire & Cable - LOX	0%	5	5	16-Apr-27	22-Apr-27	99
CN.FL0.260110	Terminate Electrical - LOX	0%	5	5	23-Apr-27	29-Apr-27	99
CN.FL0-103001	Electrical Field Testing, Calibration & Checkout - LOX	0%	5	5	08-Jun-27	14-Jun-27	73
Instrumentation & SCADA			81	81	26-Feb-27	21-Jun-27	73
CN.FL0-940010	Instrumentation - LOX	0%	20	20	26-Feb-27	25-Mar-27	134
CN.FL0-104001	I&C Loop Check - LOX	0%	5	5	15-Jun-27	21-Jun-27	73
Field Testing / Precommissioning - LOX Sys			10	10	22-Jun-27	06-Jul-27	103
CN.4420000	Field Testing - LOX & Chiller Tank	0%	5	5	22-Jun-27	28-Jun-27	103
CN.4430000	Precommisisoning - LOX & Chiller Tank	0%	5	5	29-Jun-27	06-Jul-27	103
CN.4440000	Mechancial Completion - LOX & Chiller Tank	0%	0	0		06-Jul-27	103
Chilled Water Tank and Chiller 7&8			108	108	08-Jan-27	11-Jun-27	210
Sitework			5	5	08-Jan-27	14-Jan-27	89
CN.FL0-105001	Structural Excavation for Foundation - Chilled Water Tank & Chillers 7&8	0%	5	5	08-Jan-27	14-Jan-27	89
Concrete / Structural			58	58	15-Jan-27	08-Apr-27	79
CN.FL0.320110	Under Slab Rough-in - Chilled Water Tank & Chillers 7&8	0%	3	3	15-Jan-27	20-Jan-27	89
CN.FL0.330110	F/R/P Concrete Slab-on-Grade & Cure - Chilled Water Tank & Chillers 7&8	0%	15	15	04-Feb-27	25-Feb-27	79
CN.FL0.340110	F/R/P Concrete Equipment Pads at Chilled Water Tank & Chillers	0%	25	25	05-Mar-27	08-Apr-27	79
Coatings			20	20	14-May-27	11-Jun-27	210
CN.FL0-108001	Coatings - Chilled Water Tank & Chillers 7&8	0%	20	20	14-May-27	11-Jun-27	210
Mechanical / Plumbing			25	25	09-Apr-27	13-May-27	89
CN.FL0.370110	Set & Level Chilled Water Tank	0%	5	5	09-Apr-27	15-Apr-27	79
CN.FL0.420110	Set & Level Chillers 7&8	0%	5	5	16-Apr-27	22-Apr-27	79
CN.FL0.430110	Install Process Piping b/n Chillers & Chilled Water Tank	0%	5	5	23-Apr-27	29-Apr-27	79
CN.FL0.440110	Install Process Piping at Chilled Water Tank	0%	5	5	30-Apr-27	06-May-27	79
CN.FL0.450110	Install & Tie-in 4" Interconnect Piping at Chilled Water Tank	0%	5	5	07-May-27	13-May-27	89
Electrical			83	83	15-Jan-27	13-May-27	84
CN.FL0.350110	Electrical Rough-in - Chilled Water Tank & Chillers 7&8	0%	5	5	15-Jan-27	22-Jan-27	147
CN.FL0.390110	Electrical Ductbank to Ozone Generator	0%	5	5	26-Feb-27	04-Mar-27	129
CN.FL0.360110	Electrical Pull Wire & Cable - Chilled Water Tank & Chillers 7&8	0%	5	5	23-Apr-27	29-Apr-27	84
CN.FL0.380110	Terminate Electrical - Chilled Water Tank & Chillers 7&8	0%	5	5	30-Apr-27	06-May-27	84



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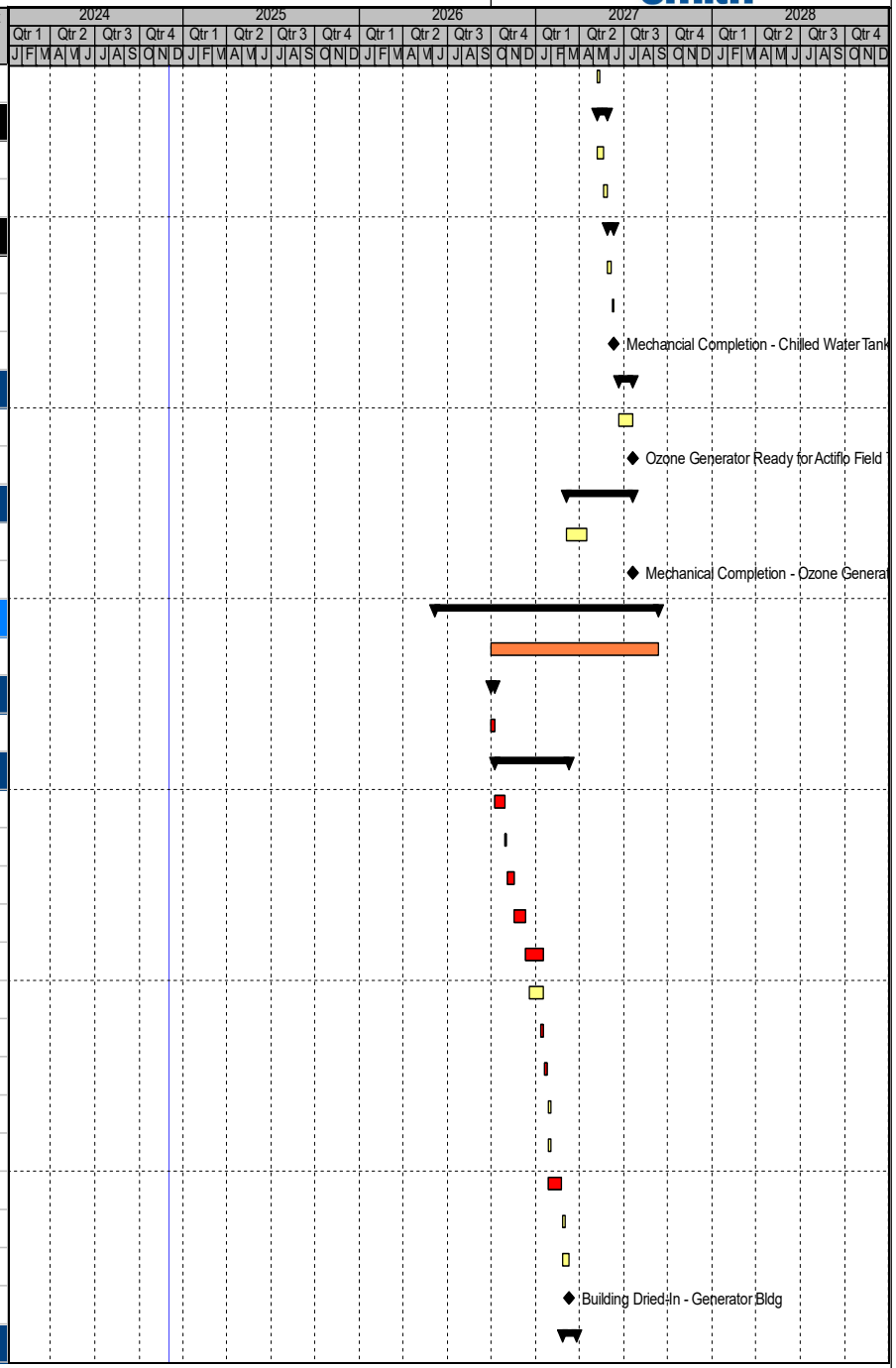
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-109001	Electrical Field Testing, Calibration & Checkout - Chilled Water Tank & Chillers 7&8	0%	5	5	07-May-27	13-May-27	84
Instrumentation & SCADA			15	15	07-May-27	27-May-27	79
CN.FL0-107001	Instrumentation - Chilled Water Tank & Chillers 7&8	0%	10	10	07-May-27	20-May-27	79
CN.FL0-110001	I&C Loop Check - Chilled Water Tank & Chillers 7&8	0%	5	5	21-May-27	27-May-27	79
Field Testing / Precommissioning - CWT & Chiller 7&8			10	10	28-May-27	11-Jun-27	79
CN.4450000	Field Testing - Chilled Water Tank & Chillers 7&8	0%	5	5	28-May-27	04-Jun-27	79
CN.4460000	Precommisisoning - Chilled Water Tank & Chillers 7&8	0%	5	5	07-Jun-27	11-Jun-27	79
CN.4470000	Mechancial Completion - Chilled Water Tank & Chillers 7&8	0%	0	0		11-Jun-27	79
Precommissioning - LOX & Chillers 7&8			20	20	22-Jun-27	20-Jul-27	73
CN.FL0-950010	Functional Field Testing - Ozone Generator System	0%	20	20	22-Jun-27	20-Jul-27	73
CN.FL0-1000010	Ozone Generator Ready for Actiflo Field Testing	0%	0	0		20-Jul-27	73
Final Site Restoration			96	96	05-Mar-27	20-Jul-27	93
CN.FL0-990010	Final Grading, Sitework, Site Electric, Flatwork Restoration - LOX & Chillers 7&8	0%	30	30	05-Mar-27	15-Apr-27	159
CN.FL0-980010	Mechanical Completion - Ozone Generator Sys (LOX & Chillers)	0%	0	0		20-Jul-27	93
Ozone Generator Building			319	319	04-Jun-26	10-Sep-27	147
CN.710000	Construct Ozone Generator (SUMMARY)	0%	235	237	30-Sep-26	10-Sep-27	46
Sitework			5	5	30-Sep-26	06-Oct-26	0
CN.FL0-280010	Structural Excavation for Foundation - Ozone Generator	0%	5	5	30-Sep-26	06-Oct-26	0
Concrete / Structural			102	102	07-Oct-26	09-Mar-27	277
CN.FL0.10000	F/R/P Concrete Foundation Footing & Cure, EL 30.5	0%	15	15	07-Oct-26	28-Oct-26	0
CN.FL0.10020	Backfill Footings for SoG & Underslab Rough-in	0%	2	2	29-Oct-26	30-Oct-26	0
CN.FL0.10120	Under Slab Rough-in (Elec, Potable, Sanitary) Ozone Generator	0%	10	10	02-Nov-26	16-Nov-26	0
CN.FL0.10130	F/R/P Concrete Slab-on-Grade & Cure, EL 34.5	0%	15	15	17-Nov-26	09-Dec-26	0
CN.FL0.10140	Exterior CMU Splitface Masonry	0%	25	25	10-Dec-26	15-Jan-27	0
CN.FL0.10160	F/R/P Concrete Equipment Pads & Cure	0%	20	20	17-Dec-26	15-Jan-27	312
CN.FL0.10150	Interior CMU Masonry Wall	0%	5	5	11-Jan-27	15-Jan-27	0
CN.FL0.10170	Install Bar Joists & Composite Roof Decking	0%	5	5	19-Jan-27	25-Jan-27	0
CN.FL0.10190	Prime Paint Interior Masonry Walls	0%	5	5	26-Jan-27	01-Feb-27	93
CN.FL0.20090	Rough-in Life Saftey System	0%	5	5	26-Jan-27	01-Feb-27	153
CN.FL0.10180	Install Roof Inslulation, Curbing, Membrane	0%	20	20	26-Jan-27	23-Feb-27	0
CN.FL0.10105	Install Roof Scuppers, Downspouts, Metal Parapet Coping	0%	5	5	24-Feb-27	02-Mar-27	282
CN.FL0.10030	Install Exterior Doors, Windows, Overhead Doors & Louvers	0%	10	10	24-Feb-27	09-Mar-27	106
CN.FL0.10040	Building Dried-In - Generator Bldg	0%	0	0		09-Mar-27	106
HVAC			23	23	24-Feb-27	26-Mar-27	103



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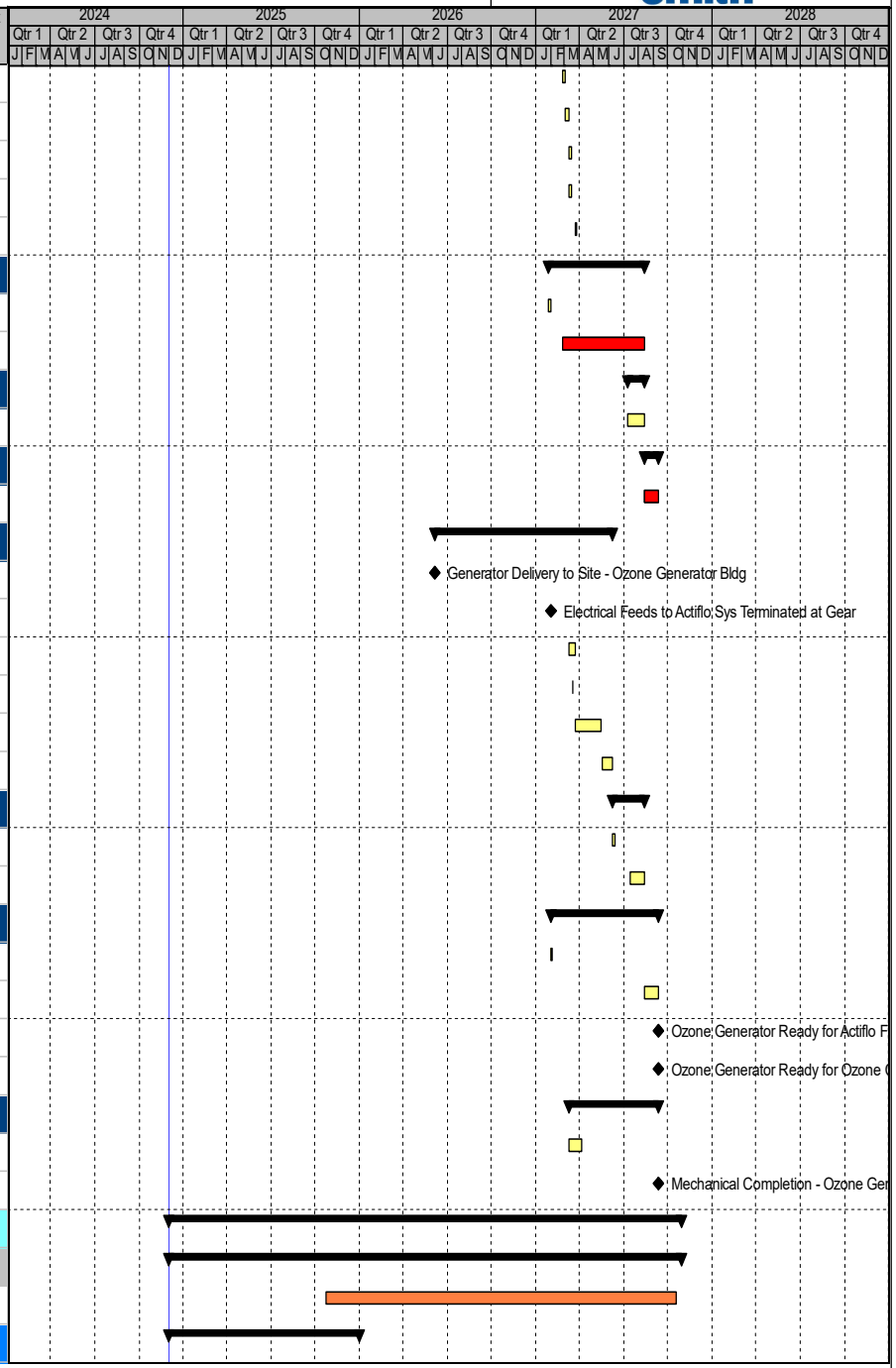
CN.FL0.10050	HVAC Roof RTU, Generator Rm	0%	5	5	24-Feb-27	02-Mar-27	68
CN.FL0.10060	HVAC Roof Exaust Fans, Generator Rm	0%	5	5	03-Mar-27	09-Mar-27	68
CN.FL0.10080	HVAC Ductwork, Generator Rm	0%	5	5	10-Mar-27	16-Mar-27	68
CN.FL0.10070	HVAC Install Exterior Condensor Units, Elec Rm	0%	5	5	10-Mar-27	16-Mar-27	106
CN.FL0.10090	HVAC Ductwork, Elec Rm	0%	5	5	22-Mar-27	26-Mar-27	103
Mechanical / Plumbing			140	140	26-Jan-27	12-Aug-27	6
CN.FL0.30090	Rough-in Plumbing Roof Drains	0%	5	5	26-Jan-27	01-Feb-27	141
CN.FL0-300010	Balance of Plant (M-E-P) - Ozone Generator	0%	120	120	24-Feb-27	12-Aug-27	0
Metals			25	25	09-Jul-27	12-Aug-27	20
CN.FL0-310010	Metals	0%	25	25	09-Jul-27	12-Aug-27	20
Coatings			20	20	13-Aug-27	10-Sep-27	0
CN.FL0-360010	Coatings - Ozone Generator	0%	20	20	13-Aug-27	10-Sep-27	0
Electrical			252	252	04-Jun-26	07-Jun-27	214
CN.FL0-400010	Generator Delivery to Site - Ozone Generator Bldg	0%	0	0		04-Jun-26	239
CN.FL0.30110	Electrical Feeds to Actiflo Sys Terminated at Gear	0%	0	0		01-Feb-27	141
CN.FL0.10110	Electrical Rough-in, LV Lighting, Outlets, Switches	0%	10	10	10-Mar-27	23-Mar-27	267
CN.FL0.10100	Elec Rm Temp Conditioned / Ready for Elec Gear Install	0%	3	3	17-Mar-27	19-Mar-27	68
CN.FL0.20110	Install Electrical Gear - Ozone Generator	0%	40	40	22-Mar-27	14-May-27	68
CN.FL0-410010	Electrical Load Test, Calibration & Checkout - Ozone Generator	0%	15	15	17-May-27	07-Jun-27	68
Instrumentation & SCADA			47	47	08-Jun-27	12-Aug-27	26
CN.FL0-420010	I&C Loop Check - Ozone Generator	0%	5	5	08-Jun-27	14-Jun-27	68
CN.FL0-320010	Instrumentation - Ozone Generator	0%	20	20	16-Jul-27	12-Aug-27	26
Field Functional Testing			155	155	02-Feb-27	10-Sep-27	36
CN.FL0-390010	Functional Field Testing - Life Safety System	0%	2	2	02-Feb-27	03-Feb-27	153
CN.FL0-340010	Functional Field Testing - Ozone Generator	0%	20	20	13-Aug-27	10-Sep-27	26
CN.FL0-540010	Ozone Generator Ready for Actiflo Field Testing	0%	0	0		10-Sep-27	26
CN.FL0-350010	Ozone Generator Ready for Ozone Contact Field Testing	0%	0	0		10-Sep-27	36
Final Site Restoration			130	130	10-Mar-27	10-Sep-27	0
CN.FL0-380010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	20	20	10-Mar-27	06-Apr-27	110
CN.FL0-370010	Mechanical Completion - Ozone Generator	0%	0	0		10-Sep-27	0
South Filter Area			729	729	02-Dec-24	29-Oct-27	113
Filters 16-17-18			729	729	02-Dec-24	29-Oct-27	113
CN.730000	Construct Filters (SUMMARY)	0%	363	495	23-Oct-25	18-Oct-27	0
Site Civil			270	270	02-Dec-24	31-Dec-25	572



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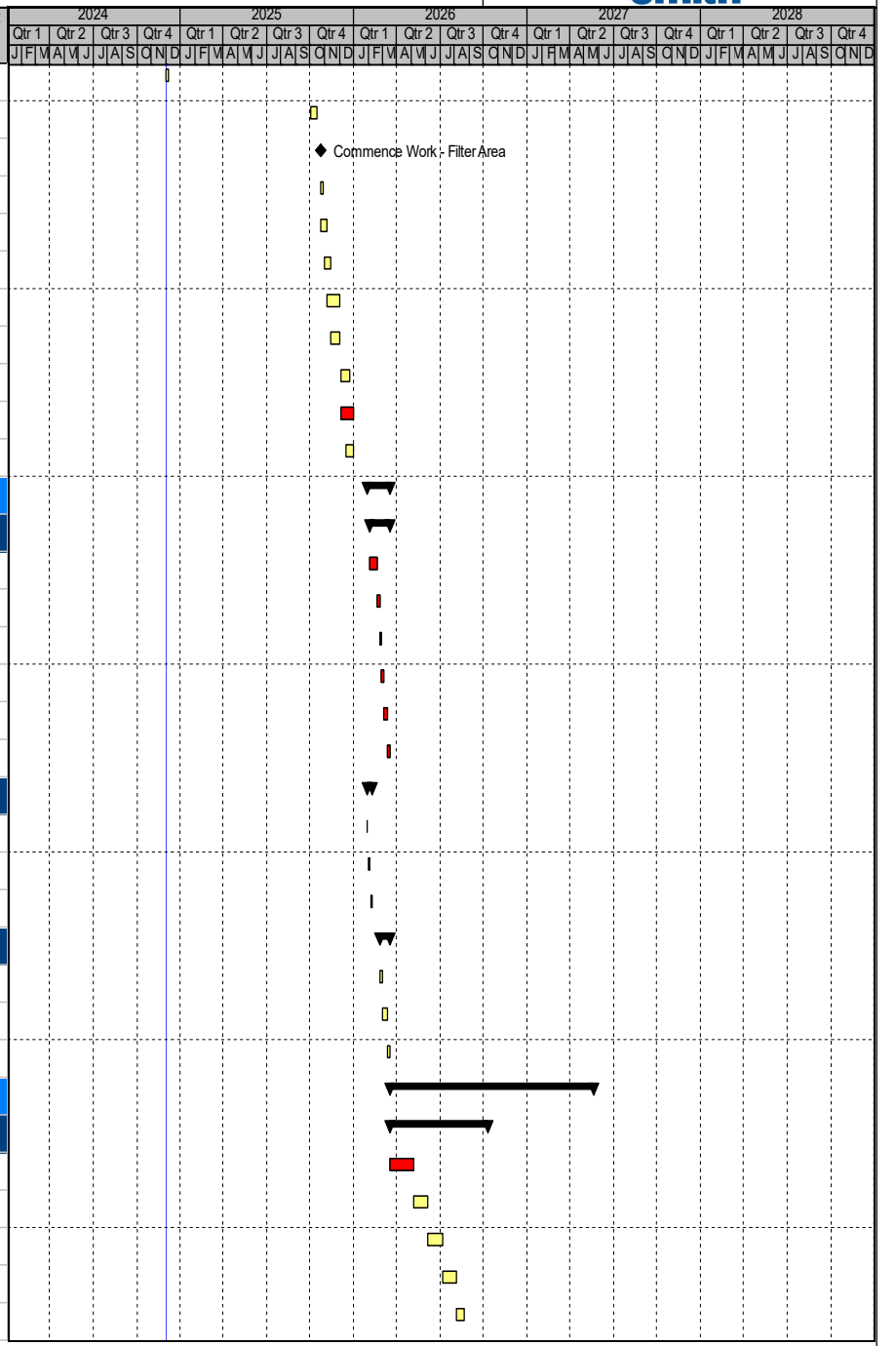
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.2290000	Excavation for Load Transfer Platform - Filter Area	0%	5	5	02-Dec-24	06-Dec-24	296
CN.1900000	Establish Dewatering Ring - Filter Area	0%	10	10	01-Oct-25	15-Oct-25	32
CN.4520000	Commence Work - Filter Area	0%	0	0	23-Oct-25		2
CN.4070000	Utility Locates - Filter Area	0%	5	5	23-Oct-25	29-Oct-25	2
CN.2310000	Clear & Grub, RI Pile EL - Filter Area	0%	10	10	23-Oct-25	05-Nov-25	2
CN.4080000	Utility Relocations / Disconnect Elec Pole(s) - Filter Area	0%	10	10	30-Oct-25	13-Nov-25	2
CN.4550000	Dewatering Instalation for Filter Gallery Excavation / Drawdown	0%	15	15	06-Nov-25	01-Dec-25	2
CN.4090000	Structural Fill & Prep for SOG - FIlter Area	0%	10	10	14-Nov-25	01-Dec-25	2
CN.1920000	Shoring at Pipe Gallery Area	0%	15	15	04-Dec-25	24-Dec-25	3
CN.1910000	Excavation Filter Pipe Gallery Bot EL 21.10	0%	18	18	04-Dec-25	31-Dec-25	0
CN.1910010	Construct Temp Ramp for Gallary Excavation Access	0%	10	10	16-Dec-25	31-Dec-25	572
Underground Piping			35	35	28-Jan-26	18-Mar-26	41
Pipe Gallery			30	30	04-Feb-26	18-Mar-26	0
CN.1930000	Install U/G YP 48"Piping, Tee and 30" Piping to Ground Level	0%	10	10	04-Feb-26	18-Feb-26	0
CN.1960000	Pipe Encasement 48"Pipe	0%	3	3	19-Feb-26	23-Feb-26	0
CN.1940000	Install 16"Piping, Tee, and 16"Pipe to Ground Level	0%	3	3	24-Feb-26	26-Feb-26	0
CN.1950000	Install 6"Piping, Tee, and 6"Pipe to Ground Level	0%	3	3	27-Feb-26	03-Mar-26	0
CN.2780000	Pipe Encasement 6" Piping	0%	6	6	04-Mar-26	11-Mar-26	0
CN.4570000	Final Backfill & Prep for Gallary SoG, EL 31.60	0%	5	5	12-Mar-26	18-Mar-26	0
Filters 16-18			9	9	28-Jan-26	09-Feb-26	26
CN.4830000	Install Underslab FIlter Drain - Filter 16	0%	3	3	28-Jan-26	30-Jan-26	26
CN.4840000	Install Underslab FIlter Drain - Filter 17	0%	3	3	02-Feb-26	04-Feb-26	26
CN.4850000	Install Underslab FIlter Drain - Filter 18	0%	3	3	05-Feb-26	09-Feb-26	26
Waste Backwash Water Channel			17	17	24-Feb-26	18-Mar-26	41
CN.1970000	Excavation Waste Backwash Channel, Bot EL 24.00	0%	5	5	24-Feb-26	02-Mar-26	41
CN.1980000	Install U/G YP 54" Piping and Bend & Backfill	0%	7	7	03-Mar-26	11-Mar-26	41
CN.1990000	Pipe Encasement 54" to Ground Level	0%	5	5	12-Mar-26	18-Mar-26	41
Concrete			295	295	19-Mar-26	20-May-27	6
Pipe Gallery			144	144	19-Mar-26	09-Oct-26	42
CN.2000000	F/R/P Concrete Foundation, Filter Gallery 16 - 18 EL@ 31.6	0%	35	35	19-Mar-26	06-May-26	0
CN.2020000	Extension - F/R/P Concrete Foundation, Filter 16 - 18 EL@ 31.6	0%	20	20	07-May-26	04-Jun-26	42
CN.2040000	F/R/P Columns , Filter 16 - 18 EL@ 50.35	0%	21	21	05-Jun-26	06-Jul-26	42
CN.2050000	F/R/P Tie-Beam , Filter 16 - 18 EL@ 50.35	0%	21	21	07-Jul-26	04-Aug-26	42
CN.2130000	F/R/P Wall , Filtered Water Control Structure EL@ 31.7	0%	12	12	05-Aug-26	20-Aug-26	42



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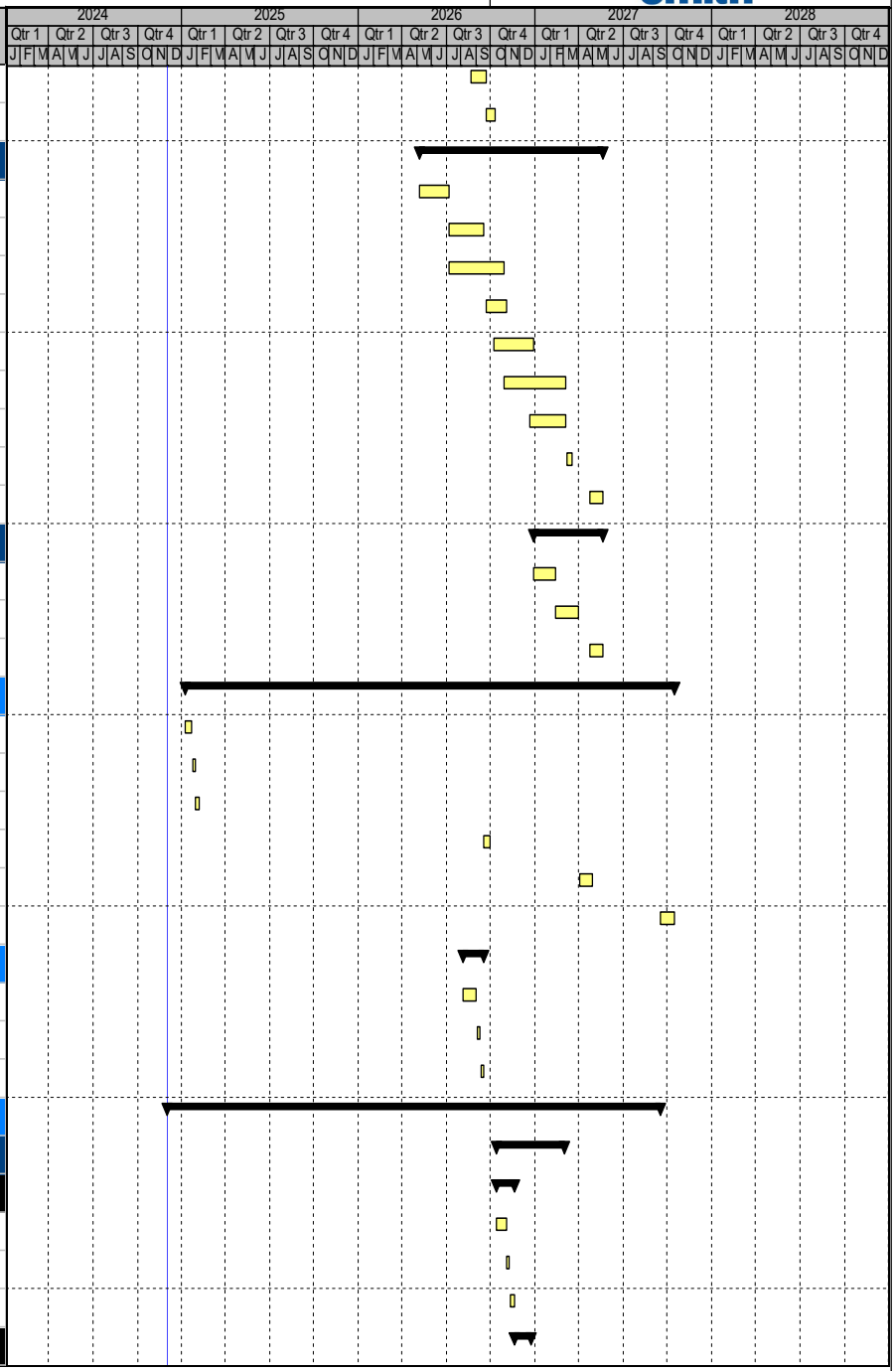
CN.2140000	F/R/P Wall, Filtered Water Control Structure EL@ 31.7	0%	21	21	21-Aug-26	21-Sep-26	42
CN.2150000	F/R/P Slab, Filtered Water Control Structure EL@ 39.68	0%	14	14	22-Sep-26	09-Oct-26	42
Filter			260	260	07-May-26	20-May-27	6
CN.2030000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 34.10	0%	42	42	07-May-26	07-Jul-26	6
CN.2060000	F/R/P Wall , Filter 16 - 18 EL@ 50.35 - West Side	0%	50	50	08-Jul-26	16-Sep-26	59
CN.2080000	F/R/P Wall , Filter 16 - 18 - Separating Filters (4 no.s 2 interior two exterior)	0%	80	80	08-Jul-26	29-Oct-26	6
CN.2090000	F/R/P Wall , Filter 16 - 18 - 8" - Baffle Wall	0%	30	30	23-Sep-26	04-Nov-26	6
CN.2100000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 39.77	0%	54	54	07-Oct-26	28-Dec-26	6
CN.2110000	F/R/P Wall , Filter 16 - 18 - Elevated Trough Walls @46.82	0%	84	84	30-Oct-26	05-Mar-27	18
CN.2110005	F/R/P Wall , Filter 16 - 18 EL@ 52.1 - East Side	0%	50	50	22-Dec-26	05-Mar-27	18
CN.2120005	Final Concrete Cure & Finishing / Prep for Leakage Testing	0%	10	10	08-Mar-27	19-Mar-27	30
CN.2160000	Concrete Tank Water Tightness Test & Drainage of Water Filer Basins 16-18	0%	20	20	23-Apr-27	20-May-27	6
Backwash Water Channel			100	100	29-Dec-26	20-May-27	6
CN.2120000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 43.10	0%	30	30	29-Dec-26	10-Feb-27	6
CN.2070000	F/R/P Wall , Backwash Water Channel EL@ 52.10	0%	35	35	11-Feb-27	01-Apr-27	6
CN.2170000	Concrete Tank Water Tightness Test - Backwash Water Channel	0%	20	20	23-Apr-27	20-May-27	6
Structural / Metals			694	694	08-Jan-25	15-Oct-27	16
CN.2540000	Install of Structural Columns @ 63 - 20 nos @ 50.35	0%	10	10	08-Jan-25	22-Jan-25	655
CN.2570000	Install Structrual Steel Columns for North Filter Staircase	0%	5	5	23-Jan-25	29-Jan-25	655
CN.2580000	Install Filter North Staircase & Handrails	0%	5	5	30-Jan-25	05-Feb-25	655
CN.2560000	Install Tie Beam (W12x40) at Pipe Gallery Structure	0%	10	10	17-Sep-26	30-Sep-26	181
CN.2590000	Install Handrails at Walkway at Filter Basins	0%	20	20	02-Apr-27	29-Apr-27	118
CN.2550000	Install Filter Canopy Structural Steel & Roofing	0%	20	20	17-Sep-27	15-Oct-27	16
Masonary			30	30	05-Aug-26	16-Sep-26	181
CN.2600000	Install CMU Split Face Masonary - Gallery Side	0%	20	20	05-Aug-26	01-Sep-26	181
CN.2610000	Install CMU Split Face Masonary - Gallery (South Side)	0%	5	5	02-Sep-26	09-Sep-26	181
CN.2620000	Install CMU Split Face Masonary - North Side	0%	5	5	10-Sep-26	16-Sep-26	181
Mechanical			699	699	02-Dec-24	16-Sep-27	6
Pipe Gallery			95	95	13-Oct-26	03-Mar-27	42
Gallary Piping			27	27	13-Oct-26	19-Nov-26	42
CN.2790000	Install Support Structures for Pipes	0%	15	15	13-Oct-26	02-Nov-26	42
CN.2360000	Install 18"Pipe	0%	5	5	03-Nov-26	09-Nov-26	42
CN.2370000	Install 42"Pipe	0%	7	7	10-Nov-26	19-Nov-26	42
Pipe Gallery - Filter - 16			21	21	20-Nov-26	22-Dec-26	42



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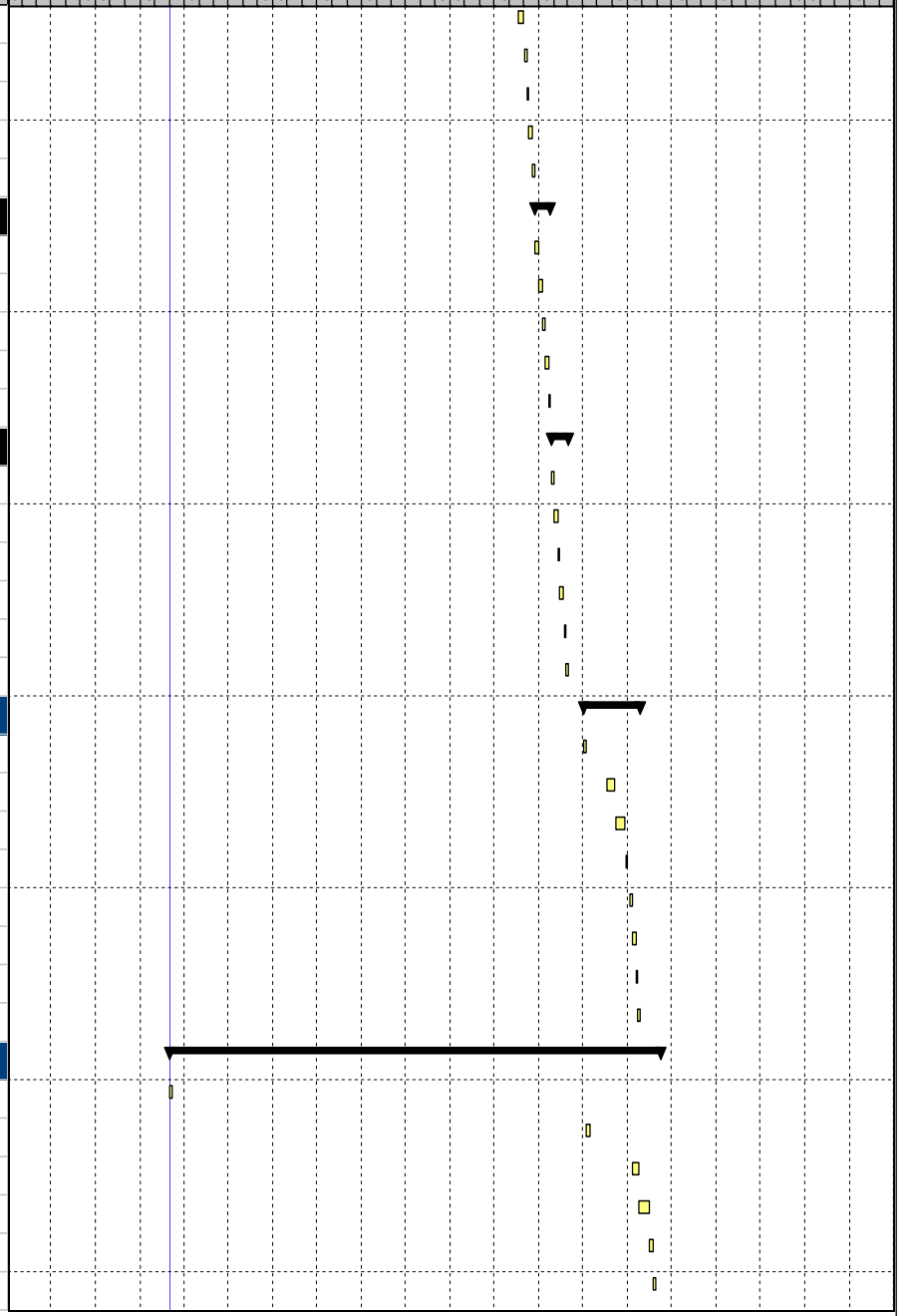
CN.2380000	Connect 48" Piping & Appurtances to Filter 16	0%	5	5	20-Nov-26	30-Nov-26	42
CN.2390000	Connect 30"and 16" Piping	0%	5	5	01-Dec-26	07-Dec-26	42
CN.2400000	Install Tees for 42"Pipe	0%	3	3	08-Dec-26	10-Dec-26	42
CN.2410000	Install 30"Rate of Flow Controller	0%	5	5	11-Dec-26	17-Dec-26	42
CN.2420000	Install BFV	0%	3	3	18-Dec-26	22-Dec-26	42
Pipe Gallery - Filter - 17			21	21	23-Dec-26	25-Jan-27	42
CN.2430000	Connect 48" Piping & Appurtances to Filter 17	0%	5	5	23-Dec-26	30-Dec-26	42
CN.2440000	Connect 30"and 16" Process Piping	0%	5	5	31-Dec-26	07-Jan-27	42
CN.2450000	Install Tees for 42" Process Pipe	0%	3	3	08-Jan-27	12-Jan-27	42
CN.2460000	Install 30"Rate of Flow Controller	0%	5	5	13-Jan-27	20-Jan-27	42
CN.2470000	Install BFV	0%	3	3	21-Jan-27	25-Jan-27	42
Pipe Gallery - Filter - 18			26	26	26-Jan-27	03-Mar-27	42
CN.2480000	Connect 48" Piping & Appurtances to Filter 18	0%	5	5	26-Jan-27	01-Feb-27	42
CN.2490000	Connect 30"and 16" Process Piping	0%	5	5	02-Feb-27	08-Feb-27	42
CN.2500000	Install Tees for 42"Pipe	0%	3	3	09-Feb-27	11-Feb-27	42
CN.2510000	Install 30"Rate of Flow Controller	0%	5	5	12-Feb-27	19-Feb-27	42
CN.2520000	Install BFV	0%	3	3	22-Feb-27	24-Feb-27	42
CN.2760000	Pressure Test Filter Gallary Piping	0%	5	5	25-Feb-27	03-Mar-27	42
Filter - 16			82	82	02-Apr-27	28-Jul-27	41
CN.2530000	Install Slide Gates - Filters 16 @ Backwash Water Channel	0%	5	5	02-Apr-27	08-Apr-27	6
CN.2180000	Install Leopold UnderDrain	0%	10	10	21-May-27	04-Jun-27	6
CN.2190000	Install Filter Waste Water Trough	0%	15	15	07-Jun-27	25-Jun-27	6
CN.2220000	Install 18" Dia Pipe	0%	5	5	28-Jun-27	02-Jul-27	6
CN.2230000	Install 6" Dia Pipe	0%	5	5	06-Jul-27	12-Jul-27	6
CN.2330000	Fill Tank & Leopold Backwash Visual Testing - Filter 16	0%	5	5	13-Jul-27	19-Jul-27	41
CN.2200000	Fill Sand - 6" - Filter 16 (By VNA)	0%	3	3	20-Jul-27	22-Jul-27	41
CN.2210000	Fill GAC - 48" - Filter 16 (By VNA)	0%	4	4	23-Jul-27	28-Jul-27	41
Filter - 17			694	694	02-Dec-24	09-Sep-27	11
CN.4510000	Fill Tank & Leopold Backwash Visual Testing - Filter 17	0%	5	5	02-Dec-24	06-Dec-24	693
CN.4580000	Install Slide Gates - Filters 17 @ Backwash Water Channel	0%	5	5	09-Apr-27	15-Apr-27	6
CN.2800000	Install Leopold UnderDrain	0%	10	10	13-Jul-27	26-Jul-27	6
CN.2810000	Install Filter Waste Water Trough	0%	15	15	27-Jul-27	16-Aug-27	6
CN.2840000	Install 18" Dia Pipe	0%	5	5	17-Aug-27	23-Aug-27	6
CN.2850000	Install 6" Dia Pipe	0%	5	5	24-Aug-27	30-Aug-27	6



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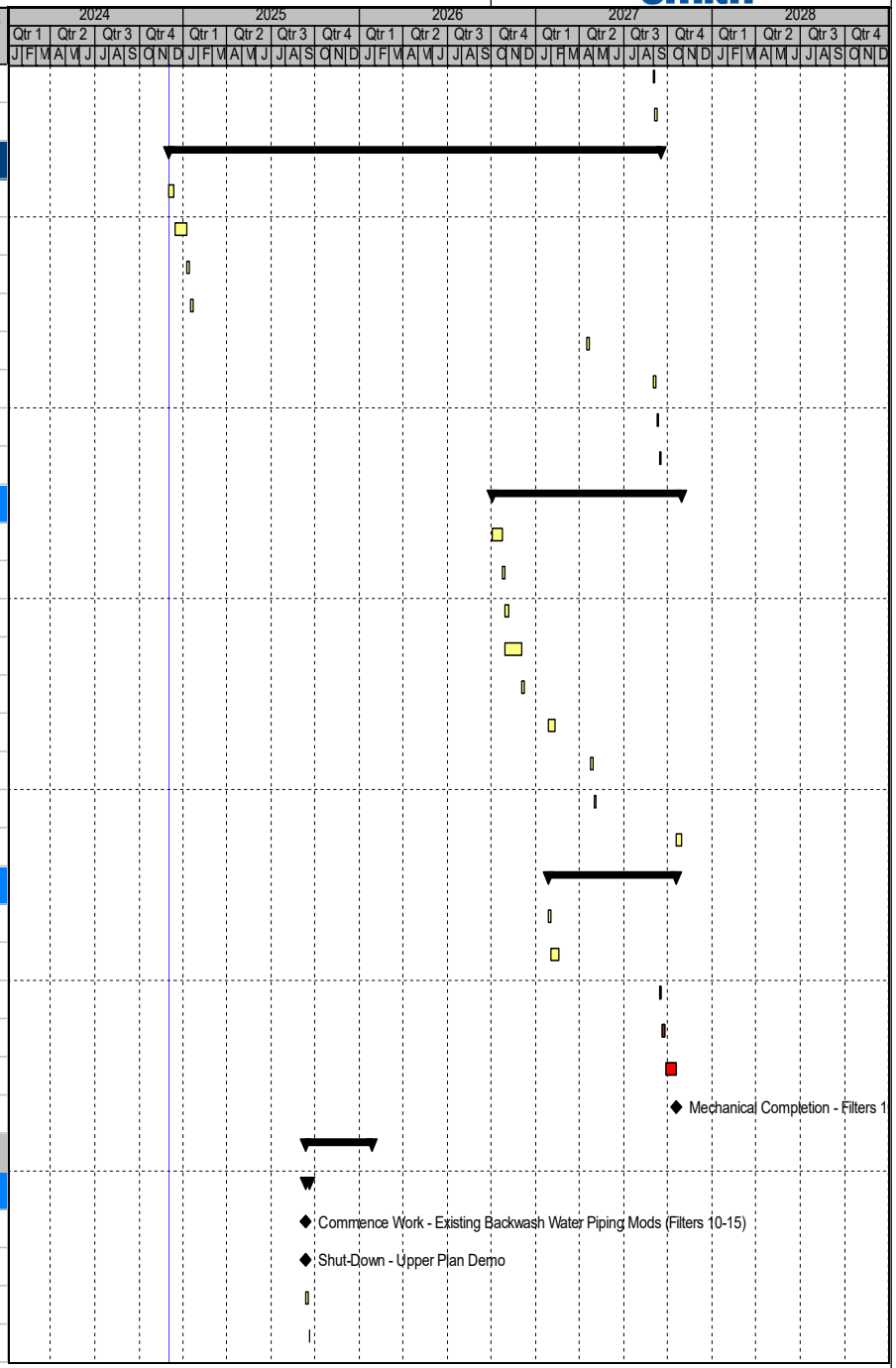
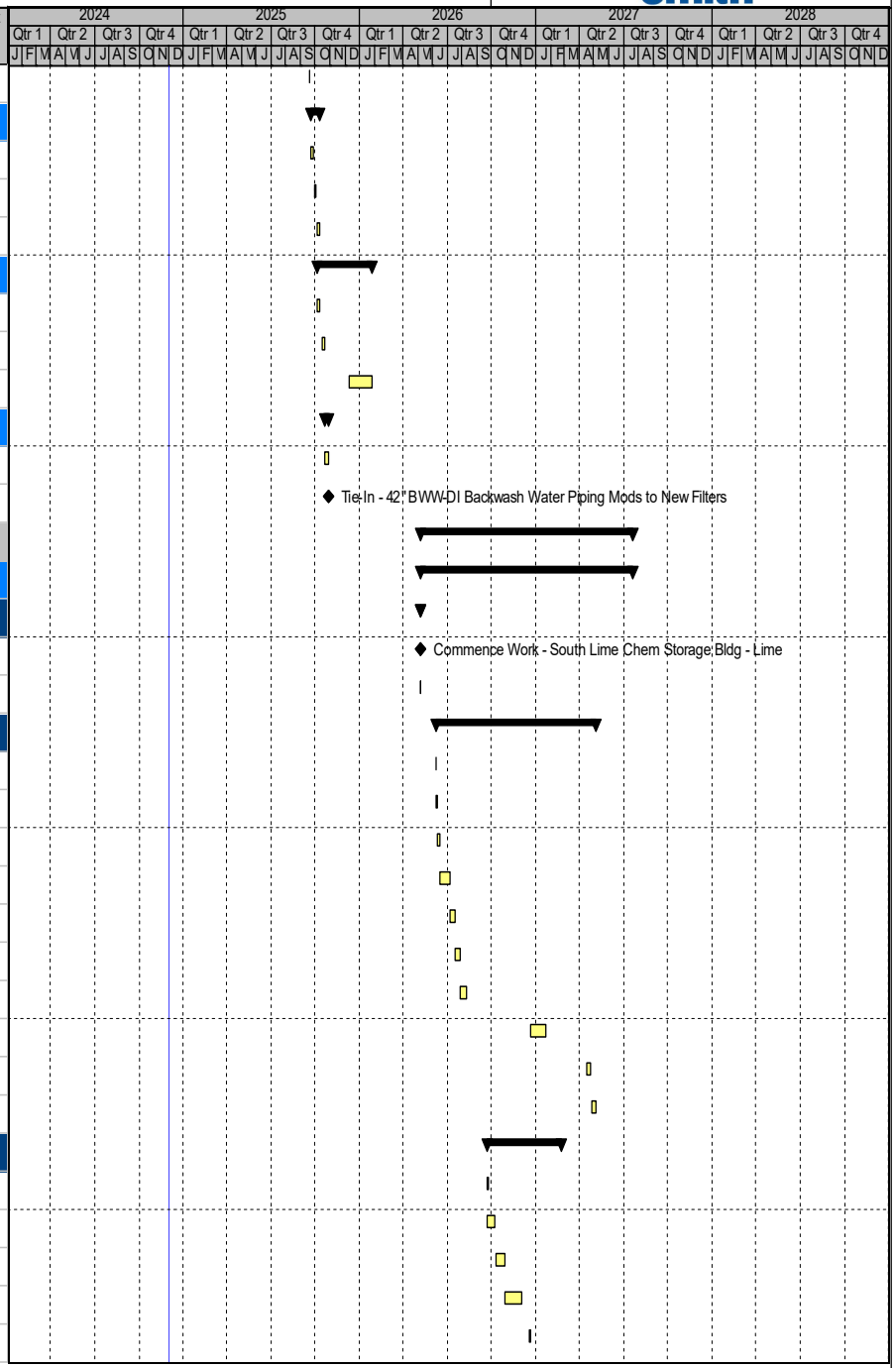
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.2820000	Fill Sand - 6" - Filter 17	0%	3	3	31-Aug-27	02-Sep-27	11
CN.2830000	Fill GAC - 48" - Filter 17	0%	4	4	03-Sep-27	09-Sep-27	11
Filter - 18			699	699	02-Dec-24	16-Sep-27	6
CN.2860000	Install Leopold UnderDrain	0%	10	10	02-Dec-24	13-Dec-24	655
CN.2870000	Install Filter Waste Water Trough	0%	15	15	16-Dec-24	07-Jan-25	655
CN.2900000	Install 18" Dia Pipe	0%	5	5	08-Jan-25	14-Jan-25	655
CN.2910000	Install 6" Dia Pipe	0%	5	5	15-Jan-25	22-Jan-25	655
CN.4590000	Install Slide Gates - Filters 18 @ Backwash Water Channel	0%	5	5	16-Apr-27	22-Apr-27	6
CN.4810000	Fill Tank & Leopold Backwash Visual Testing - Filter 18	0%	5	5	31-Aug-27	07-Sep-27	6
CN.2880000	Fill Sand - 6" - Filters 18	0%	3	3	08-Sep-27	10-Sep-27	6
CN.2890000	Fill GAC - 48" - Filters 18	0%	4	4	13-Sep-27	16-Sep-27	6
Electrical			270	270	01-Oct-26	29-Oct-27	16
CN.2660000	Install Cable Gallery	0%	15	15	01-Oct-26	22-Oct-26	181
CN.2630000	Install of Electrical Panels at Pipe Gallery	0%	5	5	23-Oct-26	29-Oct-26	181
CN.2670000	Pull Wire & Cables	0%	6	6	30-Oct-26	06-Nov-26	200
CN.2920000	Install of Electrical Panels & Rough-in Conduit - Filters	0%	20	20	30-Oct-26	01-Dec-26	181
CN.2650000	Install of Light Poles	0%	5	5	02-Dec-26	08-Dec-26	181
CN.2680000	Electrical Terminations	0%	10	10	26-Jan-27	08-Feb-27	150
CN.2640000	Install of Motors for Slide Gates	0%	6	6	23-Apr-27	30-Apr-27	89
CN.2690000	Install I&C Instrumentation - Slide Gates	0%	3	3	03-May-27	05-May-27	89
CN.4560000	Install Lighting at Canopy / Filter Area	0%	10	10	18-Oct-27	29-Oct-27	16
Field Functional Testing			185	185	26-Jan-27	18-Oct-27	0
CN.2720000	Flush Piping & Clean Process Piping	0%	5	5	26-Jan-27	01-Feb-27	155
CN.2730000	Fill and Pressure Test Water	0%	10	10	02-Feb-27	16-Feb-27	155
CN.2700000	Electrical Calibration Check-out - Filters 16-18	0%	5	5	13-Sep-27	17-Sep-27	0
CN.2710000	I&C Loop Check - Filters 16-18	0%	5	5	20-Sep-27	24-Sep-27	0
CN.2740000	Field Testing - Pre-commissioning - Filters 16-18	0%	15	15	27-Sep-27	18-Oct-27	0
CN.2750000	Mechanical Completion - Filters 16-18	0%	0	0		18-Oct-27	0
Existing Backwash Water Piping Modifications (Filters 10-15)			90	90	11-Sep-25	26-Jan-26	521
Demo			7	7	11-Sep-25	19-Sep-25	579
CN.4680000	Commence Work - Existing Backwash Water Piping Mods (Filters 10-15)	0%	0	0	11-Sep-25		455
CN.4720000	Shut-Down - Upper Plan Demo	0%	0	0	11-Sep-25		579
CN.4690000	Upper Plan - Demo 36" Pipe and install 36" BF	0%	2	5	11-Sep-25	17-Sep-25	579
CN.4700000	Upper Plan - Remove 36" BWW-DI 90-Degree Bend	0%	1	1	18-Sep-25	18-Sep-25	579



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.4710000	Upper Plan - Remove 36" BWW-DI BF	0%	1	1	19-Sep-25	19-Sep-25	579
Mechancial			15	15	22-Sep-25	10-Oct-25	584
CN.4740000	Install Piping Mods - 36" BWW-DI	0%	5	5	22-Sep-25	26-Sep-25	579
CN.4750000	Install Piping Mods - 42" BWW-DI	0%	5	5	29-Sep-25	03-Oct-25	579
CN.4760000	Pressure Testing BWW-DI	0%	5	5	06-Oct-25	10-Oct-25	584
Electrical			73	73	06-Oct-25	26-Jan-26	516
CN.4770000	Install Instruments on BWW-DI	0%	5	5	06-Oct-25	10-Oct-25	579
CN.4780000	Power Instruments BWW-DI	0%	5	5	14-Oct-25	20-Oct-25	579
CN.4820000	Electrical Rough-in (Filter Gallary 10-15) to Ozone Generator XFMR	0%	30	30	10-Dec-25	26-Jan-26	395
Pre-commissiong			5	5	21-Oct-25	27-Oct-25	579
CN.4790000	I&C Loop Check	0%	5	5	21-Oct-25	27-Oct-25	579
CN.4800000	Tie-In - 42" BWW-DI Backwash Water Piping Mods to New Filters	0%	0	0		27-Oct-25	579
South Lime Chemical Storage Building			300	300	07-May-26	19-Jul-27	82
Dry Chemical Feed Building			300	300	07-May-26	19-Jul-27	82
Site Preparation			1	1	07-May-26	07-May-26	0
CN.3430000	Commence Work - South Lime Chem Storage Bldg - Lime	0%	0	0	07-May-26		0
CN.2930000	Rough Grading South Lime Chem Storage Bldg, RI Pad EL - Lime	0%	1	1	07-May-26	07-May-26	0
Civil			227	227	08-Jun-26	04-May-27	82
CN.3140000	Excavation for Foundations of Center Silo and Tanks	0%	1	1	08-Jun-26	08-Jun-26	82
CN.2940000	Excavation for Foundations of Perimeter	0%	1	1	09-Jun-26	09-Jun-26	82
CN.2950000	Underslab Rough-in	0%	5	5	10-Jun-26	16-Jun-26	82
CN.2960000	F/R/P Concrete Foundation, Center Silo @ 38.1	0%	14	14	17-Jun-26	07-Jul-26	82
CN.2980000	F/R/P Concrete Foundation, Inside Column foundation	0%	7	7	08-Jul-26	16-Jul-26	82
CN.2970000	F/R/P Concrete Foundation, Perimeter	0%	7	7	17-Jul-26	27-Jul-26	82
CN.2990000	F/R/P Slab on Grade @ 38.1 and 6" pedestal at Center Silo area	0%	10	10	28-Jul-26	10-Aug-26	82
CN.3370000	F/R/P Concrete & Cure @ 76.43 lvl	0%	21	21	21-Dec-26	21-Jan-27	82
CN.3150000	F/R/P Concrete Slab for Electrical Room	0%	7	7	15-Apr-27	23-Apr-27	82
CN.3120000	F/R/P Concrete Foundation,for Centrifugal Slurry Pump	0%	7	7	26-Apr-27	04-May-27	82
Structural			103	103	21-Sep-26	22-Feb-27	175
CN.3090000	Erection and Installation of Staircase	0%	5	5	21-Sep-26	25-Sep-26	273
CN.3020000	Erection of Columns Inside Building & Cure (4no.s)	0%	14	14	21-Sep-26	08-Oct-26	82
CN.3030000	Erection of Framing Structure (Columns and Tie Beam) - 4 sides	0%	14	14	09-Oct-26	29-Oct-26	82
CN.3040000	Install Roof Tie Beam and Cure @ EL 76.43	0%	21	21	30-Oct-26	02-Dec-26	82
CN.3050000	Erect Metal Deck @ EL 76.43	0%	3	3	17-Dec-26	21-Dec-26	102



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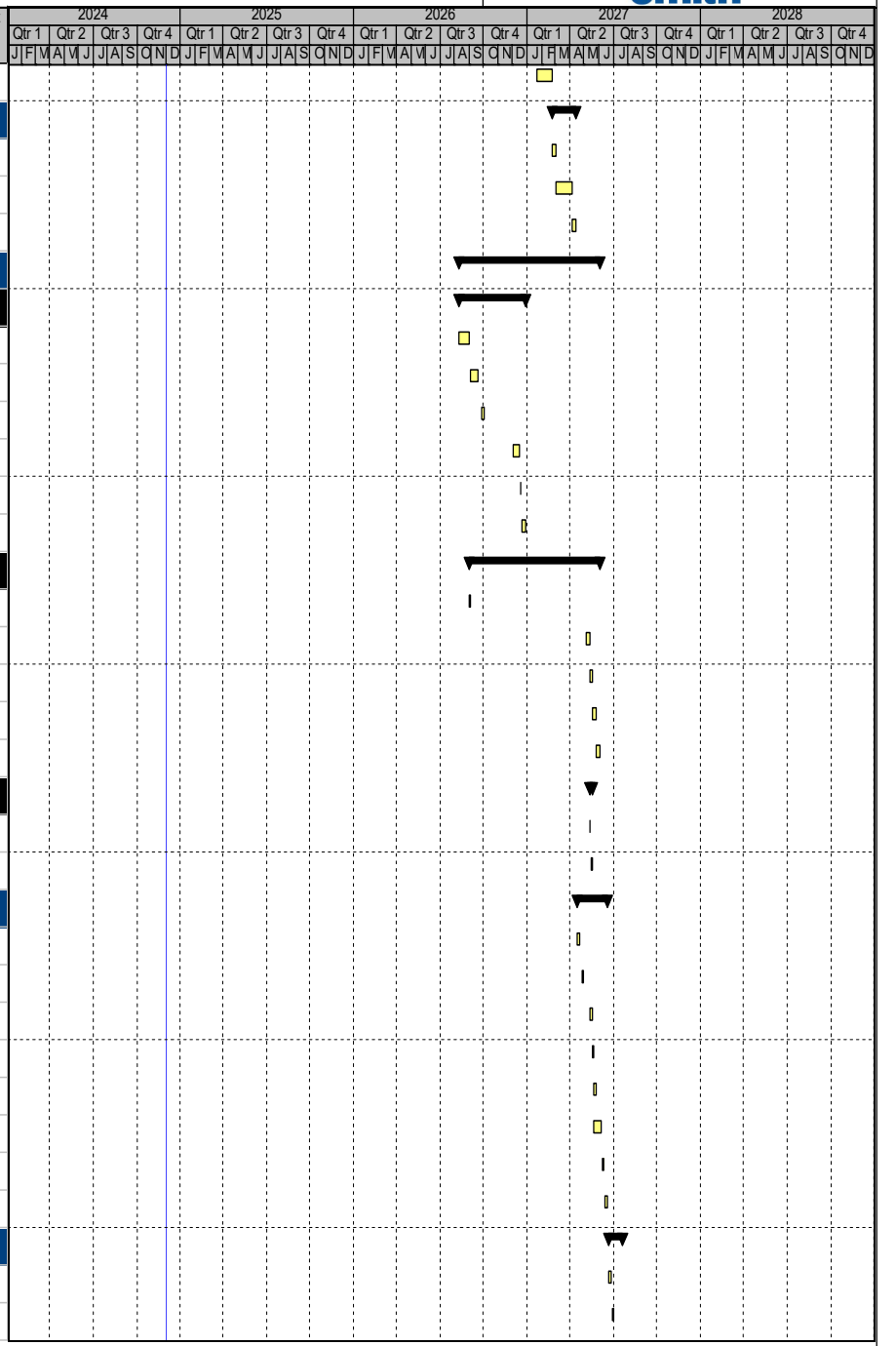
CN.3070000	Install Slopped Beams and Cure @ EL 82.02	0%	21	21	22-Jan-27	22-Feb-27	82
Masonary			37	37	23-Feb-27	14-Apr-27	82
CN.3100000	Erection of Scaffolding for Masonary Work	0%	5	5	23-Feb-27	01-Mar-27	82
CN.3110000	Masonary Work (4 sides)	0%	25	25	02-Mar-27	05-Apr-27	82
CN.3160000	Masonary Work for Electrical Room	0%	7	7	06-Apr-27	14-Apr-27	82
Mechanical			203	203	11-Aug-26	03-Jun-27	113
Silo			94	94	11-Aug-26	28-Dec-26	222
CN.3000000	Installation of Silo Support Structure (4no.s)	0%	15	15	11-Aug-26	31-Aug-26	82
CN.3010000	Install Silo Platform Structure @ EL 48.09	0%	10	10	04-Sep-26	18-Sep-26	82
CN.3080000	Installation of Microsand Storage	0%	5	5	28-Sep-26	02-Oct-26	273
CN.3190000	Erection of Silo	0%	10	10	03-Dec-26	16-Dec-26	82
CN.3200000	Erection of Bin Filter	0%	2	2	17-Dec-26	18-Dec-26	82
CN.3360000	Allignment and Checking Bin Filter	0%	5	5	21-Dec-26	28-Dec-26	222
Lime Slurry Tank			188	188	01-Sep-26	03-Jun-27	113
CN.3060000	Installation of Lime Slurry Tanks	0%	3	3	01-Sep-26	03-Sep-26	82
CN.3130000	Installation of Centrifugal Slurry Pump (4)	0%	5	5	05-May-27	11-May-27	82
CN.3180000	Installation of Process Piping	0%	5	5	12-May-27	18-May-27	113
CN.3210000	Installation of BF, CV and other Piping Equipment	0%	6	6	19-May-27	26-May-27	113
CN.3350000	Allignment and Final Checkout of Slurry Sys	0%	5	5	27-May-27	03-Jun-27	113
Miscellaneous Equipments			4	4	12-May-27	17-May-27	120
CN.3220000	Install Acid Neutralization Tank	0%	2	2	12-May-27	13-May-27	120
CN.3230000	Install Condenstate Drywell	0%	2	2	14-May-27	17-May-27	120
Electrical			46	46	15-Apr-27	18-Jun-27	82
CN.3260000	Install Cable Tray	0%	5	5	15-Apr-27	21-Apr-27	96
CN.3240000	Install MCC	0%	5	5	26-Apr-27	30-Apr-27	96
CN.3170000	Install Pump Control Panel and Chemical Feed Control Panel	0%	5	5	12-May-27	18-May-27	82
CN.3250000	Install other Panels (Lime Storage Fill, Slurry Mixer Control Panel, etc)	0%	2	2	19-May-27	20-May-27	82
CN.3280000	Install Building Lightning	0%	3	3	21-May-27	25-May-27	89
CN.3270000	Pull Wire & Cable	0%	10	10	21-May-27	04-Jun-27	82
CN.3290000	Electrical Terminations	0%	5	5	07-Jun-27	11-Jun-27	82
CN.3300000	Install I&C Instrumentation	0%	5	5	14-Jun-27	18-Jun-27	82
Field Functional Testing			20	20	21-Jun-27	19-Jul-27	82
CN.3310000	Electrical Calibration Check-out	0%	5	5	21-Jun-27	25-Jun-27	82
CN.3320000	I&C Loop Check	0%	5	5	28-Jun-27	02-Jul-27	82



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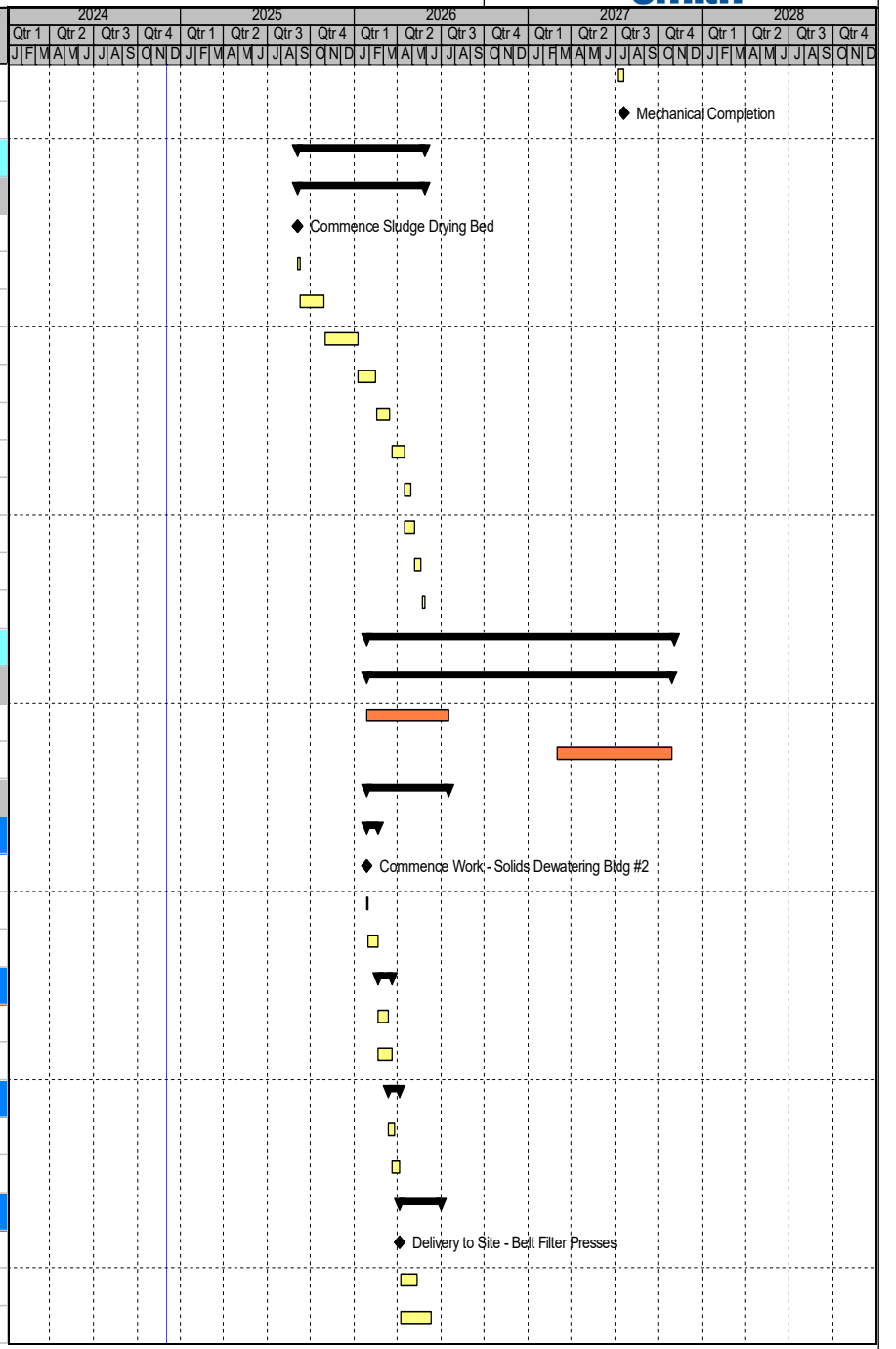
CN.3330000	Pre-commissioning	0%	10	10	06-Jul-27	19-Jul-27	82
CN.3340000	Mechanical Completion	0%	0	0		19-Jul-27	82
Sludge Drying Bed Area			184	184	02-Sep-25	29-May-26	372
Sitework			184	184	02-Sep-25	29-May-26	372
CN.1440000	Commence Sludge Drying Bed	0%	0	0	02-Sep-25		395
CN.1450000	Survey, Environmental Protection	0%	5	5	02-Sep-25	08-Sep-25	395
CN.1770000	Cut & Grade top 3' Organic Soils	0%	36	36	09-Sep-25	29-Oct-25	395
CN.1780000	Import Fill for Drying Bed	0%	45	45	30-Oct-25	08-Jan-26	395
CN.1460000	Concrete Curbing at Drying Bed	0%	25	25	09-Jan-26	13-Feb-26	395
CN.1790000	Install Geotech Liner for 1ac Sludge Staging Area	0%	20	20	17-Feb-26	16-Mar-26	395
CN.1570000	Collection Area Extension and Drainage	0%	20	20	20-Mar-26	16-Apr-26	372
CN.1800000	Site Improvements	0%	10	10	17-Apr-26	30-Apr-26	377
CN.1560000	Roads & Asphalt at Dryig Beds	0%	15	15	17-Apr-26	07-May-26	372
CN.1470000	Pre-commissioning / Contractor Completion List - Drying Bed	0%	10	10	08-May-26	21-May-26	372
CN.1480000	Mechanical Completion - Drying Bed Complete	0%	5	5	22-May-26	29-May-26	372
Belt Filter Area			448	448	26-Jan-26	04-Nov-27	24
Solids Dewatering / Belt Press			443	443	26-Jan-26	28-Oct-27	29
CN.160000	Construct Solids Dewatering Bldg #2 (SUMMARY)	0%	165	121	26-Jan-26	16-Jul-26	304
CN.170000	Construct Solids Dewatering Bldg #1 (SUMMARY)	0%	170	170	01-Mar-27	28-Oct-27	29
Solids Dewatering Bldg #2 (BFP 5-6-7)			121	121	26-Jan-26	16-Jul-26	304
Demolition			18	18	26-Jan-26	19-Feb-26	320
CN.FL0-920010	Commence Work - Solids Dewatering Bldg #2	0%	0	0	26-Jan-26		320
CN.FL0-670010	Shut-down Existing Belt Fitler Presses / Lockout Tag Out - BFP Bldg #2	0%	3	3	26-Jan-26	28-Jan-26	320
CN.FL0-960010	Demolition Work - Solids Dewatering Bldg #2	0%	15	15	29-Jan-26	19-Feb-26	320
Concrete / Structural			20	20	20-Feb-26	19-Mar-26	337
CN.FL0-1010010	Concrete Foundations & Cure for Conveyor - Solids Dewatering Bldg #2	0%	15	15	20-Feb-26	12-Mar-26	342
CN.FL0-770010	Concrete Pedistals & Cure, Structural Steel Platform - Solids Dewatering Bldg #2	0%	20	20	20-Feb-26	19-Mar-26	320
Metals			17	17	13-Mar-26	06-Apr-26	335
CN.FL0-1020010	Structural Steel Framing for Conveyor - Solids Dewatering Bldg #2	0%	10	10	13-Mar-26	26-Mar-26	342
CN.FL0-700010	Structural Steel Framing & Al Grating - Solids Dewatering Bldg #2	0%	12	12	20-Mar-26	06-Apr-26	320
Balance of Plant (M-E-P)			61	61	06-Apr-26	01-Jul-26	304
CN.FL0-780010	Delivery to Site - Belt Filter Presses	0%	0	0		06-Apr-26	315
CN.FL0-900010	Conveyor Replacement (Mech/Elec/Process) - Solids Dewatering Bldg #2	0%	25	25	07-Apr-26	11-May-26	335
CN.FL0-1060010	Install Washdown Booster Pump 5,6 & 7 (Mech/Elec/Process)	0%	45	45	07-Apr-26	09-Jun-26	315



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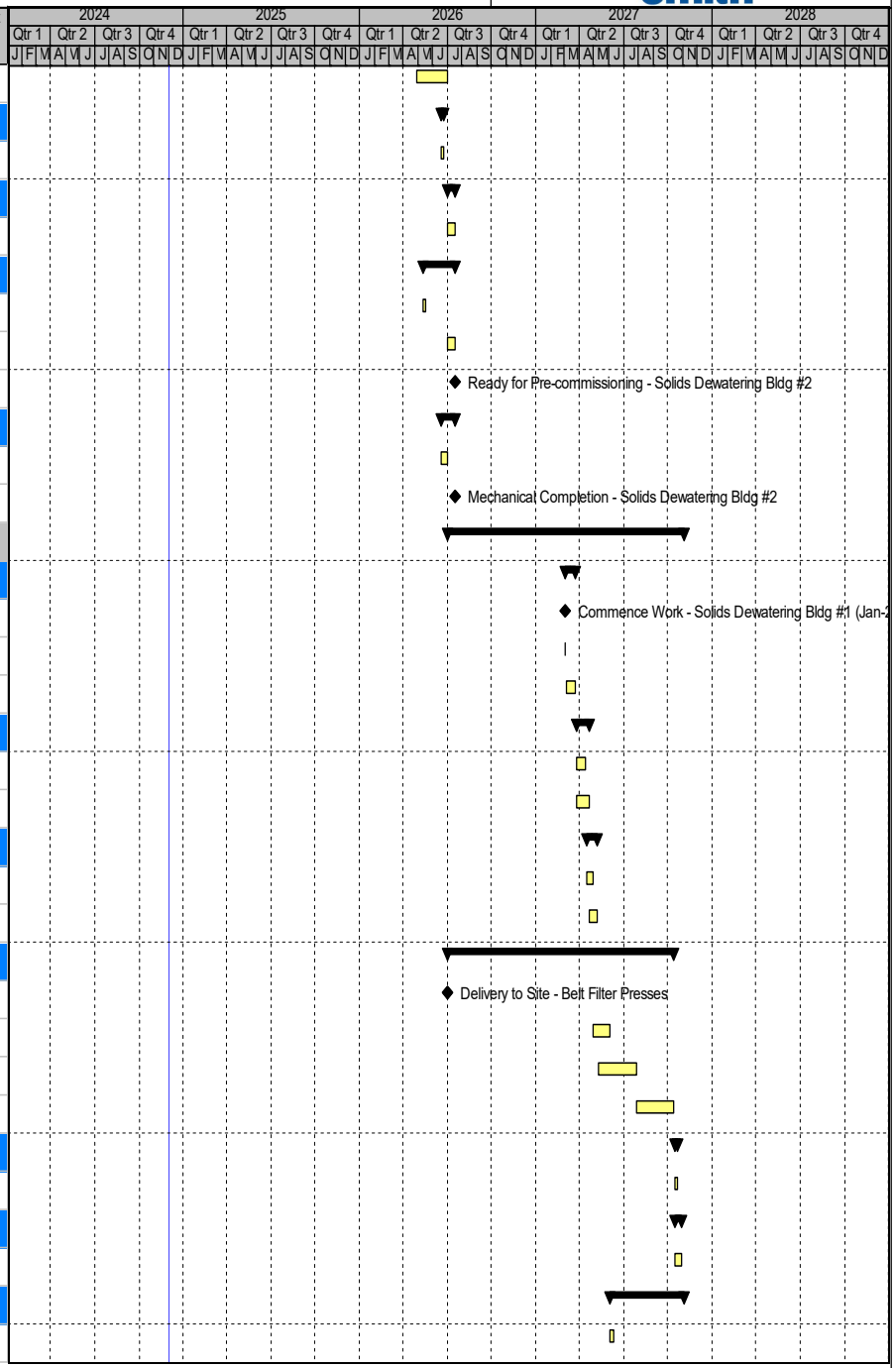
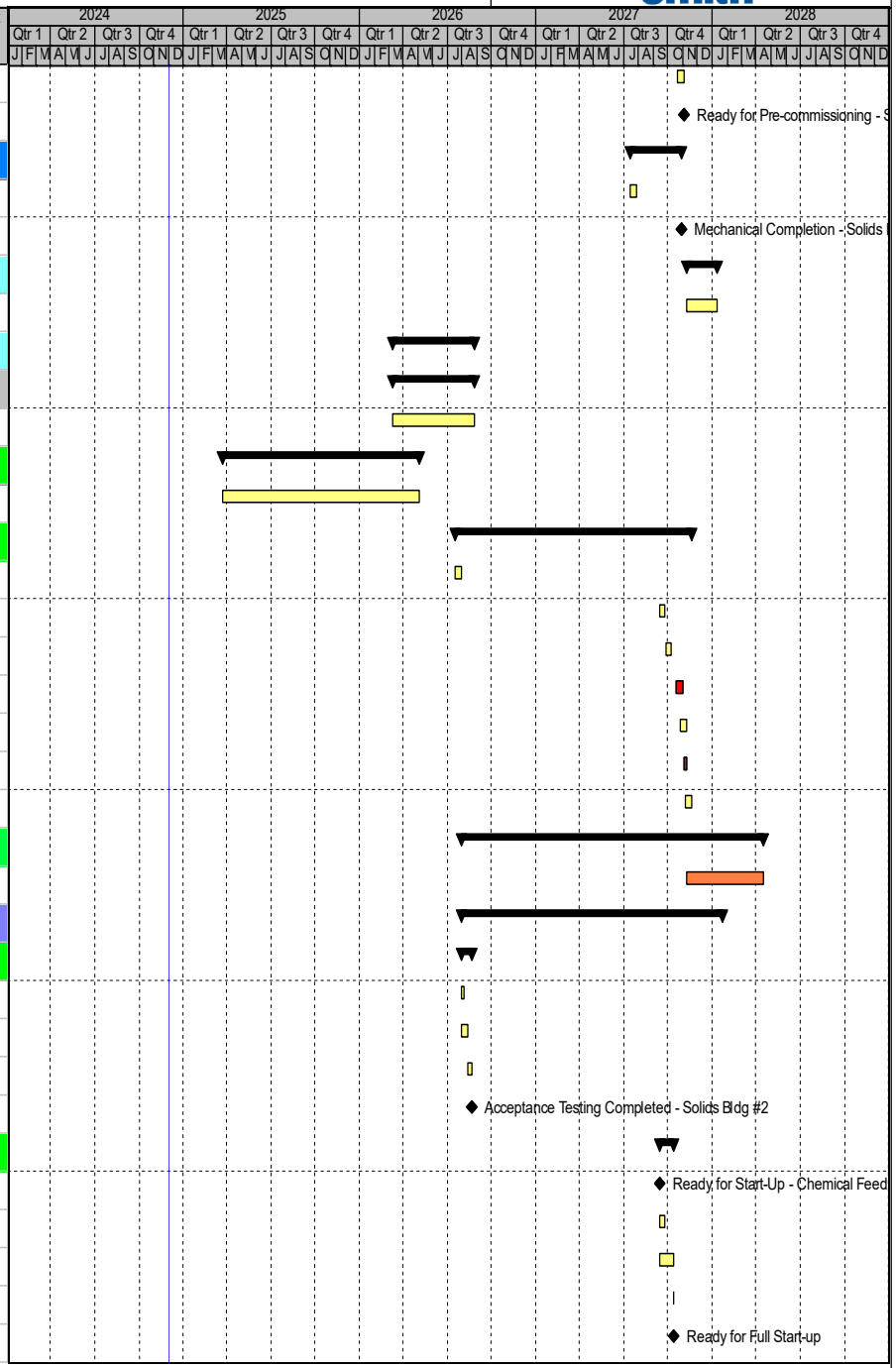
CN.FL0-690010	Install Belt Filter Press #5,6 &7 (Mech/Elec/Process)	0%	45	45	29-Apr-26	01-Jul-26	304
Instrumentation & SCADA			5	5	18-Jun-26	24-Jun-26	309
CN.FL0-710010	Instrumentation & Loop Checks - Solids Dewatering Bldg #2	0%	5	5	18-Jun-26	24-Jun-26	309
Coatings			10	10	02-Jul-26	16-Jul-26	304
CN.FL0-740010	Coatings - Solids Dewatering Bldg #2	0%	10	10	02-Jul-26	16-Jul-26	304
Field Functional Testing			46	46	12-May-26	16-Jul-26	304
CN.FL0-790010	Functional Testing Conveyor	0%	5	5	12-May-26	18-May-26	335
CN.FL0-720010	Functional Field Testing - Solids Dewatering Bldg #2 System	0%	10	10	02-Jul-26	16-Jul-26	304
CN.FL0-730010	Ready for Pre-commissioning - Solids Dewatering Bldg #2	0%	0	0		16-Jul-26	304
Final Site Restoration			20	20	18-Jun-26	16-Jul-26	304
CN.FL0-760010	Final Grading, Sitework, Flatwork Restoration - Solids Dewatering Bldg #2	0%	10	10	18-Jun-26	01-Jul-26	314
CN.FL0-750010	Mechanical Completion - Solids Dewatering Bldg #2	0%	0	0		16-Jul-26	304
Solids Dewatering Bldg #1 (BFP1-4)			337	337	01-Jul-26	04-Nov-27	24
Demolition			18	18	01-Mar-27	24-Mar-27	24
CN.FL0-1440010	Commence Work - Solids Dewatering Bldg #1 (Jan-2027 for March-May Low Flows)	0%	0	0	01-Mar-27*		24
CN.FL0-1320010	Shut-down Existing Belt Fitler Presses / Lockout Tag Out - BFP Bldg #1	0%	3	3	01-Mar-27	03-Mar-27	24
CN.FL0-1450010	Demolition Work - Solids Dewatering Bldg #1	0%	15	15	04-Mar-27	24-Mar-27	24
Concrete / Structural			20	20	25-Mar-27	21-Apr-27	111
CN.FL0-1460010	Concrete Foundations & Cure for Conveyor - Solids Dewatering Bldg #1	0%	15	15	25-Mar-27	14-Apr-27	116
CN.FL0-1410010	Concrete Pedistals & Cure, Structural Steel Platform - Solids Dewatering Bldg #1	0%	20	20	25-Mar-27	21-Apr-27	24
Metals			17	17	15-Apr-27	07-May-27	109
CN.FL0-1470010	Structural Steel Framing for Conveyor - Solids Dewatering Bldg #1	0%	10	10	15-Apr-27	28-Apr-27	116
CN.FL0-1340010	Structural Steel Framing & Al Grating for Presses - Solids Dewatering Bldg #1	0%	12	12	22-Apr-27	07-May-27	24
Balance of Plant (M-E-P)			322	322	01-Jul-26	14-Oct-27	24
CN.FL0-1420010	Delivery to Site - Belt Filter Presses	0%	0	0		01-Jul-26	236
CN.FL0-1430010	Conveyor Replacement (Mech/Elec/Process) - Solids Dewatering Bldg #1	0%	25	25	29-Apr-27	03-Jun-27	116
CN.FL0-1330010	Install Belt Filter Press #1-4 (Mech/Elec/Process)	0%	55	55	10-May-27	27-Jul-27	24
CN.FL0-1480010	Install Washdown Booster Pump 1-4 (Mech/Elec/Process)	0%	55	55	28-Jul-27	14-Oct-27	24
Instrumentation & SCADA			5	5	15-Oct-27	21-Oct-27	24
CN.FL0-1350010	Instrumentation & Loop Checks - Solids Dewatering Bldg #1	0%	5	5	15-Oct-27	21-Oct-27	24
Coatings			10	10	15-Oct-27	28-Oct-27	29
CN.FL0-1380010	Coatings - Solids Dewatering Bldg #1	0%	10	10	15-Oct-27	28-Oct-27	29
Field Functional Testing			107	107	04-Jun-27	04-Nov-27	24
CN.FL0-1490010	Functional Testing Conveyor	0%	5	5	04-Jun-27	10-Jun-27	116



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-1360010	Functional Field Testing - Solids Dewatering Bldg #1 System	0%	10	10	22-Oct-27	04-Nov-27	24
CN.FL0-1370010	Ready for Pre-commissioning - Solids Dewatering Bldg #1	0%	0	0		04-Nov-27	24
Final Site Restoration			75	75	14-Jul-27	28-Oct-27	29
CN.FL0-1400010	Final Grading, Sitework, Flatwork Restoration - Solids Dewatering Bldg #1	0%	10	10	14-Jul-27	27-Jul-27	94
CN.FL0-1390010	Mechanical Completion - Solids Dewatering Bldg #1	0%	0	0		28-Oct-27	29
Final Site Improvements			40	40	09-Nov-27	10-Jan-28	7
CN.4530000	FInal Site Improvements - Solids Dewatering Bldg #1	0%	40	40	09-Nov-27	10-Jan-28	7
Sodium Hypochlorite Storage			120	120	11-Mar-26	27-Aug-26	295
New Sodium Hypochlorite Tanks			120	120	11-Mar-26	27-Aug-26	295
CN.150000	Construct New Sodium Hypochlorite Tanks	0%	120	120	11-Mar-26	27-Aug-26	295
SCADA/ Programming / Integration			280	280	24-Mar-25	05-May-26	364
CN.1160000	SCADA / Programming / Integration	0%	280	280	24-Mar-25	05-May-26	364
Contractor Precommission / Checkout			337	337	17-Jul-26	19-Nov-27	24
PC-006	Pre-commission - Solids Handling System Bldg #2	0%	10	10	17-Jul-26	30-Jul-26	304
PC-001	Pre-commission Electrical Ozone Generator	0%	10	10	13-Sep-27	24-Sep-27	48
PC-005	Pre-commission - Actiflo System	0%	10	10	27-Sep-27	08-Oct-27	46
PC-003	Pre-commission - GAC Filtration System	0%	10	10	19-Oct-27	01-Nov-27	0
PC-002	Pre-commission - Ozone System	0%	10	10	26-Oct-27	08-Nov-27	27
PC-10003	BAC/T Testing Filters	0%	5	5	02-Nov-27	08-Nov-27	0
PC-007	Pre-commission - Solids Handling System Bldg #1	0%	10	10	05-Nov-27	19-Nov-27	24
CLOSEOUT			433	426	31-Jul-26	14-Apr-28	0
CN.60000	CLOSEOUT (SUMMARY) (3-months)	0%	114	107	09-Nov-27	14-Apr-28	0
Facility Startup			366	366	31-Jul-26	20-Jan-28	0
Solids Dewatering Bldg #2			15	15	31-Jul-26	20-Aug-26	304
CN.4650000	Punchlist - Solids Dewatering Bldg#2	0%	10	5	31-Jul-26	06-Aug-26	309
CN.4640000	Functional Acceptance Testing - Solids Dewatering Bldg #2	0%	10	10	31-Jul-26	13-Aug-26	304
CN.4660000	Engineer Issue Cert of Completion - Solids Dewatering Bldg #2	0%	1	5	14-Aug-26	20-Aug-26	304
CN.4670000	Acceptance Testing Completed - Solids Bldg #2	0%	0	0		20-Aug-26	304
Start-up Dry Chemical Feed System			22	22	13-Sep-27	13-Oct-27	44
CN.3380000	Ready for Start-Up - Chemical Feed System	0%	0	0	13-Sep-27		44
PL-10001	Punchlist -Dry Chemical Feed System	0%	10	10	13-Sep-27	24-Sep-27	55
CN.3390000	Commission Period -Chemical Feed System	0%	20	21	13-Sep-27	12-Oct-27	44
CN.3400000	Engineer Issue Cert of Compliance - Chemical Feed System	0%	1	1	13-Oct-27	13-Oct-27	44
CN.3410000	Ready for Full Start-up	0%	0	0		13-Oct-27	44

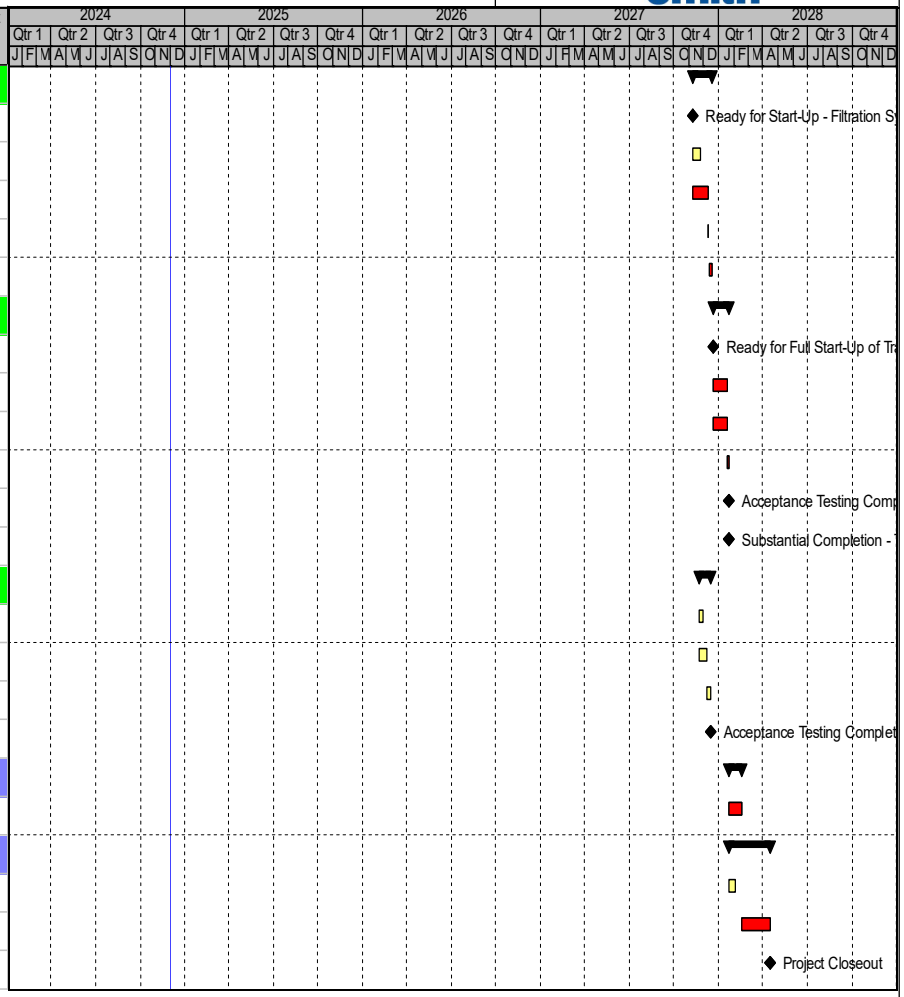


Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Start-up Filtration System			26	26	09-Nov-27	17-Dec-27	0
CN.840000	Ready for Start-Up - Filtration System	0%	0	0	09-Nov-27		0
PL-1	Punchlist - Filtration System	0%	10	10	09-Nov-27	23-Nov-27	10
CN.850000	Commission Period - Filters	0%	20	20	09-Nov-27	09-Dec-27	0
CN.860000	Engineer Issue Cert of Compliance - Filters	0%	1	1	10-Dec-27	10-Dec-27	0
CN.870000	Operations Approve Full Start-up (Additional Filter Capacity Available)	0%	5	5	13-Dec-27	17-Dec-27	0
Full Start-Up of Train #5			21	21	20-Dec-27	20-Jan-28	0
CN.640000	Ready for Full Start-Up of Train #5	0%	0	0	20-Dec-27		0
CN.650000	Functional Acceptance Testing Period (Non-discharge, pending FDEP Clearance)	0%	20	20	20-Dec-27	19-Jan-28	0
CN.1060000	Punchlist - Balance of Plant	0%	20	20	20-Dec-27	19-Jan-28	0
CN.660000	Engineer Issue Cert of Compliance	0%	1	1	20-Jan-28	20-Jan-28	0
CN.680000	Acceptance Testing Completed	0%	0	0		20-Jan-28	0
CN.690000	Substantial Completion - Train #5	0%	0	0		20-Jan-28	0
Solids Dewatering Bldg #1			15	15	22-Nov-27	14-Dec-27	24
CN.4610000	Punchlist - Solids Dewatering Bldg#1	0%	10	5	22-Nov-27	30-Nov-27	29
CN.4600000	Functional Acceptance Testing - Solids Dewatering Bldg #1	0%	10	10	22-Nov-27	07-Dec-27	24
CN.4620000	Engineer Issue Cert of Completion - Solids Dewatering Bldg #1	0%	1	5	08-Dec-27	14-Dec-27	24
CN.4630000	Acceptance Testing Completed - Solids Bldg #1	0%	0	0		14-Dec-27	24
Commissioning Period			20	20	21-Jan-28	17-Feb-28	0
CLS-3	Commissioning Period, Operations Training	0%	20	20	21-Jan-28	17-Feb-28	0
Contract Closeout			60	60	21-Jan-28	14-Apr-28	0
CLS-4	Contractor Demobilization	0%	10	10	21-Jan-28	03-Feb-28	50
CLS-5	Finalize Contract Closeout Submittals	0%	40	40	18-Feb-28	14-Apr-28	0
CLS-6	Project Closeout	0%	0	0		14-Apr-28	0



Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 22A – FACILITY EXPANSION OPTION

1. Future Expansion

An overall site layout drawing shall be provided, which will include indication of areas on the existing site available for expansion of the facility and facility surface water treatment processes to support potential future processes selected by Tampa Bay Water. Space shall be indicated for the construction of additional process elements such as TOC removal and/or drying beds expansion. Space shall also be indicated for an additional operations and maintenance building in accordance with instruction by Tampa Bay Water. The Company cannot guaranty that such indicated areas will be adequate for the building or future processes as they have not yet been assessed or designed.

GUARANTEED MAXIMUM PRICE BREAKDOWN

SUMMARY OF CONSTRUCTION PRICE

PRICE

Description	Activities	Contract Value
GENERAL CONDITIONS - DESIGN-BUILDER		
General Conditions	Not-To-Exceed General Conditions which include on-site Project Management associated with the phase 2	$17,271,900.00
	SUB-TOTAL	**$17,271,900.00**
ENGINEERING SERVICES DURING CONSTRUCTION (ESDC) - DESIGN-BUILDER		
Engineering	Engineering Design Services to incorporate permitting and other comments between the Issued for Permitting (IFP) and Issued for Construction (IFC) Design stages	$365,328.20
Engineering Services During	Professional oversight provided by engineers throughout the construction process.	$3,633,073.00
	SUB-TOTAL	**$3,998,401.20**
DIRECT COSTS		
Surveying	Surveying land structures during construction	$55,207.50
Materials Testing	Testing material properties to ensure quality and specifications during construction	$173,995.64
Cast in Place Structural Concrete &	Forming and pouring Cast in Place concrete on-site for various structures and buildings.	$10,659,452.19
Building Structures	Building structures excluding concrete foundations	$3,028,387.93
Canopies	Canopy structures to provide shelter from sun and rain	$1,223,287.79
Misc. Metals Package	Various metal components and fabrications used during construction	$2,326,103.06
Paint and Coatings	Protective chemical resistant coatings to pipe and various concrete structures	$1,043,560.31
Sitework	Site Preparation to support construction	$5,284,162.05
Underground Pipe	Buried pipe for process and utilities	$10,973,180.18
Rigid Inclusions	Underground concrete structures for soil stabilization	$1,588,653.19
Mechanical Installation	Mechanical supply and Installation of process and non-process Mechanical Equipment	$16,182,721.17
Landscaping	Repairing disturbed portions of the site due to construction activities.	$331,245.00
Cathodic Protection	Electrochemical technique to prevent metal corrosion by using sacrificial anodes or impressed current for	$331,245.00
Electrical & I/C	Electrical Supply and Installation electrical systems, instrumentation and PLC control devices	$17,497,218.24
Ductile Iron and Stainless Steel	Supply specific piping and specialty components use in construction	$6,632,830.40
Mechanical Process Equipment	Process Mechanical Equipment Including but not limited to:	$3,320,759.27
	SUB-TOTAL	**$80,652,008.92**
BONDS & GENERAL LIABILITY INSURANCE - DESIGN-BUILDER		
Design-Builder Bonds	Bond guarantees ensuring project completion/contractual obligations	$876,138.70
Design-Builder	Design-Builder General Liability Insurance	$1,298,851.55
	SUB-TOTAL	**$2,174,990.25**
ALLOWANCES - DESIGN-BUILDER		
	Design-Builder Allowances	$6,866,439.28
	SUB-TOTAL	**$6,866,439.28**
	Design-Builder Allowances items included but are not limited to:	
	Sludge Drying Bed Installation - Allowance	
	Building Permit Fees - Allowance	
	Adverse Permitting Impacts	
	Maintenance of Plant Operation (MOPO) Unknowns	
	Repair to Existing Roads Beyond what is required for Expansion Upgrades	
	Unforeseen Plant Shutdown During Construction	
	Unforeseen Rigid Inclusions & Soil Stabilization Issues	
CONTINGENY - DESIGN-BUILDER		
Design Builder's Contingency	Contingencies for unknown construction risks and risks associated with the Risk Register	$9,022,546.25
	SUB-TOTAL	**$9,022,546.25**
	Design-Builder TOTAL	**$119,986,285.90**
COMPANY FIELD MANAGEMENT		
	Veolia Field Management Services	$5,125,707.10
	Veolia Field Management Site Costs	$173,960.86
	SUB-TOTAL	**$5,299,667.96**
GENERAL LIABILITY INSURANCE - COMPANY		
Company	Company General Liability Insurance	$1,478,761.23
	SUB-TOTAL	**$1,478,761.23**
FIXED FEE - COMPANY		
	Overhead Fee	**$6,983,328.81**
	Margin Fee	**$2,887,534.90**
	TOTAL GUARANTEED MAXIMUM PRICE (GMP)	**$136,635,578.80**
COST PLUS ITEMS		
	Cost Plus Items	$7,191,480.00
	ESTIMATED TOTAL COST PLUS ITEMS	**$7,191,480.00**
	Cost Plus Items include, but are not limited to:	
	Bonds	
	Builders Risk Insurance	
	Insurance Deductibles	
	GAC and Sand for the (3) New Filters	
	Spare Gravity Thickener Drive	
	2nd Temp Rental Belt Press & Solids Hauling Truck	
	Trailer Furniture	

	Lab Services for Start-up & Acceptance Testing	
	Additional RFI's	
	End of Project Settlement of Bond and Builder's Risk*	
	TOTAL (GMP + Cost Plus Items)	**$143,827,058.80**
OWNER'S ALLOWANCE		
	Company's Portion of Owner's Allowance Budget	$1,310,000.00
	TOTAL OWNER'S ALLOWANCE	**$1,310,000.00**
	TOTAL (GMP + Cost Plus Items + Owner's Allowance)	**$145,137,058.80**
	Guaranteed Maximum Price Valid Through	17-Mar-25

* End of Project Settlement of Bond and Builder's Risk Insurance is not included in the Estimated Cost Plus Items value

List of Key Assumptions

Tampa Bay Water will be responsible for the cost of insurance deductibles

Cost Plus costs are flexible, allowing for reallocation among the listed items within the Cost Plus Items, with the full amount available for use across all items; in the event that the allowance budget is depleted, Tampa Bay Water will replenish the Cost Plus Items amount to cover any remaining cost items

Cost Plus Items will be purchased by Company, unless otherwise mutually agreed upon and will include Company's Fixed Fee and other costs (e.g. General Liability Insurance and bonds)

GAC and Sand for the Filters with be purchased through the Owner's Direct Purchase (ODP) program

Surface Water Treatment Plant Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 31A – OPEN BOOK CRITERIA AND PAYMENT RQEUIREMENTS (FACILITY EXPANSION WORK)

31.1 INTRODUCTION

This Schedule 31A outlines the Open Book Criteria and Requirements (Facility Expansion Work) that will be used in the administration of Contract Amendment No. 2025-18 for the Facility Expansion Work (hereinafter referred to as "Work") and the GMP (Facility Expansion Work). The GMP (Facility Expansion Work) shall be administered on a partial Open Book arrangement relative to all costs, fees, expenses and other charges for the work for those portions of the GMP (Facility Expansion Work) which are not designated as fixed price. For all packages which are not designated as fixed price, all bid packages, bids, bid awards and subcontracts, sole source determinations, requests for payment and invoices for the work, and any other documents requested by Tampa Bay Water, shall be reviewed by Tampa Bay Water to verify that charges and costs reflected therein and payments requested are reasonable and necessary.

All applications for payment or invoices submitted by the Company shall be accompanied by sufficient documentation and records that allow Tampa Bay Water to conduct an Open Book review on costs not designated as fixed price, and verify that all costs, fees, expenses and charges reflected therein are reasonable and necessary. The minimum deliverables required to be submitted to Tampa Bay Water include the deliverables listed in herein.

31.2 CONTRACT SUM (FACILITY EXPANSION WORK) – In consideration of the performance of the Facility Expansion Work, Tampa Bay Water shall pay the Company, in current funds, (A) the "Contract Sum (Facility Expansion Work)" consisting of the Cost of the Work as defined in Section 31.3, the Fixed Fee described in Section 31.4, and the Field Services Fee as defined in Section 31.5, (B) amounts on account of the Cost Plus Items as described in Section 31.6, (C) amounts on account of the Company's Portion of the Owner's Allowance as described in Section 31.9, (D) any Contingency Savings due to the Company as described in Section 31.8, and (E) additional amounts determined to be due to the Company under the Agreement, including as a result of Uncontrollable Circumstances, Tampa Bay Water Fault or by a Tampa Bay Water requested Change Order. The procedure for submission of applications for payment on account of the Contract Sum (Facility Expansion Work) is set forth in this Schedule 31A.

31.3 COST OF THE WORK –

A. The term Cost of the Work shall mean all costs reasonably incurred by the Company in the proper performance of the Facility Expansion Work. The "Cost of the Work" shall include, but is not limited to the following:

.1 Costs for direct employees of the Company performing the Facility Expansion Work at the Site or, with Tampa Bay Water's agreement, at locations off the Site, including Phase 2 design services, engineering services during construction and construction general conditions labor and expenses. Costs for Field Services Fee, the general conditions costs and the costs for engineering during construction services are provided on a fixed price basis. The costs for direct employees will be based on the hourly rates set forth in Attachment 1 to this Schedule 31A and are subject to annual adjustment starting in October 2023.

.2 Costs of the Company's supervisory and administrative personnel engaged in the performance of the Facility Expansion Work and who are located at the site or working off-site to assist in the production or transportation of material and equipment necessary for the Facility Expansion Work. Costs will be based on the hourly rates in Attachment 1 to this Schedule 31A.

.3 Cost of the Company's personnel stationed at the Company's principal or branch offices and performing project related engineering, procurement, construction management, start-up, commissioning, training, and administration services not otherwise included in Section 31.3(A)(1) and Section 31.3(A)(2). Costs will be based on the hourly rates in Attachment 1 to this Schedule 31A.

.4 Costs of the Company's or its subcontractors' construction craft personnel (plus fringe, burden, incentive costs and administrative costs) engaged in the performance of the Facility Expansion Work and who are located at the site or working offsite to assist in the production or transportation of material and equipment necessary for the Facility Expansion Work.

.5 Payments properly made by the Company to its subcontractors and design consultants for performance of portions of the Facility Expansion Work, including any fees, insurance costs and bond premiums charged by or incurred by its subcontractors and design consultants.

.6 Costs, including transportation, inspection, testing, storage and handling, of materials, equipment and supplies incorporated or reasonably used in completing the Facility Expansion Work.

.7 Costs less salvage value of materials, supplies, temporary facilities, machinery, equipment and hand tools not customarily owned by the workers that are not fully consumed in the performance of the Facility Expansion Work and which remain the property of the Company, including the costs of transporting, inspecting, testing, handling, installing, maintaining, dismantling and removing such items.

.8 Costs of removal of debris and waste from the Site.

.9 The reasonable costs and expenses incurred in establishing, operating and demobilizing the Site office, including the cost of facsimile transmissions, postage, express delivery charges, cell phone service, photocopying, office

equipment rental, office supplies, safety equipment and reasonable petty cash expenses.

.10 Rental charges and the costs of transportation, installation, minor repairs and replacements, dismantling and removal of temporary facilities, machinery, equipment and hand tools not customarily owned by the workers, which are provided by the Company at the Site, whether rented from the Company or others, and incurred in the performance of the Facility Expansion Work.

.11 Premiums for insurance and bonds required by this Agreement for the performance of the Facility Expansion Work; provided, however, that Tampa Bay Water shall be solely responsible for any insurance deductibles on account of the Facility Expansion Work at Tampa Bay Water's sole cost and expense, and the Parties acknowledge and agree that such insurance deductibles are not subject to the GMP (Facility Expansion Work).

.12 All fuel costs incurred in the performance of the Facility Expansion Work as such is related to the Company's or its subcontractors' consumption in the performance of the Facility Expansion Work, which is limited to use of the Company's and its subcontractors' vehicles, subcontractors' rental vehicles and fuel driven equipment required to complete the work. All costs for electricity and sanitary sewage disposal for work trailers for the Company, its subcontractors, and Tampa Bay Water. The costs for potable water for work trailers for the Company, its subcontractors and Tampa Bay Water. All costs to make temporary connections for these (electricity, sewer and potable water) utilities for trailers for the Company, its subcontractors and Tampa Bay Water and its consultants. Water required to hydrotest and disinfect structures and piping elements are excluded from the Cost of Work and will be provided at no cost by Tampa Bay Water through the plant water system, separate from the City of Tampa's potable water system that feeds the facility;

.13 Applicable sales, use or similar taxes, tariffs or duties incurred in the performance of the Facility Expansion Work unless omitted due to application of Tampa Bay Water's Owners Direct Purchase Program.

.14 Costs for permits, royalties, licenses, tests and inspections incurred by the Company as a requirement of the Agreement.

.15 Costs incurred in preventing damage, injury or loss in case of an emergency affecting the safety of persons and property.

.16 Costs for offsite storage of equipment and materials as approved by Tampa Bay Water in advance and in writing.

.17 Costs for all factory start-up services, training, and spare parts required for a complete and functioning facility.

.18 Costs associated with travel for personnel working at the job site, including airfare, rental car, hotel, per diem, miscellaneous travel expenses as well as costs for vehicles and cell phones associated with construction personnel assigned to the project as approved by Tampa Bay Water.

.19 Warranty related cost beyond what is required in any individual equipment purchase or subcontract.

.20 All other costs necessary to design, construct, start-up, and achieve final completion and acceptance of the Facility Expansion Work by Tampa Bay Water, in accordance with the Agreement and standard industry practice.

B. **COST OF WORK EXCLUSIONS -** The following shall be excluded from the Cost of the Work:

.1 Compensation for the Company's personnel stationed at the Company's principal or branch offices, except as provided for in Sections 31.3(A)(1), 31.3(A)(2), 31.3(A)(3) and 31.3(A)(4) hereof.

.2 Overhead and general expenses, except as provided for in Sections 31.3(A)(1), 31.3(A)(2), 31.3(A)(3) and 31.3(A)(4) hereof or which may be recoverable for changes to the Facility Expansion Work.

.3 The cost of the Company's capital used in the performance of the Facility Expansion Work.

.4 Costs that would cause the GMP (Facility Expansion Work), as adjusted in accordance with the Agreement to be exceeded.

.5 Costs that would cause the maximum price for the Field Services Fee, identified in Section 31.5 below, and adjusted in accordance with the Agreement, to be exceeded.

31.4 FIXED FEE - The Company will be paid an "**Overhead Fee**" of 5.5% to cover the Company's overhead and a "**Margin Fee**" of 2.35% to cover the Company's margin, each as set forth in this Section 31.4 (collectively, the Overhead Fee and the Margin Fee are referred to as the Company's "**Fixed Fee**"). The Fixed Fee is included in the GMP (Facility Expansion Work), except to the extent the Fixed Fee is applied to the Cost Plus Items as described in Section 31.6 or for amounts expended in connection with the Company's use of the Company's Portion of the Owner's Allowance Budget as described in Section 31.9. In each application for payment, the Company will charge Tampa Bay Water the Fixed Fee against all costs incurred by the Company in connection with the Facility Expansion Work (including performance and payment bonds, builders risk insurance, general liability insurance, and the Cost of the Work) for the period of such application for payment ("**Costs**"). The Overhead Fee will not be applied to travel and living charges or Company labor charges at rates per Sections 31.3(A)(1), 31.3(A)(2) and 31.3(A)(3). Examples of how the Fixed Fee will be applied are set forth immediately below.

Fixed Fee on Cost with no Company labor charged at rates:

Overhead Fee = (Cost / 0.945) – Cost
Margin Fee = (Cost / 0.9765) – Cost

Numerical example: Cost = $1,000 of which contains no labor charged at rates

Overhead Fee: ($1,000/0.945) - $1,000 = $1,058.20 - $1,000 = $58.20
Margin Fee: ($1,000/0.9765) - $1,000 = $1,024.07 - $1,000 = $24.07
Total Price = Cost + Fixed Fee = $1,000 + $58.20 + $24.07 = $1,082.27

Fixed Fee on Cost that includes Company labor charged at rates:

Overhead Fee = ((Cost – labor charge) / 0.945)) – (Cost – labor charge))
Margin Fee = (Cost / 0.9765) – Cost

Numerical example: Cost = $1,000 of which $300 is labor charged at rates

Overhead Fee: (($1,000 – $300) / 0.945)) – ($1,000 – $300)) = $740.74 - $700 = $40.74
Margin Fee: ($1,000 / 0.9765) – $1,000 = $1,024.07 - $1,000 = $24.07
Total Price = Cost + Fixed Fee = $1,000 + $40.74 + $24.07 = $1,064.81

Company's Fixed Fee shall apply to all costs incurred by Company in connection with the Facility Expansion Work, including any costs included within the Contingency that is part of the GMP (Facility Expansion Work) and any Allowance items, with the exception of application of Overhead Fee to Company labor charged at rates and travel and living.

The Parties acknowledge and agree that the Company shall be permitted to apply the Fixed Fee to equipment and material that is purchased through Tampa Bay Water's Owner Direct Purchase Program as described in the Owner Direct Purchase Program supplement to Amendment 15 to the Agreement.

31.5 FIELD MANAGEMENT – Tampa Bay Water shall pay the Company for its field management services (the "**Field Services Fee**"), which shall be subject to a maximum price set forth in Schedule 30A and included in the GMP (Facility Expansion Work). A description of costs which are included in the Field Services Fee is set forth in Schedule 30A. The Field Services Fee shall be paid in equal monthly amounts based on the project schedule as of the Effective Date of Amendment #2025-18.

31.6 COST PLUS ITEMS – The Parties acknowledge and agree that the Company's costs for the following items are excluded from the GMP (Facility Expansion Work) (such items, the "**Cost Plus Items**"):

- Bonds
- Builders Risk Insurance
- GAC and Sand for three (3) new filters
- Spare Gravity Thickener Drive
- 2nd Temp Rental Belt Press and Solids Hauling Truck
- Trailer Furniture
- Lab Services for Start-up and Acceptance Testing
- Costs associated with Design-Builder's Requests for Information

- Project end settlement of bond costs
- Project end settlement of Builders Risk Insurance Costs

In order to incur costs on account of the Cost Plus Items, the Company shall submit a request to Tampa Bay Water that includes a description of the basis for the request, cost information and pricing information. The Company shall be permitted to incur costs on account of the Cost Plus Items upon prior approval of Tampa Bay Water, not to be unreasonably withheld, conditioned or delayed. Tampa Bay Water shall respond to each request by the Company to incur costs on account of the Cost Plus Items within five business days, the approval of which shall not be unreasonably withheld, conditioned or delayed. Failure to so respond shall be deemed to be Tampa Bay Water's approval of the request. Nothing herein is intended in any way to constitute a guarantee by the Company that the "Estimated Total Cost Plus Items" per Schedule 30A can be performed for the "Estimated Total Cost Plus Items" value set forth in Schedule 30A. In the event that the total value of Cost Plus Items exceeds the Estimated Total Cost Plus Items value set forth in Schedule 30A, Tampa Bay Water shall remain responsible for any applicable approved amounts in excess of such estimated value.

The Parties acknowledge and agree that the Cost Plus Items (i) are essential items the costs of which must be incurred in order to complete the Facility Expansion Work, and (ii) are not subject to the GMP (Facility Expansion Work). Tampa Bay Water's failure to approve any Cost Plus Items or compensate the Company on account of any Cost Plus Items will be deemed a Tampa Bay Fault, and the Company shall be entitled to relief from Tampa Bay Water on account of the impacts of Tampa Bay Water's failure to so approve. For each Cost Plus Item, the Company shall be entitled to reimbursement based on the cost incurred for such Cost Plus Item (including performance and payment bonds, builders risk insurance, general liability insurance and items of that nature related thereto) plus the Fixed Fee. The Company shall include any applicable Cost Plus Items (including general liability cost related thereto) plus the Fixed Fee in its monthly application for payment, and Tampa Bay Water shall pay such amounts as contemplated in Section 31.10. Tampa Bay Water will keep all unused funds allocated in Tampa Bay Water's budget as "Estimated Total Cost Plus Items" at the end of the Project.

31.7 CONTINGENCY – The GMP (Facility Expansion Work) includes a contingency in the amount of nine million twenty-two thousand five hundred forty-six Dollars and twenty-five cents ($9,022,546.25) (the "**Design-Builder Contingency**") that is allocated for the exclusive use by Company's design-build subcontractor (the "**Design-Builder**"). By way of example, and not as a limitation, costs for which the Design-Builder Contingency may be used may include: (a) trade buy-out differentials; (b) overtime or acceleration; (c) escalation of materials; (d) correction of defective, damaged or nonconforming work, design errors or omissions, however caused; or (e) Subcontractor defaults. The Design-Builder Contingency is not available to Tampa Bay Water for any reason, including changes in scope or any other item which would enable the Company to increase the GMP (Facility Expansion Work) under the Agreement. The Company shall provide Tampa Bay Water notice of all anticipated charges against the Design-Builder Contingency, and shall provide Tampa Bay Water as part of the monthly status report an accounting of the Design-Builder Contingency, including all reasonably foreseen uses or potential uses of the Design-Builder Contingency in the upcoming

three (3) months. The Company agrees that with respect to any expenditure from the Design-Builder Contingency relating to a Subcontractor default or an event for which insurance or bond may provide reimbursement, the Design-Builder has agreed in good faith to exercise reasonable steps to obtain performance from the Subcontractor and/or recovery from any surety or insurance company. The Company agrees that if the Company is subsequently reimbursed for said costs, then said recovery will be credited back to the Design-Builder Contingency. The Company agrees that provisions consistent with those set forth in this Section 31.7 will be included in the Subcontract with Design-Builder, and that the Company shall require that Design-Builder comply with such provisions with respect to Design-Builder's use of the Design-Builder Contingency.

The use of the Design-Builder Contingency shall only be allowed to cover items which are considered as part of the Cost of the Work, or fall within (a) – (e) above. The Design-Builder Contingency shall not be used for unallowable costs defined in this Schedule 31A, out-of-scope work, rework required due to gross negligence, or liquidated damages. Further, the Design-Builder Contingency cannot be used to supplement fixed price overruns for the general conditions costs, final engineering services to provide Issued For Construction Plans & Specifications, or the costs for engineering services during construction (all of which are provided on a fixed price basis), and self-performed construction; however, the Design-Builder Contingency can be used to supplement those items if the design is changed resulting in additional costs associated with design changes, or if the schedule is impacted due to another risk item which results in additional general conditions or engineering services during construction.

Tampa Bay Water shall have the right in good faith to dispute the use of any Design-Builder Contingency expenditures that Tampa Bay Water believes in good faith are not allowed by this Schedule 31A by providing prompt written notice to the Company and Design-Builder within 3 business days of being notified of the planned expenditure.

31.8 SAVINGS - If, after Facility Expansion Final Completion, there is a remaining Design-Builder Contingency amount (the "**Contingency Savings**"), such Contingency Savings will be shared between Tampa Bay Water and the Company as follows: (i) seventy percent (70%) of the Contingency Savings for Tampa Bay Water, (ii) twenty-five percent (25%) of the Contingency Savings for the Company (subject to a cap of $2,000,000) (which will be provided to the Design-Builder as set forth in the subcontract between the Company and the Design-Builder), (iii) five percent (5%) for the Company (subject to a cap of $400,000). Tampa Bay Water shall be entitled to any Contingency Savings in excess of the preceding caps.

Contingency Savings allocations shall be calculated and paid as part of final payment for the Facility Expansion Work, with the understanding that to the extent the Design-Builder incurs costs after Facility Expansion Final Completion which would have been payable as a Cost of the Work from the Design-Builder Contingency, the parties shall recalculate the Contingency Savings in light of the costs so incurred, and the Company shall be paid accordingly.

31.9 ALLOWANCES –

The Parties acknowledge and agree that the Design-Builder included certain Allowance Items, as well as an aggregate Allowance Value, in the Design-Builder's guaranteed maximum price as set forth in Exhibit I to the Subcontract between the Company and Design-Builder (the "Design-Build Agreement"). Design-Builder, Tampa Bay Water and the Company worked together to review the Allowance Items and aggregate Allowance Value based on design information then available to determine that the aggregate Allowance Value constitutes a reasonable estimate for the total cost of all Allowance Items. Design-Builder, Tampa Bay Water and the Company will continue working closely together during the preparation of the design to develop Construction Documents consistent with the aggregate Allowance Value. Nothing herein is intended in any way to constitute a guarantee by Design-Builder or the Company that the Allowance Items in question can be performed for the aggregate Allowance Value. The Company shall not permit the Design-Builder to perform work on any Allowance Item without first obtaining in writing advance authorization to proceed from Tampa Bay Water. Tampa Bay Water agrees that if the Company is not provided written authorization to proceed within thirty (30) days of submission of a request for approval related to the Design-Builder's Allowance Items, such failure to so approve shall be deemed a Tampa Bay Water Fault, and the Company shall be entitled to schedule and cost relief. Whenever the aggregate actual cost for all Allowance Items is more than or less than the aggregate Allowance Value set forth in Exhibit I to the Design-Build Agreement, the GMP (Facility Expansion Work) shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between actual aggregate costs incurred by the Company for the Allowance Items and the aggregate Allowance Value. For each Allowance Item, the Company shall be entitled to reimbursement based on the cost incurred for such Allowance Item (including payment and performance bonds, builders risk insurance, general liability insurance and items of that nature related thereto) plus the Fixed Fee. The Company shall include any applicable Allowance Items (including payment and performance bonds, builders risk insurance, general liability insurance and items of that nature related thereto) plus the Fixed Fee in its monthly application for payment, and Tampa Bay Water shall pay such amounts as contemplated in Section 31.10.

Tampa Bay Water shall maintain a separate "**Owner's Allowance Budget**" for the project that is not included in the GMP (Facility Expansion Work). The Owner's Allowance Budget shall include an amount equal to $1,310,000 that is available for the Company's exclusive use for unanticipated costs it has incurred or anticipates incurring that are not the basis for a Change Order under the Agreement (the "**Company's Portion of Owner's Allowance Budget**"). By way of example, and not as a limitation, costs for which the Company's Portion of the Owner's Allowance Budget may be used may include: (a) trade buy-out differentials; (b) overtime or acceleration; (c) escalation of materials; (d) correction of defective, damaged or nonconforming work, design errors or omissions, however caused; and (e) Subcontractor defaults. The Company's Portion of the Owner's Allowance Budget is not available to Tampa Bay Water for any reason under the Agreement. In order to utilize funds from the Company's Portion of the Owner's Allowance Budget, the Company shall submit a request to Tampa Bay Water that includes a description of the basis for the request, cost information and pricing information. The Company shall be permitted to apply the Fixed Fee to any costs (including

performance and payment bonds, builder risk insurance, general liability insurance and items of that nature) for which it has requested compensation on account of the Company's Portion of the Owner's Allowance Budget. The Company shall be permitted to use the Company's Portion of the Owner's Allowance Budget upon prior approval of Tampa Bay Water, which shall not be unreasonably withheld, conditioned or delayed. Tampa Bay Water shall respond to each request by the Company to use the Company's Portion of the Owner's Allowance Budget within three business days. Failure to so respond shall be deemed to be Tampa Bay Water's approval of the requested use. Tampa Bay Water's rejection of a requested use of the Company's Portion of Owner's Allowance Budget shall be subject to the dispute resolution procedures hereunder. The Company's Portion of the Owner's Allowance Budget is not included in the GMP (Facility Expansion Work). Tampa Bay Water agrees that, to the extent the full amount of the Company's Portion of Owner's Allowance Budget is exhausted due to approved uses thereof, Tampa Bay Water will increase the amount available to the Company on account of the Company's Portion of Owner's Allowance Budget as reasonably necessary to facilitate completion of the Facility Expansion Work in accordance with the Agreement. Tampa Bay Water will keep all Owner's Allowance Budget (including the Company's Portion of Owner's Allowance Budget) remaining at the end of the Project.

31.10 APPLICATIONS FOR PAYMENT

.1 Monthly, the Company shall invoice Tampa Bay Water for payment for Facility Expansion Work performed in the preceding month (each such invoice an "invoice" or an "application for payment" hereunder). The format for the monthly invoices shall be reasonably agreed by the parties.

.2 Each invoice referenced in this Section 31.10 of this Schedule 31A shall include: (i) a Master Cost Report in a format reasonably agreed by the Parties, (ii) a Master Invoice Form in a format reasonably agreed by the Parties, (iii) the Field Services Fee based on a percent complete and a schedule of values approved by Tampa Bay Water, (iv) Engineering, Design, and Construction Phase Engineering costs based on a percent complete and a schedule of values approved by Tampa Bay Water, (v) copies of invoices from Subcontractors, material and equipment suppliers, and (vi) other required documentation as reasonably agreed to by the parties.

.3 The monthly payments will be based on a schedule of values template established by Company, and approved by Tampa Bay Water, prior to the first billing (the "**Schedule of Values**"). The Schedule of Values shall remain unchanged unless such changes are approved by Tampa Bay Water or are necessary to reflect approved change orders.

.4 Tampa Bay Water may disapprove and withhold and retain all or any portion of any payment required in any invoice referenced in this Section 31.10 to this Schedule 31A in an amount equal to the sum of: (i) any amounts which are determined to be finally due and owing from the Company to Tampa Bay Water under the Agreement; (ii) any deductions required by Applicable Law; (iii) any payments with respect to which documents to be delivered in connection therewith are not correct and complete; (iv) an amount equal to the

cost of Tampa Bay Water of performing any Work in the event of a failure by the Company or any Subcontractor to timely perform its obligations hereunder; (v) any payments with respect to which the Facility Expansion Work covered by such invoice (or any previous invoice) does not comply with the Agreement; (vi) any payments with respect to which any person has filed a Lien resulting from the acts or omissions of the Company in performing the Facility Expansion Work, where such Lien remains unreleased or unbonded; and (vii) all invoiced payments, if an Event of Default of the Company has occurred under Section 10.3 of the Agreement. The Tampa Bay Water Engineer may, but only in good faith, refuse to recommend that Tampa Bay Water pay the whole or any part of any payment for the reasons set forth in this Section 31.10.4.

.5 Nothing contained in this Section 31.10 shall be construed to affect or limit Tampa Bay Water's right to reject, in whole or in part, the Facility Expansion Work to the extent such Facility Expansion Work is Defective Construction Work. All estimated quantities of Facility Expansion Work for which partial payments have been made are subject to review and correction on subsequent and final invoices submitted hereunder. To the extent that Tampa Bay Water reasonably determines that Defective Construction Work has been cured by the Company, Tampa Bay Water shall pay the remaining amount due for such cured Work no later than twenty-five (25) business days following its receipt of the next monthly application for payment.

.6 The Company shall be paid for materials delivered and properly stored on site (or, with approval of Tampa Bay Water, off-site), but not yet incorporated into the Work. The Company warrants and guarantees that title to all Facility Expansion Work, materials, and equipment requested in any invoice pursuant to this Section 31.10 incorporated into the Work, shall pass to Tampa Bay Water at the time of final payment therefor, free and clear of all Liens, claims, security interests, and encumbrances.

.8 Provided that an invoice consistent with the requirements of the Agreement is received by Tampa Bay Water, and Tampa Bay Water approves such invoice (such approval not to be unreasonably withheld, conditioned or delayed), Tampa Bay Water shall make payment of all undisputed amounts due to the Company not later than twenty-five (25) business days after Tampa Bay Water's receipt of such invoice. All amounts due hereunder by Tampa Bay Water that are not paid when due shall bear interest in accordance with Section 218.735(9), Florida Statutes.

31.11 RETAINAGE – Tampa Bay Water shall withhold from each application for payment, five percent (5%) of the amount due for Facility Expansion Work completed in such month. Upon the Company's successful completion of at least fifty percent (50%) of the Facility Expansion Work (as reasonably determined by Tampa Bay Water), Tampa Bay Water in its sole discretion may reduce or eliminate the retainage amount withheld under subsequent applications for payment, provided the Company is making satisfactory progress and there is no specific cause for a greater retainage. Following such election, Tampa Bay Water may reinstate the retainage up to five percent (5%) for future applications for payment only if Tampa Bay Water

determines, in its sole discretion, that the Company is not making satisfactory progress or where there is other specific cause for such withholding. Upon the Company's successful completion of Acceptance Testing required by Schedule 9B which demonstrates that the Acceptance Standards in Schedule 9B have been achieved, the Company shall submit a partial retainage invoice to Tampa Bay Water for an amount equal to the full retainage withheld by Tampa Bay Water minus one hundred fifty percent (150%) of the amount required to complete all Final Punch List items, as mutually agreed by the Parties, which amount shall be paid in accordance with the payment procedures set forth in this Schedule 31A. Tampa Bay Water shall pay to the Company the remaining retainage upon completion of all Final Punch List items and Final Completion, as applicable.

31.12 COMPANY'S RIGHT TO STOP THE WORK – The Company may, in addition to any other rights afforded under the Agreement or at law, stop the Facility Expansion Work subject to this Section 31.12 upon Tampa Bay Water's failure to make payment of any undisputed amounts due and payable hereunder for a period of seven (7) days after such payment is due. If Tampa Bay Water fails to make a payment by such deadline, the Company has the right to provide Tampa Bay Water with written notice that the Company will stop the Facility Expansion Work unless such failure to make payment is cured within seven (7) days from Tampa Bay Water's receipt of the Company's notice. The Company shall not stop the Facility Expansion Work unless it provides such written notice and Tampa Bay Water has failed to cure the payment default within the seven (7)-day cure period. If Tampa Bay Water does not cure the payment default within such seven (7)-day period, the Company may stop the Work. In such case, the suspension shall be deemed a Tampa Bay Water Fault, and the Company shall be entitled to make a claim for adjustment to the GMP (Facility Expansion Work) and schedule relief (including, for the avoidance of doubt, an extension of to the Facility Expansion Scheduled Substantial Completion Date and the Facility Expansion Scheduled Final Completion Date) to the extent it has been adversely impacted by such stoppage.

31.13 DISBURSEMENT DISPUTES – If Tampa Bay Water determines that the Facility Expansion Work set forth in any application for payment has not progressed to the level of completion indicated, or otherwise disputes any application for payment, Tampa Bay Water shall provide prompt written notice to the Company within five (5) days as to Tampa Bay Water's reasons, in reasonable detail, for such determination or the basis for such dispute. After receiving such determination notice, the Company may make the necessary corrections and resubmit an application for payment to Tampa Bay Water, or Tampa Bay Water may agree on a revised amount, requisition or estimate, as applicable, in which case the Company shall be entitled to payment. In any event, Tampa Bay Water shall pay to the Company the undisputed portion of such requisition, within the time due hereunder. If the Parties are unable to reach agreement as to a matter subject to this subsection, including a disputed invoice or portion of an invoice that is disputed, then the dispute shall be promptly referred to the Independent Engineer for a hearing within five (5) days thereafter. The Independent Engineer shall render a decision within five (5) days thereafter. The payment that the Independent engineer determines is owed, if any, shall be paid within five (5) days after receipt of the Independent Engineer's decision. Either Party may then file an action in a court of competent jurisdiction, and the Parties covenant and agree that the Independent Engineer's decision shall

not be disclosed, revealed or shared in any way with the court. Any proceedings undertaken to resolve a dispute arising under this Section shall immediately terminate if: (1) the Company demonstrates to Tampa Bay Water that the work has proceeded as indicated in the application for payment giving rise to the dispute or that any disputed certified requisition is correct; and (2) Tampa Bay Water concurs with such demonstration, which concurrence shall not unreasonably be withheld. The Company shall not be entitled to payment of the amount so requisitioned and disputed except upon resolution of the dispute in accordance with this Section; provided, however, that the Company shall be entitled to all requisitioned amounts which are not in dispute. Nothing contained in this Section shall be deemed to alter the rights of the parties, if any, under Article 10 of the Agreement. The Company shall continue the Facility Expansion Work while the dispute is being resolved.

31.14 CHANGE ORDERS

.1 Payment or credit for any alterations covered by an accepted Change Order shall be determined by one or a combination of the methods set forth in Section 31.14.2, Section 31.14.3, or Section 31.14.4 herein. For the avoidance of doubt, Change Order costs shall include the Company's costs on account of general liability insurance and the Fixed Fee shall be applied to all such costs.

.2 Those unit prices ("**Unit Prices (Facility Expansion Work)**"), if any, stipulated into Schedule 30A. Unit prices for new items not included in the Schedule 30A may be negotiated and mutually agreed by the Parties.

.3 The Parties may agree to a total lump sum payment any Facility Expansion Work Change Order. Lump sum price quotations for modifications to the Facility Expansion Work shall include substantiating documentation with itemized breakdown of Company and Subcontractor costs, including labor, materials, rentals, approved services, additional bonds, builders risk insurance, general liability insurance and Fixed Fee.

.4 If a method of payment is not established prior to the beginning of the Facility Expansion Work directed by Tampa Bay Water in a written Change Order, Tampa Bay Water may direct that such Facility Expansion Work be performed and compensated on a time and materials basis, accounting for the Company's forces, materials, equipment, and other items of cost as required and used to perform such Facility Expansion Work (such basis, "**Cost Reimbursement (Facility Expansion)**"). For such Facility Expansion Work Change Order work performed, payment shall be made for the documented actual Cost of the Work for such Facility Expansion Work Change Order work and increased bonds, builders risk insurance, and general liability insurance values, as required and approved by Tampa Bay Water. In addition, the Fixed Fee shall be added for the actual performance of the Facility Expansion Work directed by any Change Order.

.5 The Company's records shall make clear distinction between the direct costs of Facility Expansion Work paid for on the basis of Cost Reimbursement (Facility Expansion) and on the bases set forth in Section 31.14.2 and Section 31.14.3 above. The Company shall furnish the Tampa Bay Water Engineer

report sheets of each day's Cost Reimbursement (Facility Expansion) Work Change Order work no later than the week following the completion of any such Change Order work. The report sheets shall itemize the materials used, and shall cover the direct cost of labor and the charges for equipment rental, whether furnished by the Company, Subcontractors, or other forces. The report sheets for such Cost Reimbursement (Facility Expansion) work shall provide names or identifications and classifications of workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment and hours operated. Claims for additional compensation shall be made in itemized details and submitted in writing to Tampa Bay Water and the Tampa Bay Water Engineer within thirty (30) calendar days following completion of the Facility Expansion Work for which the Company bases its claim. If the claim is found to be acceptable by Tampa Bay Water and the Tampa Bay Water Engineer, the Company shall be paid as provided in this Schedule 31A.

31.15 OPEN BOOK DELIVERABLES - Deliverables required to be submitted to Tampa Bay Water, either initially, or on an ongoing monthly basis, include, but are not limited to the following. Any information not specifically listed, will be submitted, upon reasonable request, to Tampa Bay Water in order to conduct an Open Book review and verify all costs.

a. Monthly Pay Application including all required back-up data
b. Master Project Cost Report (updated monthly)
c. Master Project Schedule – Primavera P6 (updated monthly)
d. Contingency Register (updated monthly)
e. Change Order Register (updated monthly)
f. Copies of all Subcontracts
g. Non-Collusion Affidavits for all Subcontractors
h. Copies of all Purchase Orders
i. Copies of all change orders
j. Any other documents requested by Tampa Bay Water, as mutually agreed to by the parties.

31.16 COMPETITIVE BIDDING PROCESS - For each Subcontract, Material Purchase Order, and Process Equipment Purchase Order that exceeds $150,000, the Company shall solicit and obtain a minimum of three (3) competitive bids, unless (i) specifically waived in writing by Tampa Bay Water for each procurement, (ii) a reasonable outreach effort to solicit multiple quotes was performed but bids were not received, or (iii) the Subcontractors or suppliers have been previously approved by Tampa Bay Water as set forth in this Schedule 31A. The following outlines the procedures for the bidding process for those Subcontracts, Material Purchase Orders and Process Equipment Purchase Order that are subject to competitive bidding as set forth immediately above:

.1 **Prospective Bidders –** Qualified firms will be identified by the Company or the Design-Builder for each Bid Package, and a Master Bidders List will be maintained.

.2 **Prequalification of Subcontractors** - All subcontractors shall be pre-qualified by the Company or the Design-Builder and approved by Tampa Bay Water prior to receiving a Bid Package. The prequalification package shall contain as a minimum, a Safety and Health Questionnaire, Financial Questionnaire, Project Experience information, references from previous projects, and any other related information. Prequalification criteria shall be developed by the Company or the Design-Builder, approved by Tampa Bay Water, and used to evaluate all subcontractors who submit prequalification packages. All subcontractors who meet the prequalification criteria shall be allowed to bid on the work for which they are pre-qualified.

As a minimum, sub-contractors must meet the following requirements in order to be allowed to bid work on this project:

a. Experience Modification Rate (EMR) for each of the past three premium years equal to or less than 1.0, or present reasonable reasons for an EMR in excess of 1.0.
b. Successful completion of similar type construction at water and wastewater treatment plants.
c. Ability to provide sufficient Bonding and Insurance coverage as required by the Company or the Design-Builder and approved by Tampa Bay Water
d. Any other requirements established by the Company or the Design-Builder and Tampa Bay Water

.3 **Pre-Bid Review of Bid Packages -** All Bid Packages for subcontractors, material suppliers, and process equipment procurement shall be submitted for review to Tampa Bay Water prior to issuing for bids. Large subcontractor bid packages should include a site walkthrough.

.4 **Bid openings -** All bids will be opened in accordance with the Company's or the Design-Builder standard policy and as approved by Tampa Bay Water

.5 **Non-Collusion Affidavits -** The Company or the Design-Builder and all subcontractors and suppliers are required to fully comply with the requirements contained in the contract. All subcontractors and suppliers shall submit a non-collusion affidavit in substantially the form appended as Attachment 2 hereto.

.6 **Post-Bid Review of Bids –** The Company shall submit to Tampa Bay Water, copies of all bids submitted for each bid package, accompanied by a Bid Tabulation Form and a recommendation for award. Tampa Bay Water reserves the right to reject any bid; however Tampa Bay Water acknowledges that its rejection of a bid may result in impacts to the GMP (Facility Expansion Work), including additional cost and schedule impacts, for which the Company shall

be entitled to an equitable adjustment hereunder. Periodic review meetings are to be scheduled to review selection recommendations and solicit Owner's input.

31.17 SUBCONTRACTS AND PURCHASE ORDERS - The Company will provide copies of all Company executed subcontracts and purchase orders to Tampa Bay Water for review. Copies of all executed Change Orders to Subcontractors, material suppliers, and process equipment suppliers will also be provided.

31.18 SELF-PERFORMING WORK - Upon written approval from Tampa Bay Water, the Company or the Design-Builder shall be eligible to self-perform or subcontract certain portions of Facility Expansion Work that is not competitively bid, such as general work or services required for use by all subcontractors, work where competitive bidding is deemed impractical or inappropriate, work that is done on an emergency basis, work requiring expeditious performance where time required for bidding would delay the Project, or other work where it is in the interest of Tampa Bay Water to have the Company or the Design-Builder perform the Facility Expansion Work.

The Design-Builder may at its election self-perform the following portions of the Facility Expansion Work.

- Electrical Installation
- Controls and Automation
- Process Mechanical
- Other work as approved by Tampa Bay Water

The Cost of this Work shall be performed as a lump sum price as set forth in Schedule 30A. The self-performance of such work by Company or the Design-Builder is subject to Tampa Bay Water's approval prior to performing such work, except immediate verbal approval by Tampa Bay Water shall be given for work done on an emergency basis. On non-emergency work and non-critical path work, the Company or the Design-Builder will provide a price and schedule to Tampa Bay Water for such work, and Tampa Bay Water shall have seven (7) days to approve price and schedule, to the extent such self-performed work is not approved under this Schedule 31 or as set forth in Schedule 30A.

31.19 APPROVED SUBCONTRACTORS AND SELF-PERFORMED WORK - The following Subcontractors have been approved by Tampa Bay Water and utilization of such Subcontractors shall require no further or separate written approval by Tampa Bay Water. Design-Builder is hereby approved to self-perform the work identified immediately below, and such self-performance shall require no further or separate written approval by Tampa Bay Water. In the event that a named subcontractor or vendor described below is unwilling or unable to perform the work as planned, Tampa Bay Water shall reasonably and promptly approve a replacement of the Company's choosing.

	Discipline	Sub-Contractor
1	Materials Testing	Driggers Engineering Services Inc
2	Cast in Place Structural Concrete & Masonry	Integ-Crete Construction, LLC.
3	Canopies	Davis Construction Enterprises, Inc.

4	Misc. Metals Package	Dixie Metal Products Inc.
5	Paint and Coatings	Exceletech Coatings Applications, LLC
6	Sitework	Kimmins Contracting Corp.
7	Underground Pipe	Kimmins Contracting Corp.
8	Rigid Inclusions	Keller North America, Inc.
9	Mechanical Installation	CDM Constructors Inc.
10	Electrical & I/C Installation	CDM Constructors Inc.
11	Ductile Iron and Stainless Steel Pipe & Specialties	Core & Main
12	Carter & Verplanck, Inc.	Progressing Cavity Pumps
13	Coastal Pump & Equipment	Lime Slurry Pumps
14	Arroyo Process Equipment	Diaphragm-Type Metering Pumps, Spur Gear Metering Pumps
15	TSC- Jacobs	Peristaltic Metering Pumps

31.20 SOLE-SOURCE EQUIPMENT PROCUREMENT – For all major Process Equipment or subcontracts which may be procured from a sole-source by the Company without receiving three (3) competitive bids, the Company shall provide, for each piece of major Process Equipment, documentation listing the purchase price of three (3) similar systems procured, or three (3) similar services performed, within 24 months. The following major Process Equipment vendors are approved as sole-source procurements.

Sole Source List

1	**Serpentix**	Bulk Material Conveyors
2	**CDM Constructors**	Instrumentation and controls
3	**Driggers (as a sub to CDM)**	Geotechnical Materials Testing and Inspection
4	**George F. Young (as a sub to CDM)**	Survey & Mapping Services
5	**Arehna Engineering, Inc. (as a sub to CDM)**	Geotechnical and Material Testing Services
6	**KRÜGER, INC.**	Actiflo® or Actiflo Turbo® System
7	**Suez**	Ozone System, Liquid Oxygen System
8	**F.B. Leopold, Inc.**	Type-S Filter Underdrains
9	**Statiflo International, LLC.**	Ozone dissolution system
10	**Corrpro Company, Inc.**	Corrosion Control

31.20 ADDITIONAL SOLE-SOURCE EQUIPMENT PROCUREMENT – The following minor components were identified by plant operations and are added to the sole source list to maintain consistency across all process treatment trains. (model numbers to be verified during final design)

Additional Sole Source List

1	**Chemical Pumps**	
	Ferric Sulfate Pumps	Watson Marlow Hose Pumps (Model SPX 25) to Match Existing
	Sulfuric Acid Pumps	Isochem Mag Drive Gear Pump (Model GMC4-DDT-TTF) to Match Existing
	Sodium Hydroxide Pumps	Liquiflo Mag Drive Gear Pumps (Model H9R) to Match pump skids recently purchased by Plant Operations (Ops)

	Lime Recirculation Pumps	Shurco (Model 1.5SB25, 7 & 15HP) to Match Existing Purchased by Ops (Ref. 2021-06 MERR)
2	**Other Mechanical & Electrical Equipment**	
	Pre & Post Ozone Mixers	SPX Flo/Lightin to Match Existing
	Belt Press Feed Pumps	Neztch to Match Existing
	Filter Valve Operators	Limitorque or Auma not Rotorque (Non DeviceNet)
	Lime Pinch Valves	Onyx to Match Existing
	Side Stream Injection/Motive Water Pumps	Summit Pumps (Model 2196 STO 2x3-6) to Match (5 of 8) of the Existing
	Sand Transfer Pump	McLanahan Rubber Lined Pumps to Match Existing
	Polymer Makeup System	Match existing (Stranco) for Consistency
3	**Instrumentation**	
	(included in Instrumentation Procurement)	
	Raw Water Flow Meter	Venturi Tubes with Rosemount (Model 3051) Pressure Transmitters
	Filter Turbidity Meters	Swan (Model AMI-2) to Match Existing
	Post Lime/Filter Inlet Turbidity	Hach Solitax (Model 69403-00) to Match Actiflo & Existing
	Post Lime/Filter Inlet pH	Endress & Hauser Liquiline (Model M CM42) to Match Actiflo & Existing
	Sludge Flow Meter	Endress & Hauser Magmeter (ProMag) to Match Existing
	Level Instruments	VEGA (Model Nos. DS82H & CR-222 23E) to Match Existing
4	**PLC Processors**	
	(included in Control Panel Procurement)	
	PLC Processors	Allen Bradley ControlLogix and CompactLogic
	Control Panel HMI's	PanelView Plus 7
	Communications	Ethernet based only (No DeviceNet or Prophibus)
5	**High Rate Sedimentation**	
	(provided in the Actiflo Procurement)	
	Sand Recirculation Pumps	McLanahan Rubber Lined Pumps (Model 6X5GA)
	pH Instruments	Endress & Houser Liquiline (Model M CM42)
	Turbidity Instruments	Hach Solitax (Model 69403-00)
	Scraper Drive Pressure Transmitter	Rosemount (Model 3051)
	PLC Processors	Allen Bradley ControlLogix/PanelView Plus 7
6	**Ozone System**	
	(provided in the Ozone Procurement)	
	Instrumentation	To Match Train #1 & Train #2
	High Concentration Ozone	BMT to match all Four Trains
	Ambient Oxygen/Ozone	ATI to match all Four Trains
	Flow Meters	Rosemount (Model 3051) with Orifice Plates (No Coriolis Meters)
	LOX Tank	Chart or Taylor-Wharton to Match Train #1 & #2 or Train #3 & #4
	Vaporizers	To Match Train #1 & #2 or Train #3 & #4
	On Skid Components	To Match the Replacement Train #1 & #2 Units

PLC Processors	Allen Bradley ControlLogix/CompactLogic/PanelView Plus 7

ATTACHMENT 1 – WAGE RATES

Project Executive/Principal	$250.23
Sr. Project Manager	$177.25
Project Manager	$145.97
Project Technical Advisor	$177.25
Sr. Construction Manager	$130.33
Construction Manager	$109.48
Project Engineer	$109.48
Scheduler/Estimator	$99.05
Administrative Assistant	$78.20
Belt Press Operator	$72.10
Operations Liaison	$128.75

ATTACHMENT 2 - NON-COLLUSION AFFIDAVIT

Non-Collusion Affidavit of _____
(Subcontractors and Suppliers)
State of _____
County of _____
_____ being first duly sworn deposes and says that:
(Name of Affiant)

(1) He/She is _____ of _____.
(Position) (Name of Company)
herein referred to as the SUPPLIER;

(2) He/She is fully informed respecting the preparation and contents of SUPPLIER'S Proposal/Quote and all pertinent circumstances respecting the Proposal/Quote that has been submitted by the SUPPLIER to CDM, (hereinafter referred to as "the Design Builder") on _____ (for certain work in connection with the Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant Facility Expansion Work (the "Project").

(3) A copy of SUPPLIERS Proposal/Quote is attached hereto;

(4) SUPPLIER'S Proposal/Quote is genuine and is not a collusive or sham Proposal/Quote;

(5) Neither the SUPPLIER nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this Affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Proposer/Bidder, with the Design Builder, or with any firm or person to submit a collusive or sham Proposal/Quote in connection with proposed Contract Number , or has in any manner, directly or indirectly, sought an unlawful agreement of connivance with any other Proposer/Bidder, the Design Builder, or any firm or person to fix the price or prices in said SUPPLIER'S Proposal/Quote or secure through collusion, conspiracy, connivance or unlawful agreement any advantage against Company or Owner with respect to the Project and

(6) The price or prices quoted in the SUPPLIERS Proposal/QUOTE are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the SUPPLIER or any of its representatives, owners, employees, or parties in interest, including this Affiant.

Affiant also attests that:

(a) The proposal work/services are reasonable and necessary based on the scope of work for the Project

(b) There are no known or anticipated conflicts of interests relating to Proposal/QUOTE

(c) There is no record of felony criminal convictions or pending felony criminal investigations against the SUPPLIER

(d) There are no final judicial or administrative findings or adjudication of illegal employment or discrimination against the SUPPLIER

(e) There are no outstanding Florida State or local taxes owed by the SUPPLIER

(f) There are no final judicial or administrative findings or adjudication of non-performance in contracts within the past 10 years

_____ _____ _____
(Authorized Signature) (Date) (Title)

Sworn to and subscribed before me
this _____ day of _____ _____
Personally known _____ Notary Public - State of _____
OR Produced Identification _____ My Commission Expires _____
_____
(Type of Identification)

Surface Water Treatment Component of the Tampa Bay Regional Water Treatment Plant

SCHEDULE 33 – COMPANY SCOPE OF SERVICES (FACILITY EXPANSION WORK)

Company Responsibility

Company's scope of work in connection with the Facility Expansion Work can be generally described as developing, managing and facilitating the execution of the Construction Phase Services (Phase 2) for the Surface Water Treatment Plant Expansion, including oversight of the Design-Builder's efforts. Company will host and participate in all collaborative efforts (e.g. workshops and meetings), review and approve the various work products generated by the Design-Builder and participate in construction related decisions.

Company will provide ongoing project management services over the duration of the project, will manage the work of the Design-Builder and will provide work products developed by Company and the Design-Builder to Tampa Bay Water.

Task 1 - Company Construction Phase Services Activities

Project Management activities performed by Company, unless otherwise noted, will include, but not limited to, the following:

- Overall Project Management
- Staff the Construction Phase Services (Phase 2) sufficiently to perform all Scope of Work activities
- Provide full-time on-site supervision and oversee the Design-Builder's work throughout construction
- Manage QA/QC through coordinated construction inspections and resolve noted deficiencies
- Monitor and track compliance with Project Drawings and Specifications, RFI Responses, Work Change directives, Field Directives, Bulletins and any other Construction related changes to the change to original design
- Manage stakeholders - Facilitate exchange of information among the parties and general coordination among the participating parties
- Perform value engineering analysis where available/applicable
- Conduct and participate in project meetings (e.g. Owner meetings, progress meetings, various stakeholder meetings) - Includes creation, distribution and filing of the requisite agendas and minutes (some by Design-Builder and some by Company as defined by Project Execution Plan)
- Coordinate Design-Builder's work with Company Operations - Involve Company Operations to utilize experience and expertise to facilitate Construction decisions
- Coordinate Design-Builder's geotechnical and surveying activities
- Coordinate Design-Builder's work with Tampa Bay Water
- Interface between Tampa Bay Water (and Owner's Advisor) and the Design-Builder

- Perform Document Control - In accordance with what is established in the Document Control Plan and is otherwise decided to be implemented as a practice for the project
- Establish Construction Submittal Protocol - In conjunction with Design-Builder and Tampa Bay Water
- Maintain the Master Project Schedule - Primarily authored by Design-Builder but reviewed by Company
- Maintain project records - Data entry/posting of information/data for Masterworks and Procore (some by Design-Builder and some by Company as defined by Project Execution Plan
- Develop Traffic Control Plan - Primarily authored by Design-Builder but coordinated with Company Operations and reviewed by Company
- Track project costs and maintain budget controls / Prepare Monthly Invoice
- Analyze and respond to request for changes in work from Tampa Bay Water
- Analyze and negotiate requests for change orders from Design-Builder
- Administration of change orders
- Manage Owner Direct Purchase (ODP) Program
- Coordinate and conduct Open Book Review of the Design-Builder True-up process to get to 100% Issued for Construction (IFC) design stage
- Maintain records relating to the approved use of Design-Builder Contingency, Design-Builder Allowance, Cost Plus Items and Owner's Allowance amounts
- Identify and track potential cost impacts through a of PCO log
- Identify and resolve disputes between various parties involved in the project
- Monitor the Design-Builder's Building Permit acquisition and closeout process
- Coordinate Transition Plan and Acceptance Test Plan activities
- Coordinate equipment testing with vendors and subcontractors
- Review vendor O&M manuals and assist in development of Project O&M Plan and O&M Manual
- Manage punch list process including development, tracking and closeout of all items

Task 2 - Company Construction Phase Services Deliverables and Documentation

Both Company and the Design-Builder will provide deliverables and documentation in support of executing the Surface Water Treatment Plant Expansion Construction Phase Services (Phase 2). Those listed below are inclusive of, but not necessarily limited to, deliverables and/or other documentation to be prepared and/or provided by Company during Construction Phase Services (unless otherwise noted):

- Monthly Construction Progress Report
- Master Project Schedule Updates – Primavera P6 (updated monthly) (prepared by Design-Builder)

- Monthly Progress Meeting agendas and minutes
- Construction Submittal Protocol/Document Control Plan
- Project Execution Plan - Company's project management document that will be prepared to provide a concise summary guide of scope, contacts, relationships, responsibilities, activities, deliverables, record keeping, and other necessary processes, protocols, controls and functions for the project team
- Copies of approved major equipment submittals
- Copies of approved major construction submittals
- Updated Task/Action Item Log
- Project Reference Guide (PRG) (Contact List)
- Photo Documentation Plan
- Transition and Acceptance Test Plans
- Procurement Plan Update
- Permit Plan/Log Updates
- Risk Register Updates
- Substantial and Final Completion Certifications
- Final Documentation Package
- Final Warranty Binder
- Final 100% Issued for Construction (IFC) Record Drawings
- Any other documentation requested by Tampa Bay Water, as agreed to by the parties

Task 3 - Interface with Tampa Bay Water's Masterworks Project Management Software

Company will utilize Tampa Bay Water's Masterworks Project Management Software for the following activities:

- Invoices will be processed through Masterworks Items Posting and Pay Estimates Modules
- Minutes of meetings will be sent via MS Word and/or Adobe pdf format and uploaded to Masterworks
- Project schedule will be updated monthly and uploaded to Masterworks in pdf format
- All approved final major submittals and applicable RFIs shall be inserted into Tampa Bay Water's Masterworks by Company as a means of getting the final documents into the Masterworks submittal flow process for record. Company's Procore Project Management System (PMS) will be utilized for the control and approval of construction related documentation and approvals.
- Upload updated versions of Construction documents following issuance by the Construction-Builder.
- Upload or import compiled risks following risk working group meetings/discussions.
- Populate and update Permit Register as required.

SCHEDULE 33 – COMPANY SCOPE OF SERVICES (FACILITY EXPANSION WORK)

Misc.

Schedule 31A describes responsibilities of the parties regarding provision of utility services for the construction trailers. The Company will provide a construction trailer for use by Company and Tampa Bay Water personnel, including Owner's Advisor personnel for up to 32 months.

Staffing

The following positions will be provided at the project site:

1. Project Director: The Project Director has overall responsibility for the project. Responsibilities include lead for communications and meetings with Tampa Bay Water and the Design-Builder, internal (Veolia) communications/coordination (various approvals, reporting, requests, etc.), overall project guidance and oversight, and managing and coordinating various teams and key individuals involved in the project. Oversees and leads complex negotiations as applicable, focusing on finalizing contracts (or change orders) that involve challenging or non-standard terms and conditions and resolution of technical matters. Responsible for prioritization of work, staff work assignments, securing involvement for necessary subject matter experts to participate in the project as needed, hiring/terminating of project staff, review of employee performance, management of human resource matters and general overall management of staff. The Project Director will prepare the Monthly Status Report and will chair the Monthly Project Meeting.

2. Project Manager: Responsible for overall financial activities of the project, including invoicing to Tampa Bay Water, payment to Design-Builder, monitoring of project financial status, validation of pay application accuracy, coordination and processing of change orders, matters of Contingency and Owner's Allowance use and oversight of Construction Manager activities. Also, responsible for change management, procurement monitoring, activities resulting from implementation of the Owner's Direct Purchase program, development of the Project Execution Plan, closeout and turnover of project, assembly of the Warranty Package and financial and permitting related entries into Tampa Bay Water's Masterworks software. There are several distinct activities subject to invoicing/payment, of which many overlap (e.g. 100% IFP Design, SCADA System Upgrades Design, Ozone 1 & 2 Replacement, Expansion Construction and SCADA System Upgrades Construction). The Project Controls Specialist will work closely with the Project Manager to aid in addressing these responsibilities.

3. Construction Manager: Responsible for monitoring and documenting daily construction activities, reviewing and statusing the actual progress versus the schedule, inspection of work to ensure compliance with specifications and quality standards, review of third party testing results, monitoring and ensuring that required testing is being completed, identification of

defects and/or issues with construction work, monitoring for compliance with permitting requirements, monitoring for compliance with environmental requirements, monitoring for compliance with safety requirements, execution of high frequency safety events (e.g. subcontractor and employee orientation and weekly inspections), working with the Design-Build team to resolve challenges, punchlist development and closeout, and working with the Design-Builder and Operations Liaison regarding tie-ins, MOPO Plan execution, commissioning, startup and Acceptance Testing. The Project Engineer will work closely with the Construction Manager to aid in addressing these responsibilities.

4. Project Engineer: Responsible for coordinating Tampa Bay Water and Veolia participation in engineering draft product reviews (e.g. 100% IFP Design, IFC Design, and SCADA 100% Upgrades Design) and management of comments to resolution. Responsible for working with the Design-Builder to resolve engineering issues during construction (e.g. creation and resolution of RFIs), reviewing project documentation (e.g. startup & commissioning plan). Responsible for Request for Information reviews, shop drawings reviews, oversight and coordination of involvement for Tampa Bay Water and Veolia. This position will also support the Operations Liaison & Startup Coordinator with items such as monitoring vendor startup activities, monitoring functional testing, observing field testing, documenting performance testing for Veolia, monitoring vendor startup activities and training coordination. Responsible for obtaining manufacturer's certificates of installation, certificates of startup and testing, and certificates of training. Responsible for performing activities as assigned by the Construction Manager to support both the Construction Manager and Project Manager.

5. Project Controls Specialist: Responsible for entries and organization of Procore data, document control functions, including tracking of redline drawings, construction photo management, project data in general and document filing (document control), documentation of Quality Control and other administrative efforts to ensure proper project documentation and file retention ensuring that all project documents are up-to-date, properly stored, and easily accessible. Responsible for project records and non-financial entries into Tampa Bay Water's Masterworks software (e.g. RFIs, submittals, final design documents, Risk Register modifications and meeting agendas/minutes). Responsible for transmittal, receipt and filing of communications among the parties (e.g. those items cited above). With the multi-party project structure, there are several parties performing reviews and participating in resolution of issues. This position will manage the multiple point flow of information. The Project Manager responsibilities are extensive and the Project Controls Specialist role will be key in completion of such.

6. Operations Liaison & Startup Coordinator: Responsible for coordinating activities between the Design-Builder and Veolia Operations relative to tie-ins, MOPO Plan execution,

commissioning, startup, and Acceptance Testing. Additional duties include contributing to the startup & commissioning plan and facilitating training coordination between the Design-Builder and Veolia Operations. Throughout the construction process, the Facility will maintain production responsibilities, requiring close coordination between the Design-Builder and Veolia Operations. Furthermore, this position will be tasked with preparing Standard Operating Procedure documents, overseeing the update and receipt of the facility O&M Manual by Operations, and managing the associated coordination with the Design Builder and the Veolia team.

7. SCADA/I&C: Responsible for reviewing general SCADA/I&C design efforts during 100% IFP design and Issued For Construction (IFC) design and participating in the resolution of issues related to SCADA/I&C features during construction and startup. This role will be involved in the controls aspects for planning for tie-ins, MOPO, commissioning, startup and Acceptance Testing, as SCADA/I&C elements will be present in each of these phases.

8. Temporary Belt Press Operator (TBD): The primary responsibility for this position will be to operate the temporary belt presses and the truck with trailer that receives solids from the temporary belt presses.

March 6th, 2025

Michael Kuhn, MS, P.E., PO, BCEE
Director – Capital Program Management
2301 Regional Water Lane
Tampa, FL 33619

Subject: Tampa Bay Water Regional Surface Water Treatment Plant PDB Project – Guaranteed Maximum Price (GMP) Proposal.

Dear Mr. Kuhn:

CDM Smith wants to thank you for the opportunity to submit to Veolia North America the Guaranteed Maximum Price (GMP) package for the Regional Surface Water Treatment Plant Progressive Design Build Project in the amount of $119,986,285.90. The package includes the following items:

1. Summary of GMP Costs
2. Basis of GMP
3. GMP Schedule
4. General Conditions
5. Final Design & Engineering Services During Construction
6. Risk Register
7. Bid Analysis

Sincerely,

Ryan Hagaman
Vice President
CDM Smith Inc.

Cc: Matthew Trzcinski, CDM Smith, Inc.

Tommy Floyd, CDM Smith, Inc.

Steve Solters, CDM Smith, Inc.

Attachment 1

Summary of GMP Costs

Tampa Bay Water -Veolia North America
Surface Water Treatment Plant
Tampa, Florida
Progressive Design-Build
CDM Smith

Electronic Date: Monday, March 3, 2025

Guaranteed Maximum Price (GMP)

DIRECT COST	**$74,505,320.00**
Builders Risk Insurance	**Excluded**
General Liability	**$1,199,862.86**
Design-Builder Bonds	**$809,366.00**
Design-Builder OH&P (8.25%)	**$6,312,450.28**
Design Builder's Contingency**	**$9,022,546.25**
General Conditions	**$17,271,900.00**
Final Design & ESDCs	**$3,998,401.20**
Allowance - Sludge Drying Bed	**$6,866,439.31**
Allowance - Building Permit Fees	
Allowance - Permitting Impacts (formerly risk register item 5)	
Allowance - MOPO (formerly risk register item 27b)	
Allowance - Existing Roads (formerly risk register item 39)	
Allowance - Plant Shutdown (formerly risk register item 42)	
Allowance - Rigid Inclusions & Soil Stablization (formerly risk register item 45)	
***Total GMP Value**	**$119,986,285.90**

Confidential trade secret information exempt from disclosure under applicable public records law

*Does not include EPP-1, EPP-2, or Currently Contracted Phase 1 Services

**Design Builder's Contingency does not include the risk items included in the Owner's Contingency. The Design-Builder's Contingency covers those items in the risk register not identified as Owner's items, as well as any other design-build risk in accordance with the contingency and cost of work definition in the Agreement.

Other Commitments Related to the Project Not Part of this GMP:

Phase 1 Services to 60%	**$4,425,617.84**
CO No. 1 Sludge Drying Beds Design	**$122,535.00**
CO No. 2 Belt Filter Press Design	**$206,481.00**
CO No. 4 Various PCOs	**$377,803.00**
Design to Issued for Permit (IFP)	**$4,641,732.00**
EPP-1 (CDM Smith Only, Estimated Only)**	**$298,275.00**
EPP-2 (CDM Smith Only, Estimated Only)**	**$2,383,770.92**
Rigid Inclusion Design	**$104,726.05**
Total of Various Project Components	**$132,547,226.71**

**EPP-1 & EPP-2 are equipment offerings and not GMPs.

Bid Analysis

2024-08 RSWTP-60% Blue Sheets

Package/Section:	EPP1	EPP2	Selected Bid	GMP OPCC	Variance
400.20 00 01 PO EPP1: SUPPLY Train 5 High Rate Sedimentation (Actiflo)	$ 2,980,507			$ 3,014,743	$ (34,237)
400.20 00 02 PO EPP1: SUPPLY Ozone Generator/PSU/Destruct LOX/GOX and Chiller System	$ 4,502,377			$ 4,834,469	$ (332,091)
400.20 00 03 PO EPP1: SUPPLY (1) Lot (GAC) Carbon	$ 1,506,144			$ 1,506,144	$ -
200.40 00 20 Install Filter Media	$ 254,715			$ 254,715	$ -
400.20 00 04 PO EPP1: SUPPLY (1) Lot Silica Media Sand	$ 47,427			$ 17,452	$ 29,975
400.40 05 64 PO EPP2: Large Bore Valves		$ 574,428		$ 651,282	$ (76,854)
400.41 12 13.19 PO EPP2: Bulk Material Conveyors		$ 1,094,672		$ 1,540,000	$ (445,329)
400.43 41 45 PO EPP2: FRP Tanks		$ 1,001,141		$ 1,209,375	$ (208,234)
400.46 31 54.01 PO EPP2: Ozone Dissolution System		$ 565,710		$ 221,719	$ 343,991
400.46 36 13 PO EPP2: Lime Storage Silo		$ 489,394		$ 537,500	$ (48,106)
400.46 36 43 PO EPP2: Lime Feed Equipment		$ 392,565		$ 395,600	$ (3,035)
400.46 61 23 PO: Underdrain System - Leopold		$ 1,975,292		$ 758,417	$ 1,216,875
400.46 61 23.01 PO: FRP Wash Water Troughs - INC W/ UNDERDRAIN		$ 174,150		$ 174,150	$ -
400.46 76 21 PO: Belt Filter Presses		$ 5,258,109		$ 4,444,590	$ 813,519
200.01 32 23 Surveying			$ 51,000	$ 51,000	$ -
200.01 45 23 Materials Testing			$ 160,735	$ 255,000	$ (94,265)
200.03 00 00 Cast in Place Structural Concrete & Masonry			$ 9,847,069	$ 12,007,833	$ (2,160,764)
200.03 00 00 Building Envelope			$ 2,797,587	$ 2,797,587	$ -
200.03 00 00 Canopies			$ 1,130,058	$ 2,255,220	$ (1,125,162)
200.05 00 00 Misc Metals Package			$ 2,148,825	$ 1,698,232	$ 450,593
200.09 96 79 Paint and Coatings			$ 964,028	$ 1,199,594	$ (235,565)
200.31 00 00 Sitework			$ 4,881,443	$ 3,683,657	$ 1,197,786
200.31 00 01 Underground Pipe			$ 10,136,887	$ 6,756,520	$ 3,380,366
200.31 00 10 Ridgid Inclusions			$ 1,467,578	$ 2,880,438	$ (1,412,861)
200.40 00 01 Mechanical Installation			$ 14,949,396	$ 16,320,000	$ (1,370,604)
400.46 76 30 Landscaping			$ 306,000	$ 306,000	$ -
400.46 76 41 Cathodic Protection			$ 306,000	$ 306,000	$ -
503.26 00 00 Electrical & I/C			$ 16,163,712	$ 15,003,995	$ 1,159,718
400.40 00 10 PO SUPPLY DI, SS Pipe & Specialties			$ 6,127,326	$ 4,888,771	$ 1,238,555
200.40 00 12 Supply Mechanical Equipment			$ 3,067,676	$ 2,757,425	$ 310,251
SUBTOTAL	$ 9,291,169	$ 11,525,460	$ 74,505,320	$ 92,727,428	$ 2,594,522
Escalation					
TOTAL	$ 9,291,169	$ 11,525,460	$ 74,505,320	$ 92,727,428	$ 2,594,522

Attachment 2

Basis of GMP

Introduction

Tampa Bay Water (Owner), through its contractual agreement with Veolia Water North America (Company), to operate the Tampa Bay Regional Surface Water Treatment Plant (SWTP), is implementing the Surface Water Treatment Plant Expansion Project (Project) to help meet increasing demand for drinking water. The project will increase the operating capacity and the design-rated capacity of the SWTP. The initiative aims to enhance SWTP operational capacity, enabling it to function with all process units and supporting facilities at an increased potential range, providing flexibility to run individual or all unit processes.

The Guaranteed Maximum Price (GMP) for the final design to 100% Issued for Construction (IFC), construction, engineering services during construction, startup, and closeout of the Project is $119,986,285.90.

General Assumptions & Clarifications

I. This GMP does not include the values for Early Procurement Package Number 1 (EPP-1) or Early Procurement Package Number 2 (EPP-2) as both are not guaranteed proposals and are being delivered as part of a different proposal.

II. This GMP is based on acceptable Terms and Conditions being presented to CDM Smith (Design-Builder).

III. This GMP is valid until March 17th 2025 with Notice To Proceed no later than March 24th 2025.

IV. Cost escalation due to public posting of the subcontractor and supplier quotations is excluded. DESGIN-BUILDER reserves the right to modify the GMP if Subcontractor or Vendor quotes are exposed prior to Notice to Proceed (NTP).

V. Design Builder will perform the General Conditions Costs for the lump sum amount of $17,271,900. which is included as part of GMP. General Conditions includes all Construction Management labor including:
    a. Project Management, Project Supervision, Health & Safety, Project Controls, Procurement, Accounting, Administrative, and Executive Management, and other staff required to execute the GMP.
    b. Management equipment including computers, cell phones, and vehicles is included.
    c. Travel and housing for project delivery is included.

VI. Design Builder will perform the Final Design & ESDCs scope of work for the lump sum amount of $3,998,401.20.00.

VII. General Liability Insurance is included in the GMP for a total $1,119,862.86 plus markup. General Liability Insurance Is included in the GMP. General Liability Insurance is an organizational cost and the 1% of contractual estimate is a standard cost carried for all CDM Smith Collaborative Delivery Projects including the TBWSWTP. There is no ability to quote this insurance on a project by project basis, instead it is an organizational cost spread across all projects at a rate of 1% of project cost.

VIII. Design-Builder Bonds are included in the GMP for $809,366.00 plus markup. Design Builder Payment & Performance Bonds are included in the GMP and does not include the Design component, Phase 1 services, or equipment supplied by others.

IX. Builders risk insurance is specifically excluded from the GMP including the Builder's Risk policy, all deductibles, etc. Veolia shall provide a Builder's All Risk policy and CDM Smith Inc. and CDM Constructors Inc. shall be named as additional insureds and therefore should be covered in the event that there are damages to existing conditions, existing or new facilities or operations in the course of constructing this project that should be covered by the Builder's All Risk policy. The cost of any deductibles required under the Builder's All Risk policy are also excluded from this GMP. Veolia shall procure the Builder's All Risk policy prior to Design-Builder mobilization to the site and shall provide a copy of the policy to Design-Builder.

X. An Owner's allowance for the Building Permits is included within the within the GMP as a portion of the $6,866,439.31 Owner's Allowance. No other permits such as environmental permits or similar are included.

XI. Design Builder shall invoice the Company based on actual cost for above-described permits, bonds and insurances plus 8.25% markup on allowable costs per the AGREEMENT.

XII. Excluding those items that are considered fixed price including General Conditions, Final Design & ESDCs, and Electrical/Automation/Process Mechanical Self-Performance; Design Builder will be paid for all direct and indirect cost of construction incurred as part of the administration of the project in accordance with the AGREEMENT and will receive 8.25% markup on all direct costs. Costs include all Subcontractors, Vendors, Materials Suppliers, Equipment Suppliers, Construction Rentals, small tools, etc. as required to construct the project.

XIII. Sales taxes are included and shall be invoiced as incurred at cost plus Markup.

XIV. No consideration for contaminated groundwater/soils or hazardous materials is included (i.e. asbestos, lead, etc.).

XV. This GMP include limited repaving of the existing roads North Access Road, access road to lime area, and access road to Filters 10-15.

XVI. This GMP is based on the 60% design documents as detailed below. The true up process will occur with the delivery of the Issued for Construction documents where the successful bidder, and/or Design-Builder will be given the opportunity to revisit the cost impacts of any changes due to design progression or requirements from the permitting agencies. Any resulting cost impacts will be funded from the construction contingency.

XVII. We have not included additional monies or risk associated with port strikes or other strikes of any kind. In the event a strike or similar event impacts the ability to receive materials or impacts the cost of materials or goods, this would be considered outside of the Design-Builder's control similar to force majeure. We have not included additional monies or risks associated with new tariffs being implemented.

XVIII. Work excluded from the CCI Automation & Electrical Self-Perform scope has been incorporated into other work packages and is included as part of the Direct Cost portion of the GMP.

XIX. Legal or dispute costs are considered part of work and as such shall be reimbursed as part of the Guaranteed Maximum Price (GMP) including being funded from the contingency if required.

XX. The GMP includes the cost of one rental belt filter press to aid in the transition of the existing belt filter presses to the new presses. This includes the rental of the equipment itself only and installation of the equipment only. This GMP does not include the cost for a second rental or temporary press including either the rental of the equipment or the installation of the equipment, no operations cost or labor cost for either press, and no truck rental or truck operations associated with the operation of the temporary press or temporary presses. The GMP includes the cost for the Design-Builder to supply and install, but not operate or truck, one temporary press only. Further, Design-Builder only plans to have the temporary presses on site when performing the new filter press installations and reserves our rights to demobilize the equipment in periods between press installation as Design-Builder sees fit. Lastly, the Design-Builder has not include any costs for polymer or other chemicals associated with the temporary presses.

XXI. All subcontractors submitted as part of the GMP shall be accepted by Veolia and Tampa Bay Water. If a subcontractor included in accepted GMP proposal is rejected then Design-Builder will be entitled to additional compensation.

Builder's All Risk Insurance and Property Insurance to be Provided by Veolia

I. Design Builder's GMP does not include and specifically excludes the cost of Property Insurance and Builder All Risk Insurance or any contingencies for the deductibles of a Builders Riske Insurance policy.

Veolia shall purchase and maintain a Builder's All Risk insurance policy upon the entire Project on a completed value basis, in the amount of the Project's full insurable replacement cost. Both CDM Smith Inc. and CDM Constructors Inc. shall be included as named insureds on the Builder's All Risk Policy. All deductibles under the Builder's Rik Insurance Policy are the responsibility of Veolia.

Veolia shall purchase and maintain Property Insurance covering existing structures, buildings or facility in which any part of the work will occur, or to which any part of the work will attach or be adjoined.

Veolia shall provide Design Builder a copy of the Builder's All Risk Policy and Property insurance prior to CDM Constructor's mobilization to the site.

Permits

I. Design Builder shall not be responsible for any delays in obtaining permits relating in any way that are beyond its direct control or that are/were handled by independent third parties. Any agency delays in completing the review(s) beyond the stipulated timeframes stated below shall be an excusable delay for the Design-Builder and may be eligible for additional compensation.

Permit	**Agency**	**Review Period (Calendar Days)**
Environmental Resource Modification	South Florida Water Management District (SFWMD)	60
Site Development Plan	Hillsborough County	60
FDEP – Drinking Water Facility Construction Permit	Florida Department of Environmental Protection	180
Air Construction Permit	Hillsborough County	30
Above Ground Storage Tank Registration	Florida Department of Environmental Protection	80
Building Permit (Single Overall Permit)	Hillsborough County	30

Contingency

I. The GMP includes a Contingency in the amount of **Nine Million, Twenty Two Thousand, Five Hundred Forty Six and 25/100** Dollars ($ **9,022,546.25**) which is available for Design-Builder's exclusive use for unanticipated costs it has incurred that are not the basis for a Change Order under the Contract Documents. By way of example, and not as a limitation, such costs may include: (a) trade buy-out differentials; (b) overtime or acceleration; (c) escalation of materials; (d) correction of defective, damaged or nonconforming Work, design errors or omissions, however caused; or (e) Subcontractor defaults;. The Contingency is not available to Owner for any reason, including changes in scope or any other item which would enable Design-Builder to increase the GMP under the Contract Documents. Design-Builder shall provide Owner notice of all anticipated charges against the Contingency, and shall provide Owner as part of the monthly status report required by Section 2.1.2 of the General Conditions of Contract an accounting of the Contingency, including all reasonably foreseen uses or potential uses of the Contingency in the upcoming three (3) months. Design-Builder agrees that with respect to any expenditure from the Contingency relating to a Subcontractor default or an event for which insurance or bond may provide reimbursement, Design-Builder will in good faith exercise reasonable steps to obtain performance from the Subcontractor and/or recovery from any surety or insurance company. Design-Builder agrees that if Design-Builder is subsequently reimbursed for said costs, then said recovery will be credited back to the Contingency.

The use of contingency shall only be allowed to cover items which are considered as part of the cost of work as described in Exhibit I to the Agreement, or fall within (a) – (e), above. Contingency cannot be used for unallowable costs described in Exhibit I, out-of-scope work, rework required due to gross negligence, or liquidated damages. Further, contingency cannot be used to supplement fixed price overruns including General Conditions, ESDCs, and self-performed construction; however, contingency can be used to supplement those items if the design is changed resulting in additional costs associated with design changes, or if the schedule is impacted due to another risk item which results in additional General Conditions or ESDC type services.

The Owner shall have the right in good faith to dispute the use of any contingency expenditures that the Owner believes in good faith are not allowed by the Contract Documents by providing prompt written notice to the Design-Builder within 3 business days of being notified of the expenditure.

II. Savings.

If, after the successful completion of the Acceptance Test, completion of the overall project, and final acceptance of the project by Tampa Bay Water, there is a remaining contingency amount, this will be shared between Tampa Bay Water and the Design-Builder with Seventy Five (75%) for Tampa Bay Water and Twenty five (25%) for Design-Builder, with a $2,000,000 savings cap to the Design Builder.

Savings shall be calculated and paid as part of Final Payment, with the understanding that to the extent Design-Builder incurs costs after Final Completion which would have been payable to Design-Builder as a Cost of the Work, the parties shall recalculate the Savings in light of the costs so incurred, and Design-Builder shall be paid by Owner accordingly.

Allowances

I. Owner, Company, and Design Builder agree that certain items of Work should be treated as an allowance. Design Builder, Company and Owner have worked together to review the Allowance Items and Allowance Values based on available design information to determine that the Allowance Values constitute reasonable estimates for the Allowance Items. Nothing herein is intended in any way to constitute a guarantee by Design Builder that the Allowance Item in question can be performed for the Allowance Value.

II. The allowance value for an Allowance Item for which the Design Builder will be entitled to receive compensation includes direct cost of labor, materials, equipment, transportation, taxes and insurance ("Costs") associated with the Allowance Item.

III. Whenever the actual Costs for an Allowance Item is more than or less than the stated Allowance Value for that Allowance Item, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between actual Costs incurred by Design Builder for the particular Allowance Item and the Allowance Value plus Fee.

III. The GMP includes Company's Allowances to cover the following items:
   a. Sludge Drying Bed and associated pumping and piping systems: $4,654,750.00
   b. Building Permit Fees: $590,645.56

IV. The GMP includes Company's Allowances to cover the following items previously carried in the risk register:
   a. Item 5 - Permitting: $294,981.25
   b. Item 27b - MOPO allowable tie ins: $368,050.00
   c. Item 39 - Damage to Existing Roads & Asphalt: $151,550.00
   d. Item 42 - Accidental Plant Shutdown during construction: $238,150.00
   e. Item 45 - Ground Improvements: $568,312.50

V. Company's Allowances approved to be utilized by the Company shall be invoiced by the Design-Builder at direct cost incurred plus applicable design-build fee, bond cost, insurances including General Liability insurance, general conditions if the allowance in question impacts the project schedule, etc.

Owner Furnished Equipment and Materials

I. The GMP does not account for any sales tax savings thru Owner Direct Purchase orders for the equipment.

II. This GMP assumes that all purchase orders will be between Design Builder And the respective vendor.

III. Owner shall provide all raw water, chemicals and electricity as required for startup and operations of the facility.

IV. All granular activated carbon (GAC) and all filter media and sand shall be supplied and installed by others.

V. This GMP proposal does not include the values of Early Procurement Package #1 (EPP-1) or Early Procurement Package #2 (EPP-2) however this GMP does include the cost to install the equipment supplied as part of those packages.

Owner provided equipment is shown below. Design Builder shall not be responsible for any delays or cost impacts in any way resulting from OWNER or Company provided equipment arriving to the project site after scheduled delivery date. Equipment will be manufactured in compliance with plans, specification and approved shop drawings. Any impacts arising from materials not in compliance with the Design Documents and/or the Shop Drawings which impact the installation of the materials shall be subject to a changed condition. Design Builder shall not be responsible for any delays or cost impacts in

any way resulting from equipment being delivered to the project site which does not comply with approved Contract Documents.

ITEM	EQUIPMENT (furnished by others)
1	Actiflo System
2	Ozone System
3	Filter Media
4	Belt Bulk Material Conveyor
5	FRP Tanks
6	Storage Silos & Lime Slaking Equipment
7	Filter Underdrain System & FRP Wash Water Troughs
8	Belt Filter Press Dewatering System

Design-Builder Self Performance

I. DESIGN-BUILDER shall self-perform the Electrical, Instrumentation and Process Mechanical scopes of work on a lump sum basis in accordance with the GMP bid. The total value paid to Design Builder for this work shall be the bid value of plus $31,113,108 plus a 8.25% markup, equating to $33,679,939.41. Self-performed work shall be "trued up" with the Issued For Construction (IFC) design documents similar to other subcontracted bid packages. Detail cost breakdowns of any true up costs shall be provided by Design-Builder to Owner.

II. Package values shall be as follows:
   a. Process Mechanical: $14,949,396.00 direct bid plus 8.25% markup for a total value of $16,182,721.17
   b. Electrical, Automation/Instrumentation & Controls: $16,163,712.00 direct bid plus 8.25% markup for a total value of $17,497,218.24.

Start-up and Testing

I. Startup and Commissioning assumes a 7-calendar day functional test, and a 14-calendar day performance test. Any further start up or commissioning efforts, such as retesting, are not included within the GMP.

Domestic Preference

I. Buy American/Buy America provision included.
II. American Iron and Steel Act included.
III. Compliance with FAC 255.0993 included.
IV. Design Builder's cost and time for performance of its work are based upon the applicable laws and regulations, including tariffs, duties, and trade restrictions (hereinafter referred to as "Tariffs") in effect at the time of signing the Agreement. The parties acknowledge that there has been discussion among various national governments about significant changes to existing Tariffs and/or the imposition of new Tariffs for certain goods and materials. The amount, timing and impact of such changes to the acquisition of goods and materials and/or products and services is unknown at the time of signing this Agreement and, as such, the parties acknowledge and agree that Design-Builder has not included in its price or schedule the cost or schedule impact of such unknown and unquantifiable risk. The parties further agree that Design-Builder shall be entitled to a Change Order increasing the contract price and extending the contract time if and to the extent that any changes to existing Tariffs or any new Tariffs result in increased costs or project delays.

Wage Determination

I. No Davis Bacon wage rates included.
II. No certified payroll including wage rate confirmation, tracking of employee classifications, roles, location, or similar is included.

Liquidated Damages

I. The liquidated damages shall be in accordance with the Agreement.

Standard Working Hours

I. All Work will be performed between 7:00 a.m. and 7:00 p.m. any day of the week, not including Saturdays, Sundays, or Legal Holidays unless authorized by Owner or Owner's Representative. However, emergency work or work needing to be completed to maintain the existing facility or overall operations, may be performed beyond 7:00 p.m. to the extent that these activities are complete without prior permission. Upon agreement with Owner or Owner's Representative, work on Saturdays, Sundays, and/or Legal Holidays will be allowed upon Design-Builder providing written request to the Owner.

Equal Business Opportunity Program

I. The GMP is not in compliance with the projects SBE Subcontracting requirements of the Small and Certified Business Enterprise Development and Assistance Amendment Act. The GMP will need to be adjusted if this requirement changes.

Funding Sources

I. This project has not received funds from the State Revolving Fund (SRF), Water Infrastructure Finance and Innovation Act (WIFIA) or similar funding and does not comply with any requirements of the respective agencies.

Substantial Completion

I. Substantial Completion shall be accomplished on the date when the Work, or agreed upon portion of the Work, is sufficiently complete in accordance with the Contract Documents so that the Owner is able (but not required) to occupy and use the Project or a portion thereof to accomplish the objectives stated in the Basis of Design Report. Ancillary items such as landscaping, sidewalks, interior finishes which do not impact the purpose of the facility shall not be required as a predecessor of Substantial Completion.

Design Drawings

I. The GMP is based on the 60% drawings dated August 2024. Drawings include:

SR. NO.	SHEET NO.	DRAWING TITLE
	GENERAL	
1	G-0	COVER SHEET
2	G-1	INDEX OF SHEETS I
3	G-2	INDEX OF SHEETS II
4	G-3	INDEX OF SHEETS III
5	G-4	LOCATION MAP
6	G-5	SYMBOLS, LEGEND AND GENERAL NOTES
7	G-6	STANDARD ABBREVIATIONS
8	G-7	LIQUIDS PROCESS FLOW DIAGRAM I
9	G-8	LIQUIDS PROCESS FLOW DIAGRAM II
10	G-9	SOLIDS PROCESS FLOW DIAGRAM
11	G-10	LIQUID HYDRAULIC PROFILE I
12	G-11	LIQUID HYDRAULIC PROFILE II
13	G-12	SOLIDS HANDLING SYSTEM HYDRAULIC PROFILE
14	G-13	SITE SECURITY MODIFICATIONS
	CIVIL	
15	C-1	EXISTING OVERALL SITE PLAN
16	C-2	PROPOSED OVERALL SITE PLAN
17	C-3	YARD PIPING KEY MAP
18	C-4	YARD PIPING PLAN I
19	C-4A	YARD PIPING PLAN I -EXISTING PIPING DEMOLITION
20	C-5	YARD PIPING PLAN II
21	C-5A	YARD PIPING PLAN II -EXISTING PIPING DEMOLITION
22	C-6	YARD PIPING PLAN III
23	C-7	YARD PIPING PLAN IV
24	C-8	YARD PIPING PLAN V
25	C-8A	YARD PIPING PLAN V -EXISTING PIPING DEMOLITION
26	C-9	YARD PIPING PLAN VI
27	C-9A	YARD PIPING PLAN VI -EXISTING PIPING DEMOLITION
28	C-10	DRAINAGE BASIN MAP
29	C-11	DRAINAGE MODEL SCHEMATIC
30	C-12	PAVING, GRADING, AND DRAINAGE KEY MAP
31	C-13	PAVING, GRADING, AND DRAINAGE PLAN I
32	C-14	PAVING, GRADING, AND DRAINAGE PLAN II
33	C-15	PAVING, GRADING, AND DRAINAGE PLAN III
34	C-16	PAVING, GRADING, AND DRAINAGE PLAN IV
35	C-17	PAVING, GRADING, AND DRAINAGE PLAN V
36	C-18	PAVING, GRADING, AND DRAINAGE PLAN VI
37	C-19	PAVING, GRADING, AND DRAINAGE PLAN VII
38	C-20	PAVING, GRADING, AND DRAINAGE PLAN VIII
39	C-21	PAVING, GRADING, AND DRAINAGE PLAN IX
40	C-22	PAVING, GRADING, AND DRAINAGE PLAN X
41	C-23	PAVING, GRADING, AND DRAINAGE PLAN XI
42	C-24	PAVING, GRADING, AND DRAINAGE PLAN XII
43	C-25	PAVING, GRADING, AND DRAINAGE PLAN XIII
44	C-26	PAVING, GRADING, AND DRAINAGE PLAN XIV
45	C-27	HORIZONTAL CONTROL PLAN -NORTH
46	C-28	HORIZONTAL CONTROL PLAN -SOUTH
47	CD-1	PAVING AND DRAINAGE DETAILS
48	CD-2	CIVIL DETAILS
49	CD-3	EROSION CONTROL DETAILS
50	CD-4	YARD PIPING DETAILS
51	CD-5	YARD PIPING DETAILS
52	CD-6	DRAINAGE STRUCTURES DETAILS
53	CD-7	MISCELLANEOUS CIVIL DETAILS
54	CD-8	MISCELLANEOUS CIVIL DETAILS

SR. NO.	SHEET NO.	DRAWING TITLE
	INSTRUMENTATION	
337	I-1	INSTRUMENTATION LEGEND I
338	I-2	INSTRUMENTATION LEGEND II
339	I-3	SYSTEM ARCHITECTURE
340	I-4	P&ID -PRETREATMENT SYSTEM
341	I-5	P&ID -ACTIFLO TRAIN NO. 5
342	I-6	P&ID -LIQUID OXYGEN AND VAPORIZATION SYSTEM
343	I-7	P&ID -AIR INJECTION SYSTEM
344	I-8	P&ID -OZONE CONTACTOR NO. 5
345	I-9	P&ID -OZONE GENERATOR NO. 5
346	I-10	P&ID -OZONE COOLING WATER SYSTEM
347	I-11	P&ID -OZONE DESTRUCT UNITS
348	I-12	P&ID -FILTER NO. 16
349	I-13	P&ID -FILTER NO. 17
350	I-14	P&ID -FILTER NO. 18
351	I-15	P&ID -FILTER AID POLYMER SYSTEM
352	I-16	P&ID -COAGULANT AID POLYMER SYSTEM TRAIN 5 MODIFICATION
353	I-17	P&ID -COAGULANT AID POLYMER SYSTEM
354	I-18	P&ID -MICROSAND SYSTEM
355	I-19	P&ID -LIME STORAGE AND FEED SYSTEM NORTH SIDE
356	I-20	P&ID -LIME STORAGE AND FEED SYSTEM SOUTH SIDE
357	I-21	P&ID -SULFURIC ACID FEED SYSTEM
358	I-22	P&ID -FERRIC SULFATE FEED SYSTEM SOUTH SIDE
359	I-23	P&ID -FERRIC SULFATE FEED SYSTEM NORTH SIDE
360	I-24	P&ID -SODIUM HYPOCHLORITE SYSTEM
361	I-25	P&ID -SODIUM HYDROXIDE SYSTEM TRAIN 5 MODIFICATION
362	I-26	P&ID -GRAVITY THICKENER NO. 3 PUMP STATION MODIFICATIONS
363	I-27	P&ID -DEWATERING BUILDING NO. 1 MODIFICATIONS
364	I-28	P&ID -DEWATERING BUILDING NO. 2 MODIFICATIONS
365	I-29	P&ID -BELT CONVEYOR, TRUCK LOADING BAY, AND FILTRATE PUMP STATION MODIFICATIONS
366	I-30	P&ID -SOLIDS THICKENING AND DEWATERING POLYMER
367	*I-31*	*P&ID -MISCELLANEOUS & ELECTRICAL I*
368	*I-32*	*P&ID -MISCELLANEOUS & ELECTRICAL II*
369	*I-33*	*INSTRUMENT DETAILS -CONTROL PANELS & RACKS I*
370	*I-34*	*INSTRUMENT DETAILS -CONTROL PANELS & RACKS II*
371	IZ-1	INSTRUMENT INSTALLATION DETAILS I
372	IZ-2	INSTRUMENT INSTALLATION DETAILS II
373	IZ-3	INSTRUMENT INSTALLATION DETAILS III

SR. NO.	SHEET NO.	DRAWING TITLE
305	E-41	FILTERS NO. 16 TO 18 LOWER LEVEL POWER PLAN
306	E-42	FILTERS NO. 16 TO 18 UPPER LEVEL POWER PLAN
307	E-43	FILTERS NO. 16 TO 18 LOWER AND UPPER LEVEL LIGHTING AND RECEPTACLE PLAN
308	E-44	FILTERS NO. 16 TO 18 GROUNDING PLAN
309	E-45	OZONE GENERATOR BUILDING POWER PLAN
310	E-46	OZONE GENERATOR BUILDING LIGHTING PLAN
311	E-47	LIQUID OXYGEN STORAGE AND FEED ELECTRICAL PLAN
312	E-48	OZONE, ACTIFLO, LOX STORAGE AREA OVERALL GROUNDING PLAN
313	E-49	SOLIDS DEWATERING BUILDING NO. 1 DEMOLITION POWER PLAN
314	E-50	SOLIDS DEWATERING BUILDING NO. 1 MODIFICATIONS POWER PLAN
315	E-51	DEWATERING BUILDING NO. 2 DEMOLITION POWER PLAN
316	E-52	EXISTING SOLIDS DEWATERING BUILDING NO. 2 MODIFICATIONS POWER PLAN
317	E-53	SOLIDS DEWATERING AREA POWER PLANS
318	E-54	COAGULANT AND FILTER AID POLYMER BUILDING TRAIN 5 POWER AND GROUNDING PLAN
319	E-55	COAGULANT AND FILTER AID POLYMER BUILDING TRAIN 5 LIGHTING PLAN
320	E-56	DRY CHEMICAL FEED BUILDING 3 POWER AND GROUNDING PLAN
321	E-57	DRY CHEMICAL FEED BUILDING 3 LIGHTING AND RECEPTACLE PLAN
322	E-58	SOUTH CHEMICAL SYSTEM STORAGE MODIFICATIONS POWER PLAN
323	E-59	SOUTH CHEMICAL SYSTEM STORAGE MODIFICATIONS LIGHTING PLAN
324	E-60	SODIUM HYPOCHLORITE STORAGE DEMOLITION POWER PLAN
325	E-61	SODIUM HYPOCHLORITE STORAGE MODIFICATIONS POWER PLAN
326	E-62	SODIUM HYPOCHLORITE STORAGE MODIFICATIONS LIGHTING PLAN
327	E-63	NORTH DRY CHEMICAL FEED BUILDING NO. 1 POWER PLAN
328	E-64	NORTH CHEMICAL SYSTEM STORAGE MODIFICATIONS POWER PLAN
329	E-65	SOUTH DRY CHEMICAL STORAGE MODIFICATIONS AND DEMOLITION PLAN
330	E-66	LIGHTING FIXTURE SCHEDULES
331	E-67	PANELBOARD SCHEDULES I
332	E-68	PANELBOARD SCHEDULES II
333	E-69	PANELBOARD SCHEDULES III
334	ED-1	ELECTRICAL DETAILS I
335	ED-2	ELECTRICAL DETAILS II
336	ED-3	ELECTRICAL DETAILS III

SR. NO.	SHEET NO.	DRAWING TITLE
	ELECTRICAL	
265	E-1	ELECTRICAL LEGEND I
266	E-2	ELECTRICAL LEGEND II
267	E-3	ELECTRICAL NOTES
268	E-4	ELECTRICAL SITE PLAN I (NORTH)
269	E-5	ELECTRICAL SITE PLAN II (SOUTH)
270	E-6	ELECTRICAL DUCT BANK SECTIONS I
271	E-7	ELECTRICAL DUCT BANK SECTIONS II
272	E-8	15KV SWITCHGEAR SINGLE LINE POWER DIAGRAM (MAIN ELECTRICAL BUILDING)
273	E-9	MCC-3A SINGLE LINE POWER DIAGRAM DEMOLITION (EXISTING SOLIDS DEWATERING BUILDING NO. 1)
274	E-10	MCC-3A SINGLE LINE POWER DIAGRAM MODIFICATIONS (EXISTING SOLIDS DEWATERING BUILDING NO. 1)
275	E-11	MCC-3B SINGLE LINE POWER DIAGRAM DEMOLITION (EXISTING SOLIDS DEWATERING BUILDING NO. 2)
276	E-12	MCC-3B SINGLE LINE POWER DIAGRAM MODIFICATIONS (EXISTING SOLIDS DEWATERING BUILDING NO. 2)
277	E-13	MCC-4A SINGLE LINE POWER DIAGRAM (MAIN ELECTRICAL BUILDING)
278	E-14	MCC-4B SINGLE LINE POWER DIAGRAM (MAIN ELECTRICAL BUILDING)
279	E-15	MCC-5A SINGLE LINE POWER DIAGRAM DEMOLITION (SOUTH DRY CHEMICAL BUILDING)
280	E-16	MCC-5A SINGLE LINE POWER DIAGRAM MODIFICATIONS (SOUTH DRY CHEMICAL BUILDING)
281	E-17	MCC-5B SINGLE LINE POWER DIAGRAM DEMOLITION (SOUTH DRY CHEMICAL BUILDING)
282	E-18	MCC-5B SINGLE LINE POWER DIAGRAM MODIFICATIONS (SOUTH DRY CHEMICAL BUILDING)
283	E-19	MCC-6A SINGLE LINE POWER DIAGRAM (OZONE BUILDING)
284	E-20	MCC-6B SINGLE LINE POWER DIAGRAM (OZONE BUILDING)
285	E-21	PDP-3 SINGLE LINE POWER DIAGRAM (DRY CHEM. FEED BUILDING NO. 1)
286	E-22	PDP-4 SINGLE LINE POWER DIAGRAM (NORTH CHEMICAL FEED PUMP BUILDING)
287	E-23	PDP-13 ONE-LINE POWER DIAGRAM (FILTERS NO. 16 -18)
288	E-24	PDP-14 ONE-LINE POWER DIAGRAM (COAGULANT AND FILTER AID POLYMER BUILDING TRAIN 5)
289	E-25	PDP-15 ONE-LINE POWER DIAGRAM (DRY CHEMICAL FEED BUILDING 3 -NEW LIME SILO)
290	E-26	ELECTRICAL FRONT ELEVATIONS I
291	E-27	ELECTRICAL FRONT ELEVATIONS II
292	E-28	ELECTRICAL FRONT ELEVATIONS III
293	E-29	ELEMENTARY CONTROL DIAGRAMS I
294	E-30	ELEMENTARY CONTROL DIAGRAMS II
295	E-31	ELEMENTARY CONTROL DIAGRAMS III
296	E-32	INSTRUMENTATION AND CONTROL RISER DIAGRAM I
297	E-33	INSTRUMENTATION AND CONTROL RISER DIAGRAM II
298	E-34	INSTRUMENTATION AND CONTROL RISER DIAGRAM III
299	E-35	MAIN 15KV SWITCHGEAR BUILDING POWER PLAN
300	E-36	HIGH RATE FLOCCULATION/SEDIMENTATION PROCESS TRAIN NO. 5 UPPER LEVEL POWER PLAN
301	E-37	HIGH RATE FLOCCULATION/SEDIMENTATION PROCESS TRAIN NO. 5 UPPER LEVEL LIGHTING AND RECEPTACLE PLAN
302	E-38	OZONE CONTACTOR TANK PROCESS TRAIN NO. 5 UPPER LEVEL POWER PLAN
303	E-39	OZONE CONTACTOR TANK PROCESS TRAIN NO. 5 LOWER LEVEL POWER PLAN
304	E-40	OZONE CONTACTOR TANK PROCESS TRAIN NO. 5 UPPER LEVEL LIGHTING AND RECEPTACLE PLAN

SR. NO.	SHEET NO.	DRAWING TITLE
	PLUMBING	
243	P-1	PLUMBING LEGEND, SYMBOLS, AND ABBREVIATIONS
244	P-2	OZONE GENERATOR BUILDING 3 SANITARY PLAN
245	P-3	OZONE GENERATOR BUILDING 3 WATER PLAN
246	P-4	OZONE GENERATOR BUILDING 3 RISER DIAGRAMS
247	P-5	LIQUID OXYGEN STORAGE TRAIN 5 WATER PLAN
248	P-6	LIQUID OXYGEN STORAGE TRAIN 5 RISER DIAGRAM
249	P-7	COAGULANT AID POLYMER BUILDING TRAIN 5 SANITARY PLAN
250	P-8	COAGULANT AID POLYMER BUILDING TRAIN 5 WATER PLAN
251	P-9	COAGULANT AID POLYMER BUILDING TRAIN 5 RISER DIAGRAMS
252	P-10	DRY CHEMICAL FEED BUILDING 3 SANITARY PLAN
253	P-11	DRY CHEMICAL FEED BUILDING 3 WATER PLAN
254	P-12	DRY CHEMICAL FEED BUILDING 3 RISER DIAGRAMS
255	PD-1	PLUMBING DETAILS I
256	PD-2	PLUMBING DETAILS II
	FIRE PROTECTION	
257	FA-1	FIRE ALARM LEGEND, SYMBOLS, AND ABBREVIATIONS
258	FA-2	SOUTH LIME BUILDING FIRE ALARM SYSTEM PLAN
259	FA-3	OZONE GENERATOR BUILDING FIRE ALARM SYSTEM PLAN
260	FA-4	RISER DIAGRAM AND I/O MATRIX
261	FP-1	FIRE SUPPRESSION GENERAL NOTES AND LEGEND
262	FP-2	SOUTH LIME BUILDING FIRE SUPPRESSION SYSTEM PLAN
263	FP-3	OZONE GENERATOR BUILDING SUPPRESSION SYSTEM PLAN
264	FP-4	FIRE SUPPRESSION DETAILS

SR. NO.	SHEET NO.	DRAWING TITLE
198	M-36	THICKENING/DEWATERING POLYMER SYSTEM ADDITION ENLARGED PLAN AND SECTION
199	M-37	TRUCK LOADING STATION ENLARGED PLAN AND SECTION
200	M-38	GRAVITY THICKENER 3 PUMP STATION ENLARGED PLANS
201	M-39A	GRAVITY THICKENER 3 PUMP STATION SECTIONS AND ISOMETRIC
202	M-39B	GRAVITY THICKENER INFLUENT MIX CHAMBER PLAN AND SECTION
203	M-40	COAGULANT AID POLYMER BUILDING TRAIN 5 (NEW)-PLAN
204	M-41	COAGULANT AID POLYMER BUILDING TRAIN 5 (NEW)-SECTIONS I
205	M-42	COAGULANT AID POLYMER BUILDING TRAIN 5 (NEW)-SECTIONS II
206	M-43	DRY CHEMICAL FEED BUILDING 3 (NEW LIME SILO)-UPPER PLAN
207	M-44	DRY CHEMICAL FEED BUILDING 3 (NEW LIME SILO)-LOWER PLAN
208	M-45	DRY CHEMICAL FEED BUILDING 3 (NEW LIME SILO)-SECTIONS I
209	M-46	DRY CHEMICAL FEED BUILDING 3 (NEW LIME SILO)-SECTIONS II
210	M-47	SOUTH SYSTEM CHEMICAL STORAGE MODIFICATION PLAN
211	M-48	SOUTH SYSTEM CHEMICAL STORAGE -MODIFICATION SECTIONS AND DETAILS
212	M-49	SODIUM HYPOCHLORITE STORAGE (EXISTING AND 3RD TANK)-MODIFICATION PLAN
213	M-50	SODIUM HYPOCHLORITE STORAGE (EXISTING AND 3RD TANK)-MODIFICATION SECTIONS
214	M-51	DRY CHEMICAL FEED BUILDING 1 (EXISTING LIME, SAND, AND POLYMER TO TRAIN 5)-EQUIPMENT AND PIPING PLAN
215	M-52	DRY CHEMICAL FEED BUILDING 1 (EXISTING LIME, SAND, AND POLYMER TO TRAIN 5)-EQUIPMENT AND PIPING SECTIONS
216	M-53	NORTH SYSTEM CHEMICAL STORAGE (EXISTING)-MODIFICATION PLAN
217	M-54	NORTH SYSTEM CHEMICAL STORAGE (EXISTING)-MODIFICATION SECTIONS
218	M-55	CHEMICAL STORAGE TANK-PLAN, SECTIONS AND DETAILS
219	MD-1	PROCESS MECHANICAL STANDARD DETAILS I
220	MD-2	PROCESS MECHANICAL STANDARD DETAILS II
221	MD-3	PROCESS MECHANICAL STANDARD DETAILS III
222	MD-4	PROCESS MECHANICAL STANDARD DETAILS IV
223	MD-5	PROCESS MECHANICAL STANDARD DETAILS V
224	MD-6	PROCESS MECHANICAL STANDARD DETAILS VI
225	MD-7	PROCESS MECHANICAL STANDARD DETAILS VII
226	MD-8	PROCESS MECHANICAL STANDARD DETAILS VIII
	HVAC	
227	H-1	HVAC LEGEND, SYMBOLS, AND ABBREVIATIONS
228	H-2	OZONE GENERATOR BUILDING 3 HVAC PLAN
229	H-3	OZONE GENERATOR BUILDING 3 HVAC SECTIONS
230	H-4	COAGULANT AID POLYMER BUILDING TRAIN 5 HVAC PLAN
231	H-5	COAGULANT AID POLYMER BUILDING TRAIN 5 HVAC SECTIONS
232	H-6	DRY CHEMICAL FEED BUILDING 3 HVAC PLAN
233	H-7	DRY CHEMICAL FEED BUILDING 3 HVAC SECTIONS
234	H-8	SOLIDS DEWATERING BUILDING 2 HVAC DEMOLITION PLAN
235	H-9	SOLIDS DEWATERING BUILDING 2 HVAC MODIFICATION PLAN
236	H-10	OZONE GENERATOR BUILDING AIRFLOW SCHEMATICS AND SEQUENCE OF OPERATIONS
237	H-11	ELECTRICAL ROOM AIRFLOW SCHEMATICS AND SEQUENCE OF OPERATIONS
238	H-12	POLYMER AND LIME BUILDING AIRFLOW SCHEMATICS AND SEQUENCE OF OPERATIONS
239	H-13	HVAC SCHEDULES I
240	H-14	HVAC SCHEDULES II
241	HD-1	HVAC DETAILS I
242	HD-2	HVAC DETAILS II

SR. NO.	SHEET NO.	DRAWING TITLE
	MECHANICAL DEMOLITION	
147	D-1	SOLIDS DEWATERING BUILDING NO. 1 ENLARGED DEMOLITION PLAN
148	D-2	SOLIDS DEWATERING BUILDING NO. 1 DEMOLITION SECTIONS
149	D-3	SOLIDS DEWATERING BUILDING NO. 2 ENLARGED DEMOLITION PLAN
150	D-4	SOLIDS DEWATERING BUILDING NO. 2 DEMOLITION SECTIONS
151	D-5	SOLIDS DEWATERING BUILDINGS AND TRUCK LOADING STATION DEMOLITION SECTIONS
152	D-6	THICKENING/DEWATERING POLYMER SYSTEM ADDITION DEMOLITION PLAN
153	D-7	GRAVITY THICKENER 3 BELT FILTER PRESS FEED PUMP STATION ENLARGED DEMOLITION PLAN
154	D-8	SODIUM HYPOCHLORITE STORAGE (EXISTING)-PUMPS DEMOLITION PLAN
155	D-9	NORTH CHEMICAL STORAGE (EXISTING)-DEMOLITION PLAN
156	D-10	DRY CHEMICAL FEED BUILDING 2- EXISTING LIME SYSTEM DEMOLITION PLAN
157	D-11	BACKWASH WATER PIPING DEMOLITION UPPER PLAN
158	D-12	GRAVITY THICKENER INFLUENT MIX CHAMBER DEMOLITION PLAN AND SECTION
	PROC MECHANICAL	
159	M-1	MECHANICAL LEGEND, ABBREVIATIONS AND SYMBOLS
160	M-2	HIGH RATE FLOCCULATION/SEDIMENTATION PROCESS TRAIN UNIT 5 UPPER PLAN
161	M-3	HIGH RATE FLOCCULATION/SEDIMENTATION PROCESS TRAIN UNIT 5 LOWER PLAN
162	M-4	HIGH RATE FLOCCULATION/SEDIMENTATION SECTIONS
163	M-5	HIGH RATE FLOCCULATION/SEDIMENTATION SECTIONS AND ISOMETRIC VIEW
164	M-6	MICROSAND RECIRCULATION PUMPS PLAN, SECTIONS AND ISOMETRIC VIEW
165	M-6A	HYDROCYCLONE UNITS PLAN, SECTIONS AND ISOMETRIC VIEW
166	M-7	OZONE CONTACTOR TANK UPPER PLAN TRAIN 5
167	M-8	OZONE CONTACTOR TANK LOWER PLAN TRAIN 5
168	M-9	OZONE CONTACTOR TANK SECTIONS I
169	M-10	OZONE CONTACTOR TANK SECTIONS AND ISOMETRIC II
170	M-10A	OZONE CONTACTOR TANK SECTIONS AND ISOMETRIC III
171	M-11	OZONE CONTACTOR PRE-OZONE CHEMICAL PIPING PLAN SECTIONS AND ISOMETRIC IV
172	M-11A	OZONE CONTACTOR ISOMETRIC
173	M-12	FILTERS NO. 16 TO 18 UPPER AND INTERMEDIATE PLAN
174	M-13	FILTERS NO. 16 TO 18 LOWER PLAN AND SECTIONS
175	M-14	FILTER SECTIONS -I
176	M-15	FILTER SECTIONS -II
177	M-16	FILTERS NO. 16 TO 18 ISOMETRIC VIEWS
178	M-17	BACKWASH WATER PIPING MODIFICATIONS PLAN AND SECTIONS
179	*M-18*	*NO DRAWING*
180	*M-19*	*NO DRAWING*
181	*M-20*	*NO DRAWING*
182	*M-21*	*NO DRAWING*
183	M-22	OZONE SYSTEM AND LIQUID OXYGEN STORAGE OVERALL PLAN
184	M-23	LIQUID OXYGEN STORAGE AND FEED ENLARGED PLAN
185	M-24	OZONE GENERATION BUILDING ENLARGED PLAN
186	M-25	OZONE GENERATION BUILDING SECTIONS
187	M-26	LIQUID OXYGEN STORAGE AND FEED SECTIONS
188	M-27	LIQUID OXYGEN STORAGE AND FEED ISOMETRICS
189	M-27A	OZONE GENERATION BUILDING ISOMETRICS
190	M-28	SOLID DEWATERING AREA OVERALL PLAN
191	M-29	SOLID DEWATERING BUILDING NO. 1 ENLARGED LOWER PLAN 7 AND 8 PUMP STATION PLAN
192	M-30	SOLID DEWATERING BUILDING NO. 1 ENLARGED UPPER PLAN
193	M-31	SOLID DEWATERING BUILDING NO. 1 SECTIONS
194	M-32	SOLIDS DEWATERING BUILDING NO. 2 ENLARGED LOWER PLAN
195	M-33	SOLIDS DEWATERING BUILDING NO. 2 ENLARGED UPPER PLAN
196	M-34	SOLIDS DEWATERING BUILDING NO. 2 SECTIONS
197	M-35	SOLIDS DEWATERING BUILDING NO. 1 AND BUILDING NO. 2 SECTIONS

SR. NO.	SHEET NO.	DRAWING TITLE
	STRUCTURAL	
103	S-1	STRUCTURAL GENERAL NOTES
104	S-2	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 BASE SLAB PLAN AT EL. 31.76
105	S-3	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 PLANS AT EL 37.02 AND EL 47.60
106	S-4	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 TOP PLAN
107	S-5	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 SECTIONS I
108	S-6	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 SECTIONS II
109	S-7	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 SECTIONS III
110	S-8	HIGH RATE FLOCCULATION/SEDIMENTATION UNIT 5 CANOPY ROOF PLAN AND DETAILS
111	S-9	OZONE CONTACTOR TANK TRAIN 5 FOUNDATION PLAN
112	S-10	OZONE CONTACTOR TANK TRAIN 5 INTERMEDIATE PLANS
113	S-11	OZONE CONTACTOR TANK TRAIN 5 TOP & ROOF PLAN
114	S-12	OZONE CONTACTOR TANK TRAIN 5 SECTIONS I
115	S-13	OZONE CONTACTOR TANK TRAIN 5 SECTIONS II
116	S-14	OZONE GENERATOR BUILDING 3 FOUNDATION PLAN
117	S-15	OZONE GENERATOR BUILDING 3 ROOF PLAN
118	S-16	OZONE GENERATOR BUILDING 3 SECTIONS AND DETAIL
119	S-17	LIQUID OXYGEN STORAGE TRAIN 5 PLAN AND SECTIONS
120	S-18	COAGULANT AID POLYMER BUILDING TRAIN 5 FOUNDATION PLAN
121	S-19	COAGULANT AID POLYMER BUILDING TRAIN 5 ROOF PLAN
122	S-20	COAGULANT AID POLYMER BUILDING TRAIN 5 SECTIONS AND DETAIL
123	S-21	FILTERS NO. 16-18 FOUNDATION PLAN
124	S-22	FILTERS NO. 16-18 INTERMEDIATE PLAN AT EL. 45.00
125	S-23	FILTERS NO. 16-18 TOP PLAN AT EL. 52.25
126	S-24	FILTERS NO. 16-18 ROOF PLAN
127	S-25	FILTERS NO. 16-18 SECTIONS I
128	S-26	FILTERS NO. 16-18 SECTIONS II
129	S-27	DRY CHEMICAL FEED BUILDING 3 FOUNDATION PLAN
130	S-28	DRY CHEMICAL FEED BUILDING 3 ROOF PLANS AND FRAMING ELEVATIONS
131	S-29	DRY CHEMICAL FEED BUILDING 3 SECTIONS AND DETAILS
132	S-30	SOUTH SYSTEM CHEMICAL STORAGE 2 PLAN AND SECTION
133	S-31	SODIUM HYPOCHLORITE STORAGE PLAN AND SECTIONS
134	S-32	BELT FILTER PRESS FEED PUMPS PLAN AND SECTION
135	S-33	SOLIDS DEWATERING BUILDING 1 DEMOLITION PLANS
136	S-34	SOLIDS DEWATERING BUILDING 1 MODIFICATION PLAN AND SECTIONS
137	S-35	SOLIDS DEWATERING BUILDING 2 DEMOLITION PLANS
138	S-36	SOLIDS DEWATERING BUILDING 2 MODIFICATION PLAN AND SECTIONS
139	SD-1	STANDARD CONCRETE DETAILS I
140	SD-2	STANDARD CONCRETE DETAILS II
141	SD-3	STANDARD MASONRY DETAILS
142	SD-4	STANDARD METAL DETAILS I
143	SD-5	STANDARD METAL DETAILS I
144	SD-6	STANDARD STAIR DETAILS
145	SD-7	STANDARD ROOF JOIST DETAILS
146	SD-8	STANDARD COLUMN AND BEAM SCHEDULE

SR. NO.	SHEET NO.	DRAWING TITLE
	ARCHITECTURAL	
55	A-1	ABBREVIATIONS AND SYMBOLS
56	A-2	NO DRAWING
57	A-2A	OVERALL SITE PLAN
58	A-3	OZONE BUILDING CODE KEY DETERMINATIONS
59	A-4	OZONE GENERATOR BUILDING LIFE SAFETY PLAN
60	A-5	OZONE GENERATOR BUILDING FLOOR PLAN
61	A-6	OZONE GENERATOR BUILDING ROOF PLAN
62	A-7	OZONE GENERATOR BUILDING ELEVATIONS -I
63	A-8	OZONE GENERATOR BUILDING ELEVATIONS -II
64	A-9	OZONE GENERATOR BUILDING BUILDING SECTIONS
65	A-9A	OZONE GENERATOR BUILDING WALL SECTIONS
66	A-10	SOUTH LIME BUILDING BUILDING CODE KEY DETERMINATIONS
67	A-10A	SOUTH LIME BUILDING LIFE SAFETY PLANS
68	A-11	SOUTH LIME BUILDING FLOOR PLAN
69	A-12	SOUTH LIME BUILDING ROOF PLAN
70	A-13	SOUTH LIME BUILDING EXTERIOR ELEVATIONS
71	A-14	SOUTH LIME BUILDING BUILDING SECTIONS
72	A-15	SOUTH LIME BUILDING WALL SECTIONS
73	A-15A	SOUTH LIME BUILDING WALL DETAILS
74	A-16	NO DRAWING
75	A-17	NO DRAWING
76	A-18	NO DRAWING
77	A-19	NO DRAWING
78	A-20	NO DRAWING
79	A-21	NO DRAWING
80	A-22	NO DRAWING
81	A-23	NO DRAWING
82	A-24	FILTER BUILDING BUILDING CODE KEY DETERMINATIONS
83	A-24A	FILTER BUILDING LIFE SAFETY PLANS
84	A-25	FILTER BUILDING LOWER LEVEL FLOOR PLAN
85	A-26	FILTER BUILDING UPPER LEVEL FLOOR PLAN
86	A-27	FILTER BUILDING ROOF PLAN
87	A-28	FILTER BUILDING ELEVATIONS -I
88	A-29	FILTER BUILDING ELEVATIONS -II
89	A-29A	FILTER BUILDING BUILDING SECTIONS
90	A-29B	FILTER BUILDING WALL SECTIONS
91	A-30	NO DRAWING
92	A-31	NORTH POLYMER BUILDING BUILDING CODE KEY DETERMINATIONS
93	A-32	NORTH POLYMER BUILDING LIFE SAFETY PLANS
94	A-33	NORTH POLYMER BUILDING FLOOR PLAN
95	A-33A	NORTH POLYMER BUILDING ROOF PLAN
96	A-34	NORTH POLYMER BUILDING EXTERIOR ELEVATIONS
97	A-34A	NORTH POLYMER BUILDING BUILDING SECTIONS
98	A-34B	NORTH POLYMER BUILDING WALL SECTIONS
99	AD-1	ARCHITECTURAL SCHEDULES AND TYPES
100	AD-2	ARCHITECTURAL ROOF DETAILS
101	AD-3	NO DRAWING
102	AD-4	NO DRAWING

Specifications

I. The GMP is based on the 60% specifications dated August 2024. Specifications include:

DIVISION 01 - GENERAL REQUIREMENTS

011000	*SUMMARY*
012500	*SUBSTITUTION PROCEDURES*
013100	*PROJECT MANAGEMENT AND COORDINATION*
013200	*CONSTRUCTION PROGRESS DOCUMENTATION*
013233	*PHOTOGRAPHIC DOCUMENTATION*
013300	*SUBMITTAL PROCEDURES*
013513.54	*SPECIAL PROCEDURES FOR MAINTENANCE OF PLANT OPERATION AND SEQUENCE OF CONSTRUCTION*
014000	*QUALITY REQUIREMENTS*
014200	*REFERENCES*
015000	*TEMPORARY FACILITIES AND CONTROLS*
016000	*PRODUCT REQUIREMENTS*
017300	*EXECUTION*
017700	*CLOSEOUT PROCEDURES*
017823	*OPERATION AND MAINTENANCE DATA*
017839	*PROJECT RECORD DOCUMENTS*
017900	*DEMONSTRATION AND TRAINING*
018819	*TIGHTNESS TESTING PERFORMANCE REQUIREMENTS*
018839	*WIND PERFORMANCE REQUIREMENTS*
019113	*GENERAL COMMISSIONING REQUIREMENTS*

DIVISION 02 - EXISTING CONDITIONS

024119	*SELECTIVE DEMOLITION*

DIVISION 03 - CONCRETE

030100.61	CONCRETE REPAIRS
030130.71	MODIFICATIONS TO EXISTING CONCRETE
031000	CONCRETE FORMING AND ACCESSORIES
031500	CONCRETE JOINTS AND ACCESSORIES
032000	CONCRETE REINFORCING
033000	CAST-IN-PLACE CONCRETE
033500	CONCRETE FINISHING
033900	CONCRETE CURING
036000	GROUTING

DIVISION 04 - MASONRY

042000	UNIT MASONRY

DIVISION 05 - METALS

050519	POST-INSTALLED ANCHORS AND REINFORCING BARS
052100	STEEL JOIST FRAMING
053100	STEEL DECKING
054000	COLD-FORMED METAL FRAMING
054400	COLD-FORMED METAL TRUSSES
055000	METAL FABRICATIONS
055119	METAL GRATING STAIRS
055200	METAL RAILINGS
055313	BAR GRATINGS

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

061000	ROUGH CARPENTRY

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

071113	BITUMINOUS DAMPPROOFING
072100	*THERMAL INSULATION*
074293	SOFFIT PANELS
075216	STYRENE-BUTADIENE-STYRENE (SBS) MODIFIED BITUMINOUS MEMBRANE

076100	ROOFING SHEET METAL ROOFING
077100	ROOF SPECIALTIES
077200	ROOF ACCESSORIES
078413	PENETRATION FIRESTOPPING
078443	JOINT FIRESTOPPING
079200	JOINT SEALANTS

DIVISION 08 - OPENINGS

081113	HOLLOW METAL DOORS AND FRAMES
081116	ALUMINUM DOORS AND FRAMES
083323	OVERHEAD COILING DOORS
083483	FLOOR DOORS
085113	ALUMINUM WINDOWS
087100	DOOR HARDWARE
088000	GLAZING
089119	FIXED LOUVERS

DIVISION 09 - FINISHES

092216	*NON-STRUCTURAL METAL FRAMING*
092900	*GYPSUM BOARD*
096723	RESINOUS FLOORING
099679	ATMOSPHERIC PROTECTION AND PLANT SERVICE AREAS COATINGS

DIVISION 10 - SPECIALTIES

101423.16	ROOM-IDENTIFICATION PANEL SIGNAGE
105613	*METAL STORAGE SHELVING*

DIVISION 12 - FURNISHINGS

124843.33	RUBBER INSULATING FLOOR MATS

DIVISION 13 - SPECIAL CONSTRUCTION

133419	METAL BUILDING SYSTEMS

DIVISION 21 - FIRE SUPPRESSION

210517	SLEEVES AND SLEEVE SEALS FOR FIRE-SUPPRESSION PIPING
210518	ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING
210529	HANGERS AND SUPPORTS FOR FIRE SUPPRESSION PIPING AND EQUIPMENT
211119	FIRE DEPARTMENT CONNECTIONS

211313	WET-PIPE SPRINKLER SYSTEMS

DIVISION 22 - PLUMBING

220517	SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING
220523.12	BALL VALVES FOR PLUMBING PIPING
220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
220548.13	VIBRATION CONTROLS FOR PLUMBING PIPING AND EQUIPMENT
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
220719	PLUMBING PIPING INSULATION
221116	DOMESTIC WATER PIPING
221119	DOMESTIC WATER PIPING SPECIALTIES
221316	SANITARY WASTE AND VENT PIPING
221319	SANITARY WASTE PIPING SPECIALTIES
221319.13	SANITARY DRAINS
221413	FACILITY STORM DRAINAGE PIPING
224500	EMERGENCY PLUMBING FIXTURES

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

230513	COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT
230517	SLEEVES AND SLEEVE SEALS FOR HVAC PIPING
230529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
230548.13	VIBRATION CONTROLS FOR HVAC
230553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC
230713	DUCT INSULATION
230719	HVAC PIPING INSULATION
232300	REFRIGERANT PIPING
233113	METAL DUCTS
233116	NONMETAL DUCTS
233300	AIR DUCT ACCESSORIES
233423	HVAC POWER VENTILATORS
233713.23	REGISTERS AND GRILLES
237416.11	PACKAGED, SMALL-CAPACITY, ROOFTOP AIR-CONDITIONING UNITS
238113.13	PACKAGED TERMINAL AIR-CONDITIONERS, OUTDOOR, WALL-MOUNTED UNITS
238126	SPLIT-SYSTEM AIR-CONDITIONERS

238126.10	DUCTLESS SPLIT-SYSTEM AIR-CONDITIONERS

DIVISION 26 - ELECTRICAL

260513	MEDIUM-VOLTAGE CABLES
260519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
260523	CONTROL-VOLTAGE ELECTRICAL POWER CABLES
260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260533.13	CONDUITS FOR ELECTRICAL SYSTEMS
260533.16	BOXES AND COVERS FOR ELECTRICAL SYSTEMS
260543	UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS
260573	POWER SYSTEM STUDIES
261219	PAD-MOUNTED, LIQUID-FILLED, MEDIUM-VOLTAGE TRANSFORMERS
261839	MEDIUM-VOLTAGE MOTOR CONTROLLERS
262200	LOW-VOLTAGE TRANSFORMERS
262416	PANELBOARDS
262505	480V CONTROL PANELS
262923	VARIABLE-FREQUENCY MOTOR CONTROLLERS
263600	TRANSFER SWITCHES
264113	LIGHTNING PROTECTION FOR STRUCTURES
265000	LIGHTING
265613	LIGHTING POLES AND STANDARDS

DIVISION 27 - COMMUNICATIONS

271513	COMMUNICATIONS COPPER HORIZONTAL CABLING
271523	COMMUNICATIONS OPTICAL FIBER HORIZONTAL CABLING

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

284621.11 ADDRESSABLE FIRE-ALARM SYSTEMS

DIVISION 31 - EARTHWORK

310515 SOILS AND AGGREGATES FOR EARTHWORK

310519.13 GEOTEXTILES FOR EARTHWORK

310900 GEOTECHNICAL INSTRUMENTATION AND MONITORING

311000 SITE CLEARING

312000 EARTHWORK

312319 DEWATERING

312333 TRENCHING AND BACKFILLING

312500 EROSION AND SEDIMENTATION CONTROLS

315000 EXCAVATION SUPPORT AND PROTECTION

DIVISION 32 - EXTERIOR IMPROVEMENTS

321216 ASPHALT PAVING

323113 CHAIN LINK FENCES AND GATES

329200 TURF AND GRASSES

DIVISION 33 - UTILITIES

330516.13 PRECAST CONCRETE UTILITY STRUCTURES

330517 PRECAST CONCRETE VALVE VAULTS AND METER BOXES

330519 DUCTILE-IRON UTILITY PIPE FOR WATER SERVICE

330531.16 POLYVINYL CHLORIDE PRESSURE PIPE FOR WATER SERVICE

330533.23 POLYETHYLENE PRESSURE PIPE FOR WATER SERVICE

331216 WATER UTILITY DISTRIBUTION VALVES

331416 SITE WATER UTILITY DISTRIBUTION PIPING

331626 STEEL TANK RETROFITS

333100 SANITARY UTILITY SEWERAGE PIPING

333113 PUBLIC SANITARY UTILITY SEWERAGE PIPING

333400 SANITARY UTILITY SEWERAGE FORCE MAINS

334100	STORM UTILITY DRAINAGE PIPING
334213	PIPE CULVERTS

DIVISION 40 - PROCESS INTERCONNECTIONS

400506	COUPLINGS, ADAPTERS, AND SPECIALS FOR PROCESS PIPING
400507	HANGERS AND SUPPORTS FOR PROCESS PIPING
400517	COPPER PROCESS PIPE AND TUBING
400519	DUCTILE IRON PROCESS PIPE
400522	STAINLESS STEEL PROCESS PIPE AND TUBING FOR OZONE SERVICE
400523	STAINLESS STEEL PROCESS PIPE AND TUBING
400531	THERMOPLASTIC PROCESS PIPE
400549	CHEMICAL HOSING AND TUBING
400551	COMMON REQUIREMENTS FOR PROCESS VALVES
400553	IDENTIFICATION FOR PROCESS PIPING
400557	ACTUATORS FOR PROCESS VALVES AND GATES
400559.23	STAINLESS STEEL SLIDE GATES
400561	GATE VALVES
400561.43	*KNIFE GATE VALVES*
400562	PLUG VALVES
400563	BALL VALVES
400564	BUTTERFLY VALVES
400565.23	SWING CHECK VALVES
400565.26	TILTING DISC CHECK VALVES
400565.29	DOUBLE-DISK CHECK VALVES
400565.33	RUBBER FLAPPER CHECK VALVES
400567.36	PRESSURE-REGULATING VALVES
400567.38	THERMOPLASTIC PRESSURE-CONTROL VALVES
400567.39	PRESSURE-RELIEF VALVES
400574.23	*PINCH VALVES*

400578.13	AIR/VACUUM VALVES FOR WATER SERVICE
400582	SOLENOID VALVES FOR PROCESS SERVICE
404113.26	PROCESS PIPING THERMAL FLUIDS HEAT TRACING
404123.26	PROCESS EQUIPMENT THERMAL FLUIDS HEAT TRACING
406100	PROCESS CONTROL AND ENTERPRISE MANAGEMENT SYSTEMS GENERAL PROVISIONS
406121.20	PROCESS CONTROL SYSTEM TESTING
406191	PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST
406196	*PROCESS CONTROL DESCRIPTIONS*
406263	OPERATOR INTERFACE TERMINALS
406343	PROGRAMMABLE LOGIC CONTROLLERS
406613	SWITCHES AND ROUTERS
406717	INDUSTRIAL ENCLOSURES
406733	PANEL WIRING
406763	CONTROL PANEL MOUNTED UPS
406863	CONFIGURATION OF HMI SOFTWARE
406866	CONFIGURATION OF CONTROLLER SOFTWARE
407000	INSTRUMENTATION FOR PROCESS SYSTEMS
407113	MAGNETIC FLOW METERS
407123.13	VENTURI FLOW METERS
407143	VARIABLE AREA FLOW METERS
407179	FLOW SWITCHES
407213	ULTRASONIC LEVEL METERS (CONTINUOUS AND POINT TYPE)
407233	CAPACITANCE (RF ADMITTANCE) TYPE LEVEL METERS (CONTINUOUS AND POINT TYPE)
407243	PRESSURE AND DIFFERENTIAL PRESSURE TYPE LEVEL METERS
407313	PRESSURE AND DIFFERENTIAL PRESSURE GAUGES
407326	GAUGE-PRESSURE TRANSMITTERS
407329	DIFFERENTIAL PRESSURE TRANSMITTERS
407336	PRESSURE AND DIFFERENTIAL PRESSURE SWITCHES
407363	DIAPHRAGM SEALS
407413	RESISTANCE TEMPERATURE DEVICES
407443	BIMETALLIC THERMOMETERS
407463	TEMPERATURE TRANSMITTERS
407466	TEMPERATURE SWITCHES
407469	THERMOWELLS, PROTECTION TUBES, AND TEST THERMOWELLS

407505	MULTI-PARAMETER ANALYZER TRANSMITTER
407506	SINGLE PARAMETER ANALYZER TRANSMITTER
407513	PH/ORP ANALYZERS
407543	DISSOLVED OXYGEN ANALYZERS
407546	DISSOLVED OZONE ANALYZERS
407553	TURBIDITY ANALYZERS
407613	OXYGEN GAS ANALYZERS
407616	OZONE ANALYZERS
407726	POSITION, SPEED, AND MOTION MEASUREMENT DEVICES
407813	INDICATORS AND METERS
407819	SWITCHES AND PUSH BUTTONS
407833	ANNUNCIATORS
407853	RELAYS
407856	ISOLATORS, INTRINSICALLY SAFE BARRIERS, AND SURGE SUPPRESSORS
407859	POWER SUPPLIES
407963	INSTRUMENT TUBING

DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT

411213.19	BELT BULK MATERIAL CONVEYORS

DIVISION 43 - PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT

430553	IDENTIFICATION FOR PROCESS GAS AND LIQUID HANDLING EQUIPMENT
432313.19	SELF-PRIMING CENTRIFUGAL PUMPS
432333	END SUCTION SOLIDS HANDLING PUMPS
432341	END SUCTION PROCESS PUMPS
432356.13	MAGNETIC DRIVE GEAR PUMPS
432356.25	METALLIC GEAR PUMPS
432357	PROGRESSING CAVITY PUMPS
434113	WELDED STEEL TANKS
434145	FIBERGLASS REINFORCED PLASTIC TANKS

DIVISION 46 - WATER AND WASTEWATER EQUIPMENT

460553	IDENTIFICATION FOR WATER AND WASTEWATER EQUIPMENT
463150.05	OZONE SYSTEM INSTALLATION
463154.01	OZONE DISSOLUTION SYSTEM-SIDE STREAM INJECTION
463153.01	OZONE DISSOLUTION SYSTEM
463153.02	NITROGEN BOOST SYSTEM
463153.05	OZONE SYSTEM INSTRUMENTS
463333	POLYMER BLENDING AND FEED EQUIPMENT
463334 -	BALLASTED FLOCCULATION DRY POLYMER PREPARATION SYSTEM
463344	PERISTALTIC METERING PUMPS
463350.00	SPUR GEAR METERING PUMPS
463366	*LIQUID CHEMICAL TRANSFER PUMPS*
464366.05	*BALLASTED HIGH-RATE CLARIFIER (ACTIFLO SYSTEM) INSTALLATION*
463613	STORAGE SILOS
463633	*VOLUMETRIC FEED EQUIPMENT*
463643	LIME SLAKING EQUIPMENT
463636	*DRY CHEMICAL METERING EQUIPMENT*
463683	*DRY CHEMICAL FEED ACCESSORIES AND SAFETY EQUIPMENT*
464117	INLINE STATIC MIXERS
464124	VERTICAL SHAFT MIXING EQUIPMENT
464149	POTABLE WATER TANK MIXERS
466113	FILTER MEDIA
466119.13	FRP WASH WATER TROUGHS
466123	FILTER UNDERDRAIN SYSTEM
467621	BELT FILTER PRESSES

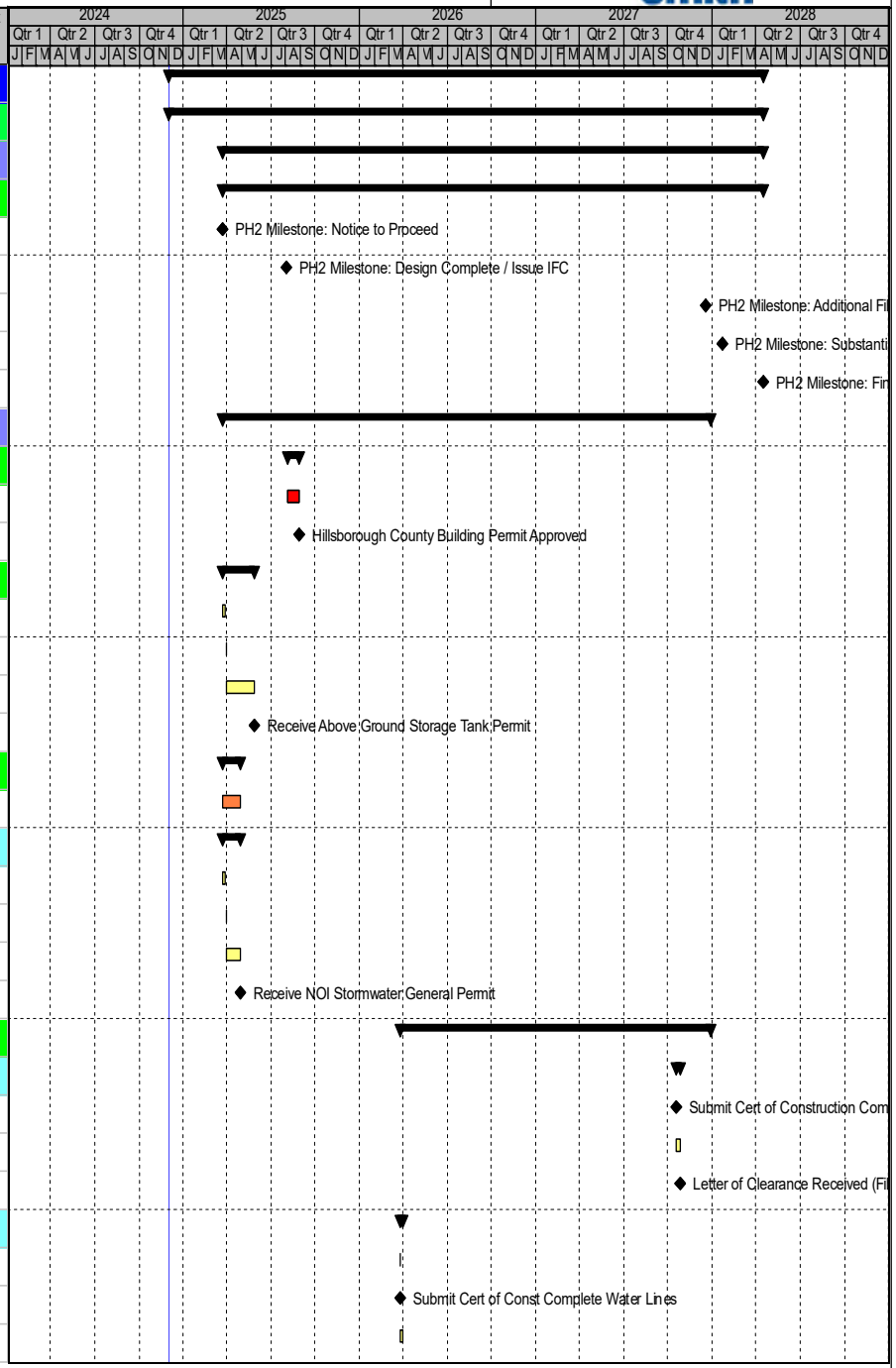
Attachment 3

GMP Schedule

VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
VWNA TBW RSWTP Expansion - Client Execution - Update			849	842	02-Dec-24	14-Apr-28	0
PHASE 2			842	842	02-Dec-24	14-Apr-28	0
PROJECT MILESTONES			766	766	24-Mar-25	14-Apr-28	0
Phase 2 Milestones			766	766	24-Mar-25	14-Apr-28	0
PH2.MS-00001	PH2 Milestone: Notice to Proceed	0%	0	0	24-Mar-25		67
PH2.MS-30001	PH2 Milestone: Design Complete / Issue IFC	0%	0	0		01-Aug-25	0
PH2.MS-50001	PH2 Milestone: Additional Filter Capacity Available	0%	0	0		17-Dec-27	0
PH2.MS-10001	PH2 Milestone: Substantial Completion (Balance of Plant)	0%	0	0		20-Jan-28	0
PH2.MS-20001	PH2 Milestone: Final Completion	0%	0	0		14-Apr-28	0
Construction Permits			692	692	24-Mar-25	29-Dec-27	14
Hillsborough County Building Permit			20	20	04-Aug-25	29-Aug-25	0
DS-PMT-040	Hillsborough County Building Permit Review	0%	20	20	04-Aug-25	29-Aug-25	0
DS-PMT-10040	Hillsborough County Building Permit Approved	0%	0	0		29-Aug-25	0
Above Ground Tank Registration & Permitting (if required)			46	46	24-Mar-25	27-May-25	67
CN.1170000	Prepare Storage Tank Permit Pkg	0%	5	5	24-Mar-25	28-Mar-25	67
CN.1180000	Submit Storage Tank Permit Pkg	0%	1	1	31-Mar-25	31-Mar-25	67
CN.1190000	Storage Tank Permit Review & Approval by FDEP (60 Cal Days)	0%	40	40	01-Apr-25	27-May-25	67
CN.1200000	Receive Above Ground Storage Tank Permit	0%	0	0		27-May-25	67
US Environmental Protection Agency			26	26	24-Mar-25	28-Apr-25	87
DS-PR-00410	USEPA: NOI To Use Stormwater at General Permit (Expansion)	0%	26	26	24-Mar-25	28-Apr-25	87
NOI To Use Stormwater General Permit (Expansion)			26	26	24-Mar-25	28-Apr-25	87
DS-PR-10410	CDM Smith Prepares NOI Storm General Permit	0%	5	5	24-Mar-25	28-Mar-25	87
DS-PR-20410	Submit NOI Stormwater Gen Permit Pkg to USEPA	0%	1	1	31-Mar-25	31-Mar-25	87
DS-PR-30410	NOI to Use Storm Gen Permit Rev & App by USEPA (30 Cal Days)	0%	20	20	01-Apr-25	28-Apr-25	87
DS-PR-40410	Receive NOI Stormwater General Permit	0%	0	0		28-Apr-25	87
FDEP - Drinking Water Facility Letter of Clearance Permit (Multiple)			442	442	25-Mar-26	29-Dec-27	14
Partial - Facilities Permit (Filters)			5	5	19-Oct-27	25-Oct-27	10
DS-PR-30300	Submit Cert of Construction Compliance Work (Filters)	0%	0	0	19-Oct-27		10
DS-PR-20300	Letter of Clearance Work - Review & Approve	0%	5	5	19-Oct-27	25-Oct-27	10
DS-PR-10300	Letter of Clearance Received (Filters)	0%	0	0		25-Oct-27	10
Partial - Raw Water Tie-In			6	6	25-Mar-26	01-Apr-26	429
DS-PR-80210	Received Clear to Place Water Lines in Service	0%	1	1	25-Mar-26	25-Mar-26	429
DS-PR-90210	Submit Cert of Const Complete Water Lines	0%	0	0	26-Mar-26		429
DS-PR-100210	Letter of Clearance Water Lines Review & Approve	0%	5	5	26-Mar-26	01-Apr-26	429

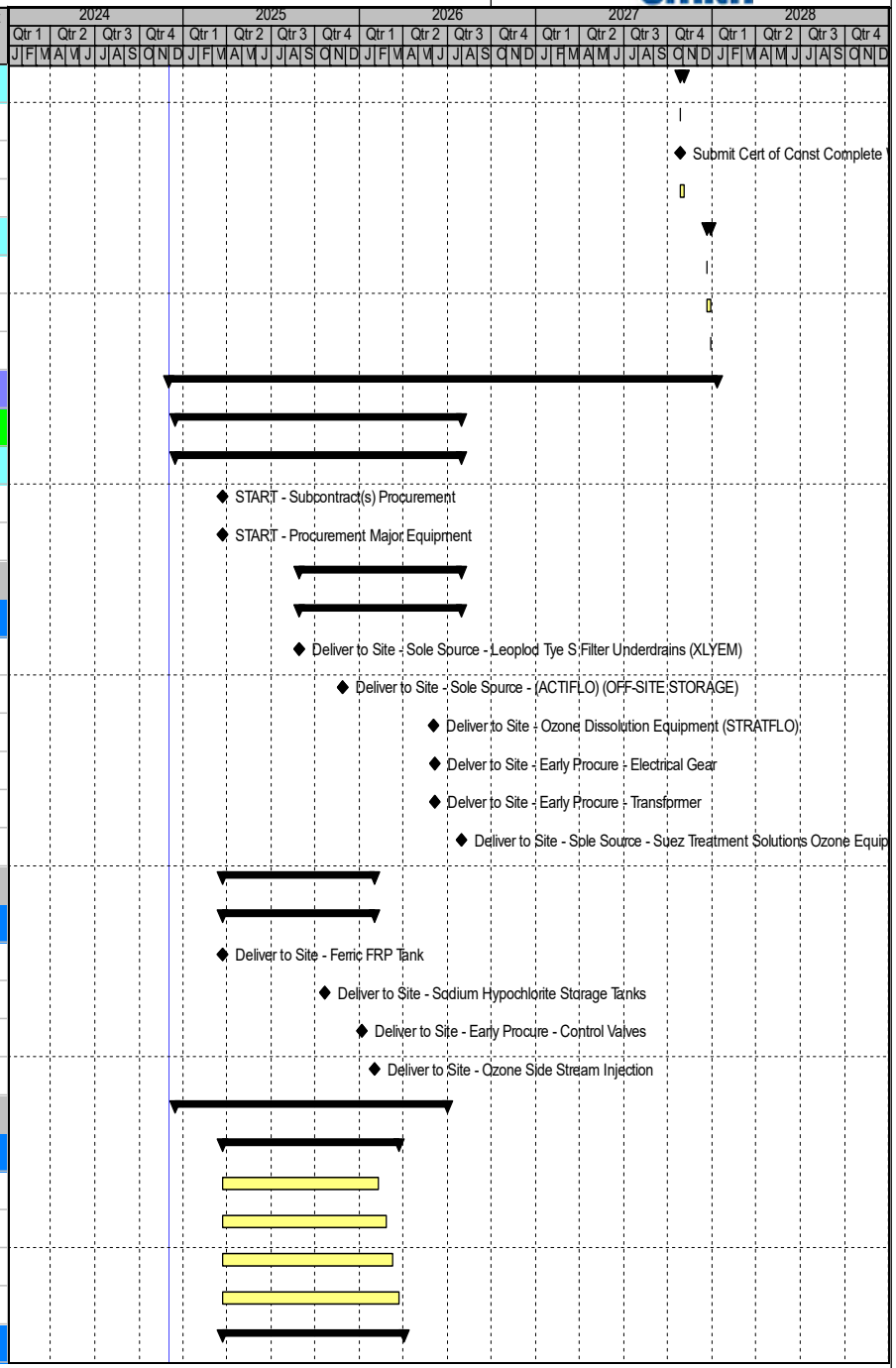


Print Date: 03-Dec-24

VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Partial - 42"/Actiflo/Ozone Train			6	6	26-Oct-27	02-Nov-27	30
DS-PR-130210	Received Clear to Place Water Lines in Service	0%	1	1	26-Oct-27	26-Oct-27	30
DS-PR-120210	Submit Cert of Const Complete Water Lines	0%	0	0	27-Oct-27		30
DS-PR-110210	Letter of Clearance Water Lines Review & Approve	0%	5	5	27-Oct-27	02-Nov-27	30
Final Clearance			7	7	20-Dec-27	29-Dec-27	14
DS-PR-30320	Submit Cert of Construction Completion - ALL	0%	1	1	20-Dec-27	20-Dec-27	14
DS-PR-20320	Letter of Clearance Review & Approve - ALL	0%	5	5	21-Dec-27	28-Dec-27	14
DS-PR-10320	Submit Cert of Construction Completion - ALL	0%	1	1	29-Dec-27	29-Dec-27	14
CONSTRUCTION STAGE			775	775	02-Dec-24	10-Jan-28	67
Pre-Construction / Procurement			406	406	16-Dec-24	31-Jul-26	426
Key Construction Procurement / Subcontracting			406	406	16-Dec-24	31-Jul-26	426
KCP-2	START - Subcontract(s) Procurement	0%	0	0	24-Mar-25		78
KCP-10002	START - Procurement Major Equipment	0%	0	0	24-Mar-25		236
EPP-1 Early Equipment Procurement			228	228	29-Aug-25	31-Jul-26	386
Sole Source Delivery to Site			228	228	29-Aug-25	31-Jul-26	386
PR140060	Deliver to Site - Sole Source - Leoplod Tye S Filter Underdrains (XLYEM)	0%	0	0		29-Aug-25	435
PR170060	Deliver to Site - Sole Source - (ACTIFLO) (OFF-SITE STORAGE)	0%	0	0		26-Nov-25	396
PR120060	Deliver to Site - Ozone Dissolution Equipment (STRATFLO)	0%	0	0		03-Jun-26	316
PR.FD.10100	Delver to Site - Early Procure - Electrical Gear	0%	0	0		04-Jun-26	239
PR.FD.80100	Delver to Site - Early Procure - Transformer	0%	0	0		04-Jun-26	426
PR150060	Deliver to Site - Sole Source - Suez Treatment Solutions Ozone Equipment (SUEZ)	0%	0	0		31-Jul-26	275
EPP-2 Early Equipment Procurement			214	214	24-Mar-25	02-Feb-26	435
Early Procurement - Delivery to Site			214	214	24-Mar-25	02-Feb-26	435
CN.1120000	Deliver to Site - Ferric FRP Tank	0%	0	0		24-Mar-25	535
CN.1100000	Deliver to Site - Sodium Hypochlorite Storage Tanks	0%	0	0		20-Oct-25	389
PR.FD.40100	Deliver to Site - Early Procure - Control Valves	0%	0	0		05-Jan-26	454
PR.FD.70100	Deliver to Site - Ozone Side Stream Injection	0%	0	0		02-Feb-26	401
GMP Equipment Procurement - Balance of Plant			386	386	16-Dec-24	01-Jul-26	446
General			250	250	24-Mar-25	24-Mar-26	370
PR160060	Procure, Submittals, Fab & Deliver - Sole Source - PEMD	0%	220	220	24-Mar-25	09-Feb-26	400
PR.FD.50100	Procure, Submittals, Fab & Deliver - Early Procure - Weirs & Gates	0%	230	230	24-Mar-25	24-Feb-26	282
CN.1130000	Procure, Submittals, Fab & Deliver - Ferric Feed Pumps	0%	240	240	24-Mar-25	10-Mar-26	295
PR.FD.60100	Procure, Submittals, Fab & Deliver - Early Procure - SCADA & Instrumentation	0%	250	250	24-Mar-25	24-Mar-26	355
Filter Equipment			257	257	24-Mar-25	02-Apr-26	509



P6 ID: 282964.Client2
Data Date:01-Dec-24
Layout: 282964:* PH2 Detail Sched (TF)

Actual | Remaining
LOE | Critical Work
Summary | Milestone

PROGRESS SCHEDULE

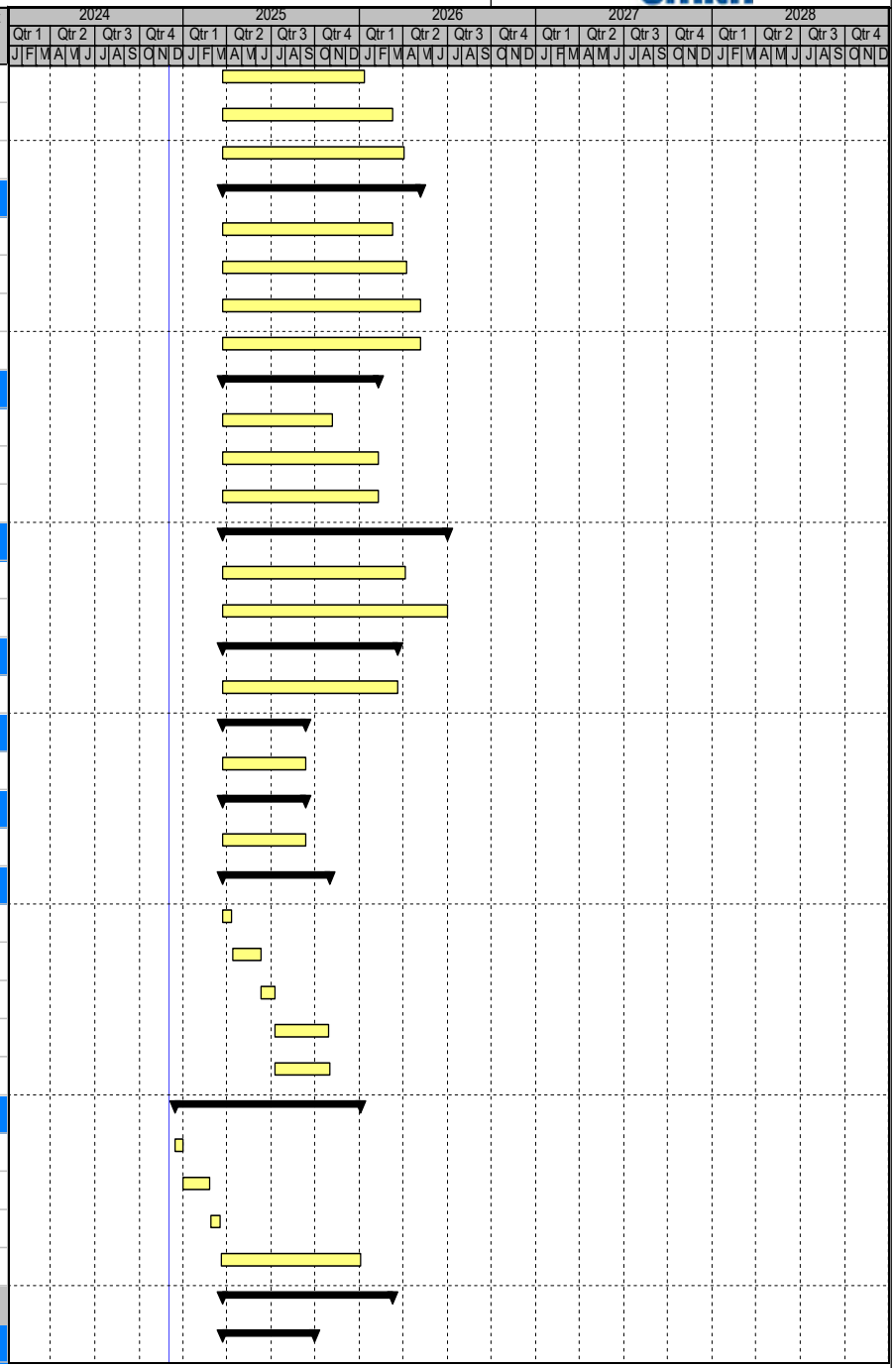
Phase 2 - Detail Schedule by WBS (All Activities)

Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

VWNA TBW RSWTP Expansion - Client Execution - Update

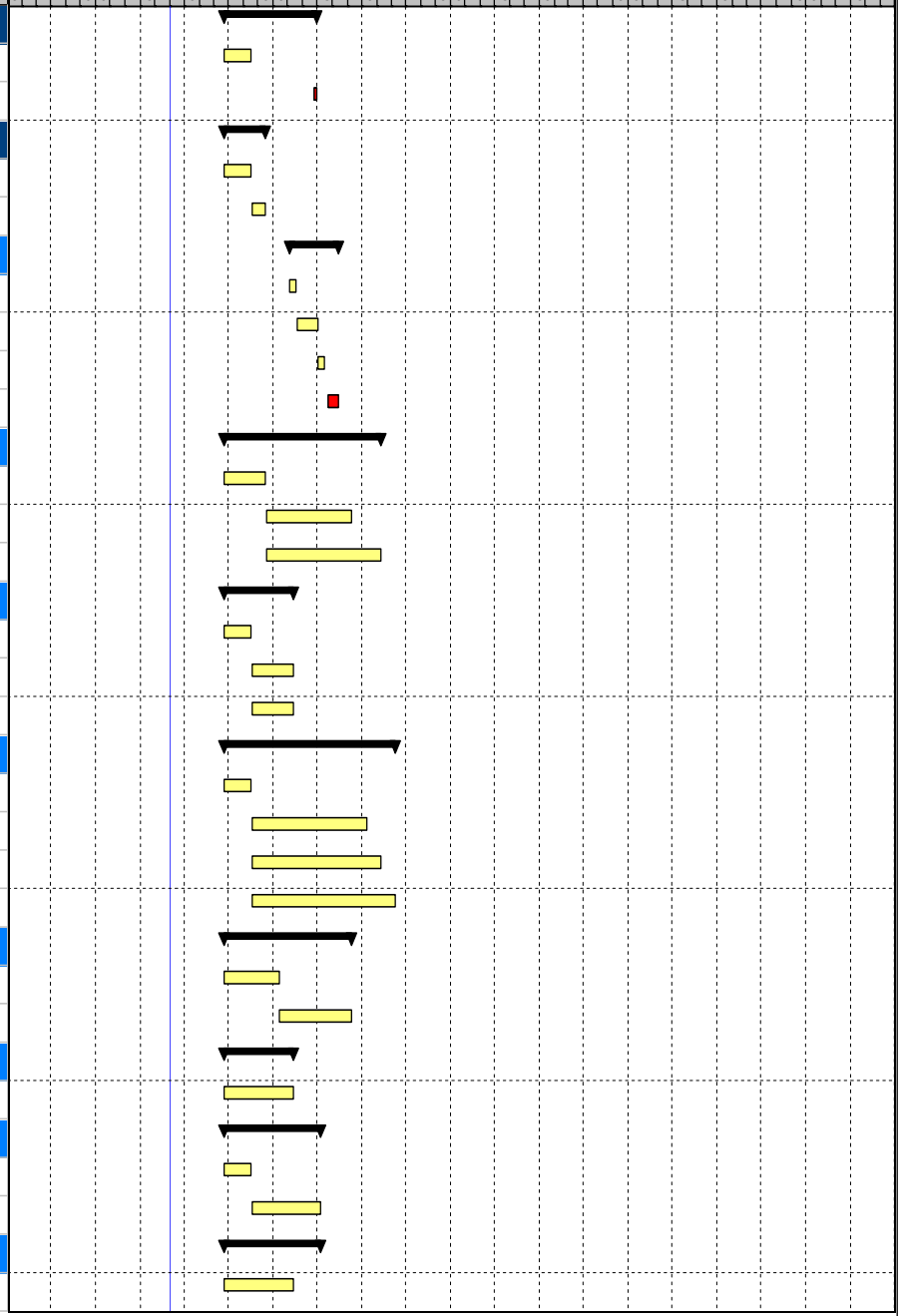
CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.1110000	Procure, Submittals, Fab & Deliver - Finished Water Pumps	0%	200	200	24-Mar-25	09-Jan-26	566
CN.1080000	Procure, Submittals, Fab & Deliver - Backwash Pumps	0%	240	240	24-Mar-25	10-Mar-26	526
CN.790000	Procure, Submittals, Fab & Deliver - Filter V-Notch Troughs / Gullets	0%	257	257	24-Mar-25	02-Apr-26	509
Ozone, Ozone Generator, Actiflo Equipment			282	282	24-Mar-25	07-May-26	484
CN.1090000	Procure, Submittals, Fab & Deliver - Air Scour Blower	0%	240	240	24-Mar-25	10-Mar-26	299
CN.760000	Procure, Submittals, Fab & Deliver - Generator	0%	260	260	24-Mar-25	07-Apr-26	279
CN.770000	Procure, Submittals, Fab & Deliver - Mixers	0%	282	282	24-Mar-25	07-May-26	309
CN.1070000	Procure, Submittals, Fab & Deliver - Lime Silo and Feed System	0%	282	282	24-Mar-25	07-May-26	484
Yard Piping			220	220	24-Mar-25	09-Feb-26	546
PR.EP.30100	Procure, Submittals, Fab & Deliver - 16" DI Thickener Yard Pipe	0%	160	160	24-Mar-25	06-Nov-25	606
CN.1000000	Procure, Submittals, Fab & Deliver - 48"-42" Pipe (Actiflo Connection)	0%	220	220	24-Mar-25	09-Feb-26	395
CN.830000	Procure, Submittals, Fab & Deliver - Yard Pipe / Weir Box (Backwash Mods)	0%	220	220	24-Mar-25	09-Feb-26	546
Belt Filter Presses Equipment			320	320	24-Mar-25	01-Jul-26	254
CN.810000	Procure, Submittals, Fab & Deliver - Belt Filter Presses & Pumps - Bldg #2 (BFP 5-6-7)	0%	259	259	24-Mar-25	06-Apr-26	315
CN.4540000	Procure, Submittals, Fab & Deliver - Belt Filter Presses & Pumps - Bldg#1 (BFP 1-4)	0%	320	320	24-Mar-25	01-Jul-26	236
Solids Equipment			247	247	24-Mar-25	19-Mar-26	372
CN.800000	Procure, Submittals, Fab & Deliver - Sludge Pump Equipment	0%	247	247	24-Mar-25	19-Mar-26	372
Geotech Liner for Sludge Drying Area			120	120	24-Mar-25	10-Sep-25	499
CN.1550000	Procure, Submittals, Fab & Deliver - Geotech Liner for Sludge Drying Area	0%	120	120	24-Mar-25	10-Sep-25	499
Backwash Water Piping Mods			230	120	24-Mar-25	10-Sep-25	455
CN.4730000	Procure, Submittals, Fab & Deliver - Process Piping & Appurtances for Mods	0%	230	120	24-Mar-25	10-Sep-25	455
Large Bore Pipe			315	155	24-Mar-25	30-Oct-25	576
PR.EP.530100	Issue P.O. - LB Pipe	0%	15	15	24-Mar-25	11-Apr-25	416
PR.EP.550100	Prepare Submittal Package for Review - LB Pipe	0%	40	40	14-Apr-25	09-Jun-25	416
PR.EP.560100	Engineer Review Submittal - LB Pipe - Existing Filters to New Fitlers	0%	20	20	10-Jun-25	08-Jul-25	416
PR.EP.540100	Fab/Deliver - LB Pipe - Raw Water Feed Line to Actiflo Train	0%	240	80	09-Jul-25	29-Oct-25	416
PR.EP.970100	Fab/Deliver - LB Pipe - Existing Filters to New Filters	0%	240	80	09-Jul-25	30-Oct-25	576
Large Bore Valves			325	265	16-Dec-24	02-Jan-26	581
PR.EP.570100	Issue P.O. - LB Valves	0%	10	10	16-Dec-24	30-Dec-24	581
PR.EP.590100	Prepare Submittal Package for Review - LB Valves	0%	40	40	31-Dec-24	25-Feb-25	581
PR.EP.600100	Engineer Review Submittal - LB Valves	0%	15	15	26-Feb-25	18-Mar-25	581
PR.EP.580100	Fab/Deliver Sole Source - LB Valves	0%	260	200	19-Mar-25	02-Jan-26	581
Procure Subcontracts / Submittals / Eng Reviews			240	240	24-Mar-25	10-Mar-26	526
Procure Sitework - Roads, Swales, Ditches			134	134	24-Mar-25	30-Sep-25	8

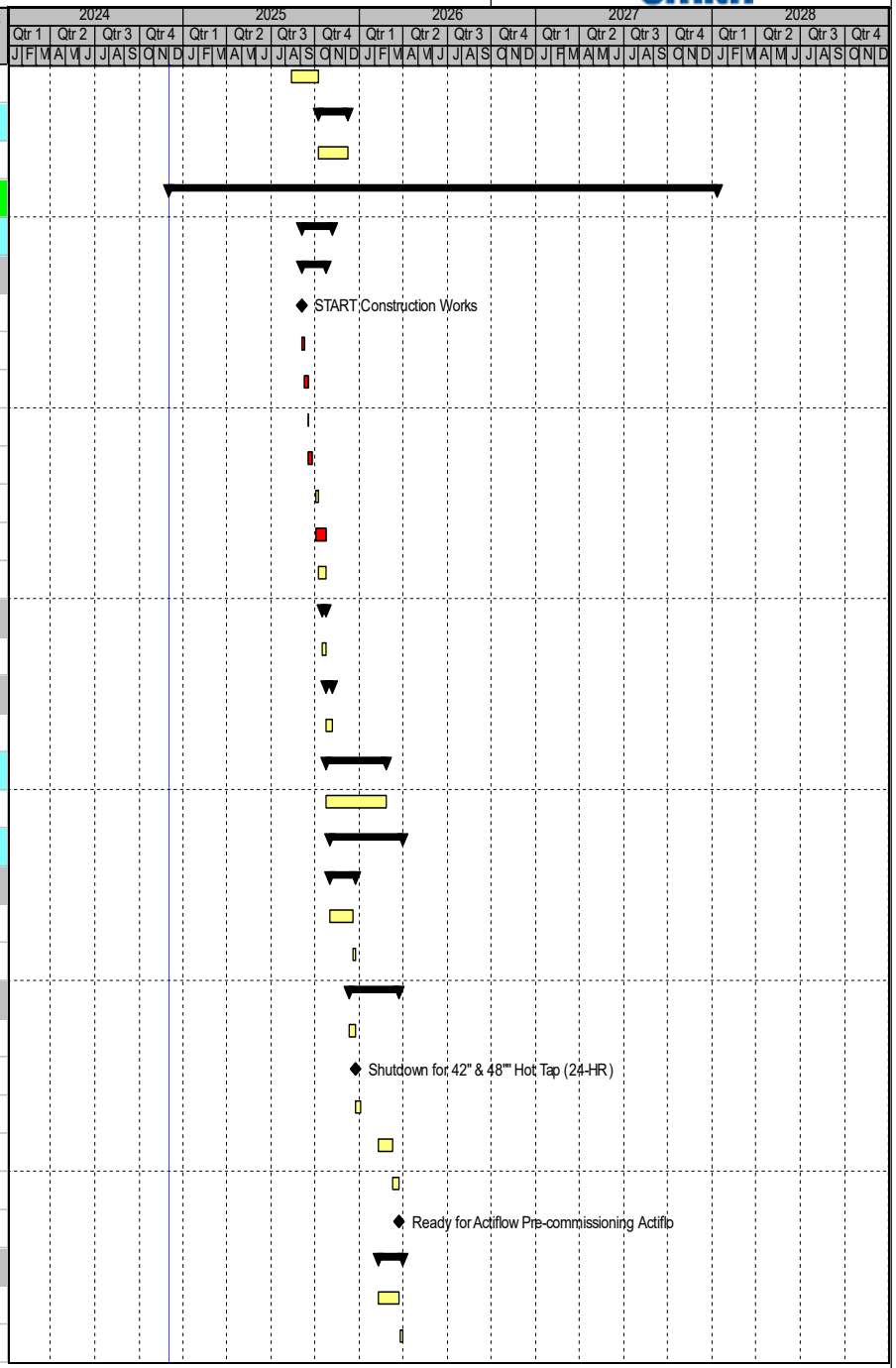


Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

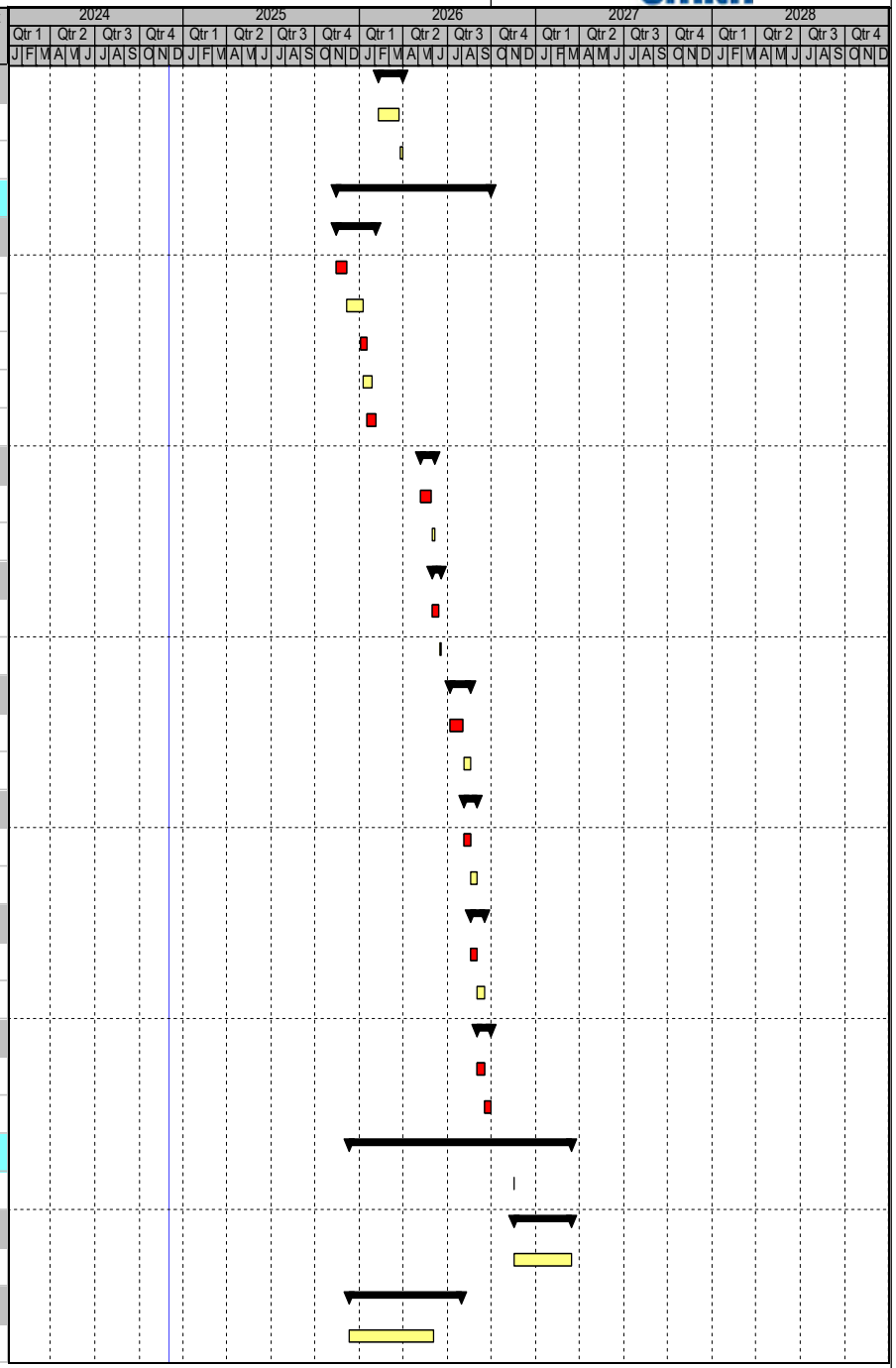
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Utilities			134	134	24-Mar-25	30-Sep-25	0
CN.350000	Procure, Submittals & Reviews - Sitework Subcontractor	0%	40	40	24-Mar-25	16-May-25	78
CN.360000	Sitework Mobilization	0%	5	5	24-Sep-25	30-Sep-25	0
Excavation / Shoring			60	60	24-Mar-25	16-Jun-25	82
CN.590000	Procure, Submittals, Reviews - Shoring System (Filter Gallary)	0%	40	40	24-Mar-25	16-May-25	82
CN.600000	Fab/Delivery - Shoring System Materials - Filter Gallary	0%	20	20	19-May-25	16-Jun-25	82
Procure Rigid Inclusion			69	69	06-Aug-25	13-Nov-25	0
CN.4890000	Procure - Rigid Inclusion Subcontract	0%	10	10	06-Aug-25	19-Aug-25	4
CN.4860000	Prepare & Submit - Rigid Inclusions Material Submittals	0%	30	30	20-Aug-25	01-Oct-25	4
CN.4870000	Rev & Approve - RIgid Inclusion Pile Submittals	0%	10	10	02-Oct-25	16-Oct-25	4
CN.4880000	Mobilize RI Equipment & Set-up - FIlter Area	0%	15	15	23-Oct-25	13-Nov-25	0
Procure Yard Mechanical Piping			220	220	24-Mar-25	09-Feb-26	380
CN.370000	Procure, Submittals & Reviews - Yard Piping Subcontractor	0%	60	60	24-Mar-25	16-Jun-25	204
CN.560000	Fab/Deliver - Yard Piping 42"	0%	120	120	17-Jun-25	09-Dec-25	420
CN.610000	Fab/Deliver - Yard Piping 24"-42"	0%	160	160	17-Jun-25	09-Feb-26	204
Procure Concrete / Structural			100	100	24-Mar-25	12-Aug-25	346
CN.420000	Procure, Submittals, Reviews - Concrete Subcontractor	0%	40	40	24-Mar-25	16-May-25	146
CN.430000	Fab/Delivery - Concrete Reinforcing FND 1st Del (Filter Bldg)	0%	60	60	19-May-25	12-Aug-25	146
CN.570000	Fab/Delivery - Concrete Reinforcing FND 1st Del (Ozone / Actiflo)	0%	60	60	19-May-25	12-Aug-25	346
Procure Process Mechanical Piping			240	240	24-Mar-25	10-Mar-26	370
CN.440000	Procure, Submittals, Reviews - Mechanical Process Piping	0%	40	40	24-Mar-25	16-May-25	328
CN.1020000	Fab/Delivery - Mechanical Process Piping Filters	0%	160	160	19-May-25	09-Jan-26	372
CN.1030000	Fab/Delivery - Mechanical Process Piping Ozone Contactor Tank	0%	180	180	19-May-25	09-Feb-26	390
CN.450000	Fab/Delivery - Mechanical Process Piping Actiflo	0%	200	200	19-May-25	10-Mar-26	328
Procure Electrical Package (Self-Perform)			180	180	24-Mar-25	09-Dec-25	365
CN.460000	Procure, Submittals, Reviews - Electrical Gear	0%	80	80	24-Mar-25	15-Jul-25	365
CN.470000	Fab/Delivery - Site Electrical Materials & Manholes	0%	100	100	16-Jul-25	09-Dec-25	365
Procure I&C Package (Self-Perform)			100	100	24-Mar-25	12-Aug-25	379
CN.480000	Procure, Submittals, Reviews - I&C Pacakge	0%	100	100	24-Mar-25	12-Aug-25	379
Procure Metals Package			140	140	24-Mar-25	08-Oct-25	427
CN.500000	Procure, Submittals, Reviews - Metals	0%	40	40	24-Mar-25	16-May-25	427
CN.510000	Fab/Delivery - Metals	0%	100	100	19-May-25	08-Oct-25	427
Procure Paintings & Coatings			140	140	24-Mar-25	08-Oct-25	626
CN.520000	Procure, Submittals, Reviews - Painting / Coatings	0%	100	100	24-Mar-25	12-Aug-25	626



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.530000	Mob - Painting / Coatings	0%	40	40	13-Aug-25	08-Oct-25	626
Mobilization of Field Office & Temp Utilities			40	40	08-Oct-25	08-Dec-25	587
MB-1	Mobilization of Field Office & Temp Utilities	0%	40	40	08-Oct-25	08-Dec-25	587
Construction Expansion			775	775	02-Dec-24	10-Jan-28	67
Sitework			46	46	02-Sep-25	05-Nov-25	607
Sitework - General Site-wide			36	36	02-Sep-25	22-Oct-25	617
CS-1	START Construction Works	0%	0	0	02-Sep-25		0
CN.1820000	Survey & Set Project Benchmarks	0%	5	5	02-Sep-25	08-Sep-25	0
CN.1830000	Install Environmental Protection Measures	0%	5	5	09-Sep-25	15-Sep-25	0
CN.1840000	Environmental Agency Inspection & Acceptance	0%	1	1	16-Sep-25	16-Sep-25	0
CN.1870000	Install Construction Temporary Fencing	0%	5	5	17-Sep-25	23-Sep-25	0
CN.2280000	Grade & Stone Existing Temp Field Office & Washdown Area	0%	5	5	01-Oct-25	07-Oct-25	587
CN.2010000	Install Temporary Road Access to South Area	0%	15	15	01-Oct-25	22-Oct-25	0
CN.2300000	Establish Guard Shack for Field Office & Tie-in Utilities	0%	10	10	08-Oct-25	22-Oct-25	617
Sitework - South Area			5	5	16-Oct-25	22-Oct-25	2
CN.2350000	Construct Temp Stone Ramp to Filter Area for Const Access	0%	5	5	16-Oct-25	22-Oct-25	2
Sitework - North Area			10	10	23-Oct-25	05-Nov-25	118
CN.2270000	Install Temporary Road Access to North Area & Washdown Area	0%	10	10	23-Oct-25	05-Nov-25	118
New Stormwater Pond			80	80	23-Oct-25	23-Feb-26	456
CN.950000	Construct Earth Stormwater Pond	0%	80	80	23-Oct-25	23-Feb-26	456
Yard Piping			101	101	30-Oct-25	31-Mar-26	511
Yard Piping - Actiflo Raw Water Feed Line			37	37	30-Oct-25	24-Dec-25	409
CN.YP.80050	Dig, Lay, Backfill Yard Piping - Raw Water Feed Line from Raw Water Tanks to Actiflo Train #5	0%	32	32	30-Oct-25	17-Dec-25	409
CN.YP.90050	Field Testing YP - Raw Water Line	0%	5	5	18-Dec-25	24-Dec-25	409
72-Inch Raw Water Tie-in to New Actiflo			70	70	10-Dec-25	24-Mar-26	395
CN.340000	Mobilize For Hot Tapping Existing 42" & 48"	0%	10	10	10-Dec-25	23-Dec-25	420
CN.1010000	Shutdown for 42" & 48"" Hot Tap (24-HR)	0%	0	0	24-Dec-25		420
CN.990000	Hot Tap Existing 42" & 48" Pipe	0%	5	5	24-Dec-25	02-Jan-26	420
CN.980000	Install U/G Pipe, 42" & 48" Hot Tap to Actiflo Pipe Connection	0%	20	20	10-Feb-26	10-Mar-26	395
CN.1210000	Install U/G 36" BFV and 36" Sleeve	0%	10	10	11-Mar-26	24-Mar-26	395
CN.820000	Ready for Actiflow Pre-commissioning Actiflo	0%	0	0		24-Mar-26	395
Yard Piping - Existing Filter to New Filters			35	35	10-Feb-26	31-Mar-26	511
CN.YP.20010	Dig, Lay, Backfill Yard Piping - Existing Filters to New Filters	0%	30	30	10-Feb-26	24-Mar-26	511
CN.YP.20050	Field Testing YP - Existing Filters to New Filters	0%	5	5	25-Mar-26	31-Mar-26	511

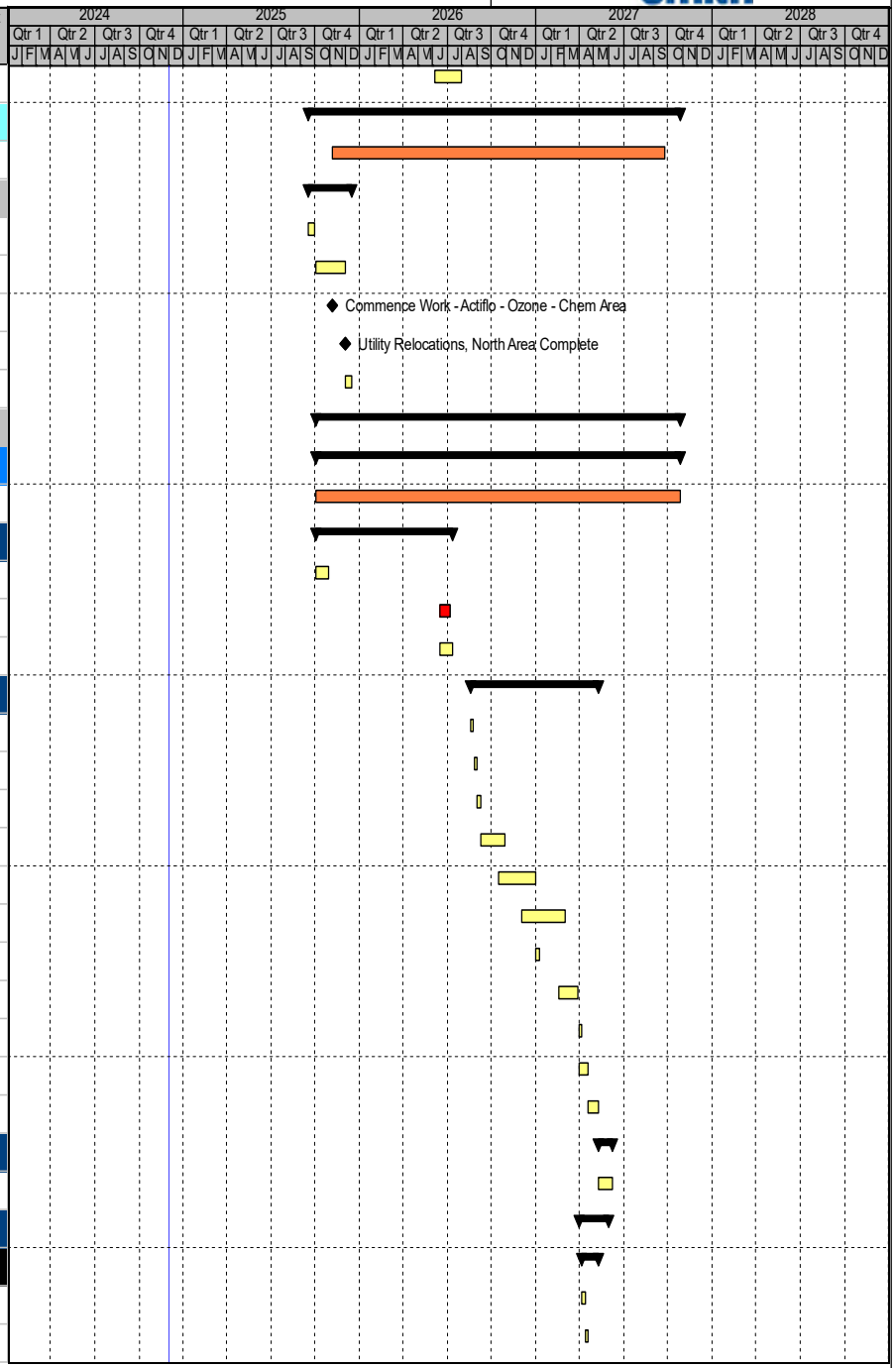


Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Yard Piping - Piping to Existing Filter Inlet Channel at Filter #1			35	35	10-Feb-26	31-Mar-26	204
CN.YP.30010	Dig, Lay, Backfill Yard Piping - Gallery	0%	30	30	10-Feb-26	24-Mar-26	204
CN.YP.30050	Field Testing YP - Gallery	0%	5	5	25-Mar-26	31-Mar-26	204
Rigid Inclusion Piles			218	218	14-Nov-25	29-Sep-26	155
Filter Bldg Structure			52	52	14-Nov-25	03-Feb-26	21
CN.2240000	Install Rigid Inclusion Piles - Filter Pipe Gallery (Approx 75)	0%	12	12	14-Nov-25	03-Dec-25	0
CN.2260000	Install Rigid Inclusion Piles - Filter 16-18 Basins (Approx 321)	0%	23	23	04-Dec-25	08-Jan-26	26
CN.2340000	Cut-off Rigid Inclusion Piles - Filter Pipe Gallery (Approx 75)	0%	10	10	02-Jan-26	15-Jan-26	0
CN.2250000	Construct Load Transfer Platform for RI Pile Driving - Filter 16-18 Basins	0%	12	12	09-Jan-26	27-Jan-26	26
CN.4490000	Construct Load Transfer Platform for RI Pile Driving - Filter Pipe Gallery	0%	12	12	16-Jan-26	03-Feb-26	0
Dry Chem Feed Bldg 3 (118-RI)			20	20	08-May-26	05-Jun-26	82
CN.RI.90010	Soil Improvement (RI Piles) - Dry Chem Feed Bldg3 (Approx 118)	0%	15	15	08-May-26	29-May-26	0
CN.RI.90020	Construct Load Transfer Platform for RI Pile Driving - Dry Chem Feed Bldg3	0%	5	5	01-Jun-26	05-Jun-26	82
Floc/Sed Unit 5 Structure (82-RI)			15	15	01-Jun-26	19-Jun-26	35
CN.3480000	Soil Improvement (RI Piles) - Floc/Sed Clarifier (Approx 52)	0%	10	10	01-Jun-26	12-Jun-26	0
CN.4500000	Construct Load Transfer Platform for RI Pile Driving - Floc/Sed Clarifier	0%	5	5	15-Jun-26	19-Jun-26	35
Ozone Contactor Tank Strcuture (210-RI)			30	30	07-Jul-26	17-Aug-26	79
CN.RI.50010	Soil Improvement (RI Piles) - Ozone Contactor Tank (Approx 218)	0%	20	20	07-Jul-26	03-Aug-26	0
CN.RI.50020	Construct Load Transfer Platform for RI Pile Driving - Ozone Contactor Tank	0%	10	10	04-Aug-26	17-Aug-26	79
Lox Storage Pad (36-RI)			20	20	04-Aug-26	31-Aug-26	160
CN.RI.70010	Soil Improvement (RI Piles) - Lox Storage Pad (Approx 36)	0%	10	10	04-Aug-26	17-Aug-26	0
CN.RI.70020	Construct Load Transfer Platform for RI Pile Driving - Lox Storage Pad	0%	10	10	18-Aug-26	31-Aug-26	160
Lox Heat Exchangers (22-RI)			20	20	18-Aug-26	15-Sep-26	165
CN.RI.80050	Soil Improvement (RI Piles) - Lox Heat Exchangers (Approx 34)	0%	10	10	18-Aug-26	31-Aug-26	0
CN.RI.80040	Construct Load Transfer Platform for RI Pile Driving - Lox Heat Exchangers	0%	10	10	01-Sep-26	15-Sep-26	165
Ozone Generator Bldg (35-RI)			20	20	01-Sep-26	29-Sep-26	0
CN.RI.60010	Soil Improvement (RI Piles) - Ozone Generator Bldg (Approx 35)	0%	10	10	01-Sep-26	15-Sep-26	0
CN.RI.60020	Construct Load Transfer Platform for RI Pile Driving - Ozone Generator Bldg	0%	10	10	16-Sep-26	29-Sep-26	0
Site Electrical			384	314	10-Dec-25	16-Mar-27	272
CN.1050000	Electrical Site Modifications (SUMMARY)	0%	150	0	17-Nov-26	17-Nov-26	251
Electrical Ductbank Extension (Actiflo / Ozone)			80	80	17-Nov-26	16-Mar-27	131
CN.620000	Electrical Ductbank Extension (Actiflo / Ozone)	0%	80	80	17-Nov-26	16-Mar-27	131
Existing Electrical Ductbank Modification (Filters)			160	160	10-Dec-25	30-Jul-26	426
CN.630000	Existing Electrical Ductbank Extension Mod (Filters)	0%	120	120	10-Dec-25	03-Jun-26	365



Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

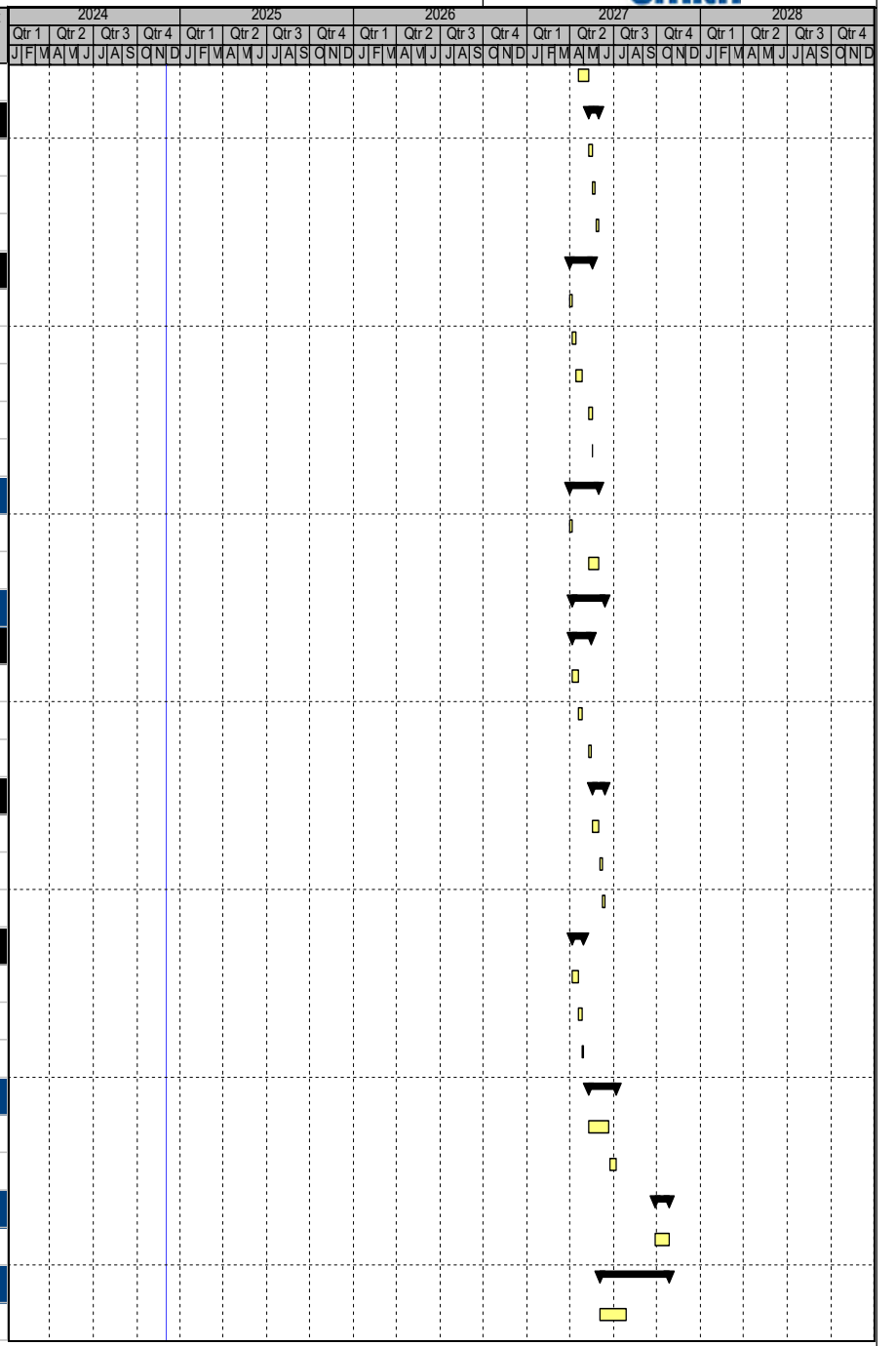
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.700000	Install Electrical Transformers	0%	40	40	04-Jun-26	30-Jul-26	426
North Area ((Ozone/Actiflo/Generator/Lox/Polymer)			525	525	17-Sep-25	25-Oct-27	117
CN.720000	Construct Actiflo (SUMMARY)	0%	403	470	06-Nov-25	24-Sep-27	26
General Civil			60	60	17-Sep-25	15-Dec-25	93
CN.1850000	Utility Locates - North Area	0%	10	10	17-Sep-25	30-Sep-25	93
CN.1860000	Utility Relocations, North Area	0%	40	40	01-Oct-25	01-Dec-25	93
CN.4000000	Commence Work - Actiflo - Ozone - Chem Area	0%	0	0	06-Nov-25		118
CN.1880000	Utility Relocations, North Area Complete	0%	0	0		01-Dec-25	93
CN.1890000	Clear & Grub - Northern Area	0%	10	10	02-Dec-25	15-Dec-25	93
Train 5 Construction Area			515	515	01-Oct-25	25-Oct-27	117
Ozone Contactor Tank			515	515	01-Oct-25	25-Oct-27	117
CN.740000	Construct Ozone Contact (SUMMARY)	0%	325	515	01-Oct-25	25-Oct-27	26
Sitework			193	193	01-Oct-25	13-Jul-26	439
CN.FL0-270010	Mobilize Sitework, Survey, Utility Locate, Relocations, Clear & Grub	0%	20	20	01-Oct-25	29-Oct-25	153
CN.FL0-140010	Excavate & Prep Foundation - Ozone Tank	0%	15	15	15-Jun-26	06-Jul-26	0
CN.FL0-260010	Install Temp Groundwater Management System	0%	20	20	15-Jun-26	13-Jul-26	439
Concrete / Structural			181	181	18-Aug-26	10-May-27	82
CN.FL0-150020	Structural Excavation - Ozone Contact Tank	0%	5	5	18-Aug-26	24-Aug-26	79
CN.FL0-150030	Install Underslab 6"-DR-OV Underdrain - Ozone Contact Tank	0%	5	5	25-Aug-26	31-Aug-26	79
CN.FL0-150040	Backfill & Prep SoG - Ozone Contact Tank	0%	5	5	01-Sep-26	08-Sep-26	79
CN.FL0-150050	F/R/P Concrete SoG, Ozone Contact Tank	0%	36	36	09-Sep-26	29-Oct-26	79
CN.FL0-150060	F/R/P Concrete Ext Walls, Ozone Contact Tank	0%	50	50	16-Oct-26	30-Dec-26	79
CN.FL0-150070	F/R/P Concrete Interior Walls, Ozone Contact Tank	0%	60	60	02-Dec-26	01-Mar-27	82
CN.FL0-170080	F/R/P Concrete Ozone Side Stream Innjection Pump Slab	0%	5	5	31-Dec-26	07-Jan-27	167
CN.FL0-150080	F/R/P Concrete Elevated Deck & Cure - Ozone Contact Tank	0%	30	30	16-Feb-27	29-Mar-27	82
CN.FL0-160080	F/R/P Concrete Sidestream Injection Tank Floor Slab EL 35.48	0%	5	5	30-Mar-27	05-Apr-27	92
CN.FL0-150100	Concrete Finishing, Ozone Contact Tank	0%	15	15	30-Mar-27	19-Apr-27	82
CN.FL0-150150	Leak Testing (Prep, Fill, Test, Drain) - Ozone Tank	0%	15	15	20-Apr-27	10-May-27	82
Coatings			20	20	11-May-27	08-Jun-27	122
CN.FL0-220010	Coatings - Ozone Tank	0%	20	20	11-May-27	08-Jun-27	122
Mechancial Process			45	45	30-Mar-27	01-Jun-27	218
Side Stream Injection Pump 9&10			25	25	06-Apr-27	10-May-27	108
CN.4220000	Install Vert 42" Ozone Diffusser Tube in Side Stream Injection	0%	5	5	06-Apr-27	12-Apr-27	102
CN.4230000	Set & Level Ozone Side Stream Injection Pumps 9&10	0%	5	5	13-Apr-27	19-Apr-27	102



VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.4240000	Install Ozone Side Stream Injection Proess Piping & Appurtnances	0%	15	15	20-Apr-27	10-May-27	108
Ozone Contact Tank			15	15	11-May-27	01-Jun-27	218
CN.4340000	Set & Level Ozone Destruct Unit 7&8	0%	5	5	11-May-27	17-May-27	82
CN.4350000	Install Ozone Destruct Unit 7 Process Piping & Appurtances	0%	5	5	18-May-27	24-May-27	218
CN.4360000	Install Ozone Destruct Unit 8 Process Piping & Appurtances	0%	5	5	25-May-27	01-Jun-27	218
Post-Ozone Lime Mixing Tank			36	36	30-Mar-27	18-May-27	227
CN.4370000	Set & Level Mixers - Post Ozone Lime Mixing Tank	0%	5	5	30-Mar-27	05-Apr-27	88
CN.4380000	Install Baffles - Post Ozone Lime Mixing Tank	0%	5	5	06-Apr-27	12-Apr-27	243
CN.4390000	Install Injection Points & Process Piping - Post Ozone Lime Mixing Tank	0%	10	10	13-Apr-27	26-Apr-27	243
CN.4400000	Install 48" Filter Influent Wall Pipe Connection to Post Ozone Lime Mixing Tank	0%	5	5	11-May-27	17-May-27	227
CN.4410000	Tie-In 48" FI-DI Yard Pipe@t Post Ozone Lime Mixing Tank	0%	1	1	18-May-27	18-May-27	227
Metals			45	45	30-Mar-27	01-Jun-27	218
CN.FL0-190010	Install Stainless Access Plates - Ozone Contact Tank, T/Conc	0%	6	6	30-Mar-27	06-Apr-27	257
CN.FL0-170010	Install Structural Steel & Canopy - Ozone Destruct Units 7&8	0%	15	15	11-May-27	01-Jun-27	87
Electrical			49	49	06-Apr-27	14-Jun-27	88
Side Stream Injection Pump 9&10			29	29	06-Apr-27	14-May-27	108
CN.4250000	Electrical Rough-in - Sidestream Injection Pumps & Instrumentation	0%	10	10	06-Apr-27	19-Apr-27	118
CN.4260000	Electrical Wire & Cable - Sidestream Injection Pumps & Instrumentation	0%	5	5	20-Apr-27	26-Apr-27	118
CN.4270000	Electrical Termiantions - Sidestream Injection Pumps & Instrumentation	0%	4	4	11-May-27	14-May-27	108
Ozone Contact Tank			19	19	18-May-27	14-Jun-27	88
CN.4280000	Electrical Rough-in - Ozone Destruct Units 7&8	0%	10	10	18-May-27	01-Jun-27	88
CN.4290000	Electrical Wire & Cable - Ozone Destruct Units 7&8	0%	5	5	02-Jun-27	08-Jun-27	88
CN.4300000	Electrical Termiantions - Ozone Destruct Units 7&8	0%	4	4	09-Jun-27	14-Jun-27	88
Post-Ozone Lime Mixing Tank			19	19	06-Apr-27	30-Apr-27	88
CN.4310000	Electrical Rough-in - Post-Ozone Lime Mixing Tank	0%	10	10	06-Apr-27	19-Apr-27	88
CN.4320000	Electrical Wire & Cable - Post-Ozone Lime Mixing Tank	0%	5	5	20-Apr-27	26-Apr-27	88
CN.4330000	Electrical Termiantions - Post-Ozone Lime Mixing Tank	0%	4	4	27-Apr-27	30-Apr-27	88
Instrumentation & SCADA			40	40	11-May-27	07-Jul-27	82
CN.FL0-180010	Instrumentation - Ozone System	0%	30	30	11-May-27	22-Jun-27	82
CN.FL0-250010	I/O Loop Chech & Calibration	0%	10	10	23-Jun-27	07-Jul-27	82
Field Functional Testing			20	20	27-Sep-27	25-Oct-27	26
CN.FL0-200010	Functional Field Testing - Ozone Contact System	0%	20	20	27-Sep-27	25-Oct-27	26
Final Site Restoration			101	101	02-Jun-27	25-Oct-27	26
CN.FL0-240010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	40	40	02-Jun-27	28-Jul-27	87



P6 ID: 282964.Client2
Data Date:01-Dec-24
Layout: 282964:* PH2 Detail Sched (TF)

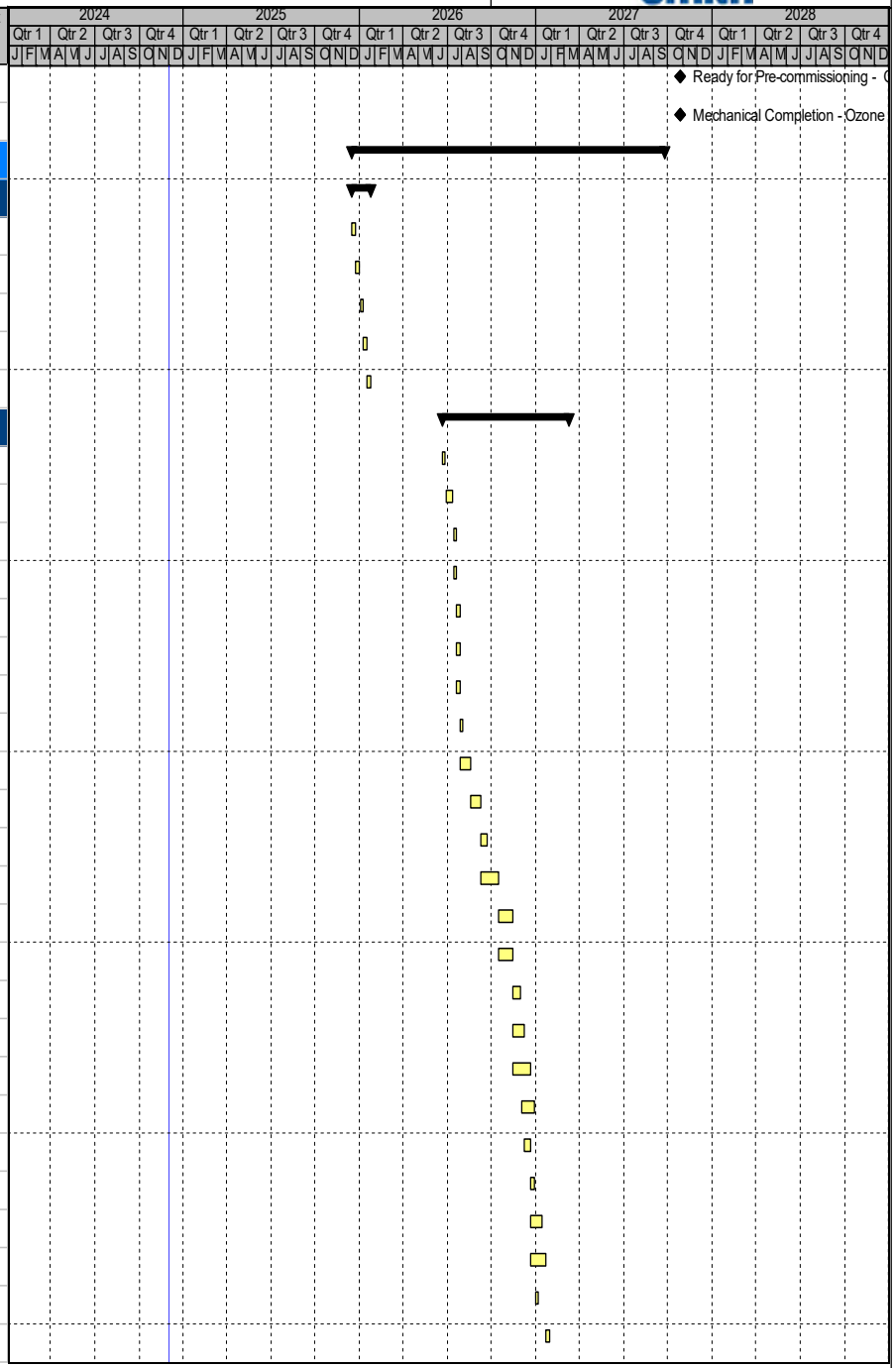
Actual
Remaining
LOE
Critical Work
Summary
Milestone

PROGRESS SCHEDULE

Phase 2 - Detail Schedule by WBS (All Activities)

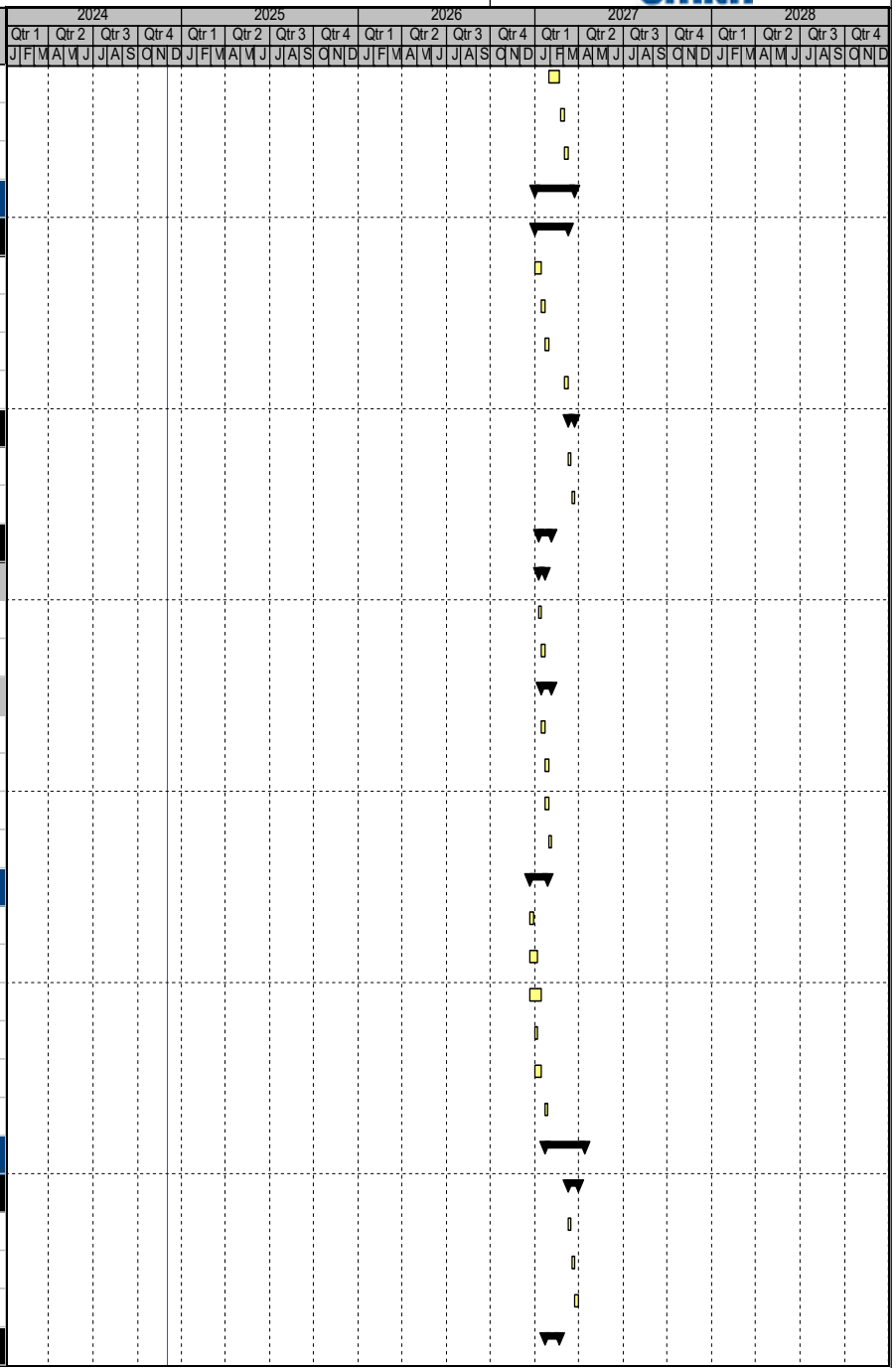
Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-210010	Ready for Pre-commissioning - Ozone Contact System	0%	0	0		25-Oct-27	26
CN.FL0-230010	Mechanical Completion - Ozone	0%	0	0		25-Oct-27	26
Actiflo - High Rate Floc/Sed			445	445	16-Dec-25	24-Sep-27	137
Sitework			25	25	16-Dec-25	23-Jan-26	557
CN.3420000	Survey & Layout - Train 5 Area	0%	5	5	16-Dec-25	22-Dec-25	93
CN.3440000	Install Dewatering - Train 5 - Settling Tank / Maturation & Injection Tank	0%	5	5	23-Dec-25	31-Dec-25	93
CN.3450000	Rough-Grade - Settling Tank & Maturization / Injection Tank5, T/Conc EL 31.76	0%	5	5	02-Jan-26	08-Jan-26	93
CN.3460000	Rough-Grade - Ozone Tank, T/Conc EL 31.10	0%	5	5	09-Jan-26	15-Jan-26	93
CN.3470000	Rough-Grade - Ozone Generator Building	0%	5	5	16-Jan-26	23-Jan-26	557
Concrete / Structural			177	177	22-Jun-26	09-Mar-27	277
CN.3490000	Structural Excavation - Settling Tank Center Foundation & Maturization / Iniection Tanks	0%	5	5	22-Jun-26	26-Jun-26	35
CN.3500000	F/R/P Concrete - Settling Tank Center Foundation	0%	10	10	29-Jun-26	13-Jul-26	35
CN.3510000	Installl Underslab 10" SR-SS / Backfill & Concrete Encasement at Settling Tank	0%	5	5	14-Jul-26	20-Jul-26	35
CN.3540000	Install Underslab 6" Drainage PVC, Maturization & Injection Tank 5	0%	5	5	14-Jul-26	20-Jul-26	50
CN.3520000	Backfill Settling Tank & Prep SoG (Sloped Concrete)	0%	5	5	21-Jul-26	27-Jul-26	35
CN.3550000	Backfill Maturization / Injection Tanks & Prep SOG	0%	5	5	21-Jul-26	27-Jul-26	50
CN.3570000	Install Underslab 6" Drainage PVC, Pre-Ozone	0%	5	5	21-Jul-26	27-Jul-26	414
CN.3580000	Backfill Pre-Ozone & Prep SoG	0%	5	5	28-Jul-26	03-Aug-26	414
CN.3530000	F/R/P Concrete SoG, Settling Tank	0%	15	15	28-Jul-26	17-Aug-26	35
CN.3560000	F/R/P Concrete SoG, Maturization & Injection Tank 5, T/Conc EL 31.76	0%	15	15	18-Aug-26	08-Sep-26	35
CN.3590000	F/R/P Concrete SoG, Pre-Ozone, T/Conc EL 37.12	0%	10	10	09-Sep-26	22-Sep-26	389
CN.3600000	F/R/P Concrete Ext Walls, Settling Tank	0%	25	25	09-Sep-26	14-Oct-26	35
CN.3610000	F/R/P Concrete Ext Walls, Maturization / Injection Tanks	0%	20	20	15-Oct-26	12-Nov-26	35
CN.3630000	F/R/P Concrete Interior Walls, Settling Tanks	0%	20	20	15-Oct-26	12-Nov-26	126
CN.3640000	F/R/P Concrete Interior Wall, Coag / Injection	0%	10	10	13-Nov-26	30-Nov-26	126
CN.3620000	F/R/P Concrete Ext Walls, Pre-Ozone	0%	15	15	13-Nov-26	07-Dec-26	111
CN.3660000	F/R/P Concrete Elevated Deck & Cure - Settling Tank, EL 60.76	0%	25	25	13-Nov-26	21-Dec-26	126
CN.3670000	F/R/P Concrete Elevated Deck & Cure - Coag / Injection, EL 60.18	0%	20	20	01-Dec-26	29-Dec-26	126
CN.3650000	F/R/P Concrete Interior Walls, Pre-Ozone	0%	10	10	08-Dec-26	21-Dec-26	111
CN.3700000	Concrete Finishing, Settling Tank	0%	5	5	22-Dec-26	29-Dec-26	126
CN.3690000	F/R/P Concrete Elevated Deck & Cure - Pre-Ozone, EL 47.10	0%	15	15	22-Dec-26	13-Jan-27	116
CN.3680000	F/R/P Concrete Elevated Deck & Cure - Pre-Ozone, EL 59.76	0%	20	20	22-Dec-26	21-Jan-27	111
CN.3710000	Concrete Finishing, Maturization / Injection Tanks	0%	5	5	30-Dec-26	06-Jan-27	126
CN.3720000	Concrete Finishing, Pre-Ozone	0%	5	5	22-Jan-27	28-Jan-27	111

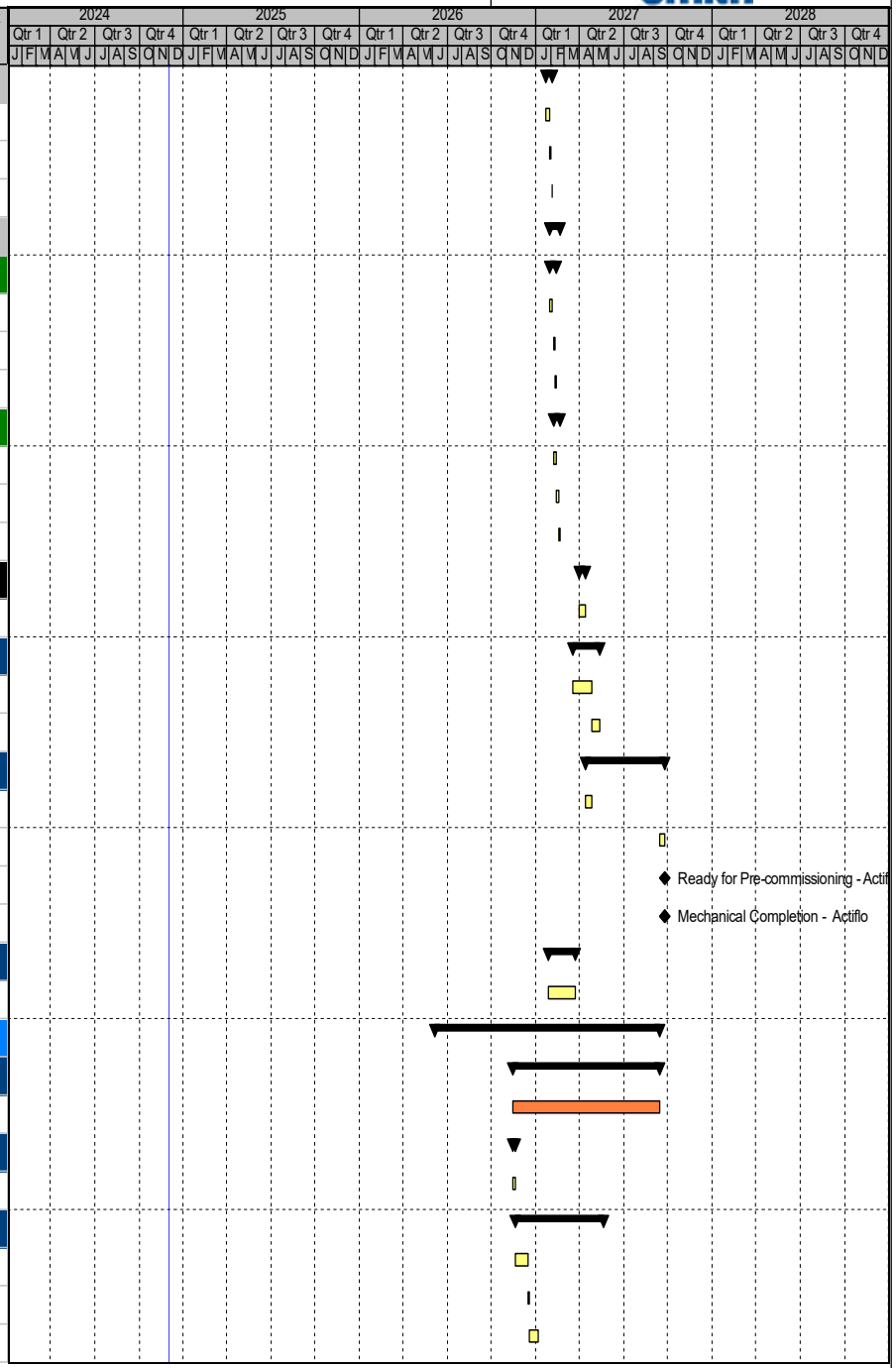


Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.3730000	Leak Testing (Prep, Fill, Test, Drain)	0%	15	15	29-Jan-27	19-Feb-27	111
CN.3840000	Grout Settling Tank & Cure	0%	7	7	22-Feb-27	02-Mar-27	111
CN.3850000	Grout Pre-Ozone Tank & Cure	0%	5	5	03-Mar-27	09-Mar-27	121
Mechanical Process			57	57	30-Dec-26	23-Mar-27	121
Settling Tank 5			47	47	30-Dec-26	09-Mar-27	111
CN.3820000	Install Collection Trough	0%	10	10	30-Dec-26	13-Jan-27	126
CN.3830000	Install Lamella Tubes	0%	5	5	14-Jan-27	21-Jan-27	126
CN.3810000	Set & Level Scrapper Drive Unit	0%	5	5	22-Jan-27	28-Jan-27	126
CN.3800000	Set & Level Scrapper Mechanism	0%	5	5	03-Mar-27	09-Mar-27	111
Pre-Ozone Mixing Tanks 13 & 14			10	10	10-Mar-27	23-Mar-27	121
CN.3890000	Install Baffles - Pre-Ozone	0%	5	5	10-Mar-27	16-Mar-27	121
CN.3900000	Install Mixers - Pre-Ozone Lime Mixing Tank 13&14	0%	5	5	17-Mar-27	23-Mar-27	121
Maturaization Tank 5 / Coag & Injection Tank 5			20	20	07-Jan-27	04-Feb-27	148
Maturization Tank 5			10	10	07-Jan-27	21-Jan-27	148
CN.3910000	Install Baffle Walls - Maturization Tank	0%	5	5	07-Jan-27	13-Jan-27	148
CN.3920000	Install Mixer - Maturization Tank	0%	5	5	14-Jan-27	21-Jan-27	148
Coagulation & Injection Tank 5			15	15	14-Jan-27	04-Feb-27	148
CN.3930000	Install Baffle Walls - Coagulation Tank 5	0%	5	5	14-Jan-27	21-Jan-27	148
CN.3940000	Install Mixer - Coaugulation Tank 5	0%	5	5	22-Jan-27	28-Jan-27	148
CN.3950000	Install Baffle Walls - Injection Tank 5	0%	5	5	22-Jan-27	28-Jan-27	148
CN.3960000	Install Mixer - Injection Tank 5	0%	5	5	29-Jan-27	04-Feb-27	148
Metals			23	23	22-Dec-26	26-Jan-27	306
CN.3750000	Install Metal Guardrails, Settling Tank, EL 60.76	0%	5	5	22-Dec-26	29-Dec-26	163
CN.3740000	Structural Steel, Settling Tank, Elevated Decking, EL 60.76	0%	10	10	22-Dec-26	06-Jan-27	136
CN.3790000	Install Side Mounted Guard Rails, Ozone / Flock Sed Area	0%	15	15	22-Dec-26	13-Jan-27	163
CN.3760000	Install Alum Grating, Coag / Injection Tanks, EL 59.76	0%	5	5	30-Dec-26	06-Jan-27	319
CN.3780000	Structural Steel Columns, Rigid Frame, Metal Roof Decking, Settling Tank	0%	10	10	30-Dec-26	13-Jan-27	163
CN.3770000	Install Alum Grating, Pre-Ozone, EL ~59.76	0%	3	3	22-Jan-27	26-Jan-27	155
Electrical			57	57	22-Jan-27	13-Apr-27	121
Settling Tank 5			15	15	10-Mar-27	30-Mar-27	121
CN.3860000	Elec Rough-in - Scrapper Drive Unit	0%	5	5	10-Mar-27	16-Mar-27	111
CN.3870000	Pull Wire & Cable - Scrapper Drive Unit	0%	5	5	17-Mar-27	23-Mar-27	121
CN.3880000	Elec Terminations - Scrapper Drive Unit	0%	5	5	24-Mar-27	30-Mar-27	121
Maturaization Tank 5 / Coag & Injection Tank 5			20	20	22-Jan-27	19-Feb-27	148

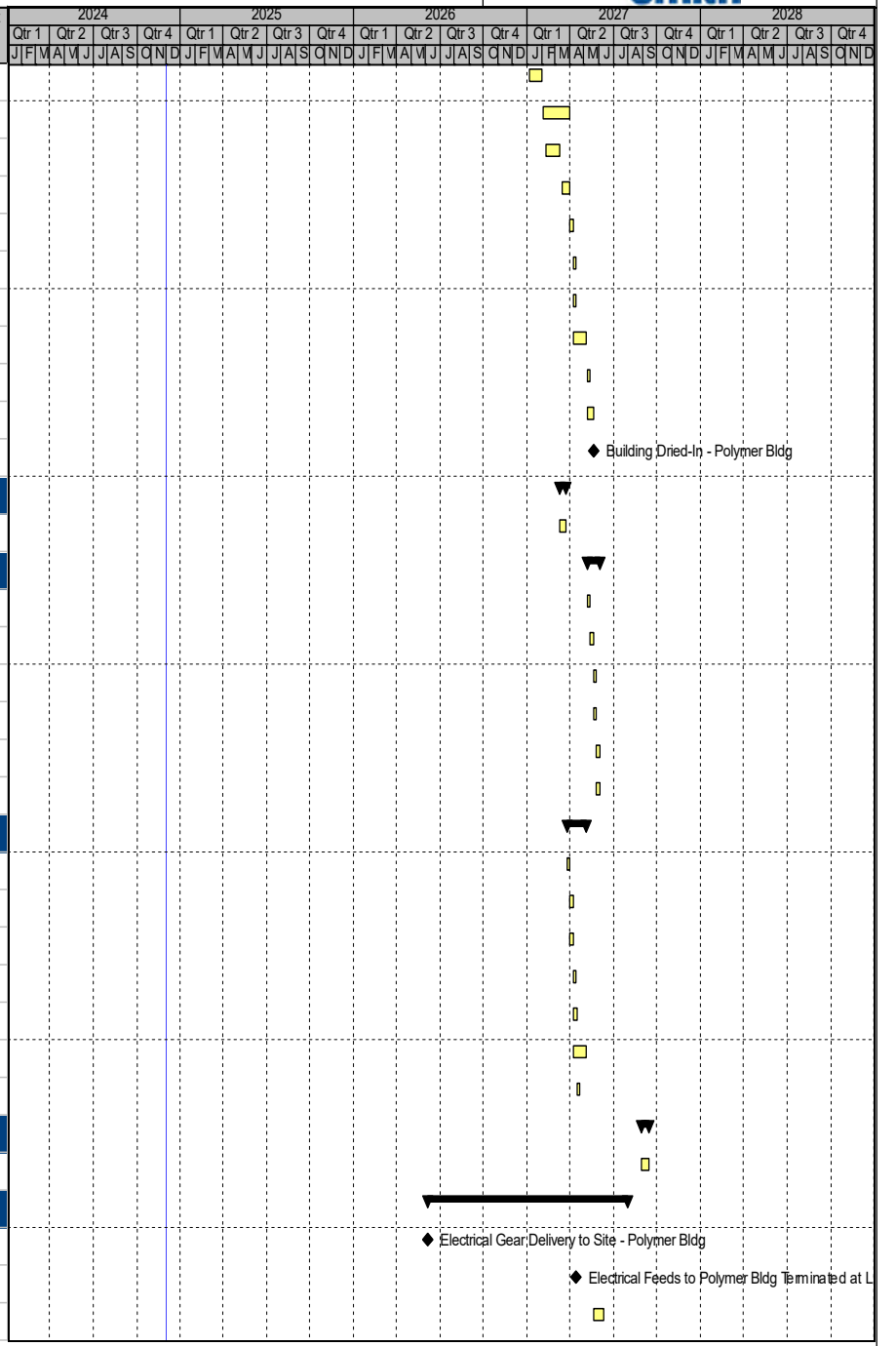


Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Maturization Tank 5			10	10	22-Jan-27	04-Feb-27	158
CN.3970000	Elec Rough-in - Mixer - Maturization Tank 5	0%	5	5	22-Jan-27	28-Jan-27	158
CN.3980000	Pull Wire & Cable - Mixer - Maturization Tank 5	0%	3	3	29-Jan-27	02-Feb-27	158
CN.3990000	Elec Terminations - Mixer - Maturization Tank 5	0%	2	2	03-Feb-27	04-Feb-27	158
Coagulation & Injection Tank 5			15	15	29-Jan-27	19-Feb-27	148
Coagulation Tank 5			10	10	29-Jan-27	11-Feb-27	153
CN.4010000	Elec Rough-in - Mixer Coagulation Tank 5	0%	5	5	29-Jan-27	04-Feb-27	153
CN.4020000	Pull Wire & Cable - Mixer Coagulation Tank 5	0%	3	3	05-Feb-27	09-Feb-27	153
CN.4030000	Elec Terminations - Mixer Coagulation Tank 5	0%	2	2	10-Feb-27	11-Feb-27	153
Injection Tank 5			10	10	05-Feb-27	19-Feb-27	148
CN.4040000	Elec Rough-in - Mixer Injection Tank 5	0%	5	5	05-Feb-27	11-Feb-27	148
CN.4050000	Pull Wire & Cable - Mixer Injection Tank 5	0%	3	3	12-Feb-27	17-Feb-27	148
CN.4060000	Elec Terminations - Mixer Injection Tank 5	0%	2	2	18-Feb-27	19-Feb-27	148
Electrical Check-out			10	10	31-Mar-27	13-Apr-27	121
CN.4100000	Electrical Calibration & Checkout - Actiflo Sys	0%	10	10	31-Mar-27	13-Apr-27	121
Instrumentation & SCADA			40	40	17-Mar-27	11-May-27	111
CN.FL0-460010	Install Instrumentation - Actiflo	0%	30	30	17-Mar-27	27-Apr-27	111
CN.FL0-470010	I&C Loop Check	0%	10	10	28-Apr-27	11-May-27	111
Field Functional Testing			115	115	14-Apr-27	24-Sep-27	26
CN.FL0-500010	Contractor Completion List	0%	10	10	14-Apr-27	27-Apr-27	131
CN.FL0-480010	Functional Field Testing / Manuf Certifications - Actiflo System	0%	10	10	13-Sep-27	24-Sep-27	26
CN.FL0-490010	Ready for Pre-commissioning - Actiflo System	0%	0	0		24-Sep-27	26
CN.FL0-510010	Mechanical Completion - Actiflo	0%	0	0		24-Sep-27	26
Final Site Restoration			40	40	27-Jan-27	24-Mar-27	155
CN.FL0-520010	Final Grading, Sitework, Flatwork Restoration - Actiflo	0%	40	40	27-Jan-27	24-Mar-27	155
North Polymer Stroage Building			320	320	04-Jun-26	13-Sep-27	146
Summary			192	208	13-Nov-26	13-Sep-27	35
CN.4480000	North Polymer Storage Building (SUMMARY)	0%	192	208	13-Nov-26	13-Sep-27	35
Sitework			5	5	13-Nov-26	19-Nov-26	35
CN.FL0-1110010	Structural Excavation for Foundation - Polymer Bldg	0%	5	5	13-Nov-26	19-Nov-26	35
Concrete / Structural			123	123	20-Nov-26	19-May-27	226
CN.FL0.470110	F/R/P Concrete Foundation Footing & Cure, EL 33.30 - Polymer Bldg	0%	15	15	20-Nov-26	14-Dec-26	35
CN.FL0.490110	Backfill Footings for SoG & Underslab Rough-in - Polymer Bldg	0%	3	3	15-Dec-26	17-Dec-26	35
CN.FL0.460110	Under Slab Rough-in (Elec, Potable, Sanitary) - Polymer Bldg	0%	10	10	18-Dec-26	04-Jan-27	35

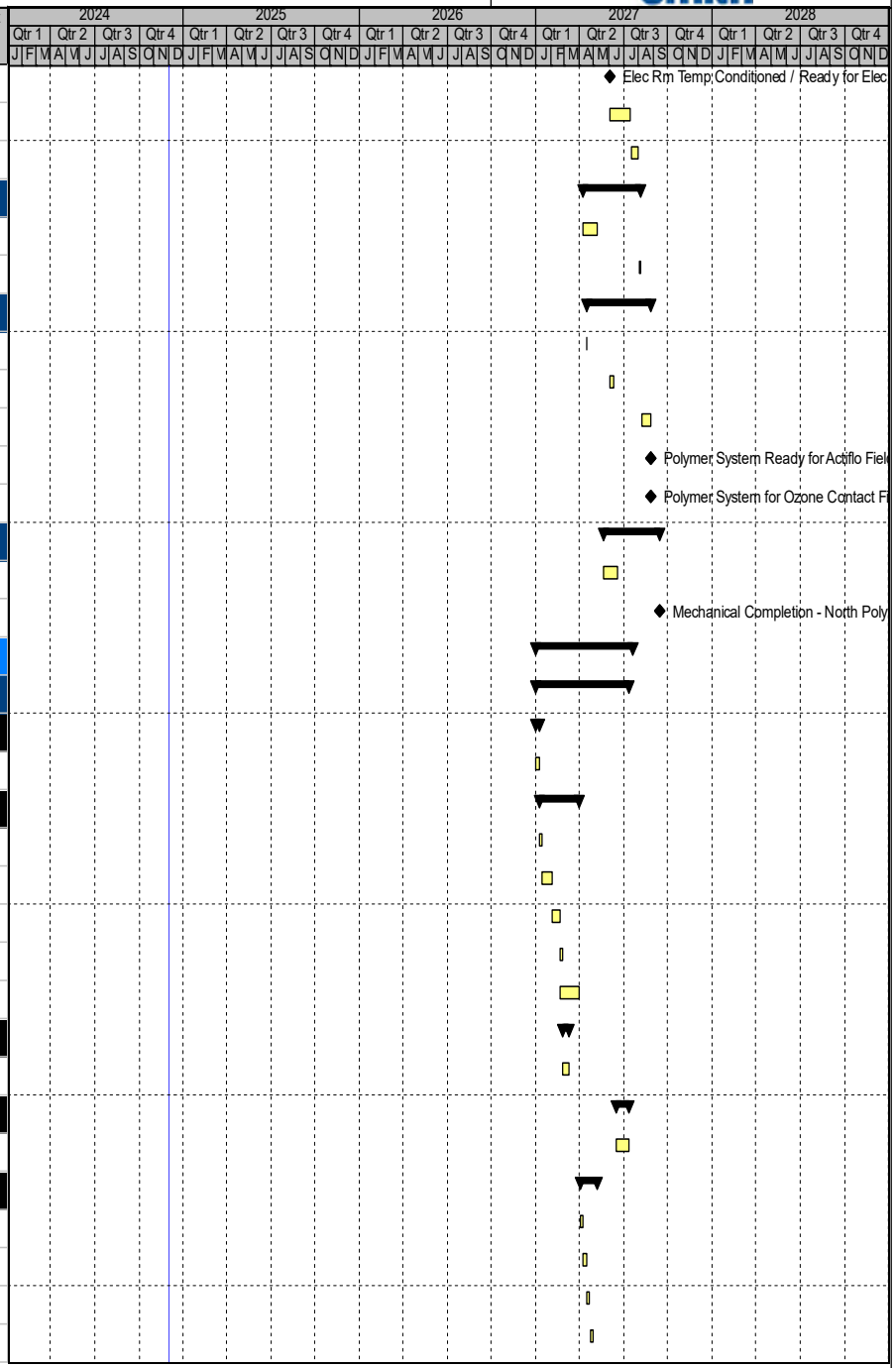


Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.480110	F/R/P Concrete Slab-on-Grade & Cure, EL 35.80 - Polymer Bldg	0%	20	20	05-Jan-27	02-Feb-27	35
CN.FL0.500110	Exterior CMU Splitface Masonry - Polymer Bldg	0%	40	40	03-Feb-27	31-Mar-27	35
CN.FL0.510110	F/R/P Concrete Equipment Pads & Cure - Polymer Bldg	0%	20	20	10-Feb-27	10-Mar-27	94
CN.FL0.530110	Interior CMU Masonry Wall - Polymer Bldg	0%	12	12	16-Mar-27	31-Mar-27	35
CN.FL0.520110	Install Bar Joists & Composite Roof Decking - Polymer Bldg	0%	5	5	01-Apr-27	07-Apr-27	35
CN.FL0.640110	Prime Paint Interior Masonry Walls - Polymer Bldg	0%	5	5	08-Apr-27	14-Apr-27	65
CN.FL0.660110	Rough-in Life Saftey System - Polymer Bldg	0%	5	5	08-Apr-27	14-Apr-27	138
CN.FL0.540110	Install Roof Inslulation, Curbing, Membrane - Polymer Bldg	0%	20	20	08-Apr-27	05-May-27	35
CN.FL0.550110	Install Roof Scuppers, Downspouts, Metal Parapet Coping - Polymer Bldg	0%	5	5	06-May-27	12-May-27	231
CN.FL0.560110	Install Exterior Doors, Windows, Overhead Doors & Louvers - Polymer Bldg	0%	10	10	06-May-27	19-May-27	35
CN.FL0.570110	Building Dried-In - Polymer Bldg	0%	0	0		19-May-27	35
Metals			10	10	11-Mar-27	24-Mar-27	94
CN.FL0-1130010	Install Tank Structureal Steel Stairs, Platform & Handrails - Polymer Bldg	0%	10	10	11-Mar-27	24-Mar-27	94
HVAC			20	20	06-May-27	03-Jun-27	100
CN.FL0.580110	HVAC Roof RTU - Polymer Bldg	0%	5	5	06-May-27	12-May-27	40
CN.FL0.590110	HVAC Roof Exaust Fans - Polymer Bldg	0%	5	5	13-May-27	19-May-27	40
CN.FL0.600110	HVAC Install Exterior Condensor Units, Elec Rm - Polymer Bldg	0%	5	5	20-May-27	26-May-27	35
CN.FL0.610110	HVAC Ductwork - Polymer Bldg	0%	5	5	20-May-27	26-May-27	40
CN.FL0.700110	HVAC Temp Condition Elec Room - Polymer Bldg	0%	5	5	27-May-27	03-Jun-27	35
CN.FL0.620110	HVAC Ductwork, Elec Rm - Polymer Bldg	0%	5	5	27-May-27	03-Jun-27	100
Mechanical / Plumbing			29	29	25-Mar-27	04-May-27	101
CN.FL0-1260010	Set & Level Tanks 5&6	0%	5	5	25-Mar-27	31-Mar-27	94
CN.FL0-1270010	Set & Install Filter, Polymer & Transfer Pumps (6)	0%	6	6	01-Apr-27	08-Apr-27	94
CN.FL0-1290010	Process Piping, Tanks 5&6	0%	6	6	01-Apr-27	08-Apr-27	119
CN.FL0.670110	Rough-in Plumbing Roof Drains	0%	5	5	08-Apr-27	14-Apr-27	100
CN.FL0-1280010	St & Level Air Compressor Sys	0%	5	5	09-Apr-27	15-Apr-27	111
CN.FL0-1300010	Process Piping, Filter Polymenr Pumps (6)	0%	18	18	09-Apr-27	04-May-27	94
CN.FL0-1310010	Air Compressor Piping	0%	3	3	16-Apr-27	20-Apr-27	111
Coatings			10	10	30-Aug-27	13-Sep-27	35
CN.FL0-1170010	Coatings - Ozone Generator	0%	10	10	30-Aug-27	13-Sep-27	35
Electrical			290	290	04-Jun-26	30-Jul-27	65
CN.FL0-1210010	Electrical Gear Delivery to Site - Polymer Bldg	0%	0	0		04-Jun-26	285
CN.FL0.690110	Electrical Feeds to Polymer Bldg Terminated at LCP - Polymer Sys	0%	0	0		14-Apr-27	100
CN.FL0.650110	Electrical Rough-in, LV Lighting, Outlets, Switches - Polymer Bldg	0%	15	15	20-May-27	10-Jun-27	100



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.630110	Elec Rm Temp Conditioned / Ready for Elec Gear Install - Polymer Bldg	0%	0	0		03-Jun-27	35
CN.FL0.680110	Install Electrical Rm Gear & Electrical Terminations - Polymer Bldg	0%	30	30	04-Jun-27	16-Jul-27	35
CN.FL0-1230010	Electrical Field Testing, Calibration & Checkout - Polymer Bldg	0%	10	10	19-Jul-27	30-Jul-27	35
Instrumentation			84	84	09-Apr-27	06-Aug-27	35
CN.FL0-1140010	Instrumentation - Polymer Sys	0%	20	20	09-Apr-27	06-May-27	94
CN.FL0-1240010	I&C Loop Check - Polymer Sys	0%	5	5	02-Aug-27	06-Aug-27	35
Field Functional Testing			95	95	15-Apr-27	27-Aug-27	45
CN.FL0-1220010	Functional Field Testing - Life Safety System	0%	2	2	15-Apr-27	16-Apr-27	138
CN.FL0-1250010	HVAC Test & Balance	0%	5	5	04-Jun-27	10-Jun-27	100
CN.FL0-1150010	Functional Field Testing - Polymer System	0%	15	15	09-Aug-27	27-Aug-27	35
CN.FL0-1200010	Polymer System Ready for Actiflo Field Testing	0%	0	0		27-Aug-27	35
CN.FL0-1160010	Polymer System for Ozone Contact Field Testing	0%	0	0		27-Aug-27	45
Final Site Restoration			80	80	20-May-27	13-Sep-27	35
CN.FL0-1190010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	20	20	20-May-27	17-Jun-27	95
CN.FL0-1180010	Mechanical Completion - North Polymer Storage Building	0%	0	0		13-Sep-27	35
Liquid Oxygen Building & Chiller Pad			139	139	31-Dec-26	20-Jul-27	184
LOX Tank 5 & Vaporizer 7&8			134	134	31-Dec-26	13-Jul-27	189
Sitework			5	5	31-Dec-26	07-Jan-27	79
CN.FL0-910010	Structural Excavation for Foundation - Liquid Oxygen Blg & Chiller Pad	0%	5	5	31-Dec-26	07-Jan-27	79
Concrete / Structural			58	58	08-Jan-27	01-Apr-27	109
CN.FL0.40110	Under Slab Rough-in - LOX	0%	3	3	08-Jan-27	12-Jan-27	79
CN.FL0.60110	F/R/P Concrete Slab-on-Grade & Cure, EL 38.00 - LOX	0%	15	15	13-Jan-27	03-Feb-27	79
CN.FL0.100110	F/R/P Concrete Walls, EL 40.50	0%	10	10	04-Feb-27	18-Feb-27	99
CN.FL0.110110	F/R/P Stair Foundation Pads	0%	5	5	19-Feb-27	25-Feb-27	134
CN.FL0.90110	F/R/P Concrete Equipment LOX Tank 5 Pads & Cure - LOX	0%	30	30	19-Feb-27	01-Apr-27	99
Metals			10	10	26-Feb-27	11-Mar-27	134
CN.FL0-930010	Install Ships Ladder (2) - LOX	0%	10	10	26-Feb-27	11-Mar-27	134
Coatings			20	20	15-Jun-27	13-Jul-27	189
CN.FL0-970010	Coatings - LOX	0%	20	20	15-Jun-27	13-Jul-27	189
Mechanical / Plumbing			25	25	02-Apr-27	06-May-27	134
CN.FL0.250110	Set & Level LOX Tank 5	0%	5	5	02-Apr-27	08-Apr-27	99
CN.FL0.280110	Set & Level Vaporizer 7&8	0%	5	5	09-Apr-27	15-Apr-27	99
CN.FL0.290110	Install Process Piping b/n LOX & Vaporizer 7&8	0%	5	5	16-Apr-27	22-Apr-27	134
CN.FL0.300110	Install Process Piping at Vaporizer	0%	5	5	23-Apr-27	29-Apr-27	134



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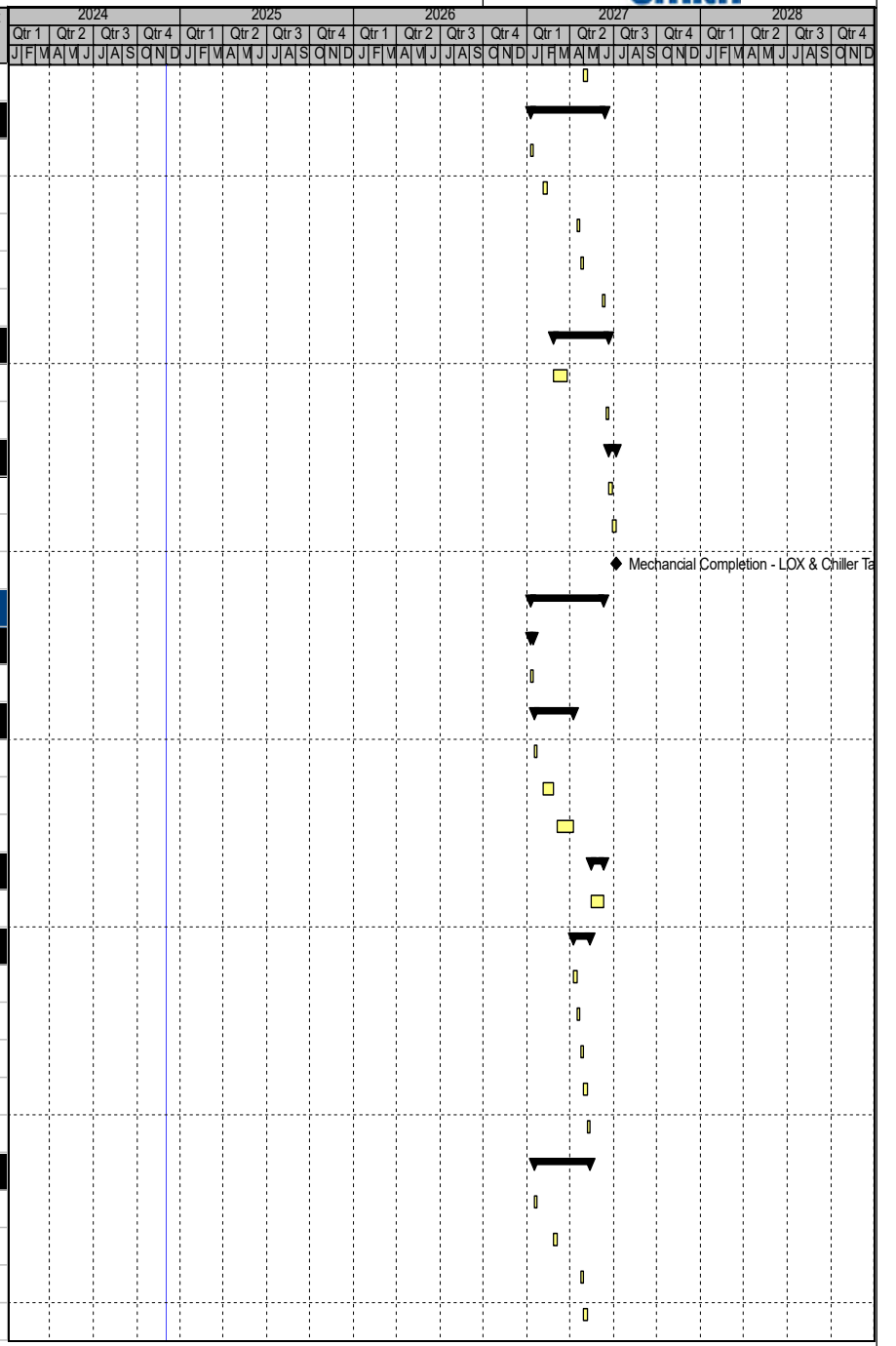
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.310110	Install & Tie-in 4" OX-SS Interconnect Piping	0%	5	5	30-Apr-27	06-May-27	134
Electrical			109	109	08-Jan-27	14-Jun-27	73
CN.FL0.230110	Electrical Rough-in - LOX	0%	5	5	08-Jan-27	14-Jan-27	162
CN.FL0.270110	Electrical Ductbank to Ozone Generator	0%	5	5	04-Feb-27	10-Feb-27	139
CN.FL0.240110	Electrical Pull Wire & Cable - LOX	0%	5	5	16-Apr-27	22-Apr-27	99
CN.FL0.260110	Terminate Electrical - LOX	0%	5	5	23-Apr-27	29-Apr-27	99
CN.FL0-103001	Electrical Field Testing, Calibration & Checkout - LOX	0%	5	5	08-Jun-27	14-Jun-27	73
Instrumentation & SCADA			81	81	26-Feb-27	21-Jun-27	73
CN.FL0-940010	Instrumentation - LOX	0%	20	20	26-Feb-27	25-Mar-27	134
CN.FL0-104001	I&C Loop Check - LOX	0%	5	5	15-Jun-27	21-Jun-27	73
Field Testing / Precommissioning - LOX Sys			10	10	22-Jun-27	06-Jul-27	103
CN.4420000	Field Testing - LOX & Chiller Tank	0%	5	5	22-Jun-27	28-Jun-27	103
CN.4430000	Precommisisoning - LOX & Chiller Tank	0%	5	5	29-Jun-27	06-Jul-27	103
CN.4440000	Mechancial Completion - LOX & Chiller Tank	0%	0	0		06-Jul-27	103
Chilled Water Tank and Chiller 7&8			108	108	08-Jan-27	11-Jun-27	210
Sitework			5	5	08-Jan-27	14-Jan-27	89
CN.FL0-105001	Structural Excavation for Foundation - Chilled Water Tank & Chillers 7&8	0%	5	5	08-Jan-27	14-Jan-27	89
Concrete / Structural			58	58	15-Jan-27	08-Apr-27	79
CN.FL0.320110	Under Slab Rough-in - Chilled Water Tank & Chillers 7&8	0%	3	3	15-Jan-27	20-Jan-27	89
CN.FL0.330110	F/R/P Concrete Slab-on-Grade & Cure - Chilled Water Tank & Chillers 7&8	0%	15	15	04-Feb-27	25-Feb-27	79
CN.FL0.340110	F/R/P Concrete Equipment Pads at Chilled Water Tank & Chillers	0%	25	25	05-Mar-27	08-Apr-27	79
Coatings			20	20	14-May-27	11-Jun-27	210
CN.FL0-108001	Coatings - Chilled Water Tank & Chillers 7&8	0%	20	20	14-May-27	11-Jun-27	210
Mechanical / Plumbing			25	25	09-Apr-27	13-May-27	89
CN.FL0.370110	Set & Level Chilled Water Tank	0%	5	5	09-Apr-27	15-Apr-27	79
CN.FL0.420110	Set & Level Chillers 7&8	0%	5	5	16-Apr-27	22-Apr-27	79
CN.FL0.430110	Install Process Piping b/n Chillers & Chilled Water Tank	0%	5	5	23-Apr-27	29-Apr-27	79
CN.FL0.440110	Install Process Piping at Chilled Water Tank	0%	5	5	30-Apr-27	06-May-27	79
CN.FL0.450110	Install & Tie-in 4" Interconnect Piping at Chilled Water Tank	0%	5	5	07-May-27	13-May-27	89
Electrical			83	83	15-Jan-27	13-May-27	84
CN.FL0.350110	Electrical Rough-in - Chilled Water Tank & Chillers 7&8	0%	5	5	15-Jan-27	22-Jan-27	147
CN.FL0.390110	Electrical Ductbank to Ozone Generator	0%	5	5	26-Feb-27	04-Mar-27	129
CN.FL0.360110	Electrical Pull Wire & Cable - Chilled Water Tank & Chillers 7&8	0%	5	5	23-Apr-27	29-Apr-27	84
CN.FL0.380110	Terminate Electrical - Chilled Water Tank & Chillers 7&8	0%	5	5	30-Apr-27	06-May-27	84



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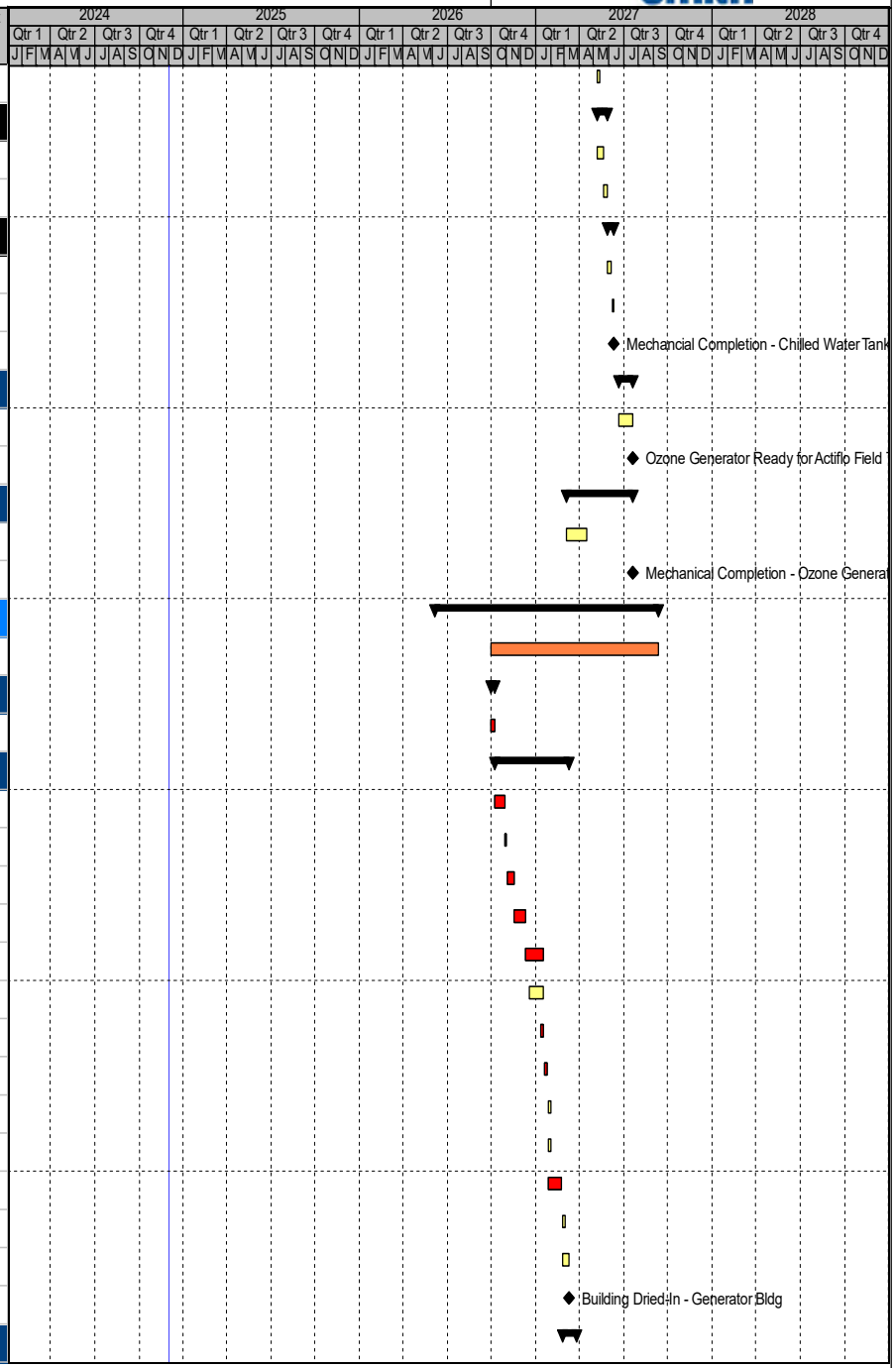
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-109001	Electrical Field Testing, Calibration & Checkout - Chilled Water Tank & Chillers 7&8	0%	5	5	07-May-27	13-May-27	84
Instrumentation & SCADA			15	15	07-May-27	27-May-27	79
CN.FL0-107001	Instrumentation - Chilled Water Tank & Chillers 7&8	0%	10	10	07-May-27	20-May-27	79
CN.FL0-110001	I&C Loop Check - Chilled Water Tank & Chillers 7&8	0%	5	5	21-May-27	27-May-27	79
Field Testing / Precommissioning - CWT & Chiller 7&8			10	10	28-May-27	11-Jun-27	79
CN.4450000	Field Testing - Chilled Water Tank & Chillers 7&8	0%	5	5	28-May-27	04-Jun-27	79
CN.4460000	Precommisisoning - Chilled Water Tank & Chillers 7&8	0%	5	5	07-Jun-27	11-Jun-27	79
CN.4470000	Mechancial Completion - Chilled Water Tank & Chillers 7&8	0%	0	0		11-Jun-27	79
Precommissioning - LOX & Chillers 7&8			20	20	22-Jun-27	20-Jul-27	73
CN.FL0-950010	Functional Field Testing - Ozone Generator System	0%	20	20	22-Jun-27	20-Jul-27	73
CN.FL0-1000010	Ozone Generator Ready for Actiflo Field Testing	0%	0	0		20-Jul-27	73
Final Site Restoration			96	96	05-Mar-27	20-Jul-27	93
CN.FL0-990010	Final Grading, Sitework, Site Electric, Flatwork Restoration - LOX & Chillers 7&8	0%	30	30	05-Mar-27	15-Apr-27	159
CN.FL0-980010	Mechanical Completion - Ozone Generator Sys (LOX & Chillers)	0%	0	0		20-Jul-27	93
Ozone Generator Building			319	319	04-Jun-26	10-Sep-27	147
CN.710000	Construct Ozone Generator (SUMMARY)	0%	235	237	30-Sep-26	10-Sep-27	46
Sitework			5	5	30-Sep-26	06-Oct-26	0
CN.FL0-280010	Structural Excavation for Foundation - Ozone Generator	0%	5	5	30-Sep-26	06-Oct-26	0
Concrete / Structural			102	102	07-Oct-26	09-Mar-27	277
CN.FL0.10000	F/R/P Concrete Foundation Footing & Cure, EL 30.5	0%	15	15	07-Oct-26	28-Oct-26	0
CN.FL0.10020	Backfill Footings for SoG & Underslab Rough-in	0%	2	2	29-Oct-26	30-Oct-26	0
CN.FL0.10120	Under Slab Rough-in (Elec, Potable, Sanitary) Ozone Generator	0%	10	10	02-Nov-26	16-Nov-26	0
CN.FL0.10130	F/R/P Concrete Slab-on-Grade & Cure, EL 34.5	0%	15	15	17-Nov-26	09-Dec-26	0
CN.FL0.10140	Exterior CMU Splitface Masonry	0%	25	25	10-Dec-26	15-Jan-27	0
CN.FL0.10160	F/R/P Concrete Equipment Pads & Cure	0%	20	20	17-Dec-26	15-Jan-27	312
CN.FL0.10150	Interior CMU Masonry Wall	0%	5	5	11-Jan-27	15-Jan-27	0
CN.FL0.10170	Install Bar Joists & Composite Roof Decking	0%	5	5	19-Jan-27	25-Jan-27	0
CN.FL0.10190	Prime Paint Interior Masonry Walls	0%	5	5	26-Jan-27	01-Feb-27	93
CN.FL0.20090	Rough-in Life Saftey System	0%	5	5	26-Jan-27	01-Feb-27	153
CN.FL0.10180	Install Roof Inslulation, Curbing, Membrane	0%	20	20	26-Jan-27	23-Feb-27	0
CN.FL0.10105	Install Roof Scuppers, Downspouts, Metal Parapet Coping	0%	5	5	24-Feb-27	02-Mar-27	282
CN.FL0.10030	Install Exterior Doors, Windows, Overhead Doors & Louvers	0%	10	10	24-Feb-27	09-Mar-27	106
CN.FL0.10040	Building Dried-In - Generator Bldg	0%	0	0		09-Mar-27	106
HVAC			23	23	24-Feb-27	26-Mar-27	103



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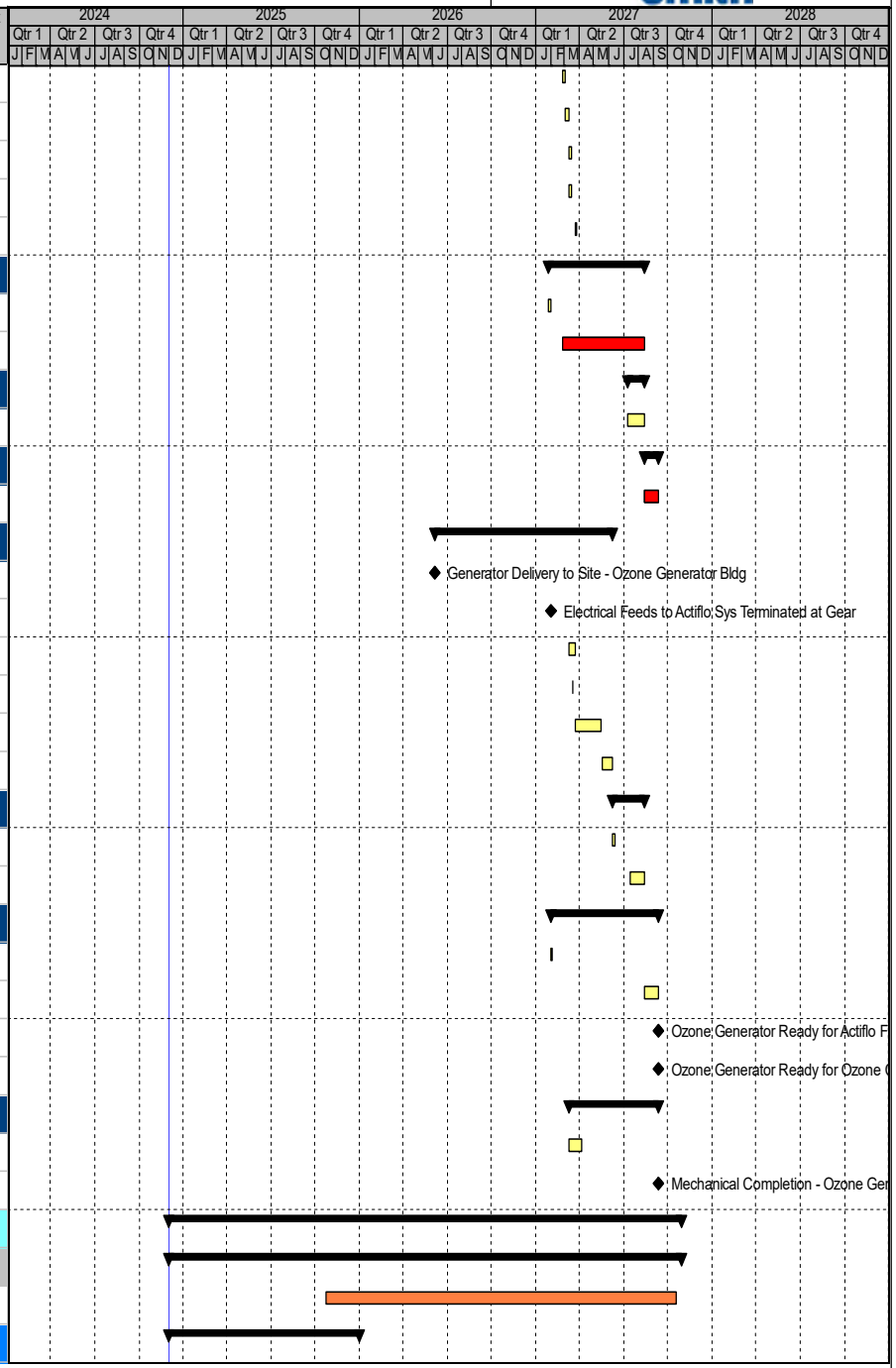
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0.10050	HVAC Roof RTU, Generator Rm	0%	5	5	24-Feb-27	02-Mar-27	68
CN.FL0.10060	HVAC Roof Exaust Fans, Generator Rm	0%	5	5	03-Mar-27	09-Mar-27	68
CN.FL0.10080	HVAC Ductwork, Generator Rm	0%	5	5	10-Mar-27	16-Mar-27	68
CN.FL0.10070	HVAC Install Exterior Condensor Units, Elec Rm	0%	5	5	10-Mar-27	16-Mar-27	106
CN.FL0.10090	HVAC Ductwork, Elec Rm	0%	5	5	22-Mar-27	26-Mar-27	103
Mechanical / Plumbing			140	140	26-Jan-27	12-Aug-27	6
CN.FL0.30090	Rough-in Plumbing Roof Drains	0%	5	5	26-Jan-27	01-Feb-27	141
CN.FL0-300010	Balance of Plant (M-E-P) - Ozone Generator	0%	120	120	24-Feb-27	12-Aug-27	0
Metals			25	25	09-Jul-27	12-Aug-27	20
CN.FL0-310010	Metals	0%	25	25	09-Jul-27	12-Aug-27	20
Coatings			20	20	13-Aug-27	10-Sep-27	0
CN.FL0-360010	Coatings - Ozone Generator	0%	20	20	13-Aug-27	10-Sep-27	0
Electrical			252	252	04-Jun-26	07-Jun-27	214
CN.FL0-400010	Generator Delivery to Site - Ozone Generator Bldg	0%	0	0		04-Jun-26	239
CN.FL0.30110	Electrical Feeds to Actiflo Sys Terminated at Gear	0%	0	0		01-Feb-27	141
CN.FL0.10110	Electrical Rough-in, LV Lighting, Outlets, Switches	0%	10	10	10-Mar-27	23-Mar-27	267
CN.FL0.10100	Elec Rm Temp Conditioned / Ready for Elec Gear Install	0%	3	3	17-Mar-27	19-Mar-27	68
CN.FL0.20110	Install Electrical Gear - Ozone Generator	0%	40	40	22-Mar-27	14-May-27	68
CN.FL0-410010	Electrical Load Test, Calibration & Checkout - Ozone Generator	0%	15	15	17-May-27	07-Jun-27	68
Instrumentation & SCADA			47	47	08-Jun-27	12-Aug-27	26
CN.FL0-420010	I&C Loop Check - Ozone Generator	0%	5	5	08-Jun-27	14-Jun-27	68
CN.FL0-320010	Instrumentation - Ozone Generator	0%	20	20	16-Jul-27	12-Aug-27	26
Field Functional Testing			155	155	02-Feb-27	10-Sep-27	36
CN.FL0-390010	Functional Field Testing - Life Safety System	0%	2	2	02-Feb-27	03-Feb-27	153
CN.FL0-340010	Functional Field Testing - Ozone Generator	0%	20	20	13-Aug-27	10-Sep-27	26
CN.FL0-540010	Ozone Generator Ready for Actiflo Field Testing	0%	0	0		10-Sep-27	26
CN.FL0-350010	Ozone Generator Ready for Ozone Contact Field Testing	0%	0	0		10-Sep-27	36
Final Site Restoration			130	130	10-Mar-27	10-Sep-27	0
CN.FL0-380010	Final Grading, Sitework, Site Electric, Flatwork Restoration	0%	20	20	10-Mar-27	06-Apr-27	110
CN.FL0-370010	Mechanical Completion - Ozone Generator	0%	0	0		10-Sep-27	0
South Filter Area			729	729	02-Dec-24	29-Oct-27	113
Filters 16-17-18			729	729	02-Dec-24	29-Oct-27	113
CN.730000	Construct Filters (SUMMARY)	0%	363	495	23-Oct-25	18-Oct-27	0
Site Civil			270	270	02-Dec-24	31-Dec-25	572



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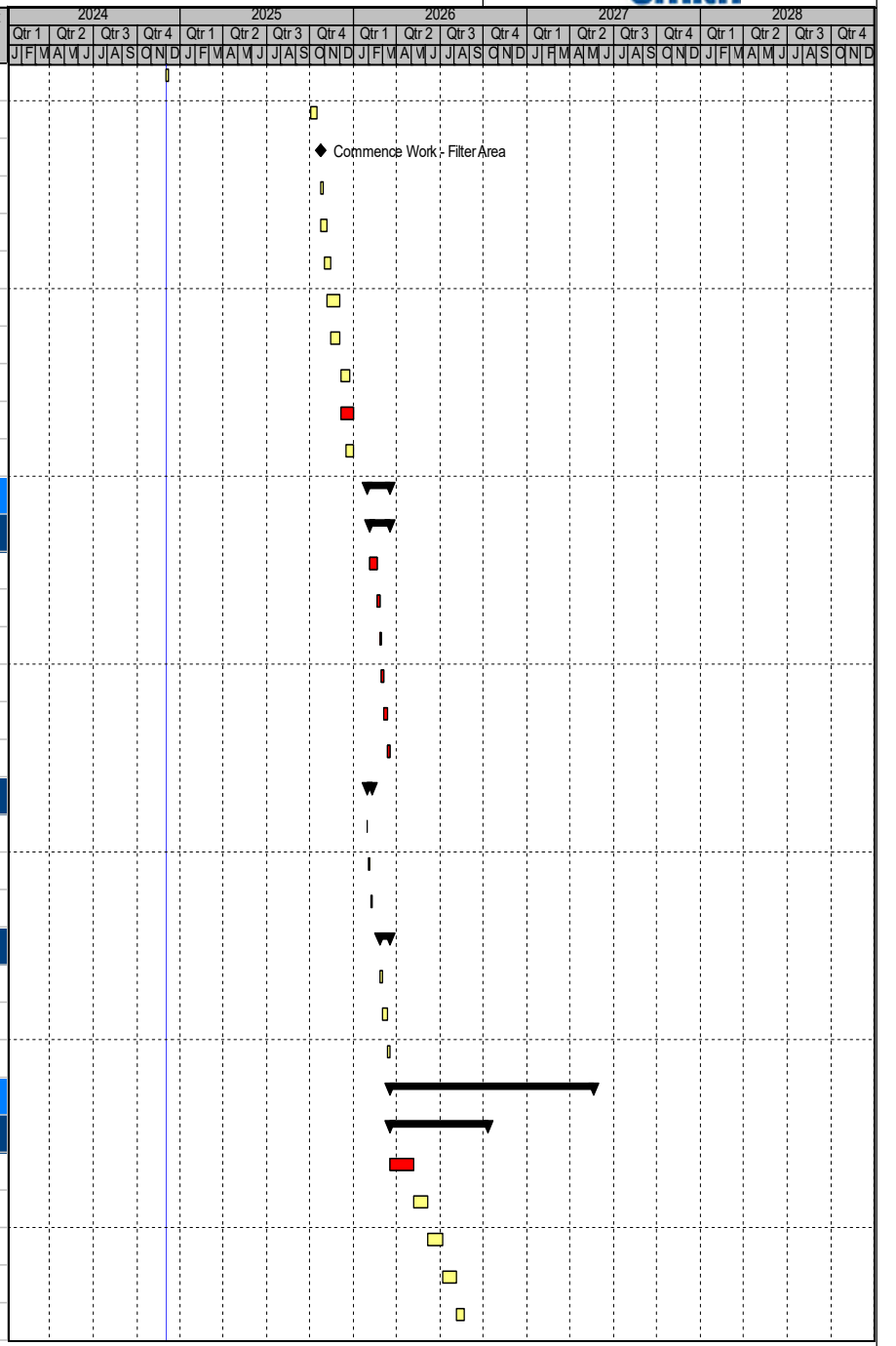
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.2290000	Excavation for Load Transfer Platform - Filter Area	0%	5	5	02-Dec-24	06-Dec-24	296
CN.1900000	Establish Dewatering Ring - Filter Area	0%	10	10	01-Oct-25	15-Oct-25	32
CN.4520000	Commence Work - Filter Area	0%	0	0	23-Oct-25		2
CN.4070000	Utility Locates - Filter Area	0%	5	5	23-Oct-25	29-Oct-25	2
CN.2310000	Clear & Grub, RI Pile EL - Filter Area	0%	10	10	23-Oct-25	05-Nov-25	2
CN.4080000	Utility Relocations / Disconnect Elec Pole(s) - Filter Area	0%	10	10	30-Oct-25	13-Nov-25	2
CN.4550000	Dewatering Instalation for Filter Gallery Excavation / Drawdown	0%	15	15	06-Nov-25	01-Dec-25	2
CN.4090000	Structural Fill & Prep for SOG - FIlter Area	0%	10	10	14-Nov-25	01-Dec-25	2
CN.1920000	Shoring at Pipe Gallery Area	0%	15	15	04-Dec-25	24-Dec-25	3
CN.1910000	Excavation Filter Pipe Gallery Bot EL 21.10	0%	18	18	04-Dec-25	31-Dec-25	0
CN.1910010	Construct Temp Ramp for Gallary Excavation Access	0%	10	10	16-Dec-25	31-Dec-25	572
Underground Piping			35	35	28-Jan-26	18-Mar-26	41
Pipe Gallery			30	30	04-Feb-26	18-Mar-26	0
CN.1930000	Install U/G YP 48"Piping, Tee and 30" Piping to Ground Level	0%	10	10	04-Feb-26	18-Feb-26	0
CN.1960000	Pipe Encasement 48"Pipe	0%	3	3	19-Feb-26	23-Feb-26	0
CN.1940000	Install 16"Piping, Tee, and 16"Pipe to Ground Level	0%	3	3	24-Feb-26	26-Feb-26	0
CN.1950000	Install 6"Piping, Tee, and 6"Pipe to Ground Level	0%	3	3	27-Feb-26	03-Mar-26	0
CN.2780000	Pipe Encasement 6" Piping	0%	6	6	04-Mar-26	11-Mar-26	0
CN.4570000	Final Backfill & Prep for Gallary SoG, EL 31.60	0%	5	5	12-Mar-26	18-Mar-26	0
Filters 16-18			9	9	28-Jan-26	09-Feb-26	26
CN.4830000	Install Underslab FIlter Drain - Filter 16	0%	3	3	28-Jan-26	30-Jan-26	26
CN.4840000	Install Underslab FIlter Drain - Filter 17	0%	3	3	02-Feb-26	04-Feb-26	26
CN.4850000	Install Underslab FIlter Drain - Filter 18	0%	3	3	05-Feb-26	09-Feb-26	26
Waste Backwash Water Channel			17	17	24-Feb-26	18-Mar-26	41
CN.1970000	Excavation Waste Backwash Channel, Bot EL 24.00	0%	5	5	24-Feb-26	02-Mar-26	41
CN.1980000	Install U/G YP 54" Piping and Bend & Backfill	0%	7	7	03-Mar-26	11-Mar-26	41
CN.1990000	Pipe Encasement 54" to Ground Level	0%	5	5	12-Mar-26	18-Mar-26	41
Concrete			295	295	19-Mar-26	20-May-27	6
Pipe Gallery			144	144	19-Mar-26	09-Oct-26	42
CN.2000000	F/R/P Concrete Foundation, Filter Gallery 16 - 18 EL@ 31.6	0%	35	35	19-Mar-26	06-May-26	0
CN.2020000	Extension - F/R/P Concrete Foundation, Filter 16 - 18 EL@ 31.6	0%	20	20	07-May-26	04-Jun-26	42
CN.2040000	F/R/P Columns , Filter 16 - 18 EL@ 50.35	0%	21	21	05-Jun-26	06-Jul-26	42
CN.2050000	F/R/P Tie-Beam , Filter 16 - 18 EL@ 50.35	0%	21	21	07-Jul-26	04-Aug-26	42
CN.2130000	F/R/P Wall , Filtered Water Control Structure EL@ 31.7	0%	12	12	05-Aug-26	20-Aug-26	42



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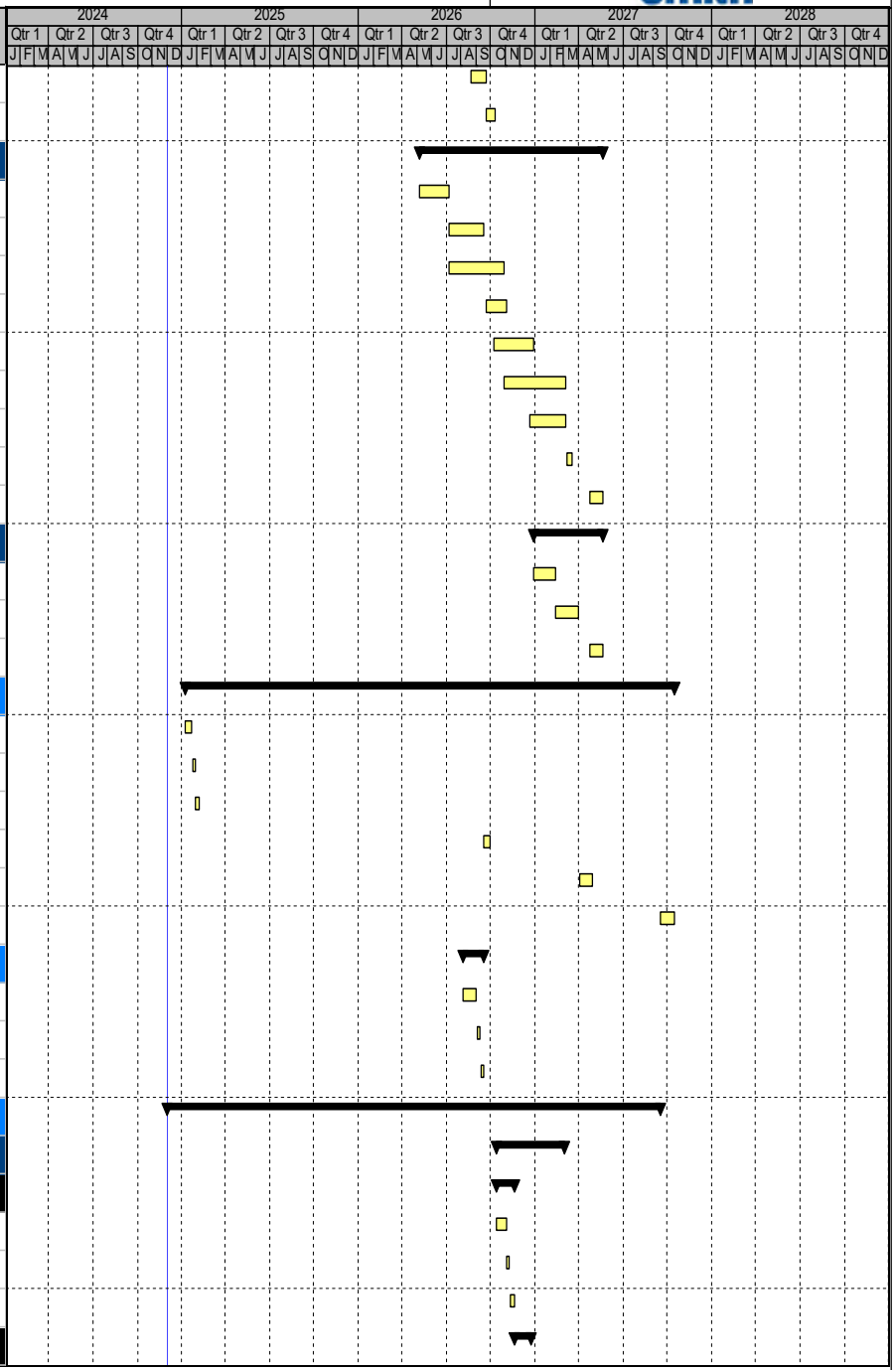
Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.2140000	F/R/P Wall, Filtered Water Control Structure EL@ 31.7	0%	21	21	21-Aug-26	21-Sep-26	42
CN.2150000	F/R/P Slab, Filtered Water Control Structure EL@ 39.68	0%	14	14	22-Sep-26	09-Oct-26	42
Filter			260	260	07-May-26	20-May-27	6
CN.2030000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 34.10	0%	42	42	07-May-26	07-Jul-26	6
CN.2060000	F/R/P Wall , Filter 16 - 18 EL@ 50.35 - West Side	0%	50	50	08-Jul-26	16-Sep-26	59
CN.2080000	F/R/P Wall , Filter 16 - 18 - Separating Filters (4 no.s 2 interior two exterior)	0%	80	80	08-Jul-26	29-Oct-26	6
CN.2090000	F/R/P Wall , Filter 16 - 18 - 8" - Baffle Wall	0%	30	30	23-Sep-26	04-Nov-26	6
CN.2100000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 39.77	0%	54	54	07-Oct-26	28-Dec-26	6
CN.2110000	F/R/P Wall , Filter 16 - 18 - Elevated Trough Walls @46.82	0%	84	84	30-Oct-26	05-Mar-27	18
CN.2110005	F/R/P Wall , Filter 16 - 18 EL@ 52.1 - East Side	0%	50	50	22-Dec-26	05-Mar-27	18
CN.2120005	Final Concrete Cure & Finishing / Prep for Leakage Testing	0%	10	10	08-Mar-27	19-Mar-27	30
CN.2160000	Concrete Tank Water Tightness Test & Drainage of Water Filer Basins 16-18	0%	20	20	23-Apr-27	20-May-27	6
Backwash Water Channel			100	100	29-Dec-26	20-May-27	6
CN.2120000	F/R/P Concrete Foundation, Filter 16 - 18 EL@ 43.10	0%	30	30	29-Dec-26	10-Feb-27	6
CN.2070000	F/R/P Wall , Backwash Water Channel EL@ 52.10	0%	35	35	11-Feb-27	01-Apr-27	6
CN.2170000	Concrete Tank Water Tightness Test - Backwash Water Channel	0%	20	20	23-Apr-27	20-May-27	6
Structural / Metals			694	694	08-Jan-25	15-Oct-27	16
CN.2540000	Install of Structural Columns @ 63 - 20 nos @ 50.35	0%	10	10	08-Jan-25	22-Jan-25	655
CN.2570000	Install Structrual Steel Columns for North Filter Staircase	0%	5	5	23-Jan-25	29-Jan-25	655
CN.2580000	Install Filter North Staircase & Handrails	0%	5	5	30-Jan-25	05-Feb-25	655
CN.2560000	Install Tie Beam (W12x40) at Pipe Gallery Structure	0%	10	10	17-Sep-26	30-Sep-26	181
CN.2590000	Install Handrails at Walkway at Filter Basins	0%	20	20	02-Apr-27	29-Apr-27	118
CN.2550000	Install Filter Canopy Structural Steel & Roofing	0%	20	20	17-Sep-27	15-Oct-27	16
Masonary			30	30	05-Aug-26	16-Sep-26	181
CN.2600000	Install CMU Split Face Masonary - Gallery Side	0%	20	20	05-Aug-26	01-Sep-26	181
CN.2610000	Install CMU Split Face Masonary - Gallery (South Side)	0%	5	5	02-Sep-26	09-Sep-26	181
CN.2620000	Install CMU Split Face Masonary - North Side	0%	5	5	10-Sep-26	16-Sep-26	181
Mechanical			699	699	02-Dec-24	16-Sep-27	6
Pipe Gallery			95	95	13-Oct-26	03-Mar-27	42
Gallary Piping			27	27	13-Oct-26	19-Nov-26	42
CN.2790000	Install Support Structures for Pipes	0%	15	15	13-Oct-26	02-Nov-26	42
CN.2360000	Install 18"Pipe	0%	5	5	03-Nov-26	09-Nov-26	42
CN.2370000	Install 42"Pipe	0%	7	7	10-Nov-26	19-Nov-26	42
Pipe Gallery - Filter - 16			21	21	20-Nov-26	22-Dec-26	42



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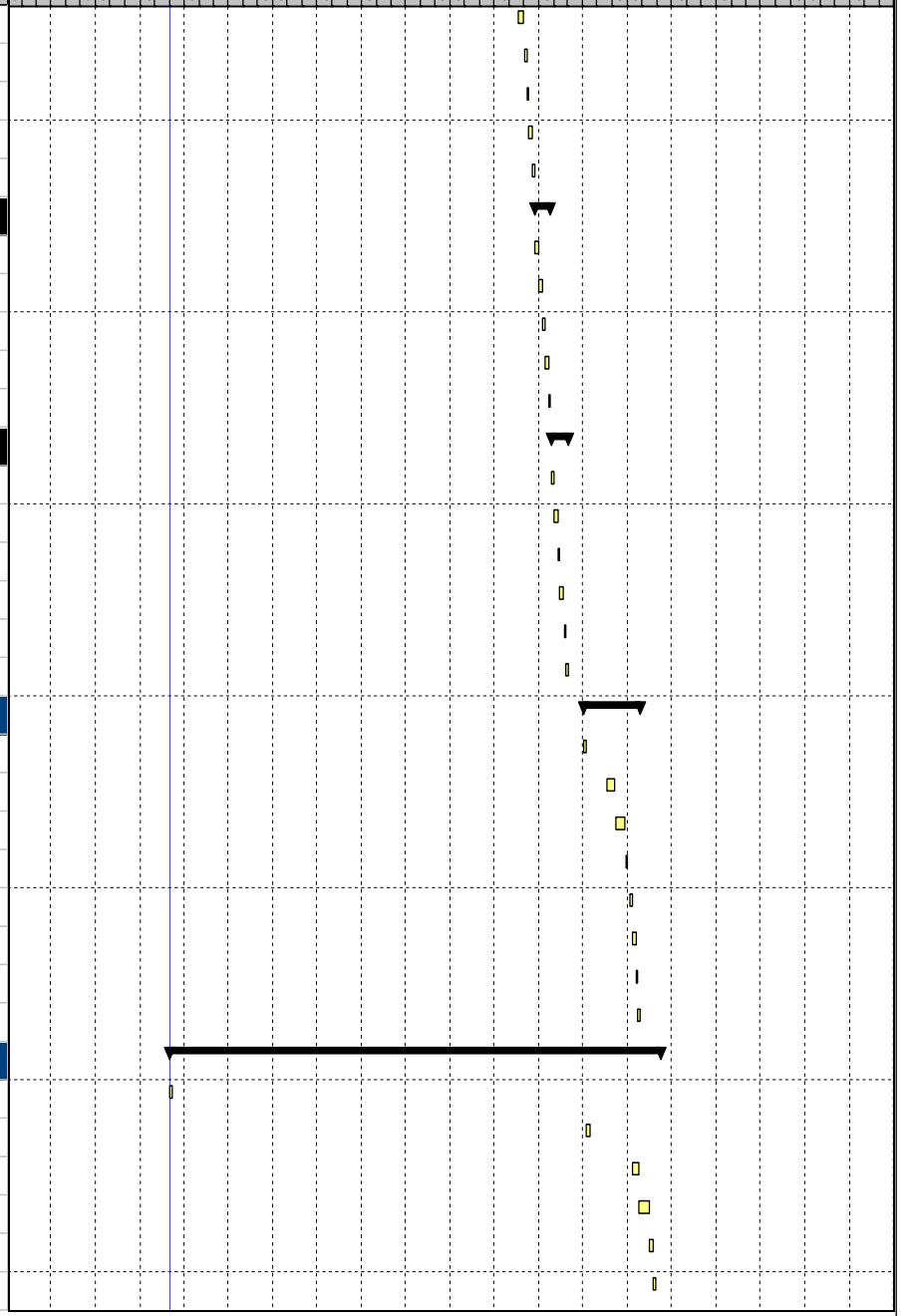
CN.2380000	Connect 48" Piping & Appurtances to Filter 16	0%	5	5	20-Nov-26	30-Nov-26	42
CN.2390000	Connect 30"and 16" Piping	0%	5	5	01-Dec-26	07-Dec-26	42
CN.2400000	Install Tees for 42"Pipe	0%	3	3	08-Dec-26	10-Dec-26	42
CN.2410000	Install 30"Rate of Flow Controller	0%	5	5	11-Dec-26	17-Dec-26	42
CN.2420000	Install BFV	0%	3	3	18-Dec-26	22-Dec-26	42
Pipe Gallery - Filter - 17			21	21	23-Dec-26	25-Jan-27	42
CN.2430000	Connect 48" Piping & Appurtances to Filter 17	0%	5	5	23-Dec-26	30-Dec-26	42
CN.2440000	Connect 30"and 16" Process Piping	0%	5	5	31-Dec-26	07-Jan-27	42
CN.2450000	Install Tees for 42" Process Pipe	0%	3	3	08-Jan-27	12-Jan-27	42
CN.2460000	Install 30"Rate of Flow Controller	0%	5	5	13-Jan-27	20-Jan-27	42
CN.2470000	Install BFV	0%	3	3	21-Jan-27	25-Jan-27	42
Pipe Gallery - Filter - 18			26	26	26-Jan-27	03-Mar-27	42
CN.2480000	Connect 48" Piping & Appurtances to Filter 18	0%	5	5	26-Jan-27	01-Feb-27	42
CN.2490000	Connect 30"and 16" Process Piping	0%	5	5	02-Feb-27	08-Feb-27	42
CN.2500000	Install Tees for 42"Pipe	0%	3	3	09-Feb-27	11-Feb-27	42
CN.2510000	Install 30"Rate of Flow Controller	0%	5	5	12-Feb-27	19-Feb-27	42
CN.2520000	Install BFV	0%	3	3	22-Feb-27	24-Feb-27	42
CN.2760000	Pressure Test Filter Gallary Piping	0%	5	5	25-Feb-27	03-Mar-27	42
Filter - 16			82	82	02-Apr-27	28-Jul-27	41
CN.2530000	Install Slide Gates - Filters 16 @ Backwash Water Channel	0%	5	5	02-Apr-27	08-Apr-27	6
CN.2180000	Install Leopold UnderDrain	0%	10	10	21-May-27	04-Jun-27	6
CN.2190000	Install Filter Waste Water Trough	0%	15	15	07-Jun-27	25-Jun-27	6
CN.2220000	Install 18" Dia Pipe	0%	5	5	28-Jun-27	02-Jul-27	6
CN.2230000	Install 6" Dia Pipe	0%	5	5	06-Jul-27	12-Jul-27	6
CN.2330000	Fill Tank & Leopold Backwash Visual Testing - Filter 16	0%	5	5	13-Jul-27	19-Jul-27	41
CN.2200000	Fill Sand - 6" - Filter 16 (By VNA)	0%	3	3	20-Jul-27	22-Jul-27	41
CN.2210000	Fill GAC - 48" - Filter 16 (By VNA)	0%	4	4	23-Jul-27	28-Jul-27	41
Filter - 17			694	694	02-Dec-24	09-Sep-27	11
CN.4510000	Fill Tank & Leopold Backwash Visual Testing - Filter 17	0%	5	5	02-Dec-24	06-Dec-24	693
CN.4580000	Install Slide Gates - Filters 17 @ Backwash Water Channel	0%	5	5	09-Apr-27	15-Apr-27	6
CN.2800000	Install Leopold UnderDrain	0%	10	10	13-Jul-27	26-Jul-27	6
CN.2810000	Install Filter Waste Water Trough	0%	15	15	27-Jul-27	16-Aug-27	6
CN.2840000	Install 18" Dia Pipe	0%	5	5	17-Aug-27	23-Aug-27	6
CN.2850000	Install 6" Dia Pipe	0%	5	5	24-Aug-27	30-Aug-27	6



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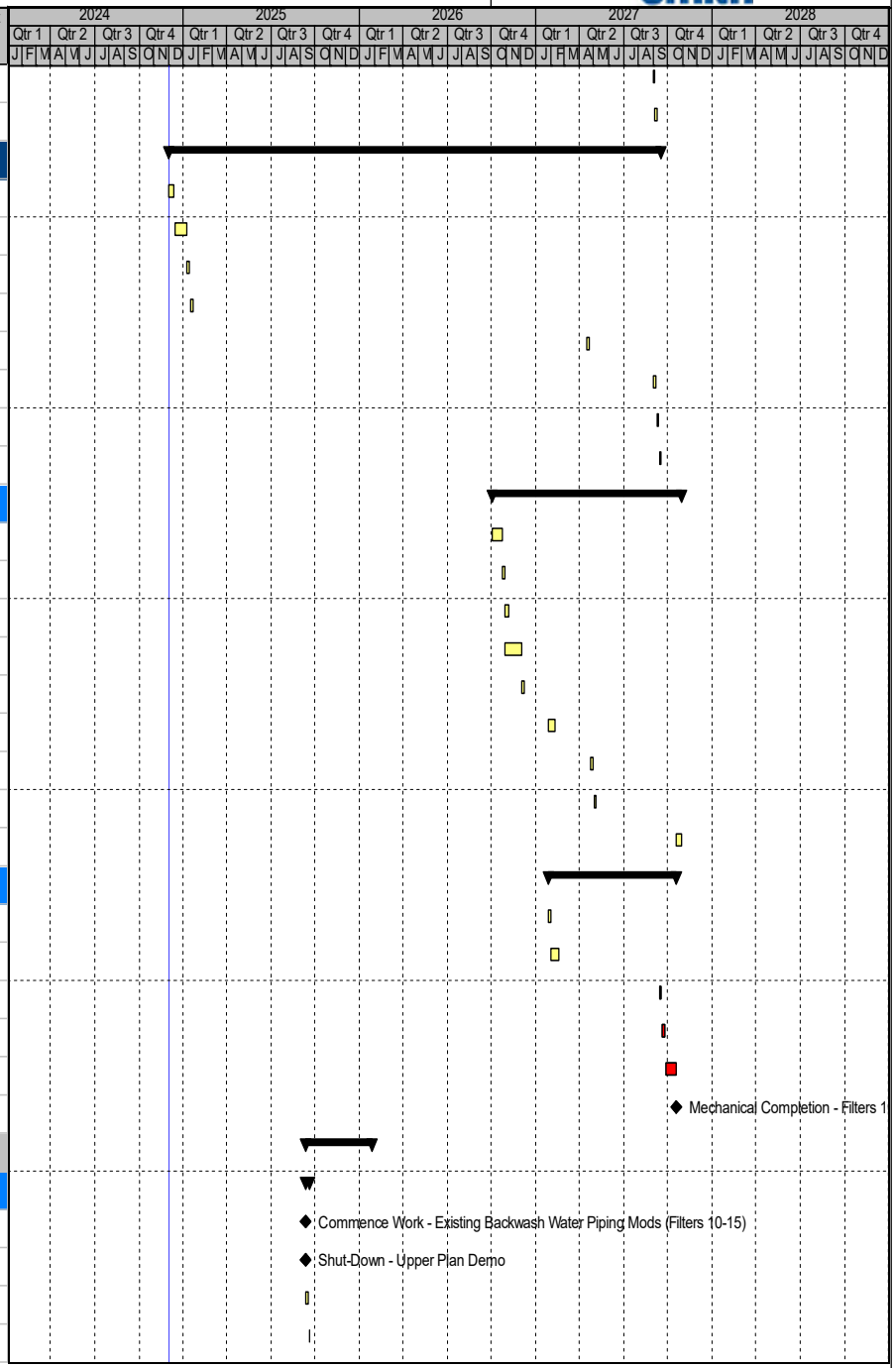
CN.2820000	Fill Sand - 6" - Filter 17	0%	3	3	31-Aug-27	02-Sep-27	11
CN.2830000	Fill GAC - 48" - Filter 17	0%	4	4	03-Sep-27	09-Sep-27	11
Filter - 18			699	699	02-Dec-24	16-Sep-27	6
CN.2860000	Install Leopold UnderDrain	0%	10	10	02-Dec-24	13-Dec-24	655
CN.2870000	Install Filter Waste Water Trough	0%	15	15	16-Dec-24	07-Jan-25	655
CN.2900000	Install 18" Dia Pipe	0%	5	5	08-Jan-25	14-Jan-25	655
CN.2910000	Install 6" Dia Pipe	0%	5	5	15-Jan-25	22-Jan-25	655
CN.4590000	Install Slide Gates - Filters 18 @ Backwash Water Channel	0%	5	5	16-Apr-27	22-Apr-27	6
CN.4810000	Fill Tank & Leopold Backwash Visual Testing - Filter 18	0%	5	5	31-Aug-27	07-Sep-27	6
CN.2880000	Fill Sand - 6" - Filters 18	0%	3	3	08-Sep-27	10-Sep-27	6
CN.2890000	Fill GAC - 48" - Filters 18	0%	4	4	13-Sep-27	16-Sep-27	6
Electrical			270	270	01-Oct-26	29-Oct-27	16
CN.2660000	Install Cable Gallery	0%	15	15	01-Oct-26	22-Oct-26	181
CN.2630000	Install of Electrical Panels at Pipe Gallery	0%	5	5	23-Oct-26	29-Oct-26	181
CN.2670000	Pull Wire & Cables	0%	6	6	30-Oct-26	06-Nov-26	200
CN.2920000	Install of Electrical Panels & Rough-in Conduit - Filters	0%	20	20	30-Oct-26	01-Dec-26	181
CN.2650000	Install of Light Poles	0%	5	5	02-Dec-26	08-Dec-26	181
CN.2680000	Electrical Terminations	0%	10	10	26-Jan-27	08-Feb-27	150
CN.2640000	Install of Motors for Slide Gates	0%	6	6	23-Apr-27	30-Apr-27	89
CN.2690000	Install I&C Instrumentation - Slide Gates	0%	3	3	03-May-27	05-May-27	89
CN.4560000	Install Lighting at Canopy / Filter Area	0%	10	10	18-Oct-27	29-Oct-27	16
Field Functional Testing			185	185	26-Jan-27	18-Oct-27	0
CN.2720000	Flush Piping & Clean Process Piping	0%	5	5	26-Jan-27	01-Feb-27	155
CN.2730000	Fill and Pressure Test Water	0%	10	10	02-Feb-27	16-Feb-27	155
CN.2700000	Electrical Calibration Check-out - Filters 16-18	0%	5	5	13-Sep-27	17-Sep-27	0
CN.2710000	I&C Loop Check - Filters 16-18	0%	5	5	20-Sep-27	24-Sep-27	0
CN.2740000	Field Testing - Pre-commissioning - Filters 16-18	0%	15	15	27-Sep-27	18-Oct-27	0
CN.2750000	Mechanical Completion - Filters 16-18	0%	0	0		18-Oct-27	0
Existing Backwash Water Piping Modifications (Filters 10-15)			90	90	11-Sep-25	26-Jan-26	521
Demo			7	7	11-Sep-25	19-Sep-25	579
CN.4680000	Commence Work - Existing Backwash Water Piping Mods (Filters 10-15)	0%	0	0	11-Sep-25		455
CN.4720000	Shut-Down - Upper Plan Demo	0%	0	0	11-Sep-25		579
CN.4690000	Upper Plan - Demo 36" Pipe and install 36" BF	0%	2	5	11-Sep-25	17-Sep-25	579
CN.4700000	Upper Plan - Remove 36" BWW-DI 90-Degree Bend	0%	1	1	18-Sep-25	18-Sep-25	579



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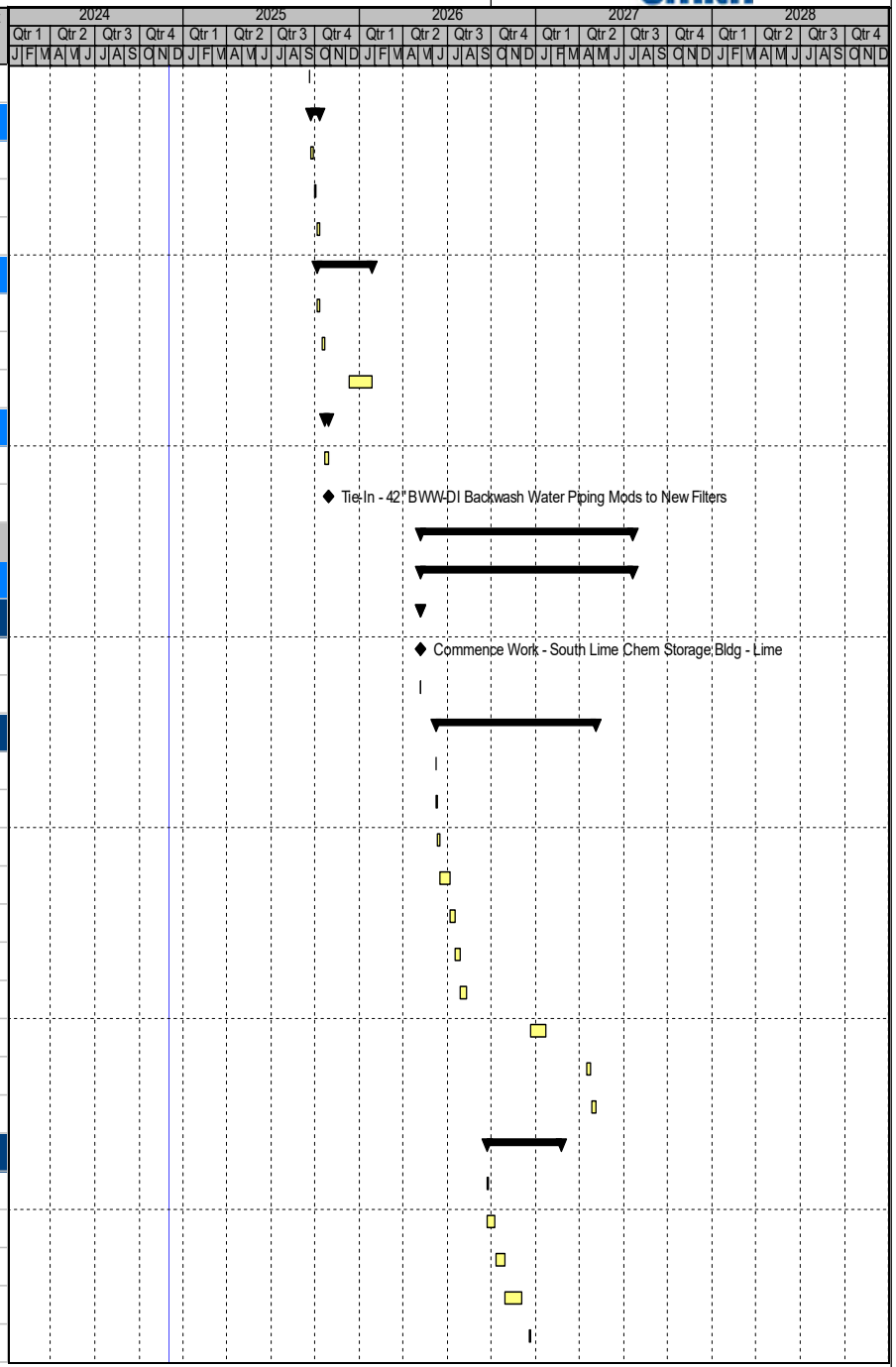
CN.4710000	Upper Plan - Remove 36" BWW-DI BF	0%	1	1	19-Sep-25	19-Sep-25	579
Mechancial			15	15	22-Sep-25	10-Oct-25	584
CN.4740000	Install Piping Mods - 36" BWW-DI	0%	5	5	22-Sep-25	26-Sep-25	579
CN.4750000	Install Piping Mods - 42" BWW-DI	0%	5	5	29-Sep-25	03-Oct-25	579
CN.4760000	Pressure Testing BWW-DI	0%	5	5	06-Oct-25	10-Oct-25	584
Electrical			73	73	06-Oct-25	26-Jan-26	516
CN.4770000	Install Instruments on BWW-DI	0%	5	5	06-Oct-25	10-Oct-25	579
CN.4780000	Power Instruments BWW-DI	0%	5	5	14-Oct-25	20-Oct-25	579
CN.4820000	Electrical Rough-in (Filter Gallary 10-15) to Ozone Generator XFMR	0%	30	30	10-Dec-25	26-Jan-26	395
Pre-commissiong			5	5	21-Oct-25	27-Oct-25	579
CN.4790000	I&C Loop Check	0%	5	5	21-Oct-25	27-Oct-25	579
CN.4800000	Tie-In - 42" BWW-DI Backwash Water Piping Mods to New Filters	0%	0	0		27-Oct-25	579
South Lime Chemical Storage Building			300	300	07-May-26	19-Jul-27	82
Dry Chemical Feed Building			300	300	07-May-26	19-Jul-27	82
Site Preparation			1	1	07-May-26	07-May-26	0
CN.3430000	Commence Work - South Lime Chem Storage Bldg - Lime	0%	0	0	07-May-26		0
CN.2930000	Rough Grading South Lime Chem Storage Bldg, RI Pad EL - Lime	0%	1	1	07-May-26	07-May-26	0
Civil			227	227	08-Jun-26	04-May-27	82
CN.3140000	Excavation for Foundations of Center Silo and Tanks	0%	1	1	08-Jun-26	08-Jun-26	82
CN.2940000	Excavation for Foundations of Perimeter	0%	1	1	09-Jun-26	09-Jun-26	82
CN.2950000	Underslab Rough-in	0%	5	5	10-Jun-26	16-Jun-26	82
CN.2960000	F/R/P Concrete Foundation, Center Silo @ 38.1	0%	14	14	17-Jun-26	07-Jul-26	82
CN.2980000	F/R/P Concrete Foundation, Inside Column foundation	0%	7	7	08-Jul-26	16-Jul-26	82
CN.2970000	F/R/P Concrete Foundation, Perimeter	0%	7	7	17-Jul-26	27-Jul-26	82
CN.2990000	F/R/P Slab on Grade @ 38.1 and 6" pedestal at Center Silo area	0%	10	10	28-Jul-26	10-Aug-26	82
CN.3370000	F/R/P Concrete & Cure @ 76.43 lvl	0%	21	21	21-Dec-26	21-Jan-27	82
CN.3150000	F/R/P Concrete Slab for Electrical Room	0%	7	7	15-Apr-27	23-Apr-27	82
CN.3120000	F/R/P Concrete Foundation,for Centrifugal Slurry Pump	0%	7	7	26-Apr-27	04-May-27	82
Structural			103	103	21-Sep-26	22-Feb-27	175
CN.3090000	Erection and Installation of Staircase	0%	5	5	21-Sep-26	25-Sep-26	273
CN.3020000	Erection of Columns Inside Building & Cure (4no.s)	0%	14	14	21-Sep-26	08-Oct-26	82
CN.3030000	Erection of Framing Structure (Columns and Tie Beam) - 4 sides	0%	14	14	09-Oct-26	29-Oct-26	82
CN.3040000	Install Roof Tie Beam and Cure @ EL 76.43	0%	21	21	30-Oct-26	02-Dec-26	82
CN.3050000	Erect Metal Deck @ EL 76.43	0%	3	3	17-Dec-26	21-Dec-26	102



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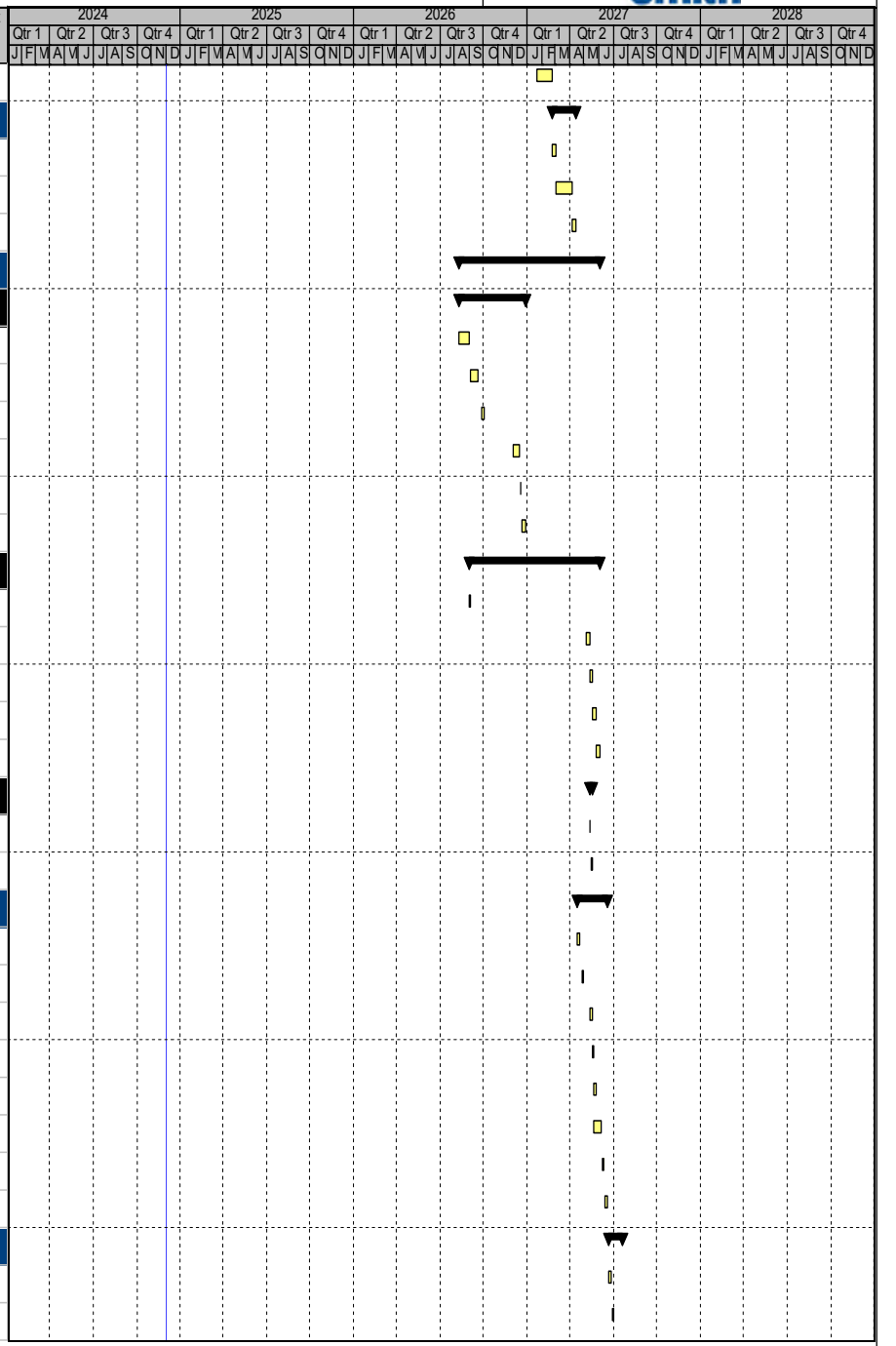
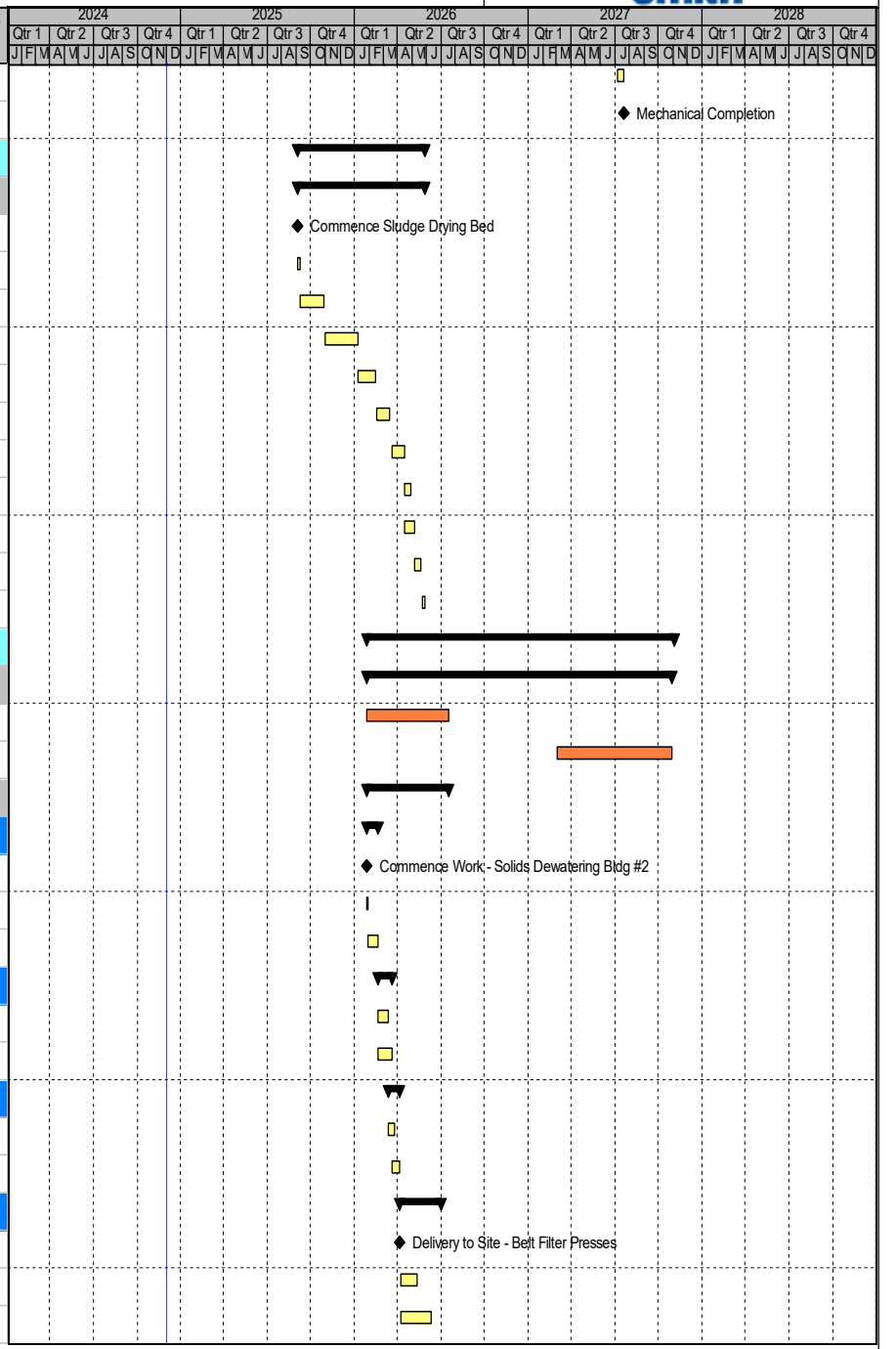
CN.3070000	Install Slopped Beams and Cure @ EL 82.02	0%	21	21	22-Jan-27	22-Feb-27	82
Masonary			37	37	23-Feb-27	14-Apr-27	82
CN.3100000	Erection of Scaffolding for Masonary Work	0%	5	5	23-Feb-27	01-Mar-27	82
CN.3110000	Masonary Work (4 sides)	0%	25	25	02-Mar-27	05-Apr-27	82
CN.3160000	Masonary Work for Electrical Room	0%	7	7	06-Apr-27	14-Apr-27	82
Mechanical			203	203	11-Aug-26	03-Jun-27	113
Silo			94	94	11-Aug-26	28-Dec-26	222
CN.3000000	Installation of Silo Support Structure (4no.s)	0%	15	15	11-Aug-26	31-Aug-26	82
CN.3010000	Install Silo Platform Structure @ EL 48.09	0%	10	10	04-Sep-26	18-Sep-26	82
CN.3080000	Installation of Microsand Storage	0%	5	5	28-Sep-26	02-Oct-26	273
CN.3190000	Erection of Silo	0%	10	10	03-Dec-26	16-Dec-26	82
CN.3200000	Erection of Bin Filter	0%	2	2	17-Dec-26	18-Dec-26	82
CN.3360000	Allignment and Checking Bin Filter	0%	5	5	21-Dec-26	28-Dec-26	222
Lime Slurry Tank			188	188	01-Sep-26	03-Jun-27	113
CN.3060000	Installation of Lime Slurry Tanks	0%	3	3	01-Sep-26	03-Sep-26	82
CN.3130000	Installation of Centrifugal Slurry Pump (4)	0%	5	5	05-May-27	11-May-27	82
CN.3180000	Installation of Process Piping	0%	5	5	12-May-27	18-May-27	113
CN.3210000	Installation of BF, CV and other Piping Equipment	0%	6	6	19-May-27	26-May-27	113
CN.3350000	Allignment and Final Checkout of Slurry Sys	0%	5	5	27-May-27	03-Jun-27	113
Miscellaneous Equipments			4	4	12-May-27	17-May-27	120
CN.3220000	Install Acid Neutralization Tank	0%	2	2	12-May-27	13-May-27	120
CN.3230000	Install Condenstate Drywell	0%	2	2	14-May-27	17-May-27	120
Electrical			46	46	15-Apr-27	18-Jun-27	82
CN.3260000	Install Cable Tray	0%	5	5	15-Apr-27	21-Apr-27	96
CN.3240000	Install MCC	0%	5	5	26-Apr-27	30-Apr-27	96
CN.3170000	Install Pump Control Panel and Chemical Feed Control Panel	0%	5	5	12-May-27	18-May-27	82
CN.3250000	Install other Panels (Lime Storage Fill, Slurry Mixer Control Panel, etc)	0%	2	2	19-May-27	20-May-27	82
CN.3280000	Install Building Lightning	0%	3	3	21-May-27	25-May-27	89
CN.3270000	Pull Wire & Cable	0%	10	10	21-May-27	04-Jun-27	82
CN.3290000	Electrical Terminations	0%	5	5	07-Jun-27	11-Jun-27	82
CN.3300000	Install I&C Instrumentation	0%	5	5	14-Jun-27	18-Jun-27	82
Field Functional Testing			20	20	21-Jun-27	19-Jul-27	82
CN.3310000	Electrical Calibration Check-out	0%	5	5	21-Jun-27	25-Jun-27	82
CN.3320000	I&C Loop Check	0%	5	5	28-Jun-27	02-Jul-27	82



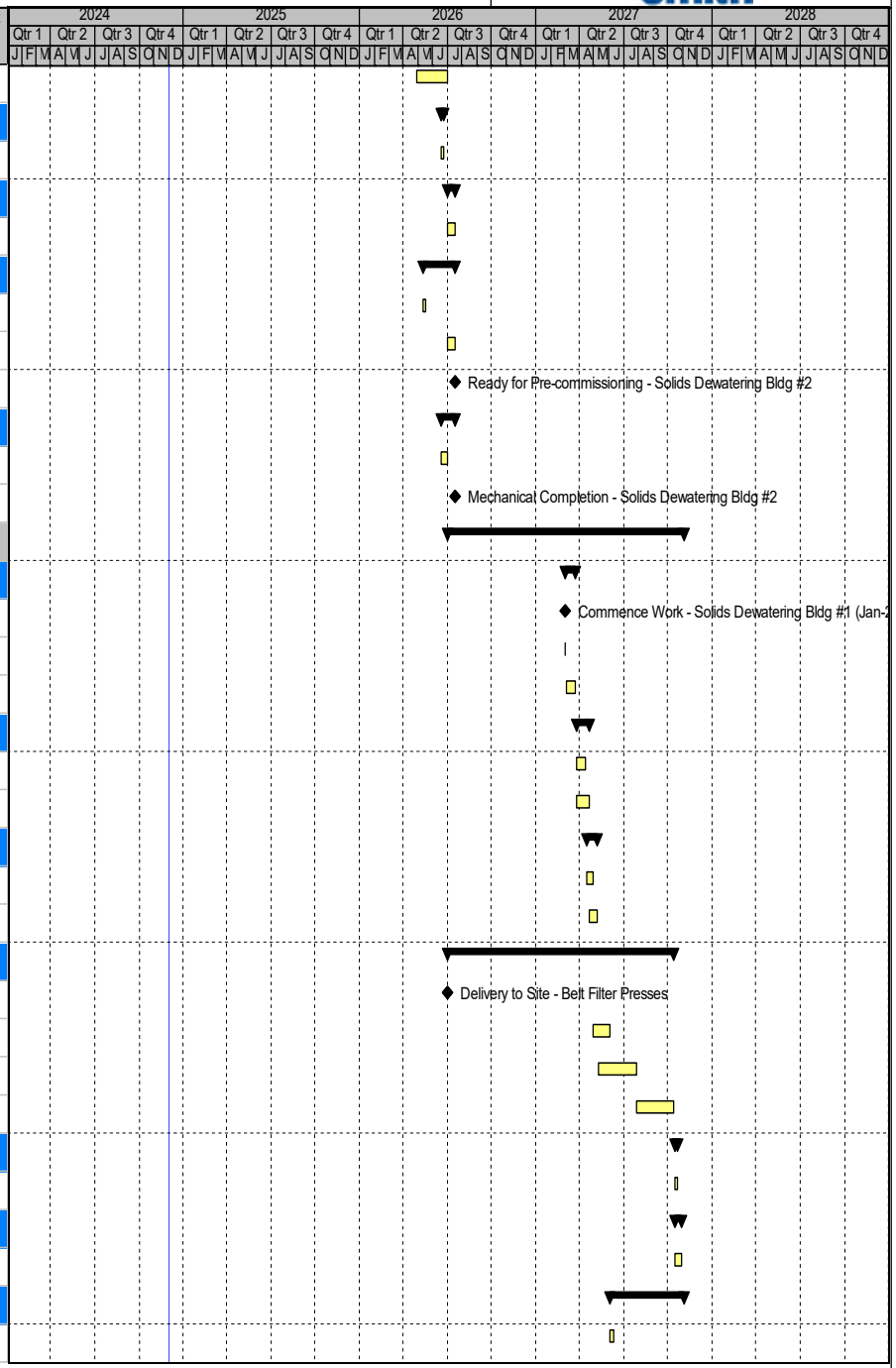
Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.3330000	Pre-commissioning	0%	10	10	06-Jul-27	19-Jul-27	82
CN.3340000	Mechanical Completion	0%	0	0		19-Jul-27	82
Sludge Drying Bed Area			184	184	02-Sep-25	29-May-26	372
Sitework			184	184	02-Sep-25	29-May-26	372
CN.1440000	Commence Sludge Drying Bed	0%	0	0	02-Sep-25		395
CN.1450000	Survey, Environmental Protection	0%	5	5	02-Sep-25	08-Sep-25	395
CN.1770000	Cut & Grade top 3' Organic Soils	0%	36	36	09-Sep-25	29-Oct-25	395
CN.1780000	Import Fill for Drying Bed	0%	45	45	30-Oct-25	08-Jan-26	395
CN.1460000	Concrete Curbing at Drying Bed	0%	25	25	09-Jan-26	13-Feb-26	395
CN.1790000	Install Geotech Liner for 1ac Sludge Staging Area	0%	20	20	17-Feb-26	16-Mar-26	395
CN.1570000	Collection Area Extension and Drainage	0%	20	20	20-Mar-26	16-Apr-26	372
CN.1800000	Site Improvements	0%	10	10	17-Apr-26	30-Apr-26	377
CN.1560000	Roads & Asphalt at Dryig Beds	0%	15	15	17-Apr-26	07-May-26	372
CN.1470000	Pre-commissioning / Contractor Completion List - Drying Bed	0%	10	10	08-May-26	21-May-26	372
CN.1480000	Mechanical Completion - Drying Bed Complete	0%	5	5	22-May-26	29-May-26	372
Belt Filter Area			448	448	26-Jan-26	04-Nov-27	24
Solids Dewatering / Belt Press			443	443	26-Jan-26	28-Oct-27	29
CN.160000	Construct Solids Dewatering Bldg #2 (SUMMARY)	0%	165	121	26-Jan-26	16-Jul-26	304
CN.170000	Construct Solids Dewatering Bldg #1 (SUMMARY)	0%	170	170	01-Mar-27	28-Oct-27	29
Solids Dewatering Bldg #2 (BFP 5-6-7)			121	121	26-Jan-26	16-Jul-26	304
Demolition			18	18	26-Jan-26	19-Feb-26	320
CN.FL0-920010	Commence Work - Solids Dewatering Bldg #2	0%	0	0	26-Jan-26		320
CN.FL0-670010	Shut-down Existing Belt Fitler Presses / Lockout Tag Out - BFP Bldg #2	0%	3	3	26-Jan-26	28-Jan-26	320
CN.FL0-960010	Demolition Work - Solids Dewatering Bldg #2	0%	15	15	29-Jan-26	19-Feb-26	320
Concrete / Structural			20	20	20-Feb-26	19-Mar-26	337
CN.FL0-1010010	Concrete Foundations & Cure for Conveyor - Solids Dewatering Bldg #2	0%	15	15	20-Feb-26	12-Mar-26	342
CN.FL0-770010	Concrete Pedistals & Cure, Structural Steel Platform - Solids Dewatering Bldg #2	0%	20	20	20-Feb-26	19-Mar-26	320
Metals			17	17	13-Mar-26	06-Apr-26	335
CN.FL0-1020010	Structural Steel Framing for Conveyor - Solids Dewatering Bldg #2	0%	10	10	13-Mar-26	26-Mar-26	342
CN.FL0-700010	Structural Steel Framing & Al Grating - Solids Dewatering Bldg #2	0%	12	12	20-Mar-26	06-Apr-26	320
Balance of Plant (M-E-P)			61	61	06-Apr-26	01-Jul-26	304
CN.FL0-780010	Delivery to Site - Belt Filter Presses	0%	0	0		06-Apr-26	315
CN.FL0-900010	Conveyor Replacement (Mech/Elec/Process) - Solids Dewatering Bldg #2	0%	25	25	07-Apr-26	11-May-26	335
CN.FL0-1060010	Install Washdown Booster Pump 5,6 & 7 (Mech/Elec/Process)	0%	45	45	07-Apr-26	09-Jun-26	315

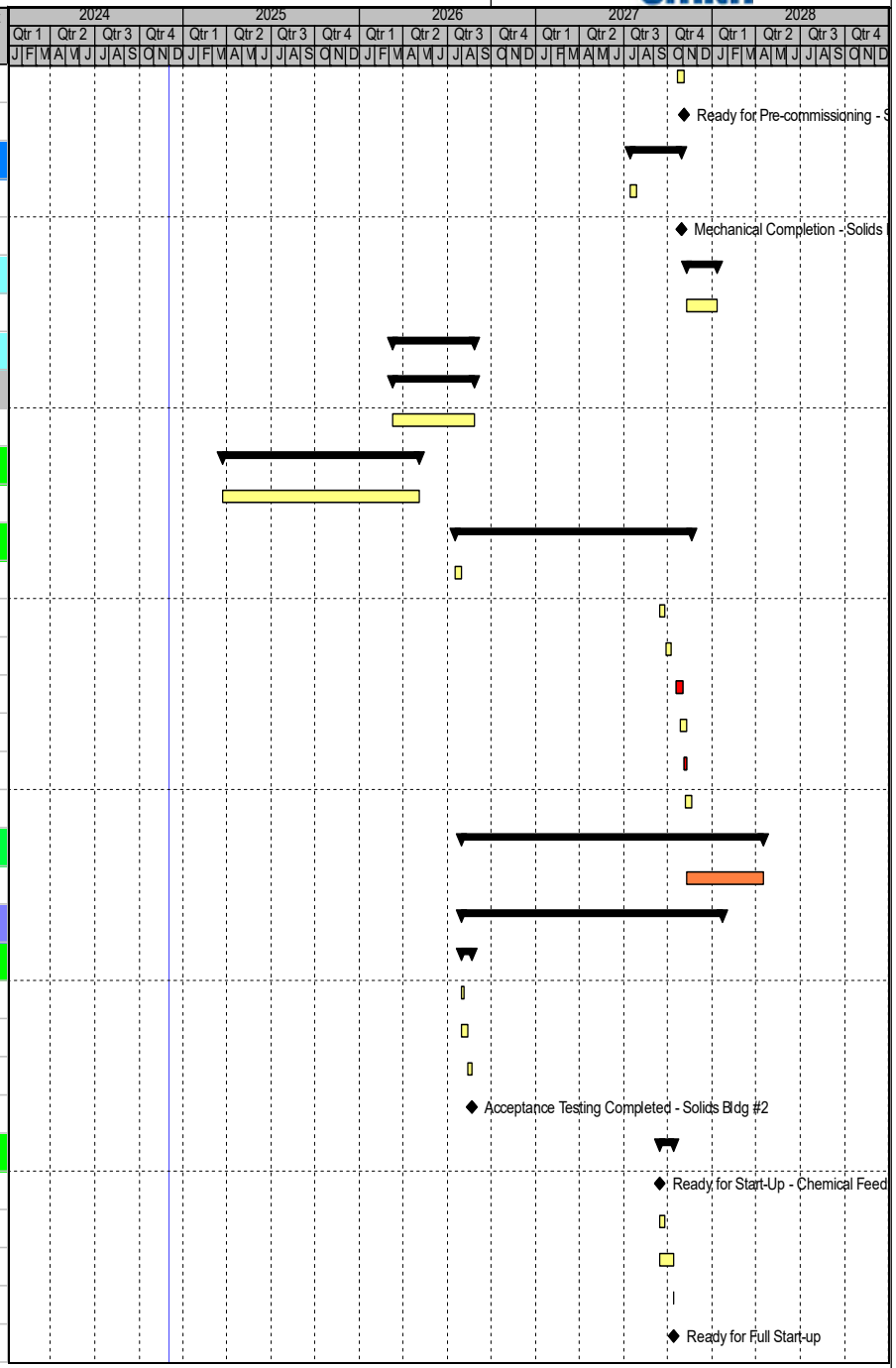


Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-690010	Install Belt Filter Press #5,6 &7 (Mech/Elec/Process)	0%	45	45	29-Apr-26	01-Jul-26	304
Instrumentation & SCADA			5	5	18-Jun-26	24-Jun-26	309
CN.FL0-710010	Instrumentation & Loop Checks - Solids Dewatering Bldg #2	0%	5	5	18-Jun-26	24-Jun-26	309
Coatings			10	10	02-Jul-26	16-Jul-26	304
CN.FL0-740010	Coatings - Solids Dewatering Bldg #2	0%	10	10	02-Jul-26	16-Jul-26	304
Field Functional Testing			46	46	12-May-26	16-Jul-26	304
CN.FL0-790010	Functional Testing Conveyor	0%	5	5	12-May-26	18-May-26	335
CN.FL0-720010	Functional Field Testing - Solids Dewatering Bldg #2 System	0%	10	10	02-Jul-26	16-Jul-26	304
CN.FL0-730010	Ready for Pre-commissioning - Solids Dewatering Bldg #2	0%	0	0		16-Jul-26	304
Final Site Restoration			20	20	18-Jun-26	16-Jul-26	304
CN.FL0-760010	Final Grading, Sitework, Flatwork Restoration - Solids Dewatering Bldg #2	0%	10	10	18-Jun-26	01-Jul-26	314
CN.FL0-750010	Mechanical Completion - Solids Dewatering Bldg #2	0%	0	0		16-Jul-26	304
Solids Dewatering Bldg #1 (BFP1-4)			337	337	01-Jul-26	04-Nov-27	24
Demolition			18	18	01-Mar-27	24-Mar-27	24
CN.FL0-1440010	Commence Work - Solids Dewatering Bldg #1 (Jan-2027 for March-May Low Flows)	0%	0	0	01-Mar-27*		24
CN.FL0-1320010	Shut-down Existing Belt Fitler Presses / Lockout Tag Out - BFP Bldg #1	0%	3	3	01-Mar-27	03-Mar-27	24
CN.FL0-1450010	Demolition Work - Solids Dewatering Bldg #1	0%	15	15	04-Mar-27	24-Mar-27	24
Concrete / Structural			20	20	25-Mar-27	21-Apr-27	111
CN.FL0-1460010	Concrete Foundations & Cure for Conveyor - Solids Dewatering Bldg #1	0%	15	15	25-Mar-27	14-Apr-27	116
CN.FL0-1410010	Concrete Pedistals & Cure, Structural Steel Platform - Solids Dewatering Bldg #1	0%	20	20	25-Mar-27	21-Apr-27	24
Metals			17	17	15-Apr-27	07-May-27	109
CN.FL0-1470010	Structural Steel Framing for Conveyor - Solids Dewatering Bldg #1	0%	10	10	15-Apr-27	28-Apr-27	116
CN.FL0-1340010	Structural Steel Framing & Al Grating for Presses - Solids Dewatering Bldg #1	0%	12	12	22-Apr-27	07-May-27	24
Balance of Plant (M-E-P)			322	322	01-Jul-26	14-Oct-27	24
CN.FL0-1420010	Delivery to Site - Belt Filter Presses	0%	0	0		01-Jul-26	236
CN.FL0-1430010	Conveyor Replacement (Mech/Elec/Process) - Solids Dewatering Bldg #1	0%	25	25	29-Apr-27	03-Jun-27	116
CN.FL0-1330010	Install Belt Filter Press #1-4 (Mech/Elec/Process)	0%	55	55	10-May-27	27-Jul-27	24
CN.FL0-1480010	Install Washdown Booster Pump 1-4 (Mech/Elec/Process)	0%	55	55	28-Jul-27	14-Oct-27	24
Instrumentation & SCADA			5	5	15-Oct-27	21-Oct-27	24
CN.FL0-1350010	Instrumentation & Loop Checks - Solids Dewatering Bldg #1	0%	5	5	15-Oct-27	21-Oct-27	24
Coatings			10	10	15-Oct-27	28-Oct-27	29
CN.FL0-1380010	Coatings - Solids Dewatering Bldg #1	0%	10	10	15-Oct-27	28-Oct-27	29
Field Functional Testing			107	107	04-Jun-27	04-Nov-27	24
CN.FL0-1490010	Functional Testing Conveyor	0%	5	5	04-Jun-27	10-Jun-27	116



Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
CN.FL0-1360010	Functional Field Testing - Solids Dewatering Bldg #1 System	0%	10	10	22-Oct-27	04-Nov-27	24
CN.FL0-1370010	Ready for Pre-commissioning - Solids Dewatering Bldg #1	0%	0	0		04-Nov-27	24
Final Site Restoration			75	75	14-Jul-27	28-Oct-27	29
CN.FL0-1400010	Final Grading, Sitework, Flatwork Restoration - Solids Dewatering Bldg #1	0%	10	10	14-Jul-27	27-Jul-27	94
CN.FL0-1390010	Mechanical Completion - Solids Dewatering Bldg #1	0%	0	0		28-Oct-27	29
Final Site Improvements			40	40	09-Nov-27	10-Jan-28	7
CN.4530000	FInal Site Improvements - Solids Dewatering Bldg #1	0%	40	40	09-Nov-27	10-Jan-28	7
Sodium Hypochlorite Storage			120	120	11-Mar-26	27-Aug-26	295
New Sodium Hypochlorite Tanks			120	120	11-Mar-26	27-Aug-26	295
CN.150000	Construct New Sodium Hypochlorite Tanks	0%	120	120	11-Mar-26	27-Aug-26	295
SCADA/ Programming / Integration			280	280	24-Mar-25	05-May-26	364
CN.1160000	SCADA / Programming / Integration	0%	280	280	24-Mar-25	05-May-26	364
Contractor Precommission / Checkout			337	337	17-Jul-26	19-Nov-27	24
PC-006	Pre-commission - Solids Handling System Bldg #2	0%	10	10	17-Jul-26	30-Jul-26	304
PC-001	Pre-commission Electrical Ozone Generator	0%	10	10	13-Sep-27	24-Sep-27	48
PC-005	Pre-commission - Actiflo System	0%	10	10	27-Sep-27	08-Oct-27	46
PC-003	Pre-commission - GAC Filtration System	0%	10	10	19-Oct-27	01-Nov-27	0
PC-002	Pre-commission - Ozone System	0%	10	10	26-Oct-27	08-Nov-27	27
PC-10003	BAC/T Testing Filters	0%	5	5	02-Nov-27	08-Nov-27	0
PC-007	Pre-commission - Solids Handling System Bldg #1	0%	10	10	05-Nov-27	19-Nov-27	24
CLOSEOUT			433	426	31-Jul-26	14-Apr-28	0
CN.60000	CLOSEOUT (SUMMARY) (3-months)	0%	114	107	09-Nov-27	14-Apr-28	0
Facility Startup			366	366	31-Jul-26	20-Jan-28	0
Solids Dewatering Bldg #2			15	15	31-Jul-26	20-Aug-26	304
CN.4650000	Punchlist - Solids Dewatering Bldg#2	0%	10	5	31-Jul-26	06-Aug-26	309
CN.4640000	Functional Acceptance Testing - Solids Dewatering Bldg #2	0%	10	10	31-Jul-26	13-Aug-26	304
CN.4660000	Engineer Issue Cert of Completion - Solids Dewatering Bldg #2	0%	1	5	14-Aug-26	20-Aug-26	304
CN.4670000	Acceptance Testing Completed - Solids Bldg #2	0%	0	0		20-Aug-26	304
Start-up Dry Chemical Feed System			22	22	13-Sep-27	13-Oct-27	44
CN.3380000	Ready for Start-Up - Chemical Feed System	0%	0	0	13-Sep-27		44
PL-10001	Punchlist -Dry Chemical Feed System	0%	10	10	13-Sep-27	24-Sep-27	55
CN.3390000	Commission Period -Chemical Feed System	0%	20	21	13-Sep-27	12-Oct-27	44
CN.3400000	Engineer Issue Cert of Compliance - Chemical Feed System	0%	1	1	13-Oct-27	13-Oct-27	44
CN.3410000	Ready for Full Start-up	0%	0	0		13-Oct-27	44



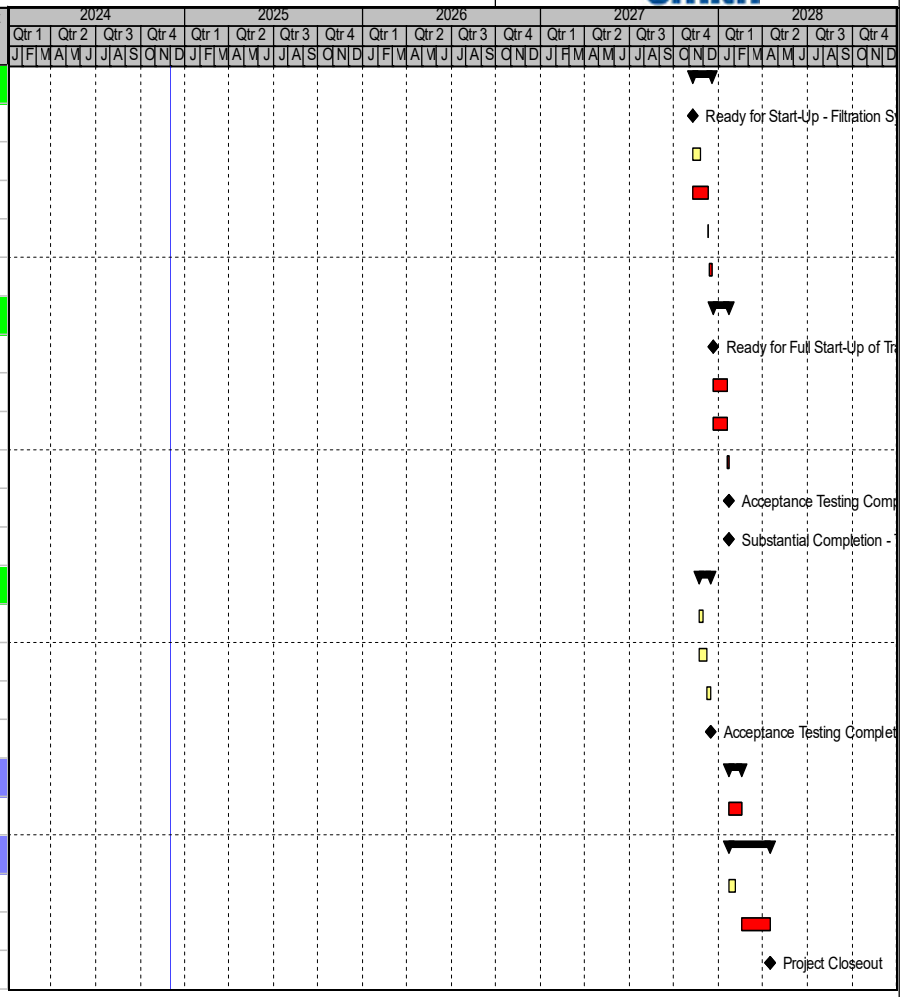
Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Print Date: 03-Dec-24

VWNA TBW RSWTP Expansion - Client Execution - Update

CDM Smith

Activity ID	Activity Name	Phy %	Orig Dur	Rem Dur	Start	Finish	Total Float
Start-up Filtration System			26	26	09-Nov-27	17-Dec-27	0
CN.840000	Ready for Start-Up - Filtration System	0%	0	0	09-Nov-27		0
PL-1	Punchlist - Filtration System	0%	10	10	09-Nov-27	23-Nov-27	10
CN.850000	Commission Period - Filters	0%	20	20	09-Nov-27	09-Dec-27	0
CN.860000	Engineer Issue Cert of Compliance - Filters	0%	1	1	10-Dec-27	10-Dec-27	0
CN.870000	Operations Approve Full Start-up (Additional Filter Capacity Available)	0%	5	5	13-Dec-27	17-Dec-27	0
Full Start-Up of Train #5			21	21	20-Dec-27	20-Jan-28	0
CN.640000	Ready for Full Start-Up of Train #5	0%	0	0	20-Dec-27		0
CN.650000	Functional Acceptance Testing Period (Non-discharge, pending FDEP Clearance)	0%	20	20	20-Dec-27	19-Jan-28	0
CN.1060000	Punchlist - Balance of Plant	0%	20	20	20-Dec-27	19-Jan-28	0
CN.660000	Engineer Issue Cert of Compliance	0%	1	1	20-Jan-28	20-Jan-28	0
CN.680000	Acceptance Testing Completed	0%	0	0		20-Jan-28	0
CN.690000	Substantial Completion - Train #5	0%	0	0		20-Jan-28	0
Solids Dewatering Bldg #1			15	15	22-Nov-27	14-Dec-27	24
CN.4610000	Punchlist - Solids Dewatering Bldg#1	0%	10	5	22-Nov-27	30-Nov-27	29
CN.4600000	Functional Acceptance Testing - Solids Dewatering Bldg #1	0%	10	10	22-Nov-27	07-Dec-27	24
CN.4620000	Engineer Issue Cert of Completion - Solids Dewatering Bldg #1	0%	1	5	08-Dec-27	14-Dec-27	24
CN.4630000	Acceptance Testing Completed - Solids Bldg #1	0%	0	0		14-Dec-27	24
Commissioning Period			20	20	21-Jan-28	17-Feb-28	0
CLS-3	Commissioning Period, Operations Training	0%	20	20	21-Jan-28	17-Feb-28	0
Contract Closeout			60	60	21-Jan-28	14-Apr-28	0
CLS-4	Contractor Demobilization	0%	10	10	21-Jan-28	03-Feb-28	50
CLS-5	Finalize Contract Closeout Submittals	0%	40	40	18-Feb-28	14-Apr-28	0
CLS-6	Project Closeout	0%	0	0		14-Apr-28	0



P6 ID: 282964.Client2
Data Date:01-Dec-24
Layout: 282964:* PH2 Detail Sched (TF)

Actual | Remaining | LOE | Critical Work | Summary | Milestone

PROGRESS SCHEDULE

Phase 2 - Detail Schedule by WBS (All Activities)

Date	Revision	Checked	Approved
03-Dec-24	Update 01Dec2024	DS	SS
	WORK IN PROGRESS FOR GMP		

Attachment 4

General Conditions

PRELIMINARY

PRELIMINARY SERVICES

GC REPORT

CLIENT NAME: **Veolia**

PROJECT NAME: **TBW SWTP Expansion PDB**

PROJECT MANAGER: **Steve Solters**

PROJECT NUMBER: **282964**

REV43 06-18-24

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
PRELIM/PRECON SERVICES STAFFING														
PROJECT MANAGEMENT STAFF														
Area Leader	20	/wk	80	mh	$ 264.60	hr	$ 21,168	$ -	$ 1,360	$ -	$ -	$ 1,126.40	/wk	$ 22,528
Precon Mgr	20	/wk	800	mh	$ 220.50	hr	$ 176,400	$ -	$ 13,600	$ -	$ -	$ 9,500.00	/wk	$ 190,000
DB Project Manager	20	/wk	800	mh	$ 248.06	hr	$ 198,448	$ -	$ 13,600	$ -	$ -	$ 10,602.40	/wk	$ 212,048
Elec Delivery Lead	20	/wk	0	mh	$ 203.96	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Assistant PM	20	/wk	800	mh	$ 176.40	hr	$ 141,120	$ -	$ 800	$ -	$ -	$ 7,096.00	/wk	$ 141,920
I&C Integration Mgr	20	/wk	0	mh	$ 203.96	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Project Account	20	/wk	200	mh	$ 110.25	hr	$ 22,050	$ -	$ 200	$ -	$ -	$ 1,112.50	/wk	$ 22,250
VDC Mgr	20	/wk	200	mh	$ 137.81	hr	$ 27,562	$ -	$ 200	$ -	$ -	$ 1,388.10	/wk	$ 27,762
Lead Procurement	20	/wk	800	mh	$ 82.69	hr	$ 66,152	$ -	$ 800	$ -	$ -	$ 3,347.60	/wk	$ 66,952
Procurement Manager	20	/wk	800	mh	$ 148.84	hr	$ 119,072	$ -	$ 800	$ -	$ -	$ 5,993.60	/wk	$ 119,872
PROJECT MANAGEMENT STAFF	**20**	**/wk**	**4480**	**mh**			**$ 771,972**	**$ -**	**$ 31,360**	**$ -**	**$ -**	**$ 40,166.60**	**/wk**	**$ 803,332**
FIELD STAFF														
General Super	20	/wk	300	mh	$ 209.48	hr	$ 62,844	$ -	$ 5,100	$ -	$ -	$ 3,397.20	/wk	$ 67,944
Superintendent	20	/wk	200	mh	$ 192.94	hr	$ 38,588	$ -	$ 3,400	$ -	$ -	$ 2,099.40	/wk	$ 41,988
Regional H&S Mgr	20	/wk	200	mh	$ 181.91	hr	$ 36,382	$ -	$ 3,400	$ -	$ -	$ 1,989.10	/wk	$ 39,782
H&S Manager	20	/wk	200	mh	$ 165.38	hr	$ 33,076	$ -	$ 3,400	$ -	$ -	$ 1,823.80	/wk	$ 36,476
Constr Specialist 1	20	/wk	800	mh	$ 110.25	hr	$ 88,200	$ -	$ 800	$ -	$ -	$ 4,450.00	/wk	$ 89,000
Constr Specialist 2	20	/wk	800	mh	$ 132.30	hr	$ 105,840	$ -	$ 800	$ -	$ -	$ 5,332.00	/wk	$ 106,640
Constr Specialist 3	20	/wk	400	mh	$ 165.38	hr	$ 66,152	$ -	$ 6,800	$ -	$ -	$ 3,647.60	/wk	$ 72,952
Sr QC Mgr	20	/wk	80	mh	$ 259.09	hr	$ 20,727	$ -	$ 1,360	$ -	$ -	$ 1,104.36	/wk	$ 22,087
FIELD STAFF	**20**	**/wk**	**2980**	**mh**			**$ 451,809**	**$ -**	**$ 25,060**	**$ -**	**$ -**	**$ 23,843.46**	**/wk**	**$ 476,869**
ESTIMATING														
Sr. Estimator	20	/wk	400	mh	$ 170.89	hr	$ 68,356	$ -	$ 400	$ -	$ -	$ 3,437.80	/wk	$ 68,756
Elec Estimator	20	/wk	400	mh	$ 159.86	hr	$ 63,944	$ -	$ 400	$ -	$ -	$ 3,217.20	/wk	$ 64,344
Chief Estimator	20	/wk	200	mh	$ 203.96	hr	$ 40,792	$ -	$ 200	$ -	$ -	$ 2,049.60	/wk	$ 40,992
Estimating Mgr	20	/wk	80	mh	$ 248.06	hr	$ 19,845	$ -	$ 80	$ -	$ -	$ 996.24	/wk	$ 19,925
ESTIMATING	**20**	**/wk**	**1080**	**mh**			**$ 192,937**	**$ -**	**$ 1,080**	**$ -**	**$ -**	**$ 9,700.84**	**/wk**	**$ 194,017**
PROJECT CONTROLS														
Sr Project Controls	20	/wk	200	mh	$ 264.60	hr	$ 52,920	$ -	$ 200	$ -	$ -	$ 2,656.00	/wk	$ 53,120
PROJECT CONTROLS	**20**	**/wk**	**200**	**mh**			**$ 52,920**	**$ -**	**$ 200**	**$ -**	**$ -**	**$ 2,656.00**	**/wk**	**$ 53,120**
CLERICAL STAFF														
Project Admin	20	/wk	400	mh	$ 82.69	hr	$ 33,076	$ -	$ 400	$ -	$ -	$ 1,673.80	/wk	$ 33,476
Lead Project Admin	20	/wk	400	mh	$ 99.23	hr	$ 39,692	$ -	$ 400	$ -	$ -	$ 2,004.60	/wk	$ 40,092
CLERICAL STAFF	**20**	**/wk**	**800**	**mh**			**$ 72,768**	**$ -**	**$ 800**	**$ -**	**$ -**	**$ 3,678.40**	**/wk**	**$ 73,568**
TRAVEL & SUBSISTENCE														
Area Lead Airfare	6	/Trips									$ 3,600	$ 600.00	/Trips	$ 3,600
Area Lead Car Rental	6	/Trips									$ 5,040	$ 840.00	/Trips	$ 5,040
Area Lead Hotel	6	/Trips									$ 6,000	$ 1,000.00	/Trips	$ 6,000
Area Lead Meals	6	/Trips									$ 3,000	$ 500.00	/Trips	$ 3,000
Assistant PM Car Rental	6	/Trips									$ 5,040	$ 840.00	/Trips	$ 5,040
Assistant PM Hotel	6	/Trips									$ 6,000	$ 1,000.00	/Trips	$ 6,000
Assistant PM Meals	6	/Trips									$ 3,000	$ 500.00	/Trips	$ 3,000
Super Car Rental	4	/Trips									$ 3,360	$ 840.00	/Trips	$ 3,360
Super Hotel	4	/Trips									$ 4,000	$ 1,000.00	/Trips	$ 4,000

PRELIMARY SERVICES

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
Super Meals	4	/Trips									$ 2,000	$ 500.00	/Trips	$ 2,000
CS Airfare	4	/Trips									$ 2,400	$ 600.00	/Trips	$ 2,400
CS Car Rental	4	/Trips									$ 3,360	$ 840.00	/Trips	$ 3,360
CS Hotel	4	/Trips									$ 4,000	$ 1,000.00	/Trips	$ 4,000
CS Meals	4	/Trips									$ 2,000	$ 500.00	/Trips	$ 2,000
TRAVEL & SUBSISTENCE											**$ 52,800**			**$ 52,800**
TRAINING & ORIENTATION														
PreHire/Orientation	4	/Ea									$ 10,000	$ 2,500.00	/Ea	$ 10,000
OSHA 10 Training	4	/Ea									$ 2,000	$ 500.00	/Ea	$ 2,000
Specific Training	4	/Ea									$ 2,000	$ 500.00	/Ea	$ 2,000
TRAINING & ORIENTATION											**$ 14,000**			**$ 14,000**
CONTRACT REQUIREMENTS														
Textura Accounting	0	/LS											/LS	$ -
Predictive Solutions	0	/LS											/LS	$ -
LCP Certified Payroll	0	/LS											/LS	$ -
CONTRACT REQUIREMENTS											**$ -**			**$ -**
Subtotal							**$ 1,542,406**		**$ 58,500**		**$ 66,800**			**$ 1,667,706**
Sales Tax	7.50%													$ 5,010
Subtotal w/ Taxes														**$ 1,672,716**
CCI G&A	7.60%													$ 9,523
CCI FEE	0.65%													$ 814
PRELIMINARY SERVICES TOTAL														**$ 1,683,053**

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
CONSTRUCTION GENERAL CONDITIONS STAFFING														
PROJECT MANAGEMENT STAFF														
Area Leader	125	/wk	499	mh	$ 277.83	hr	$ 138,597	$ -	$ 8,481	$ -	$ -	$ 1,176.62	/wk	$ 147,078
Precon Mgr	125	/wk	249	mh	$ 231.53	hr	$ 57,749	$ -	$ 4,240	$ -	$ -	$ 495.91	/wk	$ 61,989
DB Project Manager	125	/wk	4989	mh	$ 260.46	hr	$ 1,299,338	$ -	$ 84,806	$ -	$ -	$ 11,073.15	/wk	$ 1,384,144
Elec Delivery Lead	125	/wk	0	mh	$ 214.16	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Assistant PM	125	/wk	4989	mh	$ 185.22	hr	$ 923,983	$ -	$ 4,989	$ -	$ -	$ 7,431.77	/wk	$ 928,972
I&C Integration Mgr	125	/wk	0	mh	$ 214.16	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Project Account	125	/wk	748	mh	$ 115.76	hr	$ 86,623	$ -	$ 748	$ -	$ -	$ 698.97	/wk	$ 87,372
VDC Mgr	125	/wk	998	mh	$ 144.70	hr	$ 144,370	$ -	$ 998	$ -	$ -	$ 1,162.94	/wk	$ 145,367
Lead Procurement	125	/wk	499	mh	$ 86.82	hr	$ 43,313	$ -	$ 499	$ -	$ -	$ 350.50	/wk	$ 43,812
Procurement Manager	125	/wk	499	mh	$ 155.40	hr	$ 77,522	$ -	$ 499	$ -	$ -	$ 624.17	/wk	$ 78,021
PROJECT MANAGEMENT STAFF	**125**	**/wk**	**13469**	**mh**			**$ 2,771,497**	**$ -**	**$ 105,259**	**$ -**	**$ -**	**$ 23,014.04**	**/wk**	**$ 2,876,755**
FIELD STAFF														
General Super	125	/wk	4989	mh	$ 219.95	hr	$ 1,097,256	$ -	$ 84,806	$ -	$ -	$ 9,456.50	/wk	$ 1,182,062
Superintendent	125	/wk	3741	mh	$ 202.59	hr	$ 757,965	$ -	$ 63,604	$ -	$ -	$ 6,572.55	/wk	$ 821,569
Regional H&S Mgr	125	/wk	499	mh	$ 191.01	hr	$ 95,284	$ -	$ 8,481	$ -	$ -	$ 830.12	/wk	$ 103,765
H&S Manager	125	/wk	4989	mh	$ 173.65	hr	$ 866,260	$ -	$ 84,806	$ -	$ -	$ 7,608.53	/wk	$ 951,066
Constr Specialist 1	125	/wk	4989	mh	$ 115.76	hr	$ 577,490	$ -	$ 4,989	$ -	$ -	$ 4,659.82	/wk	$ 582,478
Constr Specialist 2	125	/wk	4989	mh	$ 138.92	hr	$ 692,987	$ -	$ 4,989	$ -	$ -	$ 5,583.81	/wk	$ 697,976
Constr Specialist 3	125	/wk	4989	mh	$ 173.65	hr	$ 866,260	$ -	$ 84,806	$ -	$ -	$ 7,608.53	/wk	$ 951,066
Sr QC Mgr	125	/wk	499	mh	$ 272.04	hr	$ 135,711	$ -	$ 8,481	$ -	$ -	$ 1,153.54	/wk	$ 144,192
Quality Control Manager	125	/wk	4989	mh	$ 225.74	hr	$ 1,126,118	$ -	$ 84,806	$ -	$ -	$ 9,687.39	/wk	$ 1,210,923
General Foreman	125	/wk	4989	mh	$ 138.92	hr	$ 692,987	$ -	$ 74,878	$ -	$ -	$ 6,142.93	/wk	$ 767,866
General Foreman	125	/wk	2494	mh	$ 138.92	hr	$ 346,494	$ -	$ 37,439	$ -	$ -	$ 3,071.46	/wk	$ 383,933
FIELD STAFF	**125**	**/wk**	**42153**	**mh**			**$ 7,254,813**	**$ -**	**$ 542,083**	**$ -**	**$ -**	**$ 62,375.17**	**/wk**	**$ 7,796,896**
ESTIMATING														
Sr. Estimator	125	/wk	499	mh	$ 179.43	hr	$ 89,512	$ -	$ 499	$ -	$ -	$ 720.09	/wk	$ 90,011
Chief Estimator	125	/wk	125	mh	$ 167.85	hr	$ 20,934	$ -	$ 125	$ -	$ -	$ 168.47	/wk	$ 21,058
ESTIMATING	**125**	**/wk**	**624**	**mh**			**$ 110,446**	**$ -**	**$ 624**	**$ -**	**$ -**	**$ 888.56**	**/wk**	**$ 111,069**
PROJECT CONTROLS														
Sr Project Controls	125	/wk	1247	mh	$ 277.83	hr	$ 346,494	$ -	$ 1,247	$ -	$ -	$ 2,781.93	/wk	$ 347,741
PROJECT CONTROLS	**125**	**/wk**	**1247**	**mh**			**$ 346,494**	**$ -**	**$ 1,247**	**$ -**	**$ -**	**$ 2,781.93**	**/wk**	**$ 347,741**
CLERICAL STAFF														
Project Admin	125	/wk	1871	mh	$ 86.82	hr	$ 162,424	$ -	$ 1,871	$ -	$ -	$ 1,314.36	/wk	$ 164,295
Lead Project Admin	125	/wk	1871	mh	$ 104.19	hr	$ 194,913	$ -	$ 1,871	$ -	$ -	$ 1,574.27	/wk	$ 196,783
CLERICAL STAFF	**125**	**/wk**	**3741**	**mh**			**$ 357,336**	**$ -**	**$ 3,741**	**$ -**	**$ -**	**$ 2,888.62**	**/wk**	**$ 361,078**
TRAVEL & SUBSISTENCE														
Area Lead Airfare	24	/Trips									$ 14,400	$ 600.00	/Trips	$ 14,400
Area Lead Car Rental	24	/Trips									$ 20,160	$ 840.00	/Trips	$ 20,160
Area Lead Hotel	24	/Trips									$ 24,000	$ 1,000.00	/Trips	$ 24,000
Area Lead Meals	24	/Trips									$ 12,000	$ 500.00	/Trips	$ 12,000
Assistant PM Car Rental	48	/Trips									$ 40,320	$ 840.00	/Trips	$ 40,320
Assistant PM Hotel	48	/Trips									$ 48,000	$ 1,000.00	/Trips	$ 48,000
Assistant PM Meals	48	/Trips									$ 24,000	$ 500.00	/Trips	$ 24,000
CS Car Rental	125	/Trips									$ 105,000	$ 840.00	/Trips	$ 105,000
CS Hotel	125	/Trips									$ 125,000	$ 1,000.00	/Trips	$ 125,000
CS Meals	125	/Trips									$ 62,500	$ 500.00	/Trips	$ 62,500
Per Diem - General Superintendent	125	/Wks									$ 93,750	$ 750.00	/Wks	$ 93,750

CONSTRUCTION GCs

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CONSTRUCTION GCs

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
Per Diem - Superintendent	125	/Wks									$ 93,750	$ 750.00	/Wks	$ 93,750
Per Diem - Quality Control Manager	125	/Wks									$ 93,750	$ 750.00	/Wks	$ 93,750
Per Diem - H&S Manager	125	/Wks									$ 93,750	$ 750.00	/Wks	$ 93,750
Per Diem - General Foreman (1 of 2)	65	/Wks									$ 48,750	$ 750.00	/Wks	$ 48,750
TRAVEL & SUBSISTENCE											$ 899,130			$ 899,130
TRAINING & ORIENTATION														
PreHire/Orientation	4	/Ea									$ 10,000	$ 2,500.00	/Ea	$ 10,000
OSHA 10 Training	4	/Ea									$ 2,000	$ 500.00	/Ea	$ 2,000
Specific Training	4	/Ea									$ 2,000	$ 500.00	/Ea	$ 2,000
TRAINING & ORIENTATION											$ 14,000			$ 14,000
TEMP TELEPHONE & COMM														
Internet Hotspots	4	/Ea									$ 600	$ 150.00	/Ea	$ 600
Internet Monthly	125	/Mon									$ 31,250	$ 250.00	/Mon	$ 31,250
TEMP TELEPHONE & COMM											$ 31,850			$ 31,850
CDM FIELD OFFICES														
CDM Office Trailer	48	/Mon									$ 96,000	$ 2,000.00	/Mon	$ 96,000
CDM Trailer Mob/Demob	2	/Ea									$ 10,000	$ 5,000.00	/Ea	$ 10,000
CDM FIELD OFFICES											$ 106,000			$ 106,000
CDM FIELD OFFICE EQUIP/SUPPLY														
CDM Furniture LS	1	/LS									$ 5,000	$ 5,000.00	/LS	$ 5,000
CDM Copier/Printer	2	/Ea									$ 3,000	$ 1,500.00	/Ea	$ 3,000
CDM Office Supplies	24	/Mon									$ 18,000	$ 750.00	/Mon	$ 18,000
CDM Drinking Water	24	/Mon									$ 7,200	$ 300.00	/Mon	$ 7,200
Aerial Photo	6	/Ea									$ 9,000	$ 1,500.00	/Ea	$ 9,000
Cleaning Service	24	/Mon									$ 15,600	$ 650.00	/Mon	$ 15,600
CDM FIELD OFFICE EQUIP/SUPPLY											$ 57,800			$ 57,800
TEMP FACILITIES														
Water Connection	1	/Ea									$ 1,000	$ 1,000.00	/Ea	$ 1,000
Water Usage	24	/Mon									$ 9,600	$ 400.00	/Mon	$ 9,600
Sanitary Connection	1	/Ea									$ 650	$ 650.00	/Ea	$ 650
Elec Connection	1	/Ea									$ 2,500	$ 2,500.00	/Ea	$ 2,500
Elec Usage	24	/Mon									$ 9,600	$ 400.00	/Mon	$ 9,600
Mob & Set-up	1	/Ea									$ 14,500	$ 14,500.00	/Ea	$ 14,500
Demob	1	/Ea									$ 20,265	$ 20,265.00	/Ea	$ 20,265
Site Vehicles	24	/Mon									$ 8,400	$ 350.00	/Mon	$ 8,400
ATVs	24	/EA									$ 8,400	$ 350.00	/EA	$ 8,400
Conex Boxes	45	/Ea									$ 4,500	$ 100.00	/Ea	$ 4,500
Temp Fencing	60000	lfmo									$ 19,200	$ 0.32	lfmo	$ 19,200
Site Maintenance	120	/Wks									$ 78,720	$ 656.00	/Wks	$ 78,720
Temp Constr Power	125	/Wks									$ 125,000	$ 1,000.00	/Wks	$ 125,000
Final Clean-up	10	/LS									$ 25,000	$ 2,500.00	/LS	$ 25,000
TEMP FACILITIES											$ 327,335			$ 327,335
CONSTR EQUIP & SMALL TOOLS														
Misc Small Tools	58990	/Mh							$ 176,970			$ 3.00	/Mh	$ 176,970
CONSTR EQUIP & SMALL TOOLS									$ 176,970					$ 176,970
VDC EQUIP/DRONES														
VDC Equip Rental	24	/Mon									$ 120,000	$ 5,000.00	/Mon	$ 120,000
VDC EQUIP/DRONES											$ 120,000			$ 120,000
SAFETY														
Safety Supplies	58990	/Mh							$ 33,034			$ 0.56	/Mh	$ 33,034

CONSTRUCTION GCs

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
SAFETY									$ 33,034		$ -			$ 33,034
SECURITY/TRAFFIC CONTROL														
Project Sign	1	/Ea									$ 2,500	$ 2,500.00	/Ea	$ 2,500
SECURITY/TRAFFIC CONTROL											$ 2,500			$ 2,500
CONTRACT REQUIREMENTS														
Textura Accounting	1	/LS									$ 25,000	$ 25,000.00	/LS	$ 25,000
Predictive Solutions	1	/LS									$ 5,000	$ 5,000.00	/LS	$ 5,000
Tablets	8	/Ea									$ 8,000	$ 1,000.00	/Ea	$ 8,000
CONTRACT REQUIREMENTS											$ 38,000			$ 38,000
Subtotal							$ 10,840,586		$ 862,958		$ 1,596,615			$ 13,300,159
Sales Tax	7.50%													$ 119,746
Subtotal w/ Taxes														$ 13,419,905
CCI G&A	7.60%													$ 186,928
CCI FEE	0.65%													$ 15,987
CONSTRUCTION GCs TOTAL														**$ 13,622,820**

STARTUP & COMMISSIONING STAF

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
STARTUP & COMMISSIONING STAFFING														
PROJECT MANAGEMENT STAFF														
Area Leader	67	/wk	133	mh	$ 291.72	hr	$ 38,840	$ -	$ 2,263	$ -	$ -	$ 614.80	/wk	$ 41,104
DB Project Manager	67	/wk	399	mh	$ 273.49	hr	$ 109,240	$ -	$ 6,790	$ -	$ -	$ 1,735.49	/wk	$ 116,030
Elec Delivery Lead	67	/wk	0	mh	$ 24.87	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Assistant PM	67	/wk	399	mh	$ 194.48	hr	$ 77,681	$ -	$ 399	$ -	$ -	$ 1,167.87	/wk	$ 78,080
I&C Integration Mgr	67	/wk	0	mh	$ 224.87	hr	$ -	$ -	$ -	$ -	$ -	$ -	/wk	$ -
Project Account	67	/wk	133	mh	$ 121.55	hr	$ 16,184	$ -	$ 133	$ -	$ -	$ 244.05	/wk	$ 16,317
VDC Mgr	67	/wk	399	mh	$ 151.94	hr	$ 60,689	$ -	$ 399	$ -	$ -	$ 913.72	/wk	$ 61,089
Lead Procurement	67	/wk	266	mh	$ 91.16	hr	$ 24,275	$ -	$ 266	$ -	$ -	$ 367.06	/wk	$ 24,541
Procurement Manager	67	/wk	266	mh	$ 164.09	hr	$ 43,695	$ -	$ 266	$ -	$ -	$ 657.54	/wk	$ 43,961
PROJECT MANAGEMENT STAFF	**67**	**/wk**	**1997**	**mh**			**$ 370,603**	**$ -**	**$ 10,518**	**$ -**	**$ -**		**/wk**	**$ 381,121**
FIELD STAFF														
General Super	67	/wk	399	mh	$ 230.95	hr	$ 92,248	$ -	$ 6,790	$ -	$ -	$ 1,481.34	/wk	$ 99,038
Regional H&S Mgr	67	/wk	133	mh	$ 200.56	hr	$ 26,703	$ -	$ 2,263	$ -	$ -	$ 433.26	/wk	$ 28,967
H&S Manager	67	/wk	266	mh	$ 182.33	hr	$ 48,552	$ -	$ 4,527	$ -	$ -	$ 793.91	/wk	$ 53,079
Constr Specialist 1	67	/wk	399	mh	$ 121.55	hr	$ 48,551	$ -	$ 399	$ -	$ -	$ 732.16	/wk	$ 48,950
Constr Specialist 2	67	/wk	200	mh	$ 145.86	hr	$ 29,130	$ -	$ 200	$ -	$ -	$ 438.70	/wk	$ 29,330
Quality Control Manager	67	/wk	399	mh	$ 237.02	hr	$ 94,673	$ -	$ 6,790	$ -	$ -	$ 1,517.61	/wk	$ 101,463
General Foreman	67	/wk	399	mh	$ 145.86	hr	$ 58,261	$ -	$ 5,995	$ -	$ -	$ 961.10	/wk	$ 64,256
General Foreman	67	/wk	399	mh	$ 145.86	hr	$ 58,261	$ -	$ 5,995	$ -	$ -	$ 961.10	/wk	$ 64,256
FIELD STAFF	**67**	**/wk**	**2596**	**mh**			**$ 456,378**	**$ -**	**$ 32,961**	**$ -**	**$ -**		**/wk**	**$ 489,339**
ESTIMATING														
Sr. Estimator	67	/wk	67	mh	$ 188.40	hr	$ 12,542	$ -	$ 67	$ -	$ -	$ 188.59	/wk	$ 12,609
ESTIMATING	**67**	**/wk**	**67**	**mh**			**$ 12,542**	**$ -**	**$ 67**	**$ -**	**$ -**		**/wk**	**$ 12,609**
PROJECT CONTROLS														
Sr Project Controls	67	/wk	133	mh	$ 291.72	hr	$ 38,840	$ -	$ 133	$ -	$ -	$ 582.94	/wk	$ 38,974
PROJECT CONTROLS	**67**	**/wk**	**133**	**mh**			**$ 38,840**	**$ -**	**$ 133**	**$ -**	**$ -**		**/wk**	**$ 38,974**
CLERICAL STAFF														
Project Admin	67	/wk	200	mh	$ 91.16	hr	$ 18,206	$ -	$ 200	$ -	$ -	$ 275.30	/wk	$ 18,406
Lead Project Admin	67	/wk	200	mh	$ 109.40	hr	$ 21,849	$ -	$ 200	$ -	$ -	$ 329.78	/wk	$ 22,048
CLERICAL STAFF	**67**	**/wk**	**399**	**mh**			**$ 40,055**	**$ -**	**$ 399**	**$ -**	**$ -**		**/wk**	**$ 40,454**
COMMISSIONING														
Commissioning Manager	67	/wk	1331	mh	$ 230.95	hr	$ 307,493	$ -	$ 1,331	$ -	$ -	$ 4,619.18	/wk	$ 308,825
Commissioning Lead	67	/wk	2663	mh	$ 212.71	hr	$ 566,416	$ -	$ 2,663	$ -	$ -	$ 8,511.87	/wk	$ 569,079
COMMISSIONING	**67**	**/wk**	**3994**	**mh**			**$ 873,910**	**$ -**	**$ 3,994**	**$ -**	**$ -**		**/wk**	**$ 877,904**
TRAVEL & SUBSISTENCE														
Area Lead Airfare	2	/Trips									$ 1,200	$ 600.00	/Trips	$ 1,200
Area Lead Car Rental	2	/Trips									$ 1,680	$ 840.00	/Trips	$ 1,680
Area Lead Hotel	2	/Trips									$ 2,000	$ 1,000.00	/Trips	$ 2,000
Area Lead Meals	2	/Trips									$ 1,000	$ 500.00	/Trips	$ 1,000
Proj Mgr Car Rental	4	/Trips									$ 3,360	$ 840.00	/Trips	$ 3,360
Assistant PM Car Rental	4	/Trips									$ 4,000	$ 1,000.00	/Trips	$ 4,000
Assistant PM Hotel	4	/Trips									$ 2,000	$ 500.00	/Trips	$ 2,000
Assistant PM Meals														$ -
CS Car Rental	2	/Trips									$ 1,680	$ 840.00	/Trips	$ 1,680
CS Hotel	2	/Trips									$ 2,000	$ 1,000.00	/Trips	$ 2,000
CS Meals	2	/Trips									$ 1,000	$ 500.00	/Trips	$ 1,000
Commiss Airfare	7	/Trips									$ 4,200	$ 600.00	/Trips	$ 4,200

MMISSIONING

STARTUP & COMMISSIONING

Cost Item	Takeoff Quantity		Labor Manhours		Labor Rate		Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost		Total Amount
Commiss Car Rental	7	/Trips									$ 5,880	$ 840.00	/Trips	$ 5,880
Commiss Hotel	7	/Trips									$ 11,200	$ 1,600.00	/Trips	$ 11,200
Per Diem - General Superintendent	10	/Wks									$ 7,500	$ 750.00	/Wks	$ 7,500
Per Diem - Superintendent	10	/Wks									$ 7,500	$ 750.00	/Wks	$ 7,500
Per Diem - Quality Control Manager	10	/Wks									$ 7,500	$ 750.00	/Wks	$ 7,500
Per Diem - H&S Manager	10	/Wks									$ 7,500	$ 750.00	/Wks	$ 7,500
Per Diem - General Foreman (1 of 2)	10	/Wks									$ 7,500	$ 750.00	/Wks	$ 7,500
TRAVEL & SUBSISTENCE											$ 78,700			$ 78,700
TRAINING & ORIENTATION														
PreHire/Orientation	2	/Ea									$ 5,000	$ 2,500.00	/Ea	$ 5,000
OSHA 10 Training	2	/Ea									$ 1,000	$ 500.00	/Ea	$ 1,000
Specific Training	2	/Ea									$ 1,000	$ 500.00	/Ea	$ 1,000
TRAINING & ORIENTATION											$ 7,000			$ 7,000
CDM FIELD OFFICE EQUIP/SUPPLY														
CDM Office Supplies	4	/Mon									$ 3,000	$ 750.00	/Mon	$ 3,000
CDM Drinking Water	4	/Mon									$ 1,200	$ 300.00	/Mon	$ 1,200
Cleaning Service	4	/Mon									$ 2,600	$ 650.00	/Mon	$ 2,600
CDM FIELD OFFICE EQUIP/SUPPLY											$ 6,800			$ 6,800
TEMP FACILITIES														
Water Usage	4	/Mon									$ 1,600	$ 400.00	/Mon	$ 1,600
Elec Usage	4	/Mon									$ 1,600	$ 400.00	/Mon	$ 1,600
Site Vehicles	4	/Mon									$ 1,400	$ 350.00	/Mon	$ 1,400
ATVs	4	/Mon									$ 1,400	$ 350.00	/Mon	$ 1,400
Conex Boxes	1	/Mon									$ 100	$ 100.00	/Mon	$ 100
Temp Constr Power	10	/Wks									$ 10,000	$ 1,000.00	/Wks	$ 10,000
Final Clean-up	1	/LS									$ 2,500	$ 2,500.00	/LS	$ 2,500
TEMP FACILITIES											$ 18,600			$ 18,600
CONTRACT REQUIREMENTS														
Textura Accounting	0	/LS											/LS	$ -
Predictive Solutions	0	/LS											/LS	$ -
LCP Certified Payroll	0	/LS											/LS	$ -
CONTRACT REQUIREMENTS											$ -			$ -
Subtotal							$ 1,792,328		$ 48,073		$ 111,100			$ 1,951,500
Sales Tax	7.50%													$ 1,395
Subtotal w/ Taxes														$ 1,952,895
CCI G&A	7.60%													$ 12,097
CCI FEE	0.65%													$ 1,035
STARTUP & COMMISSIONING TOTAL														$ 1,966,027
GC COST REPORT *(Precon/Prelimanary Services + Construction GC's + Startup & Commissioning)*														$ 17,271,900

Attachment 5

Final Design & Engineering Services During Construction

ATTACHMENT A

Veolia PHASE 2, PROGRESSIVE DESIGN-BUILD PROJECT CIP PROJECT 01014

PHASE 2 ENGINEERING SERVICES

February 24, 2025

PURPOSE

This Attachment A sets forth the Phase 2 Engineering Services scope of work to be provided by the Design Builder in the development of the Guaranteed Maximum Price for the TBW Regional Surface Water Treatment Plant Expansion Project. This scope supersedes previous versions prior to date of this document.

ORGANIZATION

Task 1 – Issue For Construction Plans & Specifications

- Subtask 1.1 Task Management / QA / Coordination / Meetings
- Subtask 1.2 Permitting / Permitting Coordination
- Subtask 1.3 Incorporate Permit Comments / Vendor Changes
- Subtask 1.4 Final Review of Plans and Specifications
- Subtask 1.5 Issued For Construction Documents Package

Task 2 – Engineering Services During Construction

- Subtask 2.1 Task Management / Coordination / Meetings
- Subtask 2.2 Requests for Information (RFI) and Clarifications
- Subtask 2.3 Design Clarifications, Changes, and Change Orders
- Subtask 2.4 Review of Submittals and Substitutions
- Subtask 2.5 Factory Inspection / Witness Site / Acceptance Testing
- Subtask 2.6 Site Visits / Inspections
- Subtask 2.7 Mechanical Completions and Punch-Lists
- Subtask 2.8 Commissioning and Start-Up Support
- Subtask 2.9 O&M Plan - Manual / SOP / Training
- Subtask 2.10 Record Drawings
- Subtask 2.11 Quality Assurance / Quality Control
- Subtask 2.12 Permit and Project Closeout

DELIVERABLES

Deliverable Review by Company

Deliverables are to be submitted in draft form for review by the Company and Owner. Unless otherwise noted on the Project Schedule, the Company and Owner will provide comments within two weeks of the deliverable and the Design Builder will respond to the Owner's comments by revising the draft deliverable within two weeks thereafter. Wherever Design Builder chooses to not make a change suggested by the Owner, Design Builder will provide a written response explaining its rationale.

TASK 1 - ISSUE FOR CONSTRUCTION PLANS & SPECIFICATIONS

Subtask 1.1 – Task Management / QA / Coordination / Meetings

The Design Builder will provide the necessary task management and coordination of Final Design Services (Issued for Construction (IFC)). Management shall also include the following elements:

Project Management / Quality Assurance and Control

Within 30 days of issuance of the Notice to Proceed, the Design Builder shall submit a draft Updated Project Management Plan to communicate basic Project requirements and approach to its Project team to document standard project management and quality requirements. This plan will closely parallel the Phase 1 approach specified by the Design Builder. The Project Management Plan shall identify the project team including team members, their roles, responsibilities, and contact information. This also describes protocols for communication between team members and with the Owner so that team members are up to date on Project developments.

Project Coordination and Communication

The Design Builder shall conduct general coordination and communication with the Design Builder's Project Team, the Company, and Owner regarding issues as they arise, including scheduling, progress of Project activities etc. Such coordination shall include regular meetings and updates as required by the Agreement, defined below.

Meetings

Internal IFC Progress Meetings

The Design Builder will conduct weekly progress meetings with design staff to coordinate the execution of the work to deliver sealed and signed Final Design Issue for Construction plans and specifications.

Company Progress Meetings

The Design Builder will attend weekly progress meetings with the Company to provide updates on status of design and to coordinate the execution of the work to deliver sealed and signed Final Design Issue for Construction plans and specifications.

Owner Progress Meetings

The Design Builder will attend monthly progress meetings with the Company and Owner to provide updates on status of design and to coordinate the execution of the work to deliver sealed and signed Final Design Issue for Construction plans and specifications.

Deliverables:

1. Updated Project Management Plan
2. Attend up to eight, 2-hour weekly meetings with the Company
3. Attend up to two, 1.5-hour monthly meetings with the Company and Owner

Assumptions:

1. Up to two staff will attend each weekly and monthly meeting

Subtask 1.2 – Permitting / Permitting Coordination

Dry Run Permitting Submittal

The Preliminary Plan Review process by Hillsborough County allows the project design team time to meet with the building plan examination staff to present design documents, discuss code items, and inquire about the process prior to submitting for a permit. In an effort to reduce risk to schedule, the Design Builder will meet with the County building department and review the 90% design to present the design and discuss the permitting process, any potential code issues, and permitting fees.

Coordination and Support

1. Periodically meeting with Company and Owner regarding the strategy and status for obtaining permits.
2. Conducting any required field studies, technical analysis or evaluations to support the permit/approval applications process.
3. Prepare drawing and specification packages for County Review.
4. For permits and approvals identified as Design Builder's responsibilities, develop permit / approval applications and supporting documentation to meet the requirements of the governmental and non-governmental entities issuing the permits and approvals. Provide Company / Owner with a draft of all applications for review and concurrence prior to submittal to the approving entity. Obtain Owner signatures and other signatures as needed for the applications.
5. For any permits and approvals identified as Owner's responsibilities, support development of permit/approval applications and develop supporting documentation necessary for each permit/approval.
6. Actively monitor the status of permit/approval processing and respond to requests for clarification, additional information, and application revisions by the approving entities.
7. Attend meetings with the approving entities to expedite permit processing. Notify Company / Owner in advance of such meetings for possible Owner attendance. Develop draft agenda and meeting minutes for distribution to the approval entities and Owner. Develop final agenda and meeting minutes incorporating changes and addressing comments.

8. Report to Company / Owner once the permit or approval has been obtained. The Design-Builder shall prepare and submit the required permit applications.

Deliverables:

1. Draft, final, and revised applications for all regulatory permits and approvals listed as Design Builder Responsibility in the Design Build Agreement and identified as being required prior to the Contract Price Amendment
2. Draft, final and revised technical studies for permit and approval applications, including both Design Builder and Owner obtained permits and approvals
4. Draft and final agenda and draft and final meeting minutes from meetings with permitting entities.

Subtask 1.3 – Incorporate Vendor and Subcontractor Changes

The Design Builder will incorporate drawing and specification revisions to true-up construction documents as a result of approved changes/modifications from vendors subcontractor supplying equipment and services to the project.

Subtask 1.4 – Final Review of Plans and Specifications

The Design Builder's Engineer of Record will perform a final review of the plans and specifications to verify they meet the project intent and requirements.

Subtask 1.5 – Issued for Construction (IFC) Documents Package

Develop and submit IFC drawings, specifications, and documents listed below. The IFC submittal shall include sealed and signed drawings and specifications of the revised 100% Issued for Permitting drawings and specifications as well as the following updated documents:

1. Refinements to design criteria and process calculations
2. Final hydraulic profile and elevation of structures
3. Updated process piping design
4. Updated equipment sizing
5. Updated process control narratives
6. Updated Process and Instrumentation Diagrams (P&IDs)
7. Final material and equipment selections
8. Fire protection plan
9. Structural design elements in accordance with final Geotechnical Report recommendations
10. Power supply system
11. Summary of status of permits
12. Identification of design development since the Issue For Permit documents.

Deliverables:

1. Construction Documents comprised of IFC version of specifications and drawings.

TASK 2 – ENGINEERING SERVICES DURING CONSTRUCTION

The Design Builder will provide services during construction that will include:

1. Task Management / Coordination / Meetings
2. Respond to request for information (RFIs)
3. Respond to design clarifications and review/approve any proposed change orders upon issuance of a work change directive
4. Review of shop drawings and submittals
5. Perform factory inspections, witness factory tests, and inspect equipment at factory
6. Periodic site visits to observe ongoing construction at key milestones and perform specialty site inspections
7. Review mechanical completions and develop punch list items
8. Support commissioning and start-up of equipment and processes
9. Assist Company in the development of O&M manual, standard operating procedures, training materials
10. Prepare record drawings
11. Provide project QA/QC oversight and auditing
12. Finalize permitting and closeout project

These tasks are further defined in the following subsections.

Subtask 2.1 – Task Management / Coordination / Meetings

The Design Builder will provide the necessary task management and coordination of Engineering Services During Construction (ESDC). Management shall also include the following elements:

Project Coordination and Communication

The Design Builder shall conduct general coordination and communication with the Design Builder's Project Team, the Company, and Owner regarding issues as they arise, including scheduling, progress of project activities such as responding to RFIs, review of shop drawings, etc. Such coordination shall include regular meetings and updates as required by the Agreement, defined below.

Meetings

Weekly Construction Progress Meetings

The Design Builder's ESDC project technical lead and/or one of the discipline technical leads will attend weekly on-site progress meetings during construction with Company, Owner, and Subcontractors to support, address, and resolve technical issues impacting construction activities.

Company Progress Meetings

The Design Builder will attend weekly progress meetings with the Company to provide updates on status of design and to coordinate the execution of the work to deliver sealed and signed Final Design Issue for Construction plans and specifications.

Owner Progress Meetings

The Design Builder will attend monthly progress meetings with the Company and Owner to provide updates on status of design and to coordinate the execution of the work to deliver sealed and signed Final Design Issue for Construction plans and specifications.

Construction Engineering Coordination

The Construction Engineering Coordinator will manage the flow of information and documentation from the Engineer into the Construction Management Software (CMS). Of significant importance is the monitoring of responsiveness to submittal and request for information. CMS management includes the updates to schedules, change orders, RFI, submittals, O&M, warranties, substitution requests, and many other construction management documentation. The Coordinator is responsible for maintaining this information on behalf of the Engineer.

The Construction Engineering Coordinator will prepare a construction submittal protocol. The protocol will establish procedures for submitting and documenting shop drawings, RFIs, Owner requested design modifications, change order requests from others, testing procedures, and other documentation as required.

The Coordinator will identify non-conforming work observed and recommend action to alleviate an emergency situation. Promptly recommend action by the Design Builder to initiate corrective procedures for defective work and coordinate special materials tests and performance tests needed to complete a high quality project.

The Coordinator will also be responsible for interpreting the intent of the plans and specifications.

Subtask 2.2 – Requests for Information (RFI) and Clarifications

The Design Builder provide support services during construction to answer technical requests for information (RFI) submitted for the purpose of clarifying design intent or specific features presented in the final design drawings and specifications. The fee is based on 280 RFIs. Additional RFIs will be considered a change.

Subtask 2.3 – Design Changes and Change Orders

Design Changes and Change Orders are excluded from Engineering Services During Construction scope. When requested, the Design Builder will provide the necessary engineering services to develop and execute a change order. The work includes defining the change order, developing the necessary change order documents, and attending meetings to discuss and negotiate the change order. The hourly rates for the engineering support of each change order will be at the agreed fee schedule at the time of the change order approval.

Subtask 2.4 – Review of Submittals and Substitutions

The Design Builder design staff will follow the construction submittal protocol that establishes procedures for submitting, reviewing and filing of submittals. Equipment and materials submittals, test reports, and O&M manuals will be reviewed for conformance with the Drawings and Specifications to verify that the design intent of the Project is maintained. The submittal

process is assumed to be fully electronic with all submittals maintained in the document control system (DCS) where they can be accessed for viewing by the Owner. The document management system (or Construction Management Software) will be e-Builder. It is assumed that the Company and Owner will participate in the submittal review process as defined in the Division 0 documents provided with the GMP submission. Hardcopy submittals are not anticipated to be required for the Project, other than for samples.

This task also includes design team liaison to the field team during critical periods of submittal reviews and approvals to coordinate resolution of issues quickly to allow work to proceed efficiently and timely.

Subtask 2.5 – Factory Inspection / Witness / Acceptance Testing

The Design Builder will attend up to 12 factory inspections, testing, and/or acceptance events. These are specific visits by qualified engineers to inspect and observe testing of the equipment to be supplied and ensure it meets the performance requirements of the specifications.

Subtask 2.6 – Site Visits / Inspections

The Design Builder design staff, from time to time, will make specialty site visits to observe work and to answer technical questions and assist with resolving field issues. The purpose for these visits is to assist in the timely resolution of Project issues, observing the work to confirm compliance with the design intent. The Design Builder has budgeted for up to 100 individual site visits by technical staff.

Subtask 2.6 Other Direct Costs (ODC) includes cost to validate 3rd party testing required by the rigid inclusion specialty subcontractor.

Subtask 2.7 – Mechanical Completions and Punch-Lists

The Design Builder design staff will conduct walk throughs of the facilities as they are completed to ensure they are ready for commissioning and startup. The Design Builder design staff will also conduct walk throughs with the Company and Owner for the development of punch-lists of the completed facilities prior to the beneficial use by Owner. These will include site visits from the Engineer of Record, Architect of Record, or their designee to visually inspect the completed work and identify remaining items necessary to achieve the requirements of the design.

The Design Builder's engineers will attend up to 18 mechanical completions inspections and punchlist walkthroughs.

Subtask 2.8 – Commissioning & Start-Up Support

Commissioning Planning

The Design Builder's engineers will work with the construction commissioning and start-up team to complete the draft and final Commissioning Plans that will detail the commission activities related to checkout, testing, and startup. The draft Commissioning Plan will be reviewed by the Company and Owner. Comments will be addressed and agreed upon prior to issuing the final Commissioning Plan.

Commissioning

During commissioning and start-up, the Design Builder's engineers will support the construction commissioning and start-up team with on-site engineers during equipment functional and performance testing and optimization of unit processes.

The Design Builder's engineers will attend up to 7 individual commissioning and start-up events for up to 5 days each.

Subtask 2.9 – O&M Plan - Manual / SOP / Training

The Design Builder will develop an operations and maintenance plan and manual for the new equipment supplied under this expansion project. This O&M Plan / Manual will be developed from information received from vendors.

The Design Builder will assist the Company in revising their Standard Operating Procedures (SOP) to include the 5th train, additional filters, additional chemicals systems, and additional belt filter press. The Design Builder will also assist the Company in developing new SOPs for new solids handling equipment.

The Design Builder will compile training materials and assist vendors in the training of Company personnel on equipment not new, novel equipment not operated by Company personnel.

The O&M Manual will be a digital, searchable, pdf file.

Subtask 2.10 – Record Drawings

During construction, the Design Builder will create and maintain a set red line drawings showing the field changes during construction. These drawing will be kept in the Design Builders construction trailer for review by the Company and/or Owner. These drawings will be used to back check the record drawings.

After substantial completion of the Project by the Owner, the Design Builder shall prepare and submit a set of Record Drawings modified to show changes made during the construction based on the Design Builder field as built drawings. One (1) round of updates/edits to the record drawings based on Owner comments is assumed. These drawings will be designated in the revision block as "construction record" drawings and will be sealed by the Architect or Engineer-of-Record, or Engineer having direct supervision of the work, indicating that the drawings have been revised to reflect record information based on information furnished by others in accordance with Florida regulations. Five, full size, hardcopy print of the Record Drawings, five half size hardcopy and one electronic copy of the Record Drawings will be provided.

Subtask 2.11 – Quality Assurance / Quality Control

The Design Builder will perform periodic internal audits to assure the Design Builder's quality control procedures are being followed per the project management plan.

Subtask 2.12 – Permit and Project Closeout

The Design Build design staff will assist the construction team in the final close out of permits at the end of the construction phase of the Project. This may require design revisions, addenda or preparation of supplemental sketches or details to further address and certify the project completion. This subtask will provide project administrative activities related to proper closing of the project in the Design Builder's delivery system. The oversight will confirm that project close-

out documents are reviewed for completion and distributed/filed as required. The list of documents may include certifications to the permitting authorities, record drawings, vendor O&M manuals, etc.

Key Deliverables - Task 2

1. Construction Submittal Protocol
2. Submittal Reviews
3. RFI Log
4. RFI Responses
5. Mechanical Completions and Punchlist Items Log
6. O&M Manual
7. Redline drawing set
8. Record Drawings
9. Permit and Project Closeout Log
10. Attend up to 114, 1-hour weekly construction meetings
11. Attend up to 122, 2-hour weekly progress meetings with the Company
12. Attend up to 37, 1.5-hour monthly meetings with the Company and Owner

Assumptions:

1. Up to two staff will attend each weekly and monthly meeting. There will be no additional charges for additional meetings or meetings extending the assumed length.
2. Design-Builder has included 280 RFIs as the basis of GMP, therefore if the total RFIs on the project range between 0 RFIs and 280 RFIs that scope is included within the lump sum amount of the Engineering Services During Construction (ESDCs) portion of the GMP. If the total number of RFIs required to successfully deliver the project exceeds 280 RFIs, the Design-Builder shall be entitled to additional costs in excess of the GMP for those RFIs in excess of 280 RFIs at a rate of $1,611.75 per RFI. In the event that required RFIs exceed 499 total RFIs, the Design-Builder shall still answer those RFIs as required, but Design-Builder shall not receive additional compensation above RFI 499.
3. The fee for submittals and shop drawing review is based on 290 original submittals and 145 resubmittals (including substitution requests). There will be no additional charges for additional shop drawing submittals.
4. The Design Builder will attend up to 12 factory inspections, testing, and/or acceptance events. There will be no additional charges for additional factory inspections.
5. The Design Builder's engineers have budgeted for up to 100 individual site visits by technical staff. There will be no additional charges for additional site visits.
6. The Design Builder's engineers will attend up to 18 mechanical completions inspections and punchlist walkthroughs. There will be no additional charges for additional onsite inspections and walkthroughs.
7. The Design Builder's engineers will attend up to 7 individual commissioning and start-up (CSU) events for up to 5 days each. There will be no additional charges for additional onsite CSU support.
8. O&M Plan / Manual will be a searchable PDF file based on information received and compiled from the vendors.

Veolia-TBW
RSWTP Expansion
100% IFC and ESDC Fee Summary

		Labor Catagories Hours															
		Vice President	Associate/Principal	Senior Technical Advisor/Specialist	Technical Advisor/Specialist	Senior Project Manager	Senior Professional	Professional	Project Engineer	Staff Engineer	Engineer I/II	Senior Designer	Designer	Administrative Assistant	Total Hours	Total Labor Cost	ODC	**TOTAL COST**
	Rate	$336.00	$304.50	$294.00	$257.25	$278.25	$304.50	$257.25	$231.00	$173.25	$131.25	$220.50	$168.00	$131.25	**16,392**	**$3,880,117.50**	**$118,283.70**	**$ 3,998,401.20**
Task No.	Description																	
1.0	**Issue for Construction Plans & Specifications**														**1,508.5**	**$ 362,334.00**	**$ 2,994.20**	**$ 365,328.20**
1.1	Task Management / QA / Coordination / Meetings	1.5	72		10	24									107.5	$ 31,678.50	$ -	$ 31,678.50
1.2	Dry Run / Permitting / Permitting Coordination		52			28	8	288	245						621.0	$ 156,744.00	$ 2,994.20	$ 159,738.20
1.3	Incorporate Vendor Changes / True-Up IFC			8	40		8	28	36	54		16	114		304.0	$ 62,632.50	$ -	$ 62,632.50
1.4	Final Review of Plans & Specifications			8	40		40	168	80						336.0	$ 86,520.00	$ -	$ 86,520.00
1.5	Issued for Construction (IFC) Documents Package							24		28		8	40	40	140.0	$ 24,759.00	$ -	$ 24,759.00
2.0	**Engineering Services During Construction**														**14,883.0**	**$ 3,517,783.50**	**$ 115,289.50**	**$ 3,633,073.00**
2.1	Task Management / Coordination / Meetings		331	1322	80	931		810	250						3,724.0	$ 1,035,210.75	$ -	$ 1,035,210.75
2.2	RFIs				280			560	280	560	280			280	2,240.0	$ 451,290.00	$ -	$ 451,290.00
2.3	Design Changes / Change Orders															$ -	$ -	$ -
2.4	Submittal / Shop Drawing Reviews			120	900		410	560	856	946	560			145	4,497.0	$ 989,871.75	$ -	$ 989,871.75
2.5	Factory Inspection / Witness / Acceptance Testing				300				180						480.0	$ 118,755.00	$ 27,360.00	$ 146,115.00
2.6	Site Visits / Inspections			80	96		104	410	402	320					1,412.0	$ 333,658.50	$ 53,003.00	$ 386,661.50
2.7	Mechanical Completions / Punch List							336							336.0	$ 86,436.00	$ 11,984.00	$ 98,420.00
2.8	Commissioning & Start-Up Support					280		280							560.0	$ 149,940.00	$ 12,640.00	$ 162,580.00
2.9	O&M Plan - Manual / SOP / Training			8	42		24	72	40	16					202.0	$ 50,998.50	$ -	$ 50,998.50
2.10	Record Drawings						44	96	244	56			620		1,060.0	$ 208,320.00	$ 10,302.50	$ 218,622.50
2.11	QA/QC			72	36										108.0	$ 30,429.00	$ -	$ 30,429.00
2.12	Permitting & Project Closeout			60				60	84	60					264.0	$ 62,874.00	$ -	$ 62,874.00

Veolia-TBW
RSWTP Expansion
100% IFC ESDC Meetings LOE

The phase 2 schedule is currently showing 37 months (160 weeks) from NTP to Contract Close-out and 28 months (120 weeks) from start of construction to substantial completion.

Weekly construction meetings 1-hour each, 28 months, 114 meetings.

Weekly progress meetings, 37 months, 2-hours each

TBW Monthly Status Meetings: 37 months, 1 1/2 hour each

			No. of Meetings Attended				
Activity	No. of Meetings	Meeting Length (hr)	PM	Engineering Mgr	Technical	TOTAL	Notes
Construction Meeting	114	1	36	114	114	264	Sept 2025 through Dec 2027, minus 6 meetings
Velia Progress Meetings	122	2	80	244		324	April 2025 through May 2028, minus 38 meetings
TBW Monthly Status Meetings	37	1.5	55.5			55.5	April 2025 through May 2028
TOTAL	273		**171.5**	**358**	**114**	**643.5**	

February 24, 2025

Veolia-TBW
RSWTP Expansion
100% IFC
Subtask 1.2

Disciplines and Number of Engineers Represented:
Civil (2), Structural (2), Architectural (1), HVAC (1), Electrical (2), Plumbing (1), Fire Protection (1), Process Mechanical (4)

Each County Meeting focuses on different disciplines.

Duration of Dry Run activities - 8 weeks

			Hours				
Activity	No. of Meetings	Meeting Length (hr)	PM	Engineering Mgr	Technical	TOTAL	Notes
Coordination with Team and County			16	40	0	56	
Prepare for Dry Run	2	2	2	2	28	64	Internal (hours indicated hours per meeting)
County Meetings	6	2	2	2	8	72	Internal (hours indicated hours per meeting)
Meeting Minutes/ Action Items			8	8	40	56	
Respond to RFIs by Discipline					373	373	Assumes 1 hour per technical drawing
TOTAL	8					**621**	

RSWTP Expansion
ESDC
Subtasks 2.5, 2.6, 2.7, and 2.8

	Civil	Architectural	HVAC	Plumbing	Fire Protection	Structural	Geotech
2.5 Factory Acceptance Test - Equipment to be inspected.							
Total number of trips							
Duration of each trip onsite (days)							
Total Hours (includes office hours)							
Total Airfare ($750/trip)							
Total Rental Car ($60/d)							
Total Mileage ($0.70/mile)							
Total Hotel ($200/d)							
Total Meals ($80/d)							
2.6 Site Visits - Items to be inspected during site visit.	Yard piping conflicts/tie-ins, finished grading.	Ozone, Polymer Storage, Lime Buildings	Instalation - Ozone building hvac systems, polymer building hvac systems, dewatering building hvac systems, dry chemical building hvac systems.	Below grade sanitary piping installation.	Sprinkler systems for Ozone, Lime Buildings	Actiflo, Ozone Contactor, Ozone Building, Filters	Quality Assurance for Rigid Inclusion installations during construction.
Number of site visits	16	8	8	2	2	4	12
Duration of each trip onsite (days)	4	4	8	8	2	2	1
Total Hours (includes office hours)	60	32	80	24	40	72	96
Total Airfare ($750/trip)	$0	$0	$0	$0	$1,500	$0	$0
Total Rental Car ($60/d)	$0	$0	$0	$0	$360	$0	$0
Total Mileage ($0.70/mile)	336	84	1400	56	0	700	280
Total Hotel ($200/d)	$0	$0	$0	$0	$800	$800	$0
Total Meals ($80/d)	$0	$0	$320	$0	$480	$480	$0

RSWTP Expansion
ESDC
Subtasks 2.5, 2.6, 2.7, and 2.8

	Actiflo	Ozone`	Filters	Chemicals	Solids Handling	Electrical	Automation
2.5 Factory Acceptance Test - Equipment to be inspected.		Ozone generator/PSU	Filter Underdrains	Chemicals Tanks , Lime Slaking Equipment	Outage Season 1: Polymer Pumps (2), TS pump (1), Belt conveyor (1), Belt filter press (3), Screw conveyor (1) Outage Season 2: Belt conveyor (1), Belt filter presses (4)	MCC 6 A/B	GAC Filters (GAC5PLC), Chemical Feed (CFCP3), Sodium Hypochlorite Tank (TFP-7)
Total number of trips		1	1	2	6	1	1
Duration of each trip onsite (days)		3	5	3	5	2	5
Total Hours (includes office hours)		32	48	60	288	48	48
Total Airfare ($750/trip)		$750	$750	$1,500	$4,500	$750	$750
Total Rental Car ($60/d)		$240	$300	$480	$1,800	$180	$360
Total Mileage ($0.70/mile)		0	0	0	0	0	0
Total Hotel ($200/d)		$600	$800	$1,600	$6,000	$400	$1,200
Total Meals ($80/d)		$280	$400	$640	$2,400	$200	$480
2.6 Site Visits - Items to be inspected during site visit.	Installation, functional testing, performance and acceptance testing.	Operational Readiness Test and Functional Demonstration Test, Site Acceptance Test, and Performance Warranty.	Filter underdrains, washwater troughs and media placement - installation and testing.	Install of all chemical systems at various points during construction.	Pre-domolition, rental unit setup/testing, installation of equipment in BLDGs 1 & 2, substantial completion for solids drying area.	MCC 6 A/B, Actiflo, Ozone, Filter, and BFP electrical installations.	Functional demonstration tests.
Number of site visits	8	6	5	3	4	12	10
Duration of each trip onsite (days)	5	2	5	3	3	2	2
Total Hours (includes office hours)	188	96	240	96	80	188	120
Total Airfare ($750/trip)	$0	$3,750	$0	$2,250	$3,000	$0	$0
Total Rental Car ($60/d)	$0	$600	$0	$720	$1,200	$0	$0
Total Mileage ($0.70/mile)	700	0	875	0	0	1750	1760
Total Hotel ($200/d)	$3,200	$2,000	$4,000	$2,400	$2,400	$0	$2,000
Total Meals ($80/d)	$1,080	$800	$1,600	$960	$960	$600	$1,600

RSWTP Expansion
ESDC
Subtasks 2.5, 2.6, 2.7, and 2.8

	Civil	Architectural	HVAC	Plumbing	Fire Protection	Structural	Geotech
2.7 Mechanical Completions / Punchlist							
Number of site visits			2		2		
Duration of each trip onsite (days)			2		2		
Total Hours (includes office hours)			32		32		
Total Airfare ($750/trip)			$0		$0		
Total Rental Car ($60/d)			$0		$0		
Total Mileage ($0.70/mile)			350		350		
Total Hotel ($200/d)			$400		$400		
Total Meals ($80/d)			$320		$320		
2.8 Commissioning & Start-up Support							
Number of site visits							
Duration of each trip onsite (days)							
Total Hours (includes office hours)							
Total Airfare ($750/trip)							
Total Rental Car ($60/d)							
Total Mileage ($0.70/mile)							
Total Hotel ($200/d)							
Total Meals ($80/d)							

RSWTP Expansion
ESDC
Subtasks 2.5, 2.6, 2.7, and 2.8

	Actiflo	Ozone`	Filters	Chemicals	Solids Handling	Electrical	Automation
2.7 Mechanical Completions / Punchlist							
Number of site visits	2	2	2	2	2	2	2
Duration of each trip onsite (days)	2	3	2	3	3	2	2
Total Hours (includes office hours)	32	48	32	48	48	32	32
Total Airfare ($750/trip)	$0	$1,500	$0	$1,500	$1,500	$0	$0
Total Rental Car ($60/d)	$0	$360	$0	$360	$360	$0	$0
Total Mileage ($0.70/mile)	112	0	112	0	0	112	112
Total Hotel ($200/d)	$0	$800	$0	$800	$800	$0	$0
Total Meals ($80/d)	$80	$480	$80	$480	$480	$80	$80
2.8 Commissioning & Start-up Support							
Number of site visits	1	1	1	1	1	1	1
Duration of each trip onsite (days)	5	5	5	5	5	5	5
Total Hours (includes office hours)	80	80	80	80	80	80	80
Total Airfare ($750/trip)	$0	$750	$0	$750	$750	$0	$0
Total Rental Car ($60/d)	$0	$300	$0	$300	$300	$0	$0
Total Mileage ($0.70/mile)	175	0	175	0	0	175	175
Total Hotel ($200/d)	$800	$1,000	$800	$1,000	$1,000	$800	$800
Total Meals ($80/d)	$400	$400	$400	$400	$400	$400	$400

Attachment 6

Risk Register

RISK ASSESSMENT REGISTER

Updated: Risk Register per GMP Negotiations and R. Hagaman mark-up 2/15/2025.

Updated Dec-2024: S Solters, M Trzcinski, P Safirulla, D Sutter, E Andraos, R Hagaman, J Kraynek, M Balkaran

Project Name:	Veolia Water Surface WTP Expansion	**Input Provider:**	D. Sutter	
Project Number:	282964	**Run Date:**	2/16/2025	
CSL:	Patrick Victor	**Version:**	R8.1	
PMCL:	Tommy Floyd	**Risk$ + OH&P**	$	10,643,590
PMD:	Matt Trzinski	**Risk$ + Opp$**	$	9,832,416
PMC:	Steve Solters	**Risk$**	$	9,832,416
LCE:	Elias Andraos	**Opportunity$**	$	-
PCS:	Doug Sutter	**High Risk$**	$	6,653,866
		Schedule Days Risk		191

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RISK PROBABILITY ASSESSMENT		COST ASSESSMENT		SCHEDULE ASSESSMENT	
Rating	**Guideline**	**Impact Rating**	**Cost Impact Guideline**	**Rating**	**Guideline**
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Low **(L)**	30%	Marginal	$10,000 - $100,000	Marginal	1-2 Weeks
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High **(H)**	70%	Critical	>$500,000 - $1 million	Critical	> 4-8 Weeks
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PART ONE - Risk / Opportunity Identification								PART TWO	PART THREE - Contingency Planning					
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1	M		Technical / Engineering	Site Soil Conditions for Suitable Economical Foundations	$ - / Schedule (days): 0	R	Geotech in locations of final designed foundation to ensure good soils	Trzcinski	Contingency	Optimistic	$ -	50%	0	50%	Plan comprehensive geotechnical investigation in areas of structures
										Most Likely	$ -	40%	0	40%	
										Pessimistic	$ -	10%	0	10%	
2	M		Environmental	Standard Weather	$ 88,000 / Schedule (days): 29	R	Weather - Rain days delaying or impacting project progress up to the standard expected weather days.	Solters	Contractual Mitigation	Optimistic	$ 30,000	60%	15	50%	This accounts only for the baseline schedule dates that includes the normal weather to be assumed. NOAA rain gauge. All other weather day impacts to be claimed as additional costs.
										Most Likely	$ 140,000	30%	30	30%	
										Pessimistic	$ 280,000	10%	60	20%	
3	L		Environmental	Force Majeure preparations	$ 275,000 / Schedule (days): 3	R	Preform storm preparation activities including work stoppage to harden construction per safety plan.	Solters	Contingency	Optimistic	$ -	35%	0	75%	Update 16Feb2025: Owner to Carry BRI and include deductible costs. This risk is for storm preparations or other general weather preparation or cleanup including potential downtime. Definition of force majeure and contractual relief per agreement.
										Most Likely	$ 250,000	50%	5	15%	
										Pessimistic	$ 1,000,000	15%	20	10%	
4	L		Technical / Engineering	Design Definition Progression to GMP	$ - / Schedule (days): 0	R	Perform storm preparation activities including work stoppage to harden construction per safety plan.	Solters	Contingency	Optimistic	$ -	30%		25%	Updated 26Nov2024: Reduced Risk$ to $0.00. Contingency for design definition progression
										Most Likely	$ -	50%		50%	
										Pessimistic	$ -	20%		25%	
5	M		Regulatory	Permitting	$ 272,500 / Schedule (days): 7	R	Permitting plan has been developed, pre-application meetings have begun and initial permitting submittal(s) on-schedule and will be continuously monitored. Rigid Inclusions and Utility Relocations are a new development and require further investigation to mitigate. Pre-application meetings underway or to be scheduled with Agencies per schedule.	Solters	Allowance	Optimistic	$ -	30%	0	25%	Updated 16Feb2025: This is an Owner's Risk Item. GMP Permit Table assumes the permits and durations assumed as the basis of the GMP
										Most Likely	$ 50,000	45%	10	50%	
										Pessimistic	$ 1,000,000	25%	40	5%	
6	L		Operations	New operation for updated software and features, will require training personal and new practices to get operations running smoothly	$ - / Schedule (days): 7	R	Engage operators early including prior to startup & commissioning to let them be part of the startup & troubleshoot process to gain understanding and experience prior to full commissioning. Full owner training on every piece of new equipment/software including classroom and field time.	Solters	Contingency	Optimistic	$ -	75%	0	75%	Update: 16Feb2025: Zero out Risk per GMP negotiation. Price startup support necessary to facilitate the transition & carry startup contingency
										Most Likely	$ -	15%	20	15%	
										Pessimistic	$ -	10%	40	10%	

Red highlighting indicates Owner's Allowance (typical)

RISK ASSESSMENT REGISTER

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Updated Dec-2024: S Solters, M Trzcinski, P Safirulla, D Sutter, E Andraos, R Hagaman, J Kraynek, M Balkaran

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7	VH		Contractual	Supply Chain Challenges	$ - Schedule (days): 0	R	EEP-1 & EEP-2 has progressed and purchased by others during Phase 1.	Solters	Contingency	Optimistic	$ -	25%	0	25%	
										Most Likely	$ -	50%	0	50%	
										Pessimistic	$ -	25%	0	25%	
8	H		Contractual	Equipment Supplier Delays	$ 270,000 Schedule (days): 14	R	Supply chain compounds traditional risks associated with equipment delays. While the SWTP equipment does not represent the critical path, it is still imperative to release equipment as early as possible to provide flexibility for vendor delays.	Solters	Contingency	Optimistic	$ 100,000	30%	0	40%	While equipment isn't on critical path and is therefore less likely to impact overall project schedule, it could affect SWTP construction timeline which affects General Conditions and has other impacts. Carry contingency for performance delays to recover failing subs.
										Most Likely	$ 250,000	40%	20	30%	
										Pessimistic	$ 700,000	20%	40	20%	
9	H		Contractual	Local Labor Shortages	$ - Schedule (days): 0	CLOSED	Ability to self-perform electrical, automation and mechanical work	Solters	Contingency	Optimistic	$ -	30%	0	25%	CLOSED 26Nov2024: Moved Risk$ to item#21. Identify critical areas of labor shortages and reach out to CDM/multiple subcontractors for verification of personnel availability.
										Most Likely	$ -	40%	0	50%	
										Pessimistic	$ -	20%	0	25%	
10	H		Schedule	Schedule Risk - Extended GC's	$ 190,000 Schedule (days): 12	R	Labor shortages, supply chain issues and others adds schedule risk to the project.	Solters	Contingency	Optimistic	$ -	60%	0	60%	Closeout align GMP quotes with schedule and flow through delay damages to subs/vendors where possible
										Most Likely	$ 300,000	30%	20	30%	
										Pessimistic	$ 1,000,000	10%	60	10%	
11	L		Schedule	Schedule Risk - LD's	$ 55,000 Schedule (days): 6	R	Labor shortages, supply chain issues and others adds schedule risk to the project and it's effective $1,000 per day damages. Project may require acceleration, re-sequencing, or similar to avoid LD's.	R Hagaman	Contractual Mitigation	Optimistic	$ -	60%		60%	Closeout align GMP quotes with schedule and flow through delay damages to subs/vendors where possible
										Most Likely	$ 100,000	30%	10	30%	
										Pessimistic	$ 250,000	10%	30	10%	
12	L		Safety	Construction Accidents	$ 129,800 Schedule (days): 1	R	Safety is critical and any safety incidents will affect productivity and schedule.	Solters	Contingency	Optimistic	$ -	90%	0	90%	Provide full Construction Management team including safety support as part of the General Conditions Team
										Most Likely	$ 140,000	7%	5	7%	
										Pessimistic	$ 4,000,000	3%	20	3%	

RISK ASSESSMENT REGISTER

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PCS:	Doug Sutter	**High Risk$**	$	6,653,866	
		Schedule Days Risk		191	

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Moderate **(M)**	50%	Significant	>$100,000 - $500,000	Significant	> 2-4 Weeks
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13	M		Location	Unforeseen Conditions	$ - Schedule (days): 0	R	Existing conditions - differences between record drawings, potholed utilities during design phase, and actual conditions completed in Phase 1.	Solters	Contingency	Optimistic	$ -	30%	0	30%	Work with Veolia to vet existing utilities as much as possible during the design phase. Excavate and verify any tie-in or isolation points early in the process to allow time for deviations to minimize impact. Also utilize GPR technology. Unforeseen conditions encountered during construction controlled by Agreement.
										Most Likely	$ -	60%	0	60%	
										Pessimistic	$ -	10%	0	10%	
14	VH		Resources	Additional Estimating & Precon efforts	$ - Schedule (days): 0	R	Limit alternatives which are not feasible or which are unlikely to be selected by client. Focus on not backtracking on decisions after they are made. Completed in Phase 1.	Solters	Contractual Mitigation	Optimistic	$ -	60%	0	50%	Setup meetings for decisions to be made and create deadlines for decisions.
										Most Likely	$ -	30%	0	30%	
										Pessimistic	$ -	10%	0	20%	
15	L		Resources	Availability of planned resources	$ - Schedule (days): 1	R	Delay in GMP Award date could impact resources based on start date.	Solters	Contingency	Optimistic	$ -	80%	0	90%	Update: 16Feb2025: Zero out Risk per GMP negotiation. Old Note: Work with Veolia to continue to communicate on expected project schedule including the start of Phase 2 in order to program the right staff for the project in Phase 2
										Most Likely	$ -	15%	5	6%	
										Pessimistic	$ -	5%	10	4%	
16	M		Operations	Working within existing Plant Site	$ 235,000 Schedule (days): 8	R	Working within the operating plant site not related to MOPO could require different schedules, additional parking costs, temporary fencing or screening, and other restrictions to minimize impact	Solters	Contingency	Optimistic	$ -	10%	0	33%	CDM Smith will have a separate construction entrance than Veolia's operation entrance. And will provide general demarcation structures to split off construction from operations.
										Most Likely	$ 250,000	70%	20	34%	
										Pessimistic	$ 300,000	20%	30	3%	
17	M		Contractual	Escalation	$ - Schedule (days): 0	R		Solters	Contractual Mitigation	Optimistic	$ -	20%	0	90%	Carry escalation separate from contingency and risk reserve in timberline estimate so that timeline can be evaluated separate from overall risk
										Most Likely	$ -	50%	0	10%	
										Pessimistic	$ -	30%	0	0%	

RISK ASSESSMENT REGISTER

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Updated Dec-2024: S Solters, M Trzcinski, P Safirulla, D Sutter, E Andraos, R Hagaman, J Kraynek, M Balkaran

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18	H		Financial	Subcontractor and Vendor Bidder Interest (post selection, e.g. low bidder drops between 60% and 90%)	$ 1,140,000 Schedule (days): 14	R	The construction market in Tampa and surrounding areas is very hot and labor availability is consistently shrinking; therefore bidder interest could be challenging.	Solters	Contingency	Optimistic	$ -	20%	0	50%	The long hold duration between sub/vendor GMP pricing and NTP could allow for lost bidder interest as they secure other work, so contingency should be carried to get through buyout phase.
										Most Likely	$ 900,000	60%	20	40%	
										Pessimistic	$ 3,000,000	20%	60	10%	
19	M		Contractual	Sole Sourced Equipment (other than Veolia) which may limit competition or reduce commercial control of the project.	$ - Schedule (days): 0	CLOSED	Additional costs, limited bid transparency to client, reduced commercial term negotiation (warranties, damages, lead times, etc.) when working with vendor.	Solters	Contingency	Optimistic	$ -	20%	0	10%	CLOSED 26Nov2024: Phase 1 EEP-1 & EEP-2 has been approved and mitigated risk. Look to limit sole sources, even if a client preference. Specify and solicit multiple vendors then make a full evaluation accounting for cost, schedule, commercial terms, and client preferences when making a selection. Can still select client preference, but use other vendors to maintain leverage and options.
										Most Likely	$ -	40%	0	25%	
										Pessimistic	$ -	40%	0	65%	
20	VL		Contractual	Minority & Small Business Participation & Interest	$ - Schedule (days): 0	R	The construction market in Tampa and surrounding areas is very hot and labor availability is consistently shrinking; therefore bidder interest could be challenging , especially for targeted minority or small business packages. Team to create bidder interest early in the project by holding outreach events focused on these communities and businesses between 30% and 60% design. However limited interest increases the likelihood of bidder fall out, or hiring overloaded subs requiring more management.	Solters	Contingency	Optimistic	$ -	0%	0	0%	
										Most Likely	$ -	0%	0	0%	
										Pessimistic	$ -	0%	0	0%	
21	H		Contractual	Subcontractor Performance Delays	$ 634,000 Schedule (days): 36	R	Supply chain and labor shortages compounds traditional risks associated with sub delays. It is imperative to subs as early as possible to provide flexibility for sub delays. Also work to flow all damages down to subs to ensure full commitment to schedule.	Solters	Contingency	Optimistic	$ -	20%	0	40%	Labor performance issues could impact General Conditions in addition to overall project performance and substantial completion with associated costs. Carry contingency for performance delays
										Most Likely	$ 560,000	50%	40	30%	
										Pessimistic	$ 1,180,000	30%	80	30%	

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22	L		Technical / Engineering	Startup Delays	$ 45,000 Schedule (days): 3	R	Startup of an additional process is challenging. Bring key design team on site to assist with startup and develop startup plan well in advance of any startup and commissioning. Carry startup with vendor bid packages.	Solters	Contingency	Optimistic	$ -	60%	0	80%	Carry a contingency to account for any startup hiccups.
										Most Likely	$ 25,000	20%	5	10%	
										Pessimistic	$ 200,000	20%	20	10%	
23	M		Contractual	Existing UG Utilities	$ - Schedule (days): 0	CLOSED	PH1 mitigation has largely concluded GPR/Pot-holing is complete and the GMP incorporated new routing on the drawings to avoid known utilities. Owner may elect to carry an Owners Allowance for further considerations and potential impacts for utilities not found.	Solters	Contingency	Optimistic	$ -	50%	0	50%	Update 26Nov2024: Reduced Risk$ to $0. Utility clearance using GPR/pot holing and hand digging complete in Phase 1. Temp. support in trenches, removing, and re-routing piping.
										Most Likely	$ -	30%	0	30%	
										Pessimistic	$ -	20%	0	20%	
24	VL		Contractual	Client Insurance Reviews Require Design Changes	$ - Schedule (days): 0	R	Some owner insurance carriers perform a late review of design documents and add requirements above and beyond the basis of design. To minimize this potential impact, have insurance carrier review 60% design documents in parallel to GMP development so any comments can be picked up as part of GMP development	Solters	Contingency	Optimistic	$ -	100%	0	40%	Carry contingency until insurance carrier confirms their acceptance.
										Most Likely	$ 250,000	0%	0	40%	
										Pessimistic	$ 1,000,000	0%	0	20%	
25	M		Contractual	Additional Funding Impacts	$ - Schedule (days): 0	R	Closed: America Iron & Steel (AIS) is included in the GMP however there are no known additional funding or grant requirements in the GMP. It is assumed that all funding will be in place prior to Ph2 NTP.	Solters	Contingency	Optimistic	$ -	5%	0	0%	Only Florida AIS compliance is required. Florida AIS is assumed to follow federal AIS, deviations from that apporach may require additional funding. Any other fundiong or compliacne requirements besides AIS are not included in the GMP.
										Most Likely	$ -	20%	0	10%	
										Pessimistic	$ -	75%	0	90%	
26	L		Contractual	Timely decisions by client	$ - Schedule (days): 0	CLOSED	Loss of time and additional costs	Solters	Contingency	Optimistic	$ -	0%	0	0%	CLOSED 11/26/2024: Early workshops with Veolia and Tampa Bay Water to review scope decisions and costs and build consensus Frequent communication with stakeholders to review progress and respond to questions
										Most Likely	$ -	25%	0	40%	
										Pessimistic	$ -	75%	0	60%	

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Updated Dec-2024: S Solters, M Trzcinski, P Safirulla, D Sutter, E Andraos, R Hagaman, J Kraynek, M Balkaran

RISK PROBABILITY ASSESSMENT		COST ASSESSMENT		SCHEDULE ASSESSMENT	
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Very Low **(VL)**	10%	Negligible	<$10,000	Negligible	< 1 Week
Low **(L)**	30%	Marginal	$10,000 - $100,000	Marginal	1-2 Weeks
Moderate **(M)**	50%	Significant	>$100,000 - $500,000	Significant	> 2-4 Weeks
High **(H)**	70%	Critical	>$500,000 - $1 million	Critical	> 4-8 Weeks
Very High **(VH)**	90%	Crisis	>$1 million	Crisis	> 8 Weeks

PART ONE - Risk / Opportunity Identification									PART TWO	PART THREE - Contingency Planning					
ID	**Risk Prob**	**Risk Change**	**Risk/Opportunity Element**	**Definition of Risk/Opportunity Element**	**Consequence of Occurrence ($) and Schedule (days) Impact**	**Risk/ Opp**	**Risk Mitigation / Opportunity Suggestion (technical approach)**	**BIC**	**Pricing Strategy Contingency**		**Cost (whole $)**	**Cost Probability**	**Schedule (days)**	**Schedule Probability**	**Assumptions**
27a	H		Contractual	Typical MOPO including tie in risk, risk of materials required for tie in i.e. plugs, etc.	$ 679,866 Schedule (days): 16	R	This Risk item captures the risk associated with a difference between the 60% design documents and the MOPO table still being developed by all parties.	Solters	Contingency	Optimistic	$ 66,000	20%	0	0%	Detailed MOPO planning for critical tie-ins, including backwash tie-ins, 72-inch raw water tie in, filtered water tie-ins and chlorine contact basin modifications Contingency planning for MOPO events including having spare couplings and tie-in materials on site and potential by-pass pumping provisions
										Most Likely	$ 666,666	60%	10	40%	
										Pessimistic	$ 1,333,333	20%	20	60%	
27b	H		Contractual	MOPO allowable tie in i.e. TBW needs capacity that wasn't foreseen due to drought or similar.	$ 340,000 Schedule (days): 8	R	Price allowanble tie-ins per schedule and MOPO table. Work with Tampa Bay Water to evaluate impacts with changing tie-in dates.	Solters	Contingency	Optimistic	$ 33,333	20%	0	0%	Updated 16Feb2025: This is an Owner's Risk Item per GMP negotiation. Old Note: Refer to MOPO Table at GMP.
										Most Likely	$ 333,333	60%	5	40%	
										Pessimistic	$ 666,666	20%	10	60%	
28	L		Contractual	Truck Traffic Site Control	$ 32,000 Schedule (days): 5		Truck traffic, deliveries, & construction equipment will be onsite together, potential traffic issues.	Solters	Contingency	Optimistic	$ 5,000	20%	0	20%	Site layout planned to accommodate ongoing truck traffic for chemical deliveries and sludge hauling Signage and flaggers to direct truck traffic along designated haul roads during construction.
										Most Likely	$ 20,000	30%	5	60%	
										Pessimistic	$ 50,000	50%	10	20%	
29	L		Technical/Engineering	Final Integration Completed Post GMP	$ 92,500 Schedule (days): 10	R	All major process equipment and instrumentation will be purchased post GMP with no early release packages which will push integration completion after GMP and after electrical bidding. This leaves a potential control conduit and wire gap between GMP bidding and final installation.	Solters	Contingency	Optimistic	$ 25,000	50.0%	5	50%	Structure bid packages to collect unit pricing data to support future negotiations and price as a contingency item.
										Most Likely	$ 100,000	30.0%	10	25%	
										Pessimistic	$ 250,000	20.0%	20	25%	
30	L		Contractual	Existing Chlorine Contact Basin Construction	$ - Schedule (days): 0		Work in Existing Chlorine Contact Chamber	Solters	Contingency	Optimistic	$ -	20.0%	0	10%	Planned work in existing chlorine contact basin will require careful planning and coordination with Veolia & Tampa Bay Water Confined Space entry planning Provisions for potential for temporary bypass piping
										Most Likely	$ -	50.0%	0	50%	
										Pessimistic	$ -	30.0%	0	40%	

RISK ASSESSMENT REGISTER

Project Name:	Veolia Water Surface WTP Expansion	**Input Provider:**	D. Sutter		
Project Number:	282964	**Run Date:**	2/16/2025		
CSL:	Patrick Victor	**Version:**	R8.1		
PMCL:	Tommy Floyd	**Risk$ + OH&P**	$	10,643,590	
PMD:	Matt Trzinski	**Risk$ + Opp$**	$	9,832,416	
PMC:	Steve Solters	**Risk$**	$	9,832,416	
LCE:	Elias Andraos	**Opportunity$**	$	-	
PCS:	Doug Sutter	**High Risk$**	$	6,653,866	
		Schedule Days Risk		191	

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Updated Dec-2024: S Solters, M Trzcinski, P Safirulla, D Sutter, E Andraos, R Hagaman, J Kraynek, M Balkaran

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31	M		Contractual	Commissioning	$ 140,000 Schedule (days): 27	R	Commissioning sequence to be finalized with Veolia post GMP	Solters	Contingency	Optimistic	$ -	20.0%	0	30%	Early planning to coordinate commissioning with Plant operations staff. Disinfection of filter, chlorine contact basin, and backwash supply systems is required. Installation-phase backwashing of new fitter media and establishment of biological fitter conditions will require planning and proper scheduling. Electrical/Automation staff on site during commissioning to quickly troubleshoot and resolve issues Planning and attention to known challenge areas such as the lime system
										Most Likely	$ 100,000	40.0%	30	60%	
										Pessimistic	$ 250,000	40.0%	90	10%	
32	L		Hazardous Materials	Asbestos or other hazardous materials in the existing plant.	$ - Schedule (days): 0	R	Hazardous material require additional handling and disposal costs	Solters	Contingency	Optimistic	$ -	50.00%	0	50.00%	CDMS is aware that the site was used as a spoil ground for the excavation from the Hillsborough bypass canal. This is a contingency to cover hazardous material.
										Most Likely	$ -	25.00%	0	25.00%	
										Pessimistic	$ -	25.00%	1	25.00%	
33	L		Contractual	Accurate measurement of MGD with old and new system combined.	$ 201,250 Schedule (days): 4	R	Verify the MGD the new system is providing vs. the old system Plant performance dictated in Agreement.	Solters	Contingency	Optimistic	$ 75,000	5.0%	0	35%	Potentially add valves & and other design config. to be able to test Train 5 as a standalone system.
										Most Likely	$ 200,000	80.0%	5	50%	
										Pessimistic	$ 250,000	15.0%	10	15%	
34	L		Contractual	Unknown quantities of suitable fill to support installation of the structures	$ 80,000 Schedule (days): 29	R	Verify soil conditions through Geotech investigations & do an early cut/fill analysis to support structural designs.	Solters	Contingency	Optimistic	$ 50,000	20.0%	15	35%	Assuming that fill will have to be added to the existing pond settlement basin to build the new structures. Geotech report to identify soil conditions and cut/fill to determine qty.
										Most Likely	$ 75,000	60.0%	30	50%	
										Pessimistic	$ 125,000	20.0%	60	15%	
35	L		Technical/Engineering	Dewatering	$ 260,000 Schedule (days): 26	R	Verify underground water table elevations and underground conditions	Solters	Contingency	Optimistic	$ 50,000	20.0%	5	35%	Provide dewatering, sheeting, shoring, and trenching to control underground construction and nearby existing conditions. Geotech report to identify water table.
										Most Likely	$ 250,000	60.0%	30	50%	
										Pessimistic	$ 500,000	20.0%	60	15%	

RISK ASSESSMENT REGISTER

Project Name:	Veolia Water Surface WTP Expansion	**Input Provider:**	D. Sutter	
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PMD:	Matt Trzinski	**Risk$ + Opp$**	$	9,832,416
PMC:	Steve Solters	**Risk$**	$	9,832,416
LCE:	Elias Andraos	**Opportunity$**	$	-
PCS:	Doug Sutter	**High Risk$**	$	6,653,866
		Schedule Days Risk		191

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36	M		Technical/Engineering	Extension of the Drying Beds	$ - Schedule (days): 51	R	Drying bed approach including pumping and piping is still undetermined.	Solters	Contingency	Optimistic	$ -	25.0%	30	40%	Updated: 16Feb2025: Zeroed out Risk as per GMP negotiation. Old Note: Previous expansion required soil augmentation which considerable using geotech. materials and suitable fill to grade. Potential permitting implications.
										Most Likely	$ -	60.0%	60	50%	
										Pessimistic	$ -	15.0%	90	10%	
37	VH		Technical/Engineering	Required Design Progression from 60% to 100% IFC	$ 3,400,000 Schedule (days): 125	R	Early definition of scope of work to send out to bidders.	Solters	Contingency	Optimistic	$ 2,000,000	20.0%	90	50%	Bid packages to develop the GMP will be based on 60% design. 100% design may have impact/change on the final costs.
										Most Likely	$ 3,500,000	60.0%	120	25%	
										Pessimistic	$ 4,500,000	20.0%	200	25%	
38	M		Technical/Engineering	Software/hardware and programming and integration into the existing conditions.	$ 152,500 Schedule (days): 41	R	Early review of existing software/hardware setup to verify compatibility of new software/hardware setup. Obsolete software not working with current software could potentially be mitigated by parallel SCADA project.	Solters	Contingency	Optimistic	$ 75,000	20.0%	15	10%	TM-7 Scada review. Potential to find incompatibility between new and old software.
										Most Likely	$ 125,000	70.0%	30	50%	
										Pessimistic	$ 500,000	10.0%	60	40%	
39	M		Technical/Engineering	Damage to existing roads and asphalt	$ 140,000 Schedule (days): 36	R	Video tape and document existing road conditions and new roads, curbing and site work is integrated with existing roads for proper drainage.	Solters	Contingency	Optimistic	$ 50,000	25.0%	15	10%	Updated 16Feb2025: This is an Owners Risk Item per GMP negotiations. Old Note: Existing roads will be damaged/cut due to piping routing, traffic, and construction. Review piping layout to avoid unnecessary road construction, traffic control and carry contingency for road repair
										Most Likely	$ 125,000	60.0%	20	50%	
										Pessimistic	$ 350,000	15.00%	60	40%	
40	L		Environmental	Surface water site control after a rain event.	$ 125,000 Schedule (days): 41	R	Subcontractor scope to mitigate rainwater.	Solters	Contingency	Optimistic	$ 50,000	25.0%	15	10%	Discuss with engineering for consideration to manage surface water and rain water within the existing site and/or new structure.
										Most Likely	$ 125,000	50.0%	30	50%	
										Pessimistic	$ 200,000	25.0%	60	40%	
41	M		Technical / Engineering	UG design among existing system.	$ - Schedule (days): 0	R	Due to long lead nature of the current piping industry.	Solters	Contingency	Optimistic	$ -	25.0%	0	10%	Discussion w/engineering and Veolia on utility clearance within piping quarters.
										Most Likely	$ -	60.0%	0	50%	
										Pessimistic	$ -	15.0%	0	40%	

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42	M		Contractual	Accidental Plant Shutdown during construction	$ 220,000 Schedule (days): 0	R	Contingency plans to prevent or mitigate accidental plant shutdown during construction.	Solters	Contingency	Optimistic	$ 100,000	20.0%	0	40%	Updated 16Feb2025: This is an Owners Risk Item per GMP negotiations. Old Note: Plan MOPO with Veolia operations, create a tie-in table, identify areas of high risk shutdown and plan around it.
										Most Likely	$ 200,000	60.0%	0	40%	
										Pessimistic	$ 400,000	20.0%	0	20%	
43	M		Contractual	Damage of existing systems/equipment by subcontractors	$ - Schedule (days): 0	R	Carefully plan construction sequence/operations and plan with Veolia operations	Solters	Contingency	Optimistic	$ -	20.0%	0	20%	Plan with Veolia operations to protect existing equipment - Activity hazard analysis prior to start of work.
										Most Likely	$ -	40.0%	0	40%	
										Pessimistic	$ -	40.0%	0	40%	
44	M		Contractual	Scope gap between Veolia & CDM purchased equipment.	$ - Schedule (days): 30	R	Carefully plan procurement scopes between Veolia and CDMS.	Solters	Contingency	Optimistic	$ -	20.0%	10	60%	Updated 16Feb2025: Zeroed out Risk Item per GMP negotiations. Old Note: Plan with Veolia operations what they are buying in their procurement is coordinated with ours
										Most Likely	$ -	60.0%	30	20%	
										Pessimistic	$ -	20.0%	90	20%	
45	M		Contractual	Geotech report indicates the needs for soil improvements prior to placing structures.	$ 525,000 Schedule (days): 11	R	Install soil stabilization under affected structures.	Solters	Contingency	Optimistic	$ 100,000	20.0%	5	60%	Updated 16Feb2025: This is an Owner's Risk Item per GMP negotiations. Old Note: Rigid inclusion included in direct cost, however, due to timing of discovery we do not have accurate cost on the impact especially load transfer platform thickness and cut/fill impacts.
										Most Likely	$ 500,000	65.0%	15	20%	
										Pessimistic	$ 1,200,000	15.0%	25	20%	
46	M		Environmental	Disposal of Off Spec Water	$ 110,000 Schedule (days): 0	R	Continue to work with Veolia and TBW on opportunities to dispose of any off spec water depending on what part of the plant is being commissioned i.e. filters vs Actiflo.	Solters	Contingency	Optimistic	$ -	50.0%	0	80%	
										Most Likely	$ 100,000	30.0%	2	15%	
										Pessimistic	$ 400,000	20.0%	10	5%	
47	L		Contractual	Potentially add caustic to raw water	$ - Schedule (days): 0	R	Client Risk for tracking purpuses.	Solters	Other	Optimistic	$ -	20.0%	0	60%	Separate activity/project by TBW not included in this GMP, however maintaining on list for tracking/managing visibility. This is an Owners Risk Item per GMP negotiations.
										Most Likely	$ -	60.0%	0	20%	
										Pessimistic	$ -	20.0%	0	20%	
48					$ - Schedule (days): 0	R				Optimistic	$ -	20.0%	0	50%	
										Most Likely	$ -	60.0%	0	30%	
										Pessimistic	$ -	20.0%	0	20%	

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49					$ - Schedule (days): 0	O				Optimistic	$ -	20.0%	0	10%	
										Most Likely	$ -	60.0%	0	50%	
										Pessimistic	$ -	20.0%	0	40%	
50					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					
51					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					
52					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					
53					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					
54					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					
55					$ - Schedule (days): 0					Optimistic					
										Most Likely					
										Pessimistic					

Attachment 7

Bid Analysis

Bid Analysis

2024-08 RSWTP-60% Blue Sheets

Package/Section:	EPP1	EPP2	Selected Bid	GMP OPCC	Variance
400.20 00 01 PO EPP1: SUPPLY Train 5 High Rate Sedimentation (Actiflo)	$ 2,980,507			$ 3,014,743	$ (34,237)
400.20 00 02 PO EPP1: SUPPLY Ozone Generator/PSU/Destruct LOX/GOX and Chiller System	$ 4,502,377			$ 4,834,469	$ (332,091)
400.20 00 03 PO EPP1: SUPPLY (1) Lot (GAC) Carbon	$ 1,506,144			$ 1,506,144	$ -
200.40 00 20 Install Filter Media	$ 254,715			$ 254,715	$ -
400.20 00 04 PO EPP1: SUPPLY (1) Lot Silica Media Sand	$ 47,427			$ 17,452	$ 29,975
400.40 05 64 PO EPP2: Large Bore Valves		$ 574,428		$ 651,282	$ (76,854)
400.41 12 13.19 PO EPP2: Bulk Material Conveyors		$ 1,094,672		$ 1,540,000	$ (445,329)
400.43 41 45 PO EPP2: FRP Tanks		$ 1,001,141		$ 1,209,375	$ (208,234)
400.46 31 54.01 PO EPP2: Ozone Dissolution System		$ 565,710		$ 221,719	$ 343,991
400.46 36 13 PO EPP2: Lime Storage Silo		$ 489,394		$ 537,500	$ (48,106)
400.46 36 43 PO EPP2: Lime Feed Equipment		$ 392,565		$ 395,600	$ (3,035)
400.46 61 23 PO: Underdrain System - Leopold		$ 1,975,292		$ 758,417	$ 1,216,875
400.46 61 23.01 PO: FRP Wash Water Troughs - INC W/ UNDERDRAIN		$ 174,150		$ 174,150	$ -
400.46 76 21 PO: Belt Filter Presses		$ 5,258,109		$ 4,444,590	$ 813,519
200.01 32 23 Surveying			$ 51,000	$ 51,000	$ -
200.01 45 23 Materials Testing			$ 160,735	$ 255,000	$ (94,265)
200.03 00 00 Cast in Place Structural Concrete & Masonry			$ 9,847,069	$ 12,007,833	$ (2,160,764)
200.03 00 00 Building Envelope			$ 2,797,587	$ 2,797,587	$ -
200.03 00 00 Canopies			$ 1,130,058	$ 2,255,220	$ (1,125,162)
200.05 00 00 Misc Metals Package			$ 2,148,825	$ 1,698,232	$ 450,593
200.09 96 79 Paint and Coatings			$ 964,028	$ 1,199,594	$ (235,565)
200.31 00 00 Sitework			$ 4,881,443	$ 3,683,657	$ 1,197,786
200.31 00 01 Underground Pipe			$ 10,136,887	$ 6,756,520	$ 3,380,366
200.31 00 10 Ridgid Inclusions			$ 1,467,578	$ 2,880,438	$ (1,412,861)
200.40 00 01 Mechanical Installation			$ 14,949,396	$ 16,320,000	$ (1,370,604)
400.46 76 30 Landscaping			$ 306,000	$ 306,000	$ -
400.46 76 41 Cathodic Protection			$ 306,000	$ 306,000	$ -
503.26 00 00 Electrical & I/C			$ 16,163,712	$ 15,003,995	$ 1,159,718
400.40 00 10 PO SUPPLY DI, SS Pipe & Specialties			$ 6,127,326	$ 4,888,771	$ 1,238,555
200.40 00 12 Supply Mechanical Equipment			$ 3,067,676	$ 2,757,425	$ 310,251
SUBTOTAL	$ 9,291,169	$ 11,525,460	$ 74,505,320	$ 92,727,428	$ 2,594,522
Escalation					
TOTAL	$ 9,291,169	$ 11,525,460	$ 74,505,320	$ 92,727,428	$ 2,594,522

Subcontractor Pricing

Surveying

200.01 32 23 Surveying	OPCC	OPCC	SELECTED	SUB 1			SUB 2		
	$ 51,000.00		$ 51,000.00			$ -			$ -
Contact:						Sub 1 Contact			Sub 2 Contact
Phone:						Sub 1 Phone			Sub 2 Phone
Email:						Sub 1 Email			Sub 2 Email
Submittals:						Sub 1 Submittals			Sub 2 Submittals
Delivery:						Sub 1 Delivery			Sub 2 Delivery
Package Scope:						Sub 1 Package			Sub 2 Package
Is Minority:						Sub 1 Is Minority			Sub 2 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount		QTY	Total Amount		QTY	Total Amount
200.01 32 23 Surveying	50000		50000			0			0
* unassigned *	50000		50000			0			0
000 Projectwide	50000		50000			0			0
000.010000.81.00 Allowance	50000		50000			0			0
200.01 : * unassi 000 Proj 000.010000.81.00 Surveying beyond subcontractor scopes	50000	1 type	50000						
000.010000.81.00 Allowance Total	50000		50000			0			0
000 Projectwide Total	50000		50000			0			0
* unassigned * Total	50000		50000			0			0
200.01 32 23 Surveying Total	50000		50000			0			0
CUT									
ADD									
Shipping									
ESCALATION TO NTP									
SUBTOTAL	50,000		50,000			-			-
BOND Cost	$ 1,000.00	2.00%	$ 1,000.00	2.00%		$ -	2.00%		$ -
SALES TAX	Inc.		Inc.	7.50%		$ -	7.50%		$ -
OTHER	Inc.		Inc.						
TOTAL	$ 51,000.00		$ 51,000.00			$ -			$ -

Materials Testing

200.01 45 23 Materials Testing	OPCC	OPCC		SELECTED	SUB 1			SUB 2		
	$ 255,000.00			$ 255,000.00			$ -			$ -
Contact:							Sub 1 Contact			Sub 2 Contact
Phone:							Sub 1 Phone			Sub 2 Phone
Email:							Sub 1 Email			Sub 2 Email
Submittals:							Sub 1 Submittals			Sub 2 Submittals
Delivery:							Sub 1 Delivery			Sub 2 Delivery
Package Scope:							Sub 1 Package			Sub 2 Package
Is Minority:							Sub 1 Is Minority			Sub 2 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY		Total Amount		QTY	Total Amount		QTY	Total Amount
200.01 45 23 Materials Testing	250000			250000			0			0
* unassigned *							0			0
000 Projectwide	250000			250000			0			0
000.010000.81.00 Allowance	250000			250000			0			0
200.01 * unassi 000 Proj 000.010000.81.00 Concrete testing cylinders	125000	500	ea	125000						
200.01 * unassi 000 Proj 000.010000.81.00 Compaction Testing	125000	300	ea	125000						
000.010000.81.00 Allowance Total	125000			125000			0			0
000 Projectwide Total	125000			125000			0			0
* unassigned * Total	125000			125000			0			0
200.01 45 23 Materials Testing Total	125000			125000			0			0
CUT										
ADD										
Shipping										
ESCALATION TO NTP										
SUBTOTAL	250,000			250,000			-			-
BOND Cost	$ 5,000.00	2.00%		$ 5,000.00	2.00%		$ -	2.00%		$ -
SALES TAX	Inc.			Inc.	7.50%		$ -	7.50%		$ -
OTHER	Inc.			Inc.						
TOTAL	$ 255,000.00			$ 255,000.00			$ -			$ -

Cast in Place Concrete & Masonry Package

200.03 00 00 Cast in Place Structural Concrete & Masonry	Integ-Crete Construction, LLC	OPCC		Integ-Crete Construction, LLC	SELECTED	Baker Concrete		3C Construction		CSI	
	$ 9,847,068.87		$ 12,007,832.99		$ 9,847,068.87		$ 11,047,650.12		$ 12,670,053.06		INCOMPLETE
Contact:	Justin Drawdy				Justin Drawdy		Bob Saltsman		Orlando Casariego		Ralph R. Boyce, III
Phone:	772-216-4412				772-216-4412		407-463-6508		305-638-5511		813-247-1419
Email:	justin@integcrete.com				justin@integcrete.com		Sub 2 Email		OJC@3cconstruction.corp.com		Sub 4 Email
Submittals:	Sub 1 Submittals				Sub 1 Submittals		Sub 2 Submittals		Sub 3 Submittals		Sub 4 Submittals
Delivery:	Sub 1 Delivery				Sub 1 Delivery		Sub 2 Delivery		Sub 3 Delivery		Sub 4 Delivery
Package Scope:	Sub 1 Package				Sub 1 Package		Sub 2 Package		Sub 3 Package		Sub 4 Package
Is Minority:	Sub 1 Is Minority				Sub 1 Is Minority		Sub 2 Is Minority		Sub 3 Is Minority		Sub 4 Is Minority
Packa Area ection ament Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
200.03 00 00 Cast in Place Structural Concrete & Masonry	1,609,650		11,772,385		1,609,650		1,609,650		1,460,000		939,000
03-00-00.000 CONCRETE	3,650		3,650		3,650		3,650		0		0
010 Ozone Generation Building 3	3,650		3,650		3,650		3,650		0		0
03-00-00.000 CONCRETE Total	3,650		3,650		3,650		3,650		0		0
03-10-00.000 CONCRETE FORMWORK	Included		4,272,969		Included		Included		0		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	Included		82,447		Included		Included		0		0
010 Ozone Generation Building 3	Included		62,450		Included		Included		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	Included		923,584		Included		Included		0		0
017 Ozone Contactor Tank	Included		1,500,574		Included		Included		0		0
020 Filters	Included		1,373,484		Included		Included		0		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	Included		85,857		Included		Included		0		0
052 Dry Chemical Feed Building 3 - Lime	Included		56,034		Included		Included		0		0
053 Ferric Sulfate - South System Chemical Storage 2	Included		83,234		Included		Included		0		0
054 Coagulant Aid Polymer Building	Included		74,462		Included		Included		0		0
067 Belt Filter Press Feed Pump	Included		3,773		Included		Included		0		0
070 Solids Dewatering	Included		27,070		Included		Included		0		0
03-10-00.000 CONCRETE FORMWORK Total	Included		4,272,969		Included		Included		0		0
03-15-00.000 CONCRETE ACCESSORIES	Included		476,230		Included		Included		0		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	Included		9,465		Included		Included		0		0
010 Ozone Generation Building 3	Included		4,927		Included		Included		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	Included		55,927		Included		Included		0		0
017 Ozone Contactor Tank	Included		155,406		Included		Included		0		0
020 Filters	Included		218,568		Included		Included		0		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	Included		9,801		Included		Included		0		0
052 Dry Chemical Feed Building 3 - Lime	Included		3,348		Included		Included		0		0
053 Ferric Sulfate - South System Chemical Storage 2	Included		9,801		Included		Included		0		0
054 Coagulant Aid Polymer Building	Included		2,300		Included		Included		0		0
070 Solids Dewatering	Included		6,687		Included		Included		0		0
03-15-00.000 CONCRETE ACCESSORIES Total	Included		476,230		Included		Included		0		0
03-20-00.000 CONCRETE REINFORCING	Included		2,672,275		Included		Included		0		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	Included		68,566		Included		Included		0		0
010 Ozone Generation Building 3	Included		55,230		Included		Included		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	Included		574,742		Included		Included		0		0
017 Ozone Contactor Tank	Included		1,010,655		Included		Included		0		0
020 Filters	Included		713,633		Included		Included		0		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	Included		51,652		Included		Included		0		0
052 Dry Chemical Feed Building 3 - Lime	Included		63,719		Included		Included		0		0
053 Ferric Sulfate - South System Chemical Storage 2	Included		48,571		Included		Included		0		0
054 Coagulant Aid Polymer Building	Included		61,385		Included		Included		0		0
067 Belt Filter Press Feed Pump	Included		8,581		Included		Included		0		0
070 Solids Dewatering	Included		15,545		Included		Included		0		0
03-20-00.000 CONCRETE REINFORCING Total	Included		2,672,275		Included		Included		0		0
03-30-00.000 CAST-in-PLACE CONCRETE	Included		3,013,623		Included		Included		0		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	Included		56,698		Included		Included		0		0
010 Ozone Generation Building 3	Included		47,603		Included		Included		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	Included		704,542		Included		Included		0		0
017 Ozone Contactor Tank	Included		1,134,166		Included		Included		0		0
020 Filters	Included		840,890		Included		Included		0		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	Included		49,253		Included		Included		0		0
052 Dry Chemical Feed Building 3 - Lime	Included		58,828		Included		Included		0		0
053 Ferric Sulfate - South System Chemical Storage 2	Included		46,658		Included		Included		0		0
054 Coagulant Aid Polymer Building	Included		51,549		Included		Included		0		0
067 Belt Filter Press Feed Pump	Included		5,502		Included		Included		0		0
070 Solids Dewatering	Included		18,040		Included		Included		0		0
03-30-00.000 CAST-in-PLACE CONCRETE Total	Included		3,013,623		Included		Included		0		0
04-00-00.000 MASONRY	1,606,000		1,333,639		1,606,000		1,606,000		1,460,000		939,000
010 Ozone Generation Building 3			332,653						0		315,000
020 Filters			104,512						0		0
052 Dry Chemical Feed Building 3 - Lime			619,569						0		312,000
054 Coagulant Aid Polymer Building			276,904						0		312,000
04-00-00.000 MASONRY Total	0		1,333,639		0		0		0		939,000
200.03 00 00 Cast in Place Structural Concrete & Masonry Total	1,609,650		11,772,385		1,609,650		1,609,650		1,460,000		939,000
005 Liquid Oxygen, Evaporators, Chillers & Pipe	130,500				130,500		100,000				
010 Ozone Generation Building 3	200,600				200,600		160,000				
015 High Rate Flocculation/Sedimentation - Unit 5	2,117,350				2,117,350		2,155,000				
017 Ozone Contactor Tank	2,448,200				2,448,200		2,950,000				
020 Filters	2,221,000				2,221,000		2,850,000				
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	97,500				97,500		78,000				
052 Dry Chemical Feed Building 3 - Lime	212,000				212,000		130,000				
053 Ferric Sulfate - South System Chemical Storage 2	106,750				106,750		85,000				
054 Coagulant Aid Polymer Building	173,200				173,200		105,000				
067 Belt Filter Press Feed Pump	16,250				16,250		25,000				
070 Solids Dewatering	72,500				72,500		60,000				
									10,961,621		
Waterproofing/Admixtures	200,000	5,000.00 cy	200,000		200,000	5000 cy	200,000				
Rub Finish Walls	INC		540,000		INC		540,000				
Pipe Encasements	50,000				50,000						
Concrete Pipe Supports	50,000				50,000						
Concrete Conveyor Supports	20,000				20,000						
Offset Above Values			-740,000								
CUT											
ADD											
Shipping											
ESCALATION TO NTP											
SUBTOTAL	9,725,500		11,772,385		9,725,500		11,047,650		12,421,621		939,000
BOND Cost	$ 121,568.75	2.00%	$ 235,447.71	1.25%	$ 121,568.75	Inc		2.00%	$ 248,432.41	2.00%	$ 18,780.00
SALES TAX	$ -		Inc.	0.00%	$ -	Inc		0.00%	$ -	7.50%	$ 70,425.00
OTHER			Inc.								
TOTAL	$ 9,847,068.87		$ 12,007,832.99		$ 9,847,068.87		$ 11,047,650.12		$ 12,670,053.06		INCOMPLETE

BID FORM

Project:	Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner:	Veolia North America
Date:	September 30, 2024
Package # / Title:	03 30 00 Cast In Place Package

BID FORM

1. **REQUIRED TO BE INCLUDED WITH YOUR PROPOSAL**

   The following documents are to be included in or returned as part of your proposal. Incomplete bid packages may be considered non-responsive and disregarded by CDM Constructors Inc. and/or the Owner.

   a. THIS completed and signed Bid Form.
   b. Detailed Technical Proposal
   c. Completed and signed Supplier/Subcontractor Representations and Certifications Document (Refer to Exhibit H)
   d. Completed and signed Non-Collusion Affidavit (Refer to Exhibit H)
   e. Current Certificate of Insurance evidencing coverage, endorsements and limits are required herein.
   f. Proposed project schedule.
   g. Exhibit A, Attachment 2 – Subcontract Price
   h. Exhibit A, Attachment 4 - Changes in Work. As requested, include your Company's All inclusive hourly labor rates and Equipment Rental Schedules
   i. Payment and Performance Bonds in the amount of 100% of the Subcontract value shall be provided by the Subcontractor at time of award.
   j. Surety Prequalification Letter
   k. Dun and Bradstreet number and rating. Financial statements if your D&B ratings is less 3A2.
   l. Confirmation of SAMS.gov registration
   m. Confirmation to Buy American provisions.

2. **SUBCONTRACT ACCEPTANCE**

   a. BIDDER agrees that all Work required by the Subcontract Documents will be completed as set forth by all requirements, terms, and documents attached and/or referenced by this Request for Proposal.

	Agree	Do Not Agree
I have reviewed the entirety of this Request for Proposal (including Terms and Conditions) and have no objections to the contents within.	✓	

   If you DO NOT AGREE, state specific exceptions, clarifications and assumptions (including Terms and Conditions).

   _____

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

_____
_____
_____
_____
_____

Please note that exceptions to the Terms and Conditions may render your proposal non-responsive.

3. ADDENDA

The Bidder has received, reviewed and incorporated the following Addenda into the proposed scope and cost.

Addenda No.:	None	Date:	
Addenda No.:		Date:	
Addenda No.:		Date:	
Addenda No.:		Date:	

4. CONFIRMATION OF PRICING

Bidder confirms they will supply/perform the scope of Work in accordance with all requirements of this Request for Proposal and in accordance with the Subcontract Price as defined in Exhibit A, Attachment 2 – Subcontract Price.
Bidder also confirms the pricing stated herein is "Firm" and NOT subject to price escalation.

5. CONFIRMATION OF SCHEDULE

Bidder confirms they will supply/perform the scope of Work in accordance with all requirements of this Request for Proposal and in accordance with the schedule as defined in Exhibit A, Attachment 3 - Schedule for Completion.

6. CONFIRMATION OF PRIME AGREEMENT

Bidder confirms they have reviewed and understand the Prime Agreement between CDM Constructors Inc. and the Owner is incorporated herein by reference and made an integral part of the Subcontract. SUBCONTRACTOR shall comply with all requirements, terms, and conditions of the Prime Agreement that relate in any way to the performance and completion of the Subcontract Work.

7. SUB-TIER SUBCONTRACTORS

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

Bidder intends to utilize the following sub-subcontractors. If none, please state None.

Proposed Sub-subcontractor	Work to be performed	MWBE (Yes / No)	% based on Total Subcontract Price
None			

8. USE OF TEXTURA

Bidder confirms they have read, understands and agrees that all invoicing shall be completed through the use of the Textura Construction Payment Management program. Bidder has included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.

9. BIDDER CONTACT INFORMATION

Communications with Bidder concerning this Proposal shall be addressed to:

Orlando J. Casarigo V.P. ojc@3cconstructioncorp.com

10. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I have reviewed CCI's VDC specification 013126 and will conform to the VDC requirements as stipulated.	✓	

If you DO NOT AGREE, state reasons for not being able to comply.

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.	✓			$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.	✓			

12. WAGE DETERMINATION

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Davis and Bacon wage determination as it may apply to any site work performed.	✓			$

13. PAYMENT AND PERFORMANCE BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Subcontracts greater than $100,000, confirm your pricing includes providing a Payment and Performance Bond as required by CDM Smith. (Refer to Exhibit J)	✓			$
B. Confirm you have provided the Surety Prequalification Letter.	✓			

14. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

B. Confirm your company is registered at SAMS.gov. YES ✓ NO

15. REQUIREMENTS AND EXECUTIVE ORDERS

The Bidder executes this Proposal as and confirming the following:

a. Consider federal, state and local laws, ordinances, and any other rules and regulations that may in any manner affect the Bidder's response, including but not limited to: Executive Orders 11625, 11246, as amended, 12138 and 12432.
b. Study and carefully correlate the Bidder's observations and responses with the RFP Documents.
c. Notify CDM Constructors Inc., of all conflicts, errors and discrepancies, if any, in the RFP document submitted. Bidder by and through the submission of their Proposal, agree that they shall be held responsible for having therefore familiarized themselves with the nature and extent of the requirements in the RFP Documents.
d. The following are incorporated by reference:
The requirements of Executive Order 11246, as amended, and the applicable regulations contained in 41 C.F.R. Parts 60-1 through 60-60; 29 U.S.C. Section 793 and the applicable regulations contained in 41 C.F.R. Part 60-741; 38 U.S.C. Section 4212 and the applicable regulations contained in 41 C.F.R. Part 60-250 and/or 60-300; and 29 C.F.R. Part 471 Appendix A to Subpart A.

16. SIGNATURE

By: _____
(Signature of person authorized to sign)

Printed Name: Orlando J. Casanueva
Title: V.P.
Company Name: JC Construction Corp
Address: 3601 NW 55 St #201
Miami, FL 33142-2701

BID FORM

Project:	Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner:	Veolia North America
Date:	September 30, 2024
Package # / Title:	03 30 00 Cast In Place Package

Phone: 305-638-5571

Email: ojc@3xconstructioncorp.com

Exhibit A
Scope of Subcontract Work, Subcontract Price, and Schedule for Completion

This Exhibit A is attached to and incorporated into the Subcontract between CONTRACTOR and SUBCONTRACTOR. This exhibit establishes the scope of the Subcontract Work to be performed by SUBCONTRACTOR, the Subcontract Price that will be paid to SUBCONTRACTOR for acceptable performance of the Subcontract Work, and the schedule for completion of the Subcontract Work.

This Exhibit A consists of the following attachments:

Exhibit A, Attachment 1 - Scope of Work

Exhibit A, Attachment 2 - Subcontract Price

Exhibit A, Attachment 3 - Schedule for Completion

Exhibit A, Attachment 4 - Changes in the Work

Exhibit A, Attachment 5 – General Project Requirements

Exhibit A

Attachment 1 - Scope of Work

Scope of Subcontract Work

1. General description of the scope of the Subcontract Work

SUBCONTRACTOR shall furnish all labor, materials, equipment and services as required by the Subcontract Documents at a rate of progress that allows for completion of the work on or ahead of schedule. The Subcontract Work includes, but is not limited to, the following:

The Structures & Turnkey Buildings exclude electrical, process drains, subsurface pipes, equipment pipe, under slab drains, and controls provided by Design-Builder or others. The SUBCONTRACTOR shall construct the following buildings, including (with dewatering plan, operation, maintenance, and removal), excavation, grading, compaction, foundations, slab on grade, and associated documentation:

I. **Structures**
- Actiflo Tank
- Ozone Contactor Tank
- LOX and Chiller Pad
- Chemical Storage Containment Area
- Sodium Hypo Storage and Containment Area
- New Filter Tanks 16, 17, and 18
- Ferric Sulfate Storage and Containment
- Supply & Install All Metal Canopies
- Supply & Install All Miscellaneous Metals, Handrails, Gratings, Diamond Plate Covers, Stair Towers, Hatches, and Manways.

II. **Turnkey Buildings (**including HVAC, doors, windows**):**
- Ozone Generator Building
- Polymer Storage Building
- Dry Chemical Lime Silo Slaker Building

- **DETAL SCOPE OF WORK**

a. SUBCONTRACTOR acknowledges and affirms their familiarity and awareness that the work of this project occurs in an operational surface water treatment facility. All precautions should be taken to ensure continued un-interrupted operation of the plant. Planned shutdowns must be coordinated in advance with Design-Builder and Plant personnel.

b. SUBCONTRACTOR shall provide all necessary excavation services to install the C.I.P. and foundations. This includes temporary sheeting shoring, trench boxes, bedding material, geotextile fabric, and dewatering, ensuring neat and safe installation as per the Contract Documents.

c. SUBCONTRACTOR shall backfill to finish grade for their scope of work, complete and as per the Contract Documents.

d. **Concrete Work:**

- Include formwork, reinforcement, and finishing as required for all structural and non-structural elements.
- Ensure compliance with specified tolerances and quality control measures as outlined per the Contact Documents .
- Supply and install all concrete encasement for underground piping (including sufficient formwork).

e. **Formwork and Accessories:**
   - Formwork to include architectural form liners, shoring, bracing, and form stripping.
   - Ensure proper alignment, cleanliness, and tightness of formwork before placing concrete

f. **Reinforcing Steel:**
   - Include all necessary splicing, placement, and bonding as required.
   - Ensure inspection and approval by the Engineer before concrete placement.

g. **Concrete Placement and Finishing:**
   - Place concrete according to the Contract Documents.
   - Ensure proper consolidation and curing of concrete as required per the Contract Documents.
   - Include all necessary finishing operations as specified.

h. Install all metal embeds supplied by others.

i. SUBCONTRACTOR shall supply & install all miscellaneous metals, handrails, gratings, diamond plate covers, stair towers, hatches, and manways.

j. SUBCONTRACTOR shall supply construction joint preparation, including keyways.

k. SUBCONTRACTOR shall supply and install all blockouts, chases, and other formed openings as required.

l. SUBCONTRACTOR shall supply and install all pointing and patching, concrete rubbing, crack repair, and other remedial and finishing work to the concrete surfaces as required.

m. SUBCONTRACTOR shall supply and install all materials and labor for concrete curing and protection.

n. SUBCONTRACTOR shall supply and install all hoisting required for the Subcontractor's work, including crane(s), concrete pumping, and other equipment necessary for this Subcontractor's scope, shall be provided in accordance with the safety and quality manuals/guidelines outlined in the Contract Documents.

o. SUBCONTRACTOR shall supply operator certifications and equipment inspection for review by the Design Builder prior to starting work.

p. SUBCONTRACTOR shall offload, properly store, and install all equipment supplied by CDM Smith, including equipment listed in the attached scope and Veolia's equipment list.

q. **Inspection and Testing**: The SUBCONTRACTOR shall comply with and provide all data as required to meet the following testing and inspection requirements:
   - Follow all applicable QC procedures, tests, and inspections in accordance with applicable law.
   - Perform all required testing, including non-destructive testing (NDT).
   - Provide an inspection test plan (ITP) for the Work to be performed.
   - Submit all final testing, approvals, and certification of equipment and materials for approval by the DESIGN BUILDER.

r. SUBCONTRACTOR shall commission all installed systems to ensure they operate as intended. This includes all concrete, rebar, misc. metals, and temp. dewatering systems.

s. SUBCONTRACTOR shall complete any concrete related demolition as indicated on the drawings and specifications (excludes any electrical work).

t. SUBCONTRACTOR shall supply and install necessary temporary materials or other means to safely and effectively test the water tightness of their work (water shall be supplied by plant).

COORDINATION

- The facility's standard operating hours are Monday through Friday, from 7:00 a.m. to 5:00 p.m., based on a single shift. Upon request, these hours may be adjusted to accommodate daylight conditions. There will be phase construction that may impact the work (like plant operations & shutdowns). See MOPO (Maintenance of Plant Operations) chart provided by CDM Smith.

- Coordinate all work with the general contractor and other trades to ensure seamless integration of the concrete work with the overall project schedule.

- The selected Subcontractor shall collaborate with the Design Builder to coordinate and schedule the MOPO with plant operations to ensure adherence to project deadlines and milestones.

- When applicable, CDM will supply the Subcontractor with sufficient sets of reviewed submittal documents for products or equipment provided by others. The Subcontractor must review these documents for compliance with the Technical Documents and to ensure coordination with the overall scope of work. Failure to receive necessary items does not relieve the Subcontractor of their coordination responsibilities.

- The SUBCONTRACTOR shall layout his work from survey control point provided by the Design-Builder.

- **The SUBCONTRACTOR shall notify the Engineer immediately regarding any conflicts arising during construction of any improvements shown on the** Contract Documents**.**

SUBMITTALS

- Submit copies of each ready-mix concrete delivery ticket and rebar delivery ticket to the Contractor.

COMPLIANCE

- If the Subcontractor damages project control and reference points, they must be replaced and verified at no additional cost to CDM Smith.

- Any utilities damaged during the Subcontractor's operations must be repaired or replaced at no cost to CDM or the facility.

- Maintain site compliance with erosion control and permit requirements in coordination with other SUBCONTRACTORs.

TEMPORARY SERVICES

- The SUBCONTRACTOR shall provide all temporary work, equipment, construction, facilities, or any other items required to maintain the existing plant operation during the performance of the Work.

- SUBCONTRACTOR shall provide and maintain all temporary stair towers, handrails and other fall protection for the Work as it is installed for access to ALL subcontractors.

- Site Access Control: Furnish and install temporary gates, fencing, and pumping systems to control surface water runoff with all related Contract Documents.

- Dewatering: Furnish, install, and maintain dewatering services as needed at the excavation structures. **The SUBCONTRACTOR shall provide all dewatering equipment necessary to keep excavations for their work dry and shall provide all sheeting, shoring, and bracing necessary to protect adjacent structures, utilities, sidewalks, and pavement, or to minimize trench width, all in accordance with the** Contract Documents**.** The SUBCONTRACTOR must review and adhere to the guidelines provided in the attached Geotechnical report and site survey and ensure proper coordination with all other related Contract Documents.

- Construction Trailers: Offload, set, and level temporary construction trailers. Coordinate this task with all related Contract Documents.

MATERIAL HANDLING

- The SUBCONTRACTOR shall procure all necessary materials, equipment, and services required for the completion of the project as specified in the Contract Documents.

FINAL SITE WORK

- Final cleanup, soil erosion repair, seeding, and sodding to restore finishes as shown on the plans and specifications. This includes the final blading of excess stockpiled soil into the site upon completion of construction. Ensure this work is coordinated with all related Contract Documents.

DEMOBILIZATION

- The SUBCONTRACTOR shall demobilize all equipment, materials, and labor from the project site upon completion of the work.

- **FINAL INSPECTION**

  - Ensure all erosion control measures are functioning correctly and comply with project requirements. The SUBCONTRACTOR shall complete all closeout activities, including final inspections, punch list items, submission of as-built drawings, warranties, and O&M manuals.

- **CLOSEOUT**

  - Submit as-built drawings, warranties, and maintenance manuals as required by the contract documents. Coordinate closeout activities with all related specifications and drawings.
  - Complete all punch list items and obtain final per Contract Documents.

2. Work completed by others (excluded items)

The following items shall be completed by others and shall be excluded from the Subcontract Work.

- Concrete work for electrical duct banks
- Temporary access roads and ramps.
- Temporary electric power.
- Temporary water.
- Temporary toilets.
- Dumpster service (the Subcontractor will be responsible for depositing debris in dumpsters at locations determined by the Contractor).
- Electric service costs.
- Erosion control for others work (this will be the Site Contractor's responsibility).
- Swales

3. CONTRACTOR supplied equipment and material

CONTRACTOR shall furnish the following items. SUBCONTRACTOR shall provide all necessary offloading, receiving, inspection, care, custody and control of any and all items received from CONTRACTOR or OWNER.

- **Owner and Design-Builder supplied equipment list attached.**

4. Inspection and Testing

SUBCONTRACTOR shall comply with and provide all data as required to meet the following testing and inspection requirements.

- Follow all applicable QC procedures, tests and inspections in accordance with applicable Law;
- Perform all required testing including non-destructive testing ("NDT"); Provide an inspection test plan ("ITP") for the Work to be performed;
- Provide proctor and sieve analysis to CONTRACTOR for approval prior to supply of all imported

material; and

- Submit all final testing, approvals and certification of equipment and materials for approval by CONTRACTOR, a minimum of two (2) weeks after completion of Project deliverables.

5. Plans and Specifications

The Subcontract Work includes, but is not limited to, the following plans and specifications which apply to the Subcontract Work:

Definition of Parties

The text of each clause of the Specifications listed below shall be deemed to be modified with respect to the identification of parties as provided in paragraphs (a) and (b) below

(a) Unless one of the exceptions provided in paragraph (b) below shall apply, the term "Design builder" or “Engineer” or “Construction Manager” or “Contractor” shall mean "Subcontractor"; the term “Owner” or “Government” shall mean "CDM Constructors Inc.”

(b) The following instances are exceptions to the general rules of construction as provided in paragraph (a):

(i) Where it is clear, by the context of the provision itself or the conditions under which it is being applied, that the reference is intended to refer to the Owner, or Government, or its officers or agents, or CDM Constructors Inc. specifically;

(ii) Where access to proprietary data is required; or

(iii) Where interpretation in accordance with the rules stated above would place CDM Constructors Inc. in a position of violating the equivalent or related provisions of the Prime Contract whereas construction of the terms without modification would not.

Owner & Design-Builder Supplied Equipment/Material List

Veolia Supplied Equipment

Actiflo ® Equipment
- Mixers / Clarifier
- Hydrocyclones
- Sand Pumps
- Control Panel / Instruments

Filter Media
- Granular Activated Carbon
- Filter Sand & Microsand
- Start-Up Chemicals

Ozone Equipment
- Ozone Generator
- Destruct Skid / Chillers
- Power Supply Unit
- Control Panel / Instruments
- LOX Tank / Vaporizers

CDM Smith Supplied Equipment

- All electrical, instrumentation, & controls.
- Transformers
- Underdrain System
- FRP Wash Water Troughs
- Ozone Dissolution System
- Lime Feed Equipment
- Lime Storage Silos
- Bulk Material Conveyors
- Belt Filter Presses
- FRP Tanks
- Vertical Shaft Mixers & Flocculators
- Large Bore Valves

ADDITIONAL DETAILS:

VEOLIA SUPPLIED EQUIPMENT	
ACTIFLO SYSTEM	MX-2410, MX-2415, MX-2420,
Liquid Oxygen & Vaporization System	
Air Injection System	
Ozone Generator No.5	
Ozone Cooling Water System	
Ozone Contactor No.5	Ozone Control Panel 3, GOV-3400, BV-3410-1, BV-3400-2, CV-3400, CV-3405, AE/AIT-3420-1/2
Ozone Destruct Units	
CDM SMITH SUPPLIED EQUIPMENT	
Transformers	
Underdrain System	
FRP Wash Water Troughs	
Ozone Dissolution System	P-3417-1 & P-3417-2; EDU-3400-1, EDU-3400-2; PDM-3400-1, PDM-3400-2)
Lime Feed Equipment	Feeder (VF-7515-3, Conveyor (SC-7520-3), Slaker (7525-3), Mixer (MX-7535-3, MX-7535-4), Tank (T-7530-3, T-7530-4), Pumps (P-7540-5, P-7540-6 P-7540-7, P-7540-8, P-7540-9)
Lime Storage Silos	Lime Storage Silo (SIL-7500-3), BA-7500-3A, BA-7500-3B, BF-7505-3, LCP-7500-3
Bulk Material Conveyors	Belt Conveyor (HBC-5060-1, HBC-5060-2)
Belt Filter Presses	Belt Filter Press (BFP-5050-1, BFP-5050-2, BFP-5050-3, BFP-5050-4, BFP-5050-5, BFP-5050-6, BFP-5050-7). Washwater booster pumps (P-5050-1, P-5050-2,P-5050-3,P-5050-4, P-5050-5, P-5050-6, P-5050-7) BFPCP-5050-1
FRP Tanks	Ferric (T-7300-4, T-7300-5), Hypo (T-7600-3)
Vertical Shaft Mixers & Flocculators	MX-3410-1, MX-3410-2, MX-7020-5, MX-7020-6, MX-7535-3, MX-7535-4
Large Bore Valves	BFV-1445, FCV-1450, BFV-4025-16, BFV-4040-16A, BFV-4040-16B, BFV-4025-17, BFV-4040-17A, BFV-4040-17B, BFV-4025-18, BFV-4040-18A, BFV-4040-18B

PROJECT
SPECIFICATIONS

Section	Description	Date
	60% Design – Specifications	9/2024

PROJECT DRAWINGS

Section	Description	Date
	60% Design – Contract Drawings	9/2024

OTHER DOCUMENTS

Section	Description	Date
	60% Design – Project Schedule	
	60% Design – Owner & Veolia Equipment List	

Exhibit A

Attachment 2 – Subcontract Price

SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents for the lump sum price ("Subcontract Price") as stated below.

ITEM NO.	DESCRIPTION	SUPPLY	INSTALL	DIRECT HOURS	SUBTIER HOURS	LABOR $	MATERIAL $	EQUIPMENT $	SUBTIER $	TOTAL COST
	INDIRECT COSTS									
	Mobilization									0
	Demobilization									0
	Temporary Facilities									0
	Sales & Use Taxes									0
	Bonds & Insurance									0
	SUBTOTAL INDIRECT COSTS			0	0	0	0	0	0	$0.00
	DIRECT COSTS									
	Dewatering	x	x							0
	005 Liquid Oxygen, Evaporators, Chillers & Pipe									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	22-00-00 Plumbing	x	x							0
	010 Ozone Generation Building 3									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	04-00-00 Masonry	x	x							0
	05-21-00 Roof Specialties	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-51-00 Built-Up Bituminous Roofing	x	x							0
	08-00-00 Openings	x	x							0
	21-10-00 Water-Based Fire-Suppression Systems									0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	015 High Rate Flocculation/Sedimentation - Unit 5									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-40-00 Roofing and Siding Panels	x	x							0
	017 Ozone Contactor Tank									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	020 Filters									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	04-00-00 Masonry	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-40-00 Roofing and Siding Panels	x	x							0
	08-00-00 Openings	x	x							0
	09-20-00 Plaster & Gypsum Board	x	x							0
	045 Drying Beds - Sludge Staging Allowance									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	052 Dry Chemical Feed Building 3 - Lime									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	04-00-00 Masonry	x	x							0
	05-40-00 Cold-Formed Metal Framing	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	05-50-10 Structural Metal Frame	x	x							0
	07-00-00 Thermal & Moisture Protection	x	x							0

ITEM NO.	DESCRIPTION	SUPPLY	INSTALL	DIRECT HOURS	SUBTIER HOURS	LABOR $	MATERIAL $	EQUIPMENT $	SUBTIER $	TOTAL COST
	07-41-00 Roof Panels	x	x							0
	07-71-00 Roof Specialties	x	x							0
	08-00-00 Openings	x	x							0
	21-10-00 Water-Based Fire-Suppression Systems									0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	053 Ferric Sulfate - South System Chemical Storage 2									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	054 Coagulant Aid Polymer Building									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	04-00-00 Masonry	x	x							0
	05-21-00 Roof Specialties	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-51-00 Built-Up Bituminous Roofing	x	x							0
	08-00-00 Openings	x	x							0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	057 Ferric Sulfate - North System Chemical storage									0
	05-50-00 Metal Fabrications	x	x							0
	067 Belt Filter Press Feed Pump									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	070 Solids Dewatering									0
	03-30-00 Cast-In-Place Concrete	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	TESTING & INSPECTIONS	x	x							0
	MISCELLEANOUS COST (To Be Defined)	x	x							0
	SUBTOAL DIRECT COSTS			0	0	0	0	0	0	0
	GRAND TOTAL			0	0	0	0	0	0	0

Quantities provided herein are for bid evaluation purposes only. The Subcontractor will be responsible to complete the scope or Work for the Subcontract Price regardless of quantities stated herein

TOTAL SUBCONTRACT PRICE

In Words: Twelve Million Four Hundred Twenty One Six Hundred Twenty Dollars 65/100

In Figures: $ 12,421,620.65

SUBMITTAL LEAD TIME:

In Weeks: 6 weeks

EQUIPMENT FABRICATION AND DELIVERY LEAD TIME (if applicable):

In Weeks: 12 weeks

Exhibit A

Attachment 2 - Subcontract Price

Select one of the following:

☐ SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents on a time and material basis in accordance with the fee schedule provided in Attachment __ to this Exhibit A. The fee schedule shall be subject to the review and approval of CONTRACTOR. SUBCONTRACTOR shall not exceed a total cost of $_____. The total cost of the Subcontract Work based on the time and material expended in accordance with the Subcontract Documents shall be the "Subcontract Price."

☑ SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents on unit price basis in accordance with the unit rate schedule provided in Attachment __ to this Exhibit A. The unit rate schedule shall be subject to the review and approval of CONTRACTOR. SUBCONTRACTOR shall not exceed a total cost of $_____. The total cost of the Work on the unit rate basis shall be the sum of the unit rates multiplied by the respective number of units actually furnished and installed in accordance with the terms of this Agreement. The sum of such unit rates multiplied by the respective number of units furnished and installed in accordance with the terms of the Subcontract Documents shall be the "Subcontract Price."

Exhibit A
Attachment 3 - Schedule for Completion

Schedule for performance of the Subcontract Work.

Time is materially important in the performance of this Subcontract.

The schedule requirements for the Subcontract Work are as follows and/or attached herein:

Select one of the following:

☐ All Work shall be completed within_____calendar days after CDM Constructors, Inc. issues the written notice to proceed

☐ All Work shall be completed by_____or in accordance with the following milestones:

☑ SUBCONTRACTOR shall complete the Work in accordance with the schedule as attached herein.

Contractor reserves the right to revise the schedule for performance of the Work in accordance with the terms of the Subcontract.

Exhibit A

Attachment 4 - Changes in the Work

The cost or credit to the CONTRACTOR resulting from a change in the Work shall be determined in one or more of the following ways:

1. by mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

2. by unit cost or time and material prices as provided for in this exhibit or subsequently agreed by cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

3. as otherwise mutually agreed.

Pending final determination of cost to the CONTRACTOR, payments on account shall be made periodically. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of the net increase, if any, with respect to that change.

If unit prices are provided for or subsequently agreed upon, and if quantities originally contemplated are so changed in a proposed Change Order that application of agreed unit prices to quantities proposed will cause substantial inequity to the CONTRACTOR or SUBCONTRACTOR, applicable unit prices shall be equitably adjusted.

1. LUMP SUM / FIXED PRICE BASIS

1.1. If CONTRACTOR elects to have SUBCONTRACTOR perform changes on a lump sum or fixed price basis, SUBCONTRACTOR shall estimate the changes from approved drawings and specifications, or as directed by CONTRACTOR and submit a fixed price with detailed back-up information.

1.2. If appropriate, SUBCONTRACTOR shall submit fixed price changes to the Work on a drawing by drawing basis with a summary of quantity, material cost and labor cost for each drawing.

1.3. Changes which involve sub-subcontractors shall also be estimated in accordance with 1.2 with SUBCONTRACTOR's mark-up clearly shown. SUBCONTRACTOR shall be responsible for review and verification of all sub-subcontractor quantities, material cost, and labor cost prior to submission to CONTRACTOR for review.

2. TIME AND MATERIALS

2.1. When performing extra work on a time and material ("T&M") basis, SUBCONTRACTOR must submit daily time sheets to CONTRACTOR documenting the exact number of manhours and equipment hours worked. Each timesheet item must be signed by both SUBCONTRACTOR's and CONTRACTOR's responsible field representative.

2.2. If CONTRACTOR elects to have SUBCONTRACTOR perform extra work on a T&M basis, then this work shall be performed in strict accordance with the rates stated below.

2.2.1. **LABOR.** SUBCONTRACTOR shall be reimbursed for labor associated with CONTRACTOR authorized extra work in accordance with the attached Exhibit A, Attachment 4, Schedule 1 - all-inclusive hourly labor rates. SUBCONTRACTOR shall provide labor classifications and all-inclusive hourly rates (excluding SUBCONTRACTOR's mark-up) for all sub-SUBCONTRACTORs as a separate attachment hereto. SUBCONTRACTOR shall provide premium time adder information in a similar manner.

NOTE: Above labor rates are all-inclusive of supervision above general foreman/superintendent, payroll taxes, insurance, benefits, scaffolding materials, consumable supplies, small tools less than $1,500.00 in value, transportation, temporary facilities, overheads (jobsite and home office) and profit.

2.2.2. **MATERIAL.** SUBCONTRACTOR shall furnish permanent materials on a cost plus basis at actual delivered cost, less trade discounts, plus Percent (12.0%) plus applicable taxes. Markup includes any required receiving, unloading, warehousing, and weather protection.

2.2.3. **EQUIPMENT.**

2.2.3.1. Owned Equipment: SUBCONTRACTOR shall provide owned equipment on a fueled and maintained rental basis in accordance with SUBCONTRACTOR's Equipment Rental Schedule included herein as Exhibit A, Attachment 4, Schedule 2. However, cost for any small tools or equipment less than $1,500 in value shall be included in the all-inclusive hourly labor rates established in paragraph 2.2.1.

2.2.3.2. Third Party Equipment: Rental of third party equipment will be reimbursed at actual invoice cost plus applicable taxes plus Percent (11.0%) of such cost for all overheads (jobsite and home office), insurances and profit. Fuel and normal maintenance will be reimbursed at actual cost. Damage to third party equipment will be to SUBCONTRACTOR account.

2.3. SUB-SUBCONTRACTS. Actual sub-subcontract cost, less trade discounts, plus Percent (14.5%) of such cost for all overheads (jobsite and home office) and profit.

3. UNIT COST

3.1. If CONTRACTOR elects to have SUBCONTRACTOR perform extra work on a unit price basis, then this work shall be performed in strict accordance with the unit prices attached herein. CONTRACTOR reserves the right to select the unit price option for Extra-Work.

3.2. The unit prices attached as Exhibit A, Attachment 4, Schedule 3, includes all of SUBCONTRACTOR's direct and indirect costs, overhead (jobsite and home office) and profit in accordance with Section 10.4 of the Subcontract. All unit prices are firm for the duration of this Agreement and are not subject to escalation of any sort. All unit prices include all labor, materials, supervision equipment, fuel and all else required to furnish work completely and properly installed (in accordance with the applicable specifications and Appendices referenced in this Agreement). All installed unit prices would be applicable for both "Adds" and "Deletes" to the Work. Should any of the work items described in the unit price schedule be performed by a Sub-subcontractor to SUBCONTRACTOR, the unit price shown shall include SUBCONTRACTOR's mark-up.

BUYER – THIS DOCUMENTS NEEDS TO BE MODIFIED BY THE PROJECT TEAM

Exhibit A

Attachment 5 – General Project Requirements

The following additional requirements are incorporated herein and made part of this Subcontract.

1. SUBMITTALS (with Subcontract) 17
2. SUBMITTALS (for review or approval) 17
3. MANUFACTURER'S ON-SITE SERVICES 18
4. SPARE PARTS 18
5. HEALTH AND SAFETY 18
6. QUALITY ASSURANCE AND QUALITY CONTROL 19
7. SCHEDULE AND PROGRESS REPORTING 20
8. PERMITS 21
9. SUBCONTRACTOR INTERFACE WITH CONTRACTOR 21
10. MOBILIZATION ACTIVITIES AND SITE REQUIREMENTS 21
11. MATERIAL MANAGEMENT 22
12. HAZARDOUS WASTE 23
13. AS-BUILT DRAWINGS 23
14. REWORK 23
15. TEMPORARY FACILITIES 24
16. TEXTURA PAYMENT MANAGEMENT 26
17. MISCELLANEOUS 27
18. DIVISION 1 DOCUMENTS 27
19. ATTACHMENTS 27

1. SUBMITTALS (with Subcontract)

Within ten (10) days of notice of award, Subcontractor shall submit the following:

Signed Subcontract
Certificate of insurance
Performance and Payment Bonds
Subcontractor's Construction Schedule
List of required shop drawings and submittals and associated submission and required review schedule, as applicable
Required Documentation including the SF1413, LCP Tracker information, E-Verify documentation and other documents found as attachments to the Exhibit H – Invoicing Instructions.
State Revolving Fund (SRF) forms per Exhibit M

2. SUBMITTALS (for review or approval)

Submittals, Shop Drawings, and Engineering Data shall be in accordance with all applicable specification sections and shall incorporate the following requirements:

2.1 Virtual Design and Constructions (VDC)

2.1.1 Attached is a copy of CCI's standard VDC model submittal requirements. Please confirm you will be able to submit a model of your equipment in accordance with specification number 013126

2.2 Shop drawings and all required submittals will be reviewed no more than twice at CDM Constructors Inc. expense; all third and subsequent reviews will be performed at the Subcontractor 's expense if resubmittals are required due to Subcontractor negligence in providing complete and/or correct submittals. Any new comments inserted (not originally incorporated in first or second review) will be addressed and performed by the Subcontractor at CDM Constructor Inc.'s expense, if additional submittals are required to address new comments. Shop drawing review of any third or additional submittals pursuant to new comments incorporated will be performed at CDM Constructor Inc.'s expense.

2.3 Schedule delays associated with Subcontractor's negligence in providing or obtaining complete and/or correct submittals will not be accepted. Nor will schedule impacts be accepted associated with delayed or late equipment order placement or lack of expediting.

2.4 SUBCONTRACTOR shall submit all shop drawings, fabrication drawings, samples and other data directly to CONTRACTOR as required by the Subcontract Documents. SUBCONTRACTOR shall submit all such documents in a timely and sequential manner consistent with the Subcontract Documents and good construction practice and in a manner that allows time for review, action and dissemination of submittal information prior to the performance of Subcontract Work affected thereby, including the purchase and/or installation of material or equipment. No portion of the Subcontract Work requiring submission of a submittal shall be commenced until the appropriate submittal has been approved by OWNER and/or others as required by the Subcontract Documents. All such portions of the work shall be in accordance with approved Submittals.

2.5 Subcontractor shall prepare, review, approve and submit to Contractor within ten (10) days after the date of this Subcontract, or earlier if directed by Contractor, all required Submittals in sufficient form, number and in such sequence as to cause no delay, disruption or interference in Subcontractor's work or in the work of Contractor, any other contractor, any subcontractors and/or Owner's own forces.

2.6 By approving and submitting such Submittals, Subcontractor represents that it has coordinated all such Submittals, reviewed them for accuracy and completeness as well as compliance with the Subcontract Documents, and determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that it has checked and coordinated the information contained within such Submittals with the requirements of Subcontract Work and of the Subcontract Documents. Submittals submitted to Contractor without evidence of such Subcontractor's approval may be returned for resubmission.

2.7 If any submittal contains any variation from the requirements of the Subcontract Documents,

SUBCONTRACTOR shall call such variation to CONTRACTOR's attention through clouding, notes and highlighting and specifically describe such variations in writing separate from the Submittal and shall also fulfill the requirements of the Prime Contract related to such variation.

2.8 SUBCONTRACTOR shall not be relieved of responsibility for any deviation from the requirements of the Subcontract Documents by CONTRACTOR's forwarding any submittals to the OWNER for approval thereof. In addition, no transmittal or approval of any of the foregoing by CONTRACTOR or OWNER shall under any circumstances: alter the requirements of this Subcontract, relieve SUBCONTRACTOR from responsibility for any errors or omissions in such submittals, or relieve SUBCONTRACTOR from responsibility for complying with the requirements of the Subcontract Documents, except with respect to variations expressly described and approved pursuant to the requirements of the Subcontract Documents.

2.9 If SUBCONTRACTOR determines in its performance of the Subcontract Work that additional or different work may be necessary, SUBCONTRACTOR will notify CONTRACTOR before performing such tasks and submit a request for a Change Order.

3. MANUFACTURER'S ON-SITE SERVICES

Manufacturer's Onsite Services for Installation, Testing, Start-Up, Commissioning, and Owner Training shall incorporate the following requirements in addition to all other requirements specified by the project documents:

3.1 Manufacturer's representative shall be qualified and approved to perform the work, training and testing as required by Specifications.

3.2 Manufacturer's onsite services for installation instruction, pre-start-up inspection, testing, start-up, commissioning, Owner instruction, and services during the warranty period for all components of the Complete Systems shall be as defined herein and per all Contract Documents referenced herein.

3.3 Coordination for manufacturers' services of/with all individually-supplied system components is required under this scope of supply.

3.4 Manufacturer's onsite services as defined herein are based on requirements as specified in the plans and specifications; however, any onsite manufacturer's services in addition to this amount which may be required as a result of negligence of the Subcontractor shall be provided as needed and at no additional expense to CDM Constructors Inc.

3.5 Subcontractor shall coordinate with CDM Constructors Inc. and manufacturer to mutually develop a start-up and commissioning plan which meets all requirements and is coordinated with the overall project schedule.

3.6 Manufacturer's onsite services must be coordinated with CDM Constructors Inc. and overall project schedule, and must be provided continuously and in accordance with a start-up and commissioning plan mutually developed and agreeable between CDM Constructors Inc. and Subcontractor.

3.7 Required days of manufacturer representative field testing service may not be consecutive. Where a number of days are specified for manufacturer's services, the number of days shall be considered a minimum; manufacturer shall assume a sufficient allocation of service days to meet all system start-up needs as required.

3.8 Operation and maintenance manuals are required submittals. A factory representative shall be provided to instruct representatives of the Owner and Engineer on proper operation and maintenance as required.

3.9 Representatives must also be available as needed to support additional performance testing and to address any issues that may arise throughout the testing and startup.

4. SPARE PARTS

Spare Parts shall be provided as specified by the scope of work and/or specifications.

5. HEALTH AND SAFETY

Subcontractor shall comply with all federal, state and local health and safety requirements, including the

CDM Constructors Inc. Site Specific Health and Safety Plan and/or Health and Safety Protocol.

5.1 CDM Constructors Inc.'s Health and Safety Plan shall be reviewed and adhered to for the minimum acceptable standard of care. All workers to be assigned to the project site shall complete the required onsite safety briefing prior to beginning work.

5.2 Subcontractor shall submit its firm's health and safety program for review and approval by CDM Constructors, Inc. It shall be specific to the needs of this project, acceptable to both CDM Constructors Inc. and the Owner, and complied with throughout the duration of the work.

5.3 Subcontractor is responsible for facilitating weekly (minimum) safety tailgate meetings with its project personnel. Documentation of such weekly meetings and any other documentation related to project safety must be submitted to CDM Constructors Inc.'s site supervisor on a weekly basis.

5.4 Safety glasses must be worn at all times on site. High visibility vests must be worn at all times while working outside. All workers must be tied off when working over 6 (six) feet off the ground unless in an approved scaffolding system. All other work shall be performed per CDM Constructors Inc. and OSHA standards.

5.5 CDM Constructors Inc. will hold a three strike policy throughout the project on minor safety violations. The third time an employee is witnessed in violation they will be asked to leave the project. CDM Constructors Inc. will hold a one strike policy throughout the project on major safety violations. If an employee is observed in a major safety violation or anything else that could result in a major accident or incident, they will be asked to leave the project immediately.

5.6 Subcontractor shall coordinate lock out and tag out procedures with CDM Constructors Inc.

6. QUALITY ASSURANCE AND QUALITY CONTROL

Subcontractor shall comply with CDM Constructors Inc. QAQC Plan and any Owner-required QAQC Plans. Proposer shall be required to submit for review and approval, a Subcontactor Quality Control Plan. It shall include but is not limited to: letter of authorization for Quality Control Manager; submittal register; inspection and testing plan; material receiving, storage, and control; Over, Short and Damaged (OS&D) protocols, quality hold points for project schedule updates; project sequencing for the work in all areas; meetings and record keeping. The QC plan for use shall be maintained and followed at all times.

6.1. CDM Constructors requires that each Subcontractor carry out a well-planned and organized Quality Control program for the execution of their work. A good Quality Control Plan should mitigate the need for re-work, reduce any schedule delays associated with corrective work, and result in proper documentation for record of the work.

6.2. Quality Assurance/Quality Control Manual

6.2.1. Each Subcontractor shall prepare a quality assurance/quality control manual which shall describe the subcontractor's program and procedures for complying with the requirements of project documents, governing regulatory codes, and any provisions of the appropriate sections of the CDM Constructors Quality Control Manual required for inspections and testing requirements.

6.2.2. Each Subcontractor shall have a dedicated quality control manager with stop work authority who will be responsible for quality on the project.

6.2.3. A Subcontractor may: (1) use forms, reports, check sheets and checklists or (2) submit altered forms, reports, etc., which provide the same information or (3) submit quality control procedures for approval during the preparatory meetings which may call for different or more or less forms, reports, etc., subject to the approval of the CDM Constructor's Quality Assurance Manager.

6.2.4. Subcontractor's quality control manual shall be submitted to CDM Constructors prior to mobilization. Construction shall not begin until the manual has been reviewed for comments by the site Quality Assurance Manager and a Mutual Understanding meeting has been held to discuss all quality features on the project.

6.3. Responsibilities

6.3.1. The Project Superintendent is responsible for assuring that each Subcontractor complies with all project and regulatory code quality requirements. Also, the Quality Assurance Manager will assist the Project Superintendent to ensure subcontractor compliance.

6.3.2. CDM Constructors Quality Assurance Manager may:

- Review all construction activities to assure that proper quality control work processes
- Review records of calibration and performance of testing equipment
- Inspect and participate in tests of work processes, equipment, and/or systems as may be determined necessary during the course of the project
- Perform specific inspections as described in this manual
- Continually monitor and audit the performance of the subcontractor to ensure quality construction within prescribed limits

6.3.3. The Subcontractor Quality Control Manager shall be informed of all disputes concerning quality control matters. He/she shall notify CDM Constructor's Quality Assurance Manager if quality control disputes and questions are not resolved to his/her satisfaction in the field by normal interface or procedure such as those prescribed for deficiencies / rework, non-conformance reports, and any preventive and/or corrective actions.

6.4. Inspection reports and records required by Subcontractor's Inspection and Testing Plans (ITP's) to demonstrate conformance with the plans and specifications shall be prepared by the Subcontractor's Quality Control Manager and submitted to the CDM Constructor's Quality Assurance Manager unless otherwise specified.

6.5. CDM Constructors shall perform inspections prescribed by applicable contract plans and specifications under the supervision of the CDM Constructors Supervisors and/or Quality Control personnel.

6.6. CDM Constructors reserves the right to audit the Subcontractor's conformance with their Manual for the quality control/quality assurance program. The audit will be graded based on a point system.

6.7. See Job QC Audit Report referenced in Attachment 1 and 2 of this Exhibit.

7. SCHEDULE AND PROGRESS REPORTING

Subcontractor shall be required to comply with the following schedule requirements:

7.1. CDM Constructors Inc. requires that each subcontractor carry out a well-planned and organized schedule and project controls program for the execution of their work.

7.2. CPM Schedule

7.2.1. Schedule must be cost and resource/manpower loaded so as to accurately plan the work.

7.2.2. Review or acceptance by CDM Constructors Inc. and/or the Owner of any schedule provided by the subcontractor shall not relieve Subcontractor from responsibility for complying with the contract documents, adhering to those sequences of work indicated in or required by the Contract Documents, or from completing any work omitted from the submitted schedule, within the contract times.

7.2.3. Subcontractor shall provide weekly updated 3-week look-ahead schedules for field coordination of the Work.

7.3. Shop drawings which are not approved within the first two review cycles shall be rescheduled on the CPM schedule and recovery of lost time shall be responsibility of Subcontractor in both time and cost. All shop drawings and submittals required for Scope of Work shall be submitted in accordance with the construction schedule and milestones. It is the responsibility of the Subcontractor to submit the required shop drawings and other submittals at times appropriate for achieving the work in accordance with the project schedule.

7.4. Where work may not be continuous, sufficient resources (qualified labor, equipment, tools, and materials) shall be prepared and available for immediate utilization at all times throughout the proposed duration of the work.

8. PERMITS

Subcontractor shall obtain and adhere to all local, state, and federal permits determined as required for the complete scope of work per the requirements and Subcontractor ’s proposed means and methods other than those being secured by others. Subcontractor shall familiarize itself with and adhere to requirements and conditions of all final permits obtained for the works by others.

9. SUBCONTRACTOR INTERFACE WITH CONTRACTOR

Subcontractor shall regularly interface with Engineer and CDM Constructors Inc.'s site supervisor to plan work and access areas under construction in advance of work and attend weekly coordination meetings.

10. MOBILIZATION ACTIVITIES AND SITE REQUIREMENTS

10.1. Subcontractor shall familiarize with the work areas, incorporate the protection of all existing water mains, guard rails, utilities, facilities, buildings, structures, vegetation, poles, signs, services to buildings, utilities in the street, gas pipes, water pipes, hydrants, sewers, drains, electric and telephone cables, and equipment during the execution of the work, whether or not they are shown on the drawings, and immediately repair any damage resulting from the work.

10.2. Subcontractor shall make all provisions for the maintenance of existing roadways for the duration of the works and the replacement of and/or repair to existing access roads as needed for restoration to their original condition at the completion of the works.

10.3. Subcontractor shall make all provisions for the maintenance and protection of traffic in all work areas associated with the scope of work in accordance with the Project Documents and shall include, work area coordination, cones, barricades, drums, and markers, vehicle restrictions, signage, ingress and egress maintenance, pavement markings, flaggers, and pedestrian traffic maintenance as needed.

10.4. Contractor will designate the boundary limits of access roads, parking areas, storage areas, and construction areas. Subcontractor shall not trespass in or on areas not so designated. Subcontractor shall be responsible for keeping all of its personnel out of areas not designated for Subcontractor’s use. In the case of isolated work located within such areas, Contractor will issue permission to specific Subcontractor personnel to enter and perform the Work.

10.5. Subcontractor, for the duration of the Contract, shall maintain all excavations, embankments, haul roads, plant sites, waste disposal areas, borrow areas, and all other work areas free from dust, as determined by Contractor. Industry-accepted methods of dust control suitable for the area involved, such as sprinkling or similar methods, are to be approved by Contractor. No separate payment will be made for dust control.

10.6. At its own expense, repair public road for any damages caused by Contractor transportation of materials to and from Site. Contractor shall be responsible to adhere to county road haul permits and applicable road bans.

10.7. No more than one office trailer shall be mobilized to the site complex unless prior approval is obtained by CDM Constructors Inc.

10.8. Subcontractor shall be responsible to remove and properly dispose of all trash and work-related debris daily for the duration of the work. Dispose of all residues resulting from the work including surplus excavation, broken pavement, lumber, equipment, temporary structures, and any other refuse at the completion of the work and leave the work site in a neat and orderly condition. If Subcontractor fails to comply with the provisions of this section, Contractor is entitled to carry out such Work at Subcontractor’s risk and expense.

10.9. Subcontractor shall perform all survey and control layout work necessary to perform the scope of work (base line control and bench will be provided by CDM Constructors Inc.). Request any survey control for alignment by CDM Constructors Inc. in a timely manner, and confirming all layout work with CDM Constructors Inc.'s site supervisor.

10.10. Subcontractor shall clean soil from vehicles leaving the site to preclude transport of soil onto local roads.

10.11. Subcontractor shall provide temporary ventilation or heat (if required by specifications) for work as necessary.
10.12. Subcontractor shall coordinate work with other SUBCONTRACTOR's working in the area.
10.13. Subcontractor shall provide additional temporary interior/exterior lighting for the work as necessary.
10.14. Subcontractor shall provide all temporary work, equipment construction, facilities or any other items that may be required to maintain, upkeep and construct their Work.
10.15. Subcontractor shall, at its expense, provide suitable facilities to prevent the introduction of any substances or materials into any stream, lake or other body of water, which may pollute the water or constitute substances or materials deleterious to fish and wildlife.
10.16. Subcontractor shall so perform its Work as not to discharge into the atmosphere from any source whatever smoke, dust, or other air contaminants in violation of the laws, rules and regulations of the governmental entities having jurisdiction.
10.17. Subcontractor shall provide proper and adequate drainage for its construction, storage, parking and fabrication areas including the necessary piping for disposal to Site ditches, or sewers. Temporary drainage facilities shall be removed upon completion of Work unless Contractor directs to have the facilities left in place. Subcontractor shall be responsible for providing and operating any temporary pumps for keeping its area drained. Subcontractor shall furnish and place any necessary surfacing material to avoid loss of time due to muddy conditions.
10.18. Contractor will designate entrances and parking for the Subcontractor's use. Access to the work areas will be restricted to authorized Subcontractor personnel only.
10.19. Site work hours will be designated by Contractor.
10.20. Subcontractor is responsible for security of laydown area
10.21. Subcontractor shall maintain its facilities in a safe and sanitary condition at all times.

11. MATERIAL MANAGEMENT

11.1. Subcontractor is responsible for all material and equipment delivered to the project site associated with the Scope of Work defined in the Subcontract. The Subcontractor will be responsible for, but not limited to; receiving, conducting receipt inspection, offloading and loading, storage and distribution of various materials and equipment, maintenance of all materials as required until ready for installation in accordance with Specifications and manufacturer recommendations. Subcontractor shall take care, custody and control of Subcontractor and Contractor supplied materials and equipment from the time Subcontractor takes possession by off-loading the same from third party transport. Subcontractor remains totally responsible for the materials to be supplied by Subcontractor to complete the Work.
11.2. The delivery and acceptance of all such materials and equipment shall be recorded in writing. Subcontractor shall furnish material receiving reports (MRR); and, in the case of overages, shortages, or shipment damage, prepare over, shortage, and damage reports (OS&D) for Contractor supplied materials. MRR's will be issued within twenty-four (24) hours of receipt of materials. OS&D's will accompany MRR's where applicable. Damaged materials will be reported upon receipt inspection for review by Contractor's onsite Construction Manager.
11.3. Subcontractor shall offload, unpack, and dispose of packing material of equipment furnished by others and installed under this scope of work.
11.4. All materials shall be properly supported off of the ground and out of mud and water. Dunnage or other means of support shall be provided by Subcontractor at its expense
11.5. Laydown areas shall be laid out on a grid and materials will be cataloged to the storage area grid to effect ease of retrieval.
11.6. Subcontractor shall be solely responsible for maintaining all items in accordance with the manufacturer instructions until turnover of the Work to Contractor at the time of Acceptance.
11.7. Subcontractor shall be responsible for the repair or replacement of any item damaged by Subcontractor without any cost or schedule impact to Contractor until turnover of the Work to Contractor at the time of Acceptance.

11.8. No project materials or equipment shall be taken off the Project Site unless Subcontractor has written approval issued by Contractor to do so.
11.9. Subcontractor shall provide a material management plan for review and approval by Contractor.
11.10. Use of areas for staging and storage of materials and equipment are to be requested and approved by CDM Constructors, Inc. in advance.
11.11. Subcontractor shall obtain and pay for use of storage or work areas if needed to perform the work.

12. HAZARDOUS WASTE

12.1. All solid and liquid wastes, and hazardous substances and materials introduced or generated by Subcontractor (including but not limited to paints, solvents, cleaners, fuels, lubricants, waste oils, construction/demolition wastes, etc.) during the performance of the Work shall be managed and disposed of by Subcontractor in full compliance with all applicable laws, statutes, regulations, ordinances, and rules. Subcontractor shall immediately report all spills, leaks and reportable releases to Contractor in writing. Any such spill, leak or release shall be handled and disposed of properly. In the event of any question in this regard, Subcontractor shall confer with Contractor's Construction Manager. Subcontractor shall maintain on site, MSDS documentation of all hazardous substances and materials introduced or generated by Subcontractor and communicate said documentation with Subcontractor's supervision, craft workers, and employees prior to handling said substances or materials
12.2. Under no circumstances shall hazardous wastes be commingled with non-hazardous wastes
12.3. If Subcontractor encounters hazardous or unknown materials during its performance of the Work, Subcontractor shall immediately cease work and report the discovery of such materials to Contractor's Construction Manager for resolution
12.4. Subcontractor shall not accumulate, store, transport, treat, recycle, reuse or dispose of any hazardous waste, radiological waste or industrial waste of any kind belonging to Contractor/Owner unless Contractor/Owner and Subcontractor agree to the terms of a separate written waste management agreement for such purposes, which has been executed by authorized representatives of all parties.

13. AS-BUILT DRAWINGS

13.1. Where necessary, "Approved for Construction" drawings shall be marked up (redlined) to reflect "as built" conditions where changes in vertical and horizontal location dimensions, types, substitutions, and so forth have been made by Subcontractor. As built drawings will be used to confirm quantities installed that are either not defined by AFC drawings or are the subject of approved changes to AFC drawings made in the field. The as built "Record Set" of AFC drawings and specifications shall be updated monthly and may be reviewed by Contractor prior to payment of monthly progress invoice. Payment of monthly progress payment is contingent upon "As Built" drawings being submitted for review by Contractor confirming the record set is current
13.2. Within fourteen (14) days after completion of Work, one (1) set of "as-built" reproducible drawings shall be marked and signed by the authorized Subcontractor's Representative as testimony of validity and presented to Contractor's Resident Construction Manager, or its designated representative
13.3. Subcontractor shall maintain record drawings of work and any work directives issued by CDM Constructors Inc. Within fourteen (14) days after completion of Work, "as-built" drawings shall be provided to Contractor in CAD-format, or as otherwise specified by the requirements herein, and shall be marked by the authorized Subcontractor's Representative as testimony of validity.

14. REWORK

14.1. Subcontractor shall schedule the Work in such a manner that when materials, such as, structural steel and pipe spools are being installed and are found not to fit, the crafts involved in the installation shall have other work on hand on which they can continue to work. Subcontractor shall be responsible for determining the cause of the misfit and obtaining Contractor's approval prior to performing any rework.

14.2. Subcontractor shall maintain, and have available for Contractor's review, a marked set of drawings indicating what modifications were approved and what additional Work was involved in making the modifications

14.3. Subcontractor's rework required due to failure to meet Specification, Drawings, etc. shall be to Subcontractor's account.

15. TEMPORARY FACILITIES

15.1. Subcontractor shall be responsible for the mobilization, installation, and maintenance of its temporary facilities as detailed by the following table. Subcontractor shall demobilize its temporary facilities upon completion of its Work and restore the site to its "as received" condition. Installation of temporary facilities will be coordinated with and approved by Contractor.

		By Contractor		By SC	
Item	**Description**	**No Cost To SC**	**At Cost To SC**	**At SC'S Cost**	**Comments**
1	*Temporary Buildings*				
a	Office Trailers			X	
b	Change Houses			X	If necessary
c	Toilet Trailers			X	If necessary
d	Brass Alley				N/A
e	Fabrication Shops				N/A
f	Other (list)				
2	*Lifting Equipment*				
A	Cranes at Jobsite			X	
B	Cranes at Offsite Areas			X	
C	Hydraulic cranes at Jobsite			X	
D	Hydraulic cranes Offsite Areas			X	
e	Material Hoists/forklifts			X	
f	Elevators			X	
g	Special Rigging			X	
f	Overhead Cranes			X	
3	**Rail Siding**				
a	At Jobsite				N/A
b	At Offsite Areas				N/A
4	**Erection Equipment**				
a	Scaffolding and Ladders			X	
b	Welding Machines			X	
c	Air Compressors			X	
d	Weld Gases			X	
e	Other (incl. Tools and Consumables)			X	
5	**Temporary Power**				

Item	Description	By Contractor		By SC	Comments
		No Cost To SC	At Cost To SC	At SC'S Cost	
a	Utility Power				
b	Sources (Work area-150' rad)				
c	110/220v/100a to SC Office (Temp facilities)			X	Contractor shall supply a single source connection for distribution by Subcontractor
d	110/220v/100a in SC Work Areas (for small tools only)	X			Supplied at single source for distribution by Subcontractor
e	480v/200a in SC Work Areas			X	
f	Other				
6	**Water (at single point)**				
a	Construction Water			X	As defined in the Division 1 Specifications.
b	Drinking Water			X	As defined in the Division 1 Specifications.
c	Water Source			X	As defined in the Division 1 Specifications.
d	Cooling, Dispensers, Cups			X	
e	For hydrotest				N/A
f	Demineralized for hydrotest				N/A
7	**Lighting**				
a	General Area Lighting			X	
b	SC Work Areas (specific)			X	
c	Other			X	
8	**First Aid Services**				
a	Ambulance			X	
b	First Aid Service			X	
9	**Sanitary Facilities**				
a	Chemical Toilets (serviced)			X	
b	At specific area for SC			X	
c	Toilet Trailers			X	If necessary
10	**Waste Disposal**				
a	Furnish Dumpsters & Trash Removal			X	
b	General Clean up			X	
c	Clean-up of SC Waste			X	
d	Disposal of SC Hazardous Waste			X	Must be coordinated with Owner
e	Removal of Existing	X(1)			

Item	Description	By Contractor		By SC	Comments
		No Cost To SC	At Cost To SC	At SC'S Cost	
	Hazards. Waste				
11	**Parking**				
a	Office Parking Lot	X			As defined in the Division 1 Specifications.
b	Craft Parking Lot	X			As defined in the Division 1 Specifications.
c	Bussing from Off site Parking				N/A
12	**Roads and Access**				
a	General access	X			
b	Special Haul Roads				N/A
c	Temporary convenience access				N/A
13	**Storage Facilities**				
a	Laydown Areas	X			SC to be aware of site conditions.
b	Staging Areas	X			Must be coordinated with others
c	Warehouse w/concrete floor and one roll up door. No offices.			X	As necessary
d	Tool Cribs			X	
e	Other (list)				
14	**Temporary Heating**			X	
15	**Food Service**				NA
16	**Security**			X	Security of SC facilities, equipment and material
17	**Other**				
a	Fire retardant clothing				N/A
b	Safety Shoes			X	
C	Office supplies & equip.			X	

Notes:

(1) Owner will be responsible for removal of existing hazardous waste. Subcontractor will immediately report discovery of any hazardous waste during the execution of the Work.

16. TEXTURA PAYMENT MANAGEMENT

Unless otherwise directed or authorized, in writing, by Supplier, all Applications for Payment and all supporting documents (including but not limited to lien waivers, sworn statements, and the like) for Supplier and its sub-subcontractors and suppliers, shall be in electronic format and shall be submitted to CDM Constructors Inc. using the Textura™ CPM payment management system.

16.1. Supplier shall be responsible for the fees and costs owed associated with Supplier's use of the Textura™ CPM payment management system. Subcontractor shall include a similar provision in its sub-subcontracts and purchase orders. Fees to Subcontractors are calculated as 0.18% (18 basis points) of contract value, with a minimum fee of $50 and a maximum fee of $2,500. Fees to Suppliers' sub-subcontractors and suppliers are a fixed fee of $100 per sub-subcontractor or supplier contract.

17. MISCELLANEOUS

17.1. Subcontractor will provide a warranty meeting all requirements herein. A single point of contact shall be provided for warranty issues, with onsite response within 24 hours for all warranty calls that are not critical for operation. Onsite response shall be within 4 hours for all warranty calls that are critical for operation, as determined by CDM Constructors Inc.

18. DIVISION 1 DOCUMENTS

The following modifications are herein incorporated to the Division 1 documents:

18.1. Section #01200, Project Meetings:

18.1.1. Section 1.03 – Delete "10 working days". This specification shall be modified as necessary by the CONTRACTOR. SUBCONTRACTOR will be informed of the applicable modifications.

18.2. Section #01300, Submittals:

18.2.1. Clarification – all submittals shall be sent to the CONTRACTOR at the designated address. Any Engineering review or approval will be obtained by the CONTRACTOR and returned to SUBCONTRACTOR.

18.3. Section #01310, Construction Scheduling:

18.3.1. In case of conflict, the Exhibit A - Scope of Work, Compensation and Schedule, as well as the Exhibit D and Exhibit C shall take precedence over this document.

18.4. Section #01480, Tightness Testing of Liquid Retaining Structure:

18.4.1. Clarification – any requirements SUBCONTRACTOR may have for the use of Owner's effluent water shall be coordinated through the CONTRACTOR.

18.5. Section #01500, Temporary Facilities:

18.5.1. Section 3.03 A. Delete "Power utilized at the Contractor Staging Area shall be paid for by the DN/CMAR." And replace with "Power utilized at the Contractor Staging Area shall be paid for by Contractor." To clarify, the SUBCONTRACTOR shall pay for all required temporary utilities necessary for their trailer, etc. at the staging area. DN/CMAR or CONTRACTOR shall provide a temporary meter setup.

18.6. Section #01560, Site Safety and Security:

18.7. In case of conflict, the site specific safety plan included herein shall take precedence over this document.

19. ATTACHMENTS

The items and associated requirements listed below are hereby included:

Attachment 1: Subcontractor QC Plan Planning and Approval

Attachment 2: QC Audit Forms

Tampa Bay Regional Water Treatment Plant - Surface Water Treatment Plant Expansion

Hillsborough County, Florida

3C CONSTRUCTION CORPORATION

3601 NW 55 Street, Suite 201, Miami, FL 33142-2701

(305) 638-5511 Phone estimating@3cconstructioncorp.com

Date: 10/24/24

Ver: 2

Scheduled Bid Date: 11/01/24

STRUCTURAL FRAMEWORK SCOPE-PROPOSAL

1	***SCOPE SECTIONS***				Yes	No		N/A	Comments
2	DIVISION 2	Civil Concrete				N			
3	DIVISION 3	Structural Concrete			Y				
4	DIVISION 4	Structural Masonry			Y				
5	DIVISION 5	Structural Steel			Y				
6	DIVISION 6	Structural Rough Carpentry				N			
7	***DOCUMENTS - PLANS - ADDENDUMS - AMENDMENTS***		Date	Rev	Yes	No		N/A	Comments
8	General Set		08/01/24	60%	Y				
9	Architectural Set		08/01/24	60%	Y				
10	Structural Set		08/01/24	60%	Y				
11	Civil Set		08/01/24	60%	Y				
12	MEP		08/01/24	60%	Y				
13	Landscaping		08/01/24	60%	Y				
14		Addenda #:				N			
15		RFI #: CDM Smith Bid Form		Concrete	Y				
16	***GENERAL PROVISIONS***				Yes	No		N/A	Comments
17	Permits					N			
18	Sales Tax				Y				
19	Insurance:	GL-$2MM, Auto-$1MM, W/C- $1MM	NCCI Mod:	0.66	Y				
20	Insurance:	Umbrella-$5.00MM			Y				
21	Insurance:	US L&H Marine						N/A	
22	Insurance:	OCIP/CCIP/Wrap-Up Participation	Premium:	5.50%		N			
23	Payment & Performance Bond: 24 Months	Swiss RE:	Rate:	0.87%	Y				
24	Payment & Performance Bond: After 24 Months, Per Month Premium		Rate:	1.00%	Y				Add Alt
25	Parking w/ Transportation to / from Parking Area				Y				
26	Control Lines, Bench Mark Elevations					N			
27	Lay-Out from Control Lines and Bench Mark Elevations				Y				
28	MOT; Maintenance of Traffic					N			
29	On-Site Flag Man				Y				
30	Potable Bottled Drinking Water and Ice				Y				
31	Sanitary Facilities: Port-a-Potty		1 per 10			N			By GC
32	Electrical Generators				Y				
33	Material Testing, Inspections					N			
34	Materials Cost Escalation:	Expires:	12/31/25		Y				
35	***EARTHWORK***				Lab	Mat	Eqp	N/A	Comments
36	Dewatering		Rainwater Only		Y	Y	Y		
37	Structural Excavation/Compaction: To Underside of Footings		No Mass Excavation		Y	Y	Y		
38	Structural Backfill/Compaction: To Top Side of Footings		No Mass Backfilling		Y	Y	Y		
39	Remove Excess Fill from Site Generated by Foundation Excavation				N	N	N		
40	Soil Poisoning, Subterrainian Termite Treatment				Y	Y	Y		
41	Fine Grade and Light Compaction for SOG				Y	Y	Y		

42	***FORM WORK for Cast-In-Place Concrete Structure***	Lab	Mat	Eqp	N/A	Comments
43	Formwork/Shoring Shop Drawings/Submittals - Design and Engineering by P.E.	Y	Y	Y		
44	SubStructure: Pile Caps / Grade Beams / Footings / Foundation Walls	Y	Y	Y		
45	SuperStructure: Piers / Columns / Beams / Decks / Walls	Y	Y	Y		
46	Concrete Stairs	Y	Y	Y		
47	SOG w/ Thickened Slab Edges / Edge Forms	Y	Y	Y		
48	Drill and Epoxy Dowels that could not be Installed Through FW	Y	Y	Y		
49	Formwork Required to Create Voids	Y	Y	Y		
50	***CONCRETE - STRUCTURAL***	Lab	Mat	Eqp	N/A	Comments
51	Concrete per Plans + Specs	Y	Y	Y		
52	Super Plasticizer as Required	Y	Y	Y		
53	Place and Finish Concrete - Foundations	Y	Y	Y		
54	Place and Finish Concrete - Vertical Forms (Walls and Columns)	Y	Y	Y		
55	Place and Finish Concrete - CIP Concrete Stairs	Y	Y	Y		
56	Place and Finish Concrete - Metal Pan Stairs	Y	Y	Y		
57	Place and Finish Concrete - Structural Decks/Beams/Walls	Y	Y	Y		
58	Place and Finish Concrete - Toppings and Secondary Pours	Y	Y	Y		
59	Place and Finish Concrete - SOG	Y	Y	Y		
60	Saw Cut Control Joints in SOG	Y	Y	Y		
61	Curing	Y	Y	Y		
62	Concrete Wash-Out Box	Y	Y	Y		
63	***CONCRETE - MASS***	Lab	Mat	Eqp	N/A	Comments
64	Mass Concrete: FDOT 346-3.3 July 2020				N/A	
65	Mix Design w/ <=750 #/CY Cementious				N/A	
66	Concrete Discharge Temperature <95 F				N/A	
67	Thermal Maintenance: Top of Concrete				N/A	
68	Mass Concrete: ACI 207.1R-05	Y	Y	Y	Y	>3'-0"
69	Temperature Control Plan, Designed by Florida Registered PE	Y	Y	Y	Y	>3'-0"
70	Thermistors/Installation	Y	Y	Y	Y	>3'-0"
71	Monitoring/Readings Frequency: 12 HRS	Y	Y	Y	Y	>3'-0"
72	Thermal Maintenance Frequency: 12 HRS	Y	Y	Y	Y	>3'-0"
73	***REINFORCING STEEL***	Lab	Mat	Eqp	N/A	Comments
74	Rebar - Structural C.I.P. (Grade 60)	Y	Y	Y		
75	Rebar - Structural C.I.P. (Weldable) ASTM A706, AWS D1.4	Y	Y	Y		
76	Rebar - Structural Masonry (Grade 60)	Y	Y	Y		
77	Rebar - Detailing / Installation Drawings	Y	Y	Y		
78	Additional Stock Amount:	N	N	N		
79	Wire Mesh	Y	Y	Y		
80	Mechanical Couplers, Lenton Terminators	Y	Y	Y		
81	Galvanized Reinforcing / Epoxy Coated Rebar / MMFX	N	N	N		
82	Chairs, Supports, and Accessories	Y	Y	Y		
83	Rebar Safety Caps	Y	Y	Y		
84	***SITE CONCRETE***	Lab	Mat	Eqp	N/A	Comments
85	Side Walks	N	N	N		
86	Curbs and Gutters	N	N	N		
87	Colored Concrete	N	N	N		

88	***MISCELLANEOUS***	Lab	Mat	Eqp	N/A	Comments
89	Expansion Joint Filler	Y	Y	Y		
90	Expansion Joint Sealant	N	N	N		
91	Vapor Barrier	Y	Y	Y		
92	Construction Joint Keyways	Y	Y	Y		
93	Water Stop	Y	Y	Y		
94	Dove Tail Slots for Masonry Connection	Y	Y	Y		
95	ACI Class "C" Finish	Y	Y	Y		
96	Trash Clean-Up to GC Provided Dumpster	Y	Y	Y		
97	Equipment Pads, Housekeeping Pads	Y	Y	Y		
98	Embeds: Layout	Y	N	Y		
99	Embeds: Installation (Embed Materials Supplied by Others)	Y	N	Y		
100	Anchor Bolts: Layout and Install Anchor Bolt w/ Templates Supplied by Others	Y	N	Y		
101	Grout: Under Equipment, Around Embeds, Gates	N	N	N		
102	Grout: Under Steel Column Base Plates	N	N	N		
103	Shop Drawing Municipality/Governing Authority Review Fees	N	N	N		
104	Punch-out / Repair Work	Y	Y	Y		
105	***MASONRY***	Lab	Mat	Eqp	N/A	Comments
106	Structural Masonry Units	Y	Y	Y		
107	Decorative Masonry: Glass Block, Brick, Glazed Block	Y	Y	Y		
108	Layout	Y	Y	Y		
109	Layout Filled Cells on Working Decks	Y	Y	Y		
110	Formwork: Masonry Associated- TB / TC / Sills / Lintels	Y	Y	Y		
111	Concrete: Masonry Associated - TB / TC / Sills / Lintels	Y	Y	Y		
112	Concrete Grout @ Filled Cells and Bond Beams for Structural Masonry	Y	Y	Y		
113	Sleeves for Masonry Filled Cells	Y	Y	Y		
114	***DEMOLITION***	Lab	Mat	Eqp	N/A	Comments
115	Temporary Shoring Shop Drawings/Submittals - Design and Engineering by P.E.	N	N	N		
116	Asbestos Abatement	N	N	N		
117	Layout	N	N	N		
118	Underpinning-Shoring of Existing Structure	N	N	N		
119	Demolition: Slab on Grade	N	N	N		
120	Demolition: Columnns/Beams/Structural Slabs	N	N	N		
121	Demolition: Masonry	N	N	N		
122	Removal of Debris from Jobsite	N	N	N		
123	***STRUCTURAL PRECAST - PLANT PRECAST***	Lab	Mat	Eqp	N/A	Comments
124		Tees	HC/Fili	Joists/Soffit	Panels					
125	Engineering								N/A	
126	Erection								N/A	
127	Key Grout								N/A	
128	Topping								N/A	
129	Safety								N/A	
130	Hoisting								N/A	

131	***STRUCTURAL PRECAST - SITE PRECAST***					Lab	Mat	Eqp	N/A	Comments
132		Panels	Decks	Columns	Stairs					
133	Engineering								N/A	
134	Casting Bed								N/A	
135	Forming, Reinforcing, Lift Embeds								N/A	
136	Form Liners								N/A	
137	Pour, Place, Finishing Concrete								N/A	
138	Erection, Hoisting								N/A	
139	Key Grout								N/A	
140	Topping								N/A	
141	Safety								N/A	
142	***STRUCTURAL STEEL***					Lab	Mat	Eqp	N/A	Comments
143		Joists	Columns	Beams	Imbeds					
144	Engineering	O	O	O	O	Y	Y	Y		Pending
145	Erection	O	O	O	O	Y	Y	Y		Pending
146	Columns Conc Fill	O	O	O	O	Y	Y	Y		Pending
147	Wedge Anchors	O	O	O	O	Y	Y	Y		Pending
148	Seats	O	O	O	O	Y	Y	Y		Pending
149	Safety	O	O	O	O	Y	Y	Y		Pending
150	Hoisting	O	O	O	O	Y	Y	Y		Pending
151	***STRUCTURAL ROUGH CARPENTRY***					Lab	Mat	Eqp	N/A	Comments
152		Trusses	Connect	Lumber	Stairs					
153	Wood/Metal Trusses								N/A	
154	Engineering								N/A	
155	Embeds and Connector Plates								N/A	
156	Connection Lumber and Fasteners								N/A	
157	Wood Stairs								N/A	
158	Decorative Framing / Trellis / Scrolling								N/A	
159	Safety								N/A	
160	Hoisting								N/A	
161	***HOISTING***					Lab	Mat	Eqp	N/A	Comments
162	Material Handler					Y	Y	Y		
163	Mobile / Helper Cranes					Y	Y	Y		
164	***CONCRETE CONVEYANCE***					Lab	Mat	Eqp	N/A	Comments
165	Truck Pumps, 5" System					Y	Y	Y		
166	Small Pumps, 2" and 3" System					Y	Y	Y		
167	Crane Buckets					Y	Y	Y		
168	Concrete Conveyor					Y	Y	Y		
169	Direct Ready Mix Truck Chute Discharge					Y	Y	Y		
170	***SAFETY***					Lab	Mat	Eqp	N/A	Comments
171	OSHA Protection @ Working Decks					Y	Y	Y		
172	OSHA Protection @ Shored Decks					Y	Y	Y		
173	Compliant Personnel Access to Working Decks					Y	Y	Y		
174	Safety Officer					Y	Y	Y		
175	Concrete Overspray Protection					Y	Y	Y		
176	Temporary Railing at CIP and Metal Stairs					Y	Y	Y		
177	Weekly Toolbox Meetings					Y	Y	Y		
178	***SCHEDULE / WAGES / EXHIBITS***					Yes	No		N/A	Comments
179	Schedule: Approximate Duration of Listed Scope:				Weeks	Y				
180	Federal/State/Local Prevailing Wage Rates			County: Hillsborough	Heavy	Y				

181	***PAYMENT / TERMS / RELEASES***						Yes	No		N/A	Comments
182	Retainage: 5%, Maximum of 5% of Adjusted Contract Amount: FS255.078 (2022)						Y				
183	Monthly Billings						Y				
184	Final Payment (including retainage): Within 60 Days of 98% Billings						Y				
185	Stop Work Rights Retained						Y				
186	Payment With-in 15 Calendar Days of Closing Period.						Y				
187	Expiration of 3C Scope-Proposal			30 Days			Y				
188	12% Interest on Overdue Payments						Y				
189	Releases of Lien: Florida Statutory Language for Partials and Finals						Y				
190	***CERTIFICATIONS / LICENSE***						Yes	No	N/A	Comments	
191	State of Florida: DBPR CILB, General Contractor CG-C043273 Expires 083126						Y				
192	FDOT: Florida UCP DBE, (Part 49, Section 26) Expires 041325						Y				
193	South Florida Water Management District: SBE, #105346 Expires 082725						Y				
194	FEID: 65-0121260			DUNS: 622146314			Y				
195	NAICS: 236200			UEI: JUE9WKJLGZZ5			Y				
196	CAGE: 4NY85						Y				
197	***ALTERNATES / QUALIFICATIONS / CLARIFICATIONS***						Yes	No	N/A	Comments	
198	1	Contiguous Pricing (Optional "OPT")					Y				
199	2	Compacted Structural Base						N			
200	3	Cofferdam, Dewatering, Soil Shoring						N			
201		***Alternate Pricing - ADDITIVE***	Plan	Unit	Unit $$	Quantity					
202	ALT-1	Payment & Performance Bond: Beyond 24 Month Limit		EA	$ 1,021.71	12		N		$ 12,260.52	
203	ALT-2	Pipe Encasement: Reinforced, Formed, Concrete		LF	$ 649.55	100		N		$ 64,955.00	
204	***PRICING***						Yes	No	Opt		
205	**Item**	**Description**	**Plan**	**Unit**	**Unit $$**	**Quantity**					
206	A-1	Mobilization		LS	$ 1,552,702.58	1	Y			$ 1,552,702.58	
207	A-2	Payment & Performance Bond		LS	$ 108,068.10	1				$ 108,068.10	
208		***ActiFlo Tank - Unit 5 Focculation/Sed***	Duration:	24	Weeks						
209	B-1a	Structural Concrete-Mass: Walls	S-2 to S-8	CY-Mass	$ 2,138.54	107	Y			$ 228,823.78	
210	B-1b	Structural Concrete: Base, Walls, Beams, Walkways, Sumps	S-2 to S-8	CY	$ 1,749.32	1132	Y			$ 1,980,230.24	
211	B-2	Fillet Grout: Sloped Infill, Topping	S-2 to S-8	CF	$ 125.54	5386	Y			$ 676,158.44	
212	B-4	Structural Steel: Stairs, Ramps, Columns, Roof, HandRails	S-2 to S-8	LB	$ -		Y		OPT	$ -	
213	B-5	Mud Slab: 4" UnReinforced	S-2 to S-8	SF	$ 9.43	4840	Y		OPT	$ 45,641.20	
214		***Ozone Contactor Tank Train 5***	Duration:	20	Weeks						
215	C-1	Structural Concrete: Base, Walls, Beams, Walkways, Sumps	S-9 to S-13	CY	$ 1,649.67	1313	Y			$ 2,166,016.71	
216	C-2	Fillet Grout: Sloped Infill, Topping	S-9 to S-13	CF	$ 144.29	1235	Y			$ 178,198.15	
217	C-3	Structural Steel: Stairs, Ramps, HandRails, Grating	S-9 to S-13	LB	$ -		Y		OPT	$ -	
218	C-4	Mud Slab: 4" UnReinforced	S-9 to S-13	SF	$ 8.94	6466	Y		OPT	$ 57,806.04	

219		***Ozone Generator Building 3***	Duration:	5	Weeks					
220	D-1	Structural Concrete: Footings, Slab, Roof Topping, Walkways, Sumps	S-14,15,16	CY	$ 1,663.87	133	Y			$ 221,294.71
221	D-2a	Masonry: 8", Reinforced, Grout Filled Cells	S-14,15,16	EA	$ 45.51	527	Y			$ 23,983.77
222	D-2b	Masonry: 12", Reinforced, Grout Filled Cells, Split Face, Colored	S-14,15,16	EA	$ 79.60	4819	Y			$ 383,592.40
223	D-3	Structural Steel: Roof, Bridging, Deck, Ladder	S-14,15,16	LB	$ -		Y		OPT	$ -
224	D-4	Equipment Pads: Raised Concrete	S-14,15,16	SF	$ 25.39	437	Y			$ 11,095.43
225		***Liquid Oxygen Storage Train 5***	Duration:	6	Weeks					
226	E-1	Structural Concrete: Thickened Edge, Slab, Walls, Landings, Equipment Pad	S-17	CY	$ 2,319.69	112	Y			$ 259,805.28
227	E-4	Structural Steel: Ladder	S-17	LB	$ -		Y		OPT	$ -
228	E-5	Equipment Pads: Raised Concrete	S-17	SF	$ 32.47	267	Y			$ 8,669.49
229		***Coagulant Aid Polymer Building Train 5***	Duration:	5	Weeks					
230	F-1	Structural Concrete: Footings, Slab, Roof Topping, Walkways, Sumps	S-18,19,20	CY	$ 2,144.68	106	Y			$ 227,336.08
231	F-2a	Masonry: 8", Reinforced, Grout Filled Cells	S-18,19,20	EA	$ 43.44	825	Y			$ 35,838.00
232	F-2b	Masonry: 12", Reinforced, Grout Filled Cells, Split Face, Colored	S-18,19,20	EA	$ 78.23	3475	Y			$ 271,849.25
233	F-3	Structural Steel: Roof, Bridging, Deck, Ladder	S-18,19,20	LB	$ -		Y		OPT	$ -
234	F-4	Equipment Pads: Raised Concrete	S-18,19,20	SF	$ 29.11	258	Y			$ 7,510.38
235		***Filters 16, 17, 18***	Duration:	24	Weeks					
236	G-1	Structural Concrete: Base, Walls, Columns, Beams, Walkways, Sumps	S-21 to S-26	CY	$ 1,729.38	1413	Y			$ 2,443,613.94
237	G-2	Fillet Grout: Sloped Infill, Topping	S-21 to S-26	CF	$ 154.78	495	Y			$ 76,616.10
238	G-3	Masonry: 8", Reinforced, Grout Filled Cells	S-21 to S-26	EA	$ 41.59	1575	Y			$ 65,504.25
239	G-4	Structural Steel: Stairs, Ramps, Columns, Roof, HandRails	S-21 to S-26	LB	$ -		Y		OPT	$ -
240	G-5	Mud Slab: 4" UnReinforced	S-21 to S-26	SF	$ 8.11	11130	Y		OPT	$ 90,264.30
241		***Dry Chemical Feed Building 3***	Duration:	5	Weeks					
242	H-1	Structural Concrete: Footings, Slab, Walkways, Sumps	S-27,28,29	CY	$ 2,218.28	131	Y			$ 290,594.68
243	H-2a	Masonry: 8", Reinforced, Grout Filled Cells	S-27,28,29	EA	$ 49.70	330	Y			$ 16,401.00
244	H-2b	Masonry: 12", Reinforced, Grout Filled Cells, Split Face, Colored	S-27,28,29	EA	$ 94.63	7291	Y			$ 689,947.33
245	H-3	Structural Steel: Columns, Roof, Bridging, Deck, Ladder, Grates	S-27,28,29	LB	$ -		Y		OPT	$ -
246	H-4	Equipment Pads: Raised Concrete	S-27,28,29	SF	$ 32.62	128	Y			$ 4,175.36
247		***South System Chemical Storage 2***	Duration:	4	Weeks					
248	I-1	Structural Concrete: Thickened Edge, Slab, Walls, Landings	S-30	CY	$ 1,998.37	77	Y			$ 153,874.49
249	I-2	Structural Steel: Ladder, Grating	S-30	LB	$ -		Y		OPT	$ -
250	I-3	Equipment Pads: Raised Concrete	S-30	SF	$ 25.57	144	Y			$ 3,682.08

251		***Sodium Hypochlorite Storage***	Duration:	4	Weeks					
252	J-1	Structural Concrete: Thickened Edge, Slab, Walls, Landings	S-31	CY	$ 1,370.21	82	Y			$ 112,357.22
253	J-2	Structural Steel: Ladder, Grating	S-31	LB	$ -		Y		OPT	$ -
254		***Bell Filter Press Feed Pumps***	Duration:	3	Weeks					
255	K-1	Structural Concrete: Thickened Edge, Slab	S-32	CY	$ 1,445.98	13	Y			$ 18,797.74
256	K-2	Equipment Pads: Raised Concrete	S-32	SF	$ 45.32	27	Y			$ 1,223.64
257		***Solids DeWatering Building 1***	Duration:	2	Weeks					
258	L-1	Structural Concrete: Doweled Pier Extensions	S-33, 34	CY	$ 4,435.75	1	Y			$ 4,435.75
259	L-2	Structural Steel: Framing, Grating	S-33, 34	LB	$ -		Y		OPT	$ -
260		***Solids DeWatering Building 2***	Duration:	2	Weeks					
261	M-1	Structural Concrete: Doweled Pier Extensions	S-35, 36	CY	$ 5,512.74	1	Y			$ 5,512.74
262	M-2	Structural Steel: Framing, Grating	S-35, 36	LB	$ -		Y		OPT	$ -
263						Struct Conc: 4621	**PRICE**	**$**		**12,421,620.65**
264	***3C WEBSITE SIMILAR PROJECTS LINKS***									
265	http://3cconstructioncorp.com/portfolio/?term=water-works									
266	http://3cconstructioncorp.com/portfolio/?term=stormwater									
267	http://3cconstructioncorp.com/portfolio/?term=civil									

November 15, 2024

CDM Smith

Re: Veolia Surface Water Treatment Plant Proposal

Mahendra Balkaran,

BAKER CONCRETE CONSTRUCTION, INC. proposes the following on furnishing the necessary labor, material and equipment required to complete the following scope of work for the above referenced project based on "60% submittal – not for construction" set with Architectural Drawings dated 04-05-2024 and Structural Drawings dated 08-2024. Includes Addendum 01 dated 10-24-2024

Base Bid Total $ 8,698,000

Please see scope of work for accounting purposes only breakouts

The Scope included in this Proposal is:

- Payment and Performance Bond
- Structural excavation for building foundations only
  - Mass excavation and structural excavation of pipe encasements, filters, flocculation, etc. is excluded
- Concrete Formwork
- Reinforcing Material and Labor **Allowance based on 192lb/cy** (Total of 550 tons)
- Concrete Material and Labor (Total of 5,700 CY)
- CIP Stairs
- Hoisting
- Buy American
- SAMS.gov registration
- Dunn & Bradstreet: 05-910-3481
- Misc. Scope included:
  - Concrete pipe supports
  - Concrete mechanical pads
  - Conveyor supports assumed 2'Wx 4'L x 2'D thick concrete.
  - Grout infills
  - Below Structure pipe encasements
  - Concrete pipe saddles
  - Formsavers at intermediate slab in filter structure
  - Waterstop

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QUALIFICATIONS

1. Baker Concrete Construction, Inc. ("Baker") reserves the right that in the event of significant material or commodity price escalation after the bid date to equitably adjust its price which will be reconciled upon contract execution. Our proposal is also based on industry standard material and equipment delivery lead times after approval. Significant supplier delays in material or equipment delivery schedules shall be an excusable delay and the project schedule will be equitably adjusted accordingly. In addition, Company's contract to perform the work subject to this proposal will contain mutually agreeable terms to address significant material or commodity price escalation and delivery delays that are not foreseen at contract execution.
2. This proposal is valid for 60 days from the date listed on the quote in order to secure project teams and lock in material pricing due to current market conditions.
3. Our proposal is based on a mutually agreeable contract, insurance, hoisting plan and schedule. Baker reserves the right to expedite the mutually agreeable schedule for the benefit of Baker Concrete and the project. If the mutually agreeable schedule is expedited by Baker Concrete, the float created via expediting the schedule will be available for use by Baker Concrete
4. Our proposal is based on a Q4 2025 start and our work consisting of 1 mobilization with continuous work and no interruptions. This duration is based on a typical 5-day work week without any restricted work hours.
5. Our proposal is based on a 6 week turn around for reinforcing fabrication after approved submittals due to current market conditions of reinforcing.
6. Our proposal is based on having air rights provided by others over existing building, roads, marina, etc.
7. Our proposal is based on any adjacent power lines that obstruct BCCI logistics and construction shall be removed prior to our start of work.
8. Our proposal is based on installing exposed concrete close to view with a surface finish 2 (ACI 301) and all other concrete (including not close to view) with an "off the form" finish, (surface finish 1) i.e., it is not planned to rub the concrete surface to remove normal imperfections (such as small cracks, bugholes, color variations) common in cast-in-place structural concrete.
9. All embeds to be pre-drilled for installation
10. An overall average surface tolerance of FF20 for slabs on deck will be achieved. However, any reference to an FL number is not appropriate because the levelness of a suspended slab is dependent on the design of the supporting structure or deck, including any shoring. Baker will provide a slab with a uniform depth equal to the design thickness. Elevation measurements of the underside of the supporting form work or decking shall be taken immediately before the slab is installed.
11. Hazardous waste disposal shall be provided by others
12. Adequate area and access for two concrete trucks and a concrete pump is to be provided adjacent to pour area.
13. Our proposal is based on all adequate electricity, water, source, pressure and maintenance will be provided by others including, but not limited to electricity for concrete pumps, cranes, placing booms, formwork systems, etc.
14. Our budget is based on all temporary lighting being provided by others including, but not limited to lights on cranes, formwork systems, and at all work areas.
15. Our budget is based on adhering to ACI tolerances only. Other systems (facade, metal panels, glazing, etc.) to comply with ACI standards and tolerances.
16. Our budget is based on all scopes of our work associated with a turn-key concrete structure would be completed in the same time frame as top out of the structure.

17. BCCI has included a water based self-dissipating curing compound for curing of concrete slabs only.
18. Our slump requirements are based on placeability for each mix design. Placeability requirements will supersede slump requirements outlined in the specification
19. BCCI pricing is based on all slab sleeves being set at top of slab elevation.
20. Our proposal includes BIM modeling for the structure inclusive of LOD 400.
21. Due to the recent COVID 19 pandemic and Law changes, we have not included any potential market impacts on costs that are not known at this time. Our schedule and productivity are based on the current OSHA and other regulatory requirements prior to COVID 19 and any Law changes, if new legislation impacts schedule and productivity, we reserve the right to assess those schedule and cost impacts.
22. Excavation Assumptions:
    a. Actual grade will be given at bottom of SOG
    b. Top of foundation elevations as shown on drawings
23. Intermediate slabs in Filter structures 16-18 shown with a construction joint in detail 1 on S25. Please note that the intermediate slab is also shown in detail 2 on S25 with a box key way and form savers. We have included this slab as shown in detail 2 and have not provided a pour break.
24. We have included water stop as shown at top of wall per detail 1 and 2 on S25 for the filter structures 16-18.
25. Included #57 stone for ready mix concrete large aggregate in lieu of #67 stone.
26. Dry Chemical Feed Building shows monolithic concrete placement of slab on grade and foundations. This shall be achieved with earth forming. The spec currently does not allow for earth forming. We are taking exception to this for this structure only.
27. Drawings do not show any formliner requirements. The specifications mention a smooth formliner on forms. This is excluded. We are including a standard Class B finish. Specification further explains in the schedule, “Concrete Exposed to View: New and unused Plyform exterior grade plywood panels or steel forms”
28. Rub finish included where noted in the spec
29. Wet curing included for water retaining structures

EXCLUSIONS:

A. Areas of Work Excluded
1. Composite cleanup crew
2. All work associated with metal decking including, but not limited to bent plates, closure plates, shoring and reshoring of metal decks.
3. Pour strips
4. Epoxy, galvanized, MMFX, Grade 100 rebar
5. All costs associated with inspector general and user access program fees
6. Spotters required for hoisting loads near adjacent structures including but not limited to rail lines, metro movers, buildings, etc.
7. All mass excavation, rough grading, backfilling, and erosion control including, but not limited to removal of underground obstructions
8. Protection of existing structures and utilities including, but not limited to sheeting, shoring, underpinning, bracing, protection, dustproofing, and/or tremie slabs/coffer dams.
9. All dewatering including subsurface and casual
10. Bending hook of pile reinforcing

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11. Electrical and mechanical concrete, including light pole bases are excluded. Unless noted otherwise in this proposal.
12. Site work concrete including, but not limited to outside the building footprint, curbs, sidewalks, and paving
13. Installation of embedded items not shown on structural drawings
14. Any masonry, masonry reinforcing (furnish and installing), cell fill, bond beams and/or lintels.
15. Grouting of masonry, elevator sills, or any other grouting necessary to complete other trades work.
16. Masonry caps, sills, headers, etc.
17. Masonry wall anchors and 3/4" compressible filler
18. Pre-cast concrete
19. Waterproofing, traffic coating, and damp proofing
20. Furnish and installing joint sealants
21. Parking fees or all busing costs due to offsite parking
22. Design and engineering of completed structure
23. Deep foundations including but not limited to rigid inclusions, caissons, drilled piers or piles.
24. Styrofoam fill
25. Foundations for drainage wells
26. Hardscape/Landscaping paths and drives
27. Fencing base walls, footers, grade beams, and piles or piers.
28. Lightweight structural fill
29. Architectural concrete, stained, stamped, arched, and/or any other atypical concrete
30. Concrete admixtures including, but not limited to **waterproofing**, color, corrosion inhibitors, and **shrinkage** reducing admixture.
31. Safety nets
32. Dust control
33. All modifications to piles including, but not limited to cutting and trimming of piles
34. Mock-ups
35. Inspection and/or testing
36. All costs and work associated with mass concrete
37. MOT, barricades, policemen, traffic control devices, etc. including but not limited to all necessary permitting and permit expediting, city coordination, and road closures for erection and dismantle of cranes.
38. All premiums associated with hot weather concreting
39. Concrete sealers and hardeners
40. Wet curing
41. Light weight insulating concrete
42. Aggregate for non-slip surfaces or aluminum oxide
43. Miscellaneous metals including but not limited to stair nosings, corner guards, etc.
44. Rub finish
45. Engineer’s allowances
46. Prevailing wages
47. All work and costs associated with crack mitigation
48. Excavation Exclusions:
    a. Mass backfilling/excavation
    b. Sheet piling
    c. Import/exporting of fill
    d. Hauling of spoils offsite

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e. Dewatering
f. Excavation of hard rocks
g. Asphalt demolition

49. Detail e and f SD-2 Demo and patching of existing
50. Detail m,n,p SD-2 curbs not shown and hole infill not provided
51. #67 stone for ready mix concrete
52. Void forms for slab on grade
53. Concrete form liners
54. Abrasive blast finish
55. Floor surface treatments
    a. Liquid hardener and/or dry shake hardener
    b. Slip resistant finish
    c. sealers

REINFORCING QUALIFICATIONS:

Please note some concrete elements are missing reinforcing design. We have included assumptions for reinforcing to include a full scope of work.

PAYMENT TERMS:

A. Monthly payments, retainer reductions, and final payments shall be due within thirty days of the monthly invoice.
B. No Retainage on materials (Reinforcing & Concrete). Materials are to be paid by Baker with no retainage held.
C. Retainage: 5% until 50% of work is complete then 0% thereafter. Retention held will be cut to 2.5% of the contract amount upon substantial completion of Baker's scope. Release the remainder when the roof is poured, retaining only 150% of value of any outstanding items. Mobilization payment of $435,000 added to each of the first two monthly pay requisitions ($870,000 total).

Please note attached **STANDARD CONDITIONS**.

We are proud to offer a quote for this work. Please do not hesitate to call if you have any questions. We look forward to hearing from you.

Very truly yours,

BAKER CONCRETE CONSTRUCTION, INC.

Bob Saltsman
(407) 463-6508
Enclosure: Standard Conditions

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STANDARD CONDITIONS

1. This preliminary budget shall be incorporated into a mutually acceptable contract document. If Baker is requested to proceed with work prior to an executed subcontract agreement, then it shall be understood and agreed that this preliminary budget shall take precedence and govern until such time that a subcontract agreement is accepted and executed. Payments will be made based upon this preliminary budget, if work starts before an executed Subcontract Agreement.

2. Notwithstanding anything to the contrary in the contract documents, the Subcontractor's indemnification and hold harmless obligations to Contractor, Owner, Architect/Engineer, Construction Manger or any other person, and their agents and employees ("Indemnitees"), shall be only to the extent that damages, injuries (including death), claims, losses, costs, expenses (including, without limitation, reasonable attorney's fees) and liabilities are caused by the Work, acts, omissions or breaches of contract by Subcontractor or its employees, its agents, its subcontractors and materialmen of any tier. The Subcontractor shall not be liable for the Designs, plans or specifications of others.

3. Baker agrees to perform our work in compliance with the Construction Safety Act of 1969 and the Occupational Safety and Health Act of 1970. If Baker discovers conditions that are potentially dangerous to its employees, but are the responsibility of others to correct, we will immediately advise the Contractor of the hazards. Failure by the Contractor to eliminate the hazard will justify the withdrawal of our employees from the hazardous area until corrections are made and shall allow Baker to be reimbursed for all additional costs resulting from the delay.

4. Baker will not provide a Waiver of Subrogation for General Liability, Automobile Liability, or Worker's Compensation, for any entity working on project site. Baker also excludes Builder's Risk Insurance.

5. If Baker's work is impacted by interruptions, obstructions, schedule acceleration, delays, or out of sequence work, beyond our reasonable control:
   a. Baker's contract price will be increased to cover costs incurred (i.e., overtime or shift premium, decreased production rates, extended general conditions, etc).
   b. Baker's work schedule will be extended appropriately.
   c. Baker will not be responsible for damages, consequential damages, or liquidated damages.

6. All prerequisite work installed by others, must be completed the day before placement of concrete is scheduled so that the work may be reviewed for compliance.

7. Extra work will not be performed by Baker without written notice from an authorized agent of the General Contractor. Extra work performed, based upon unit prices, must be complete before our base bid substantial completion date.

8. Baker will accept no responsibility for cleaning slabs once they are poured and exposed to traffic.

9. Trash receptacles that conform to all OSHA and EPA standards for work materials that may be used on the jobsite will be provided by others. Hazardous soils, materials, waste, etc. shall be removed and disposed of by others.

10. Monthly progress payments and final payment shall not be contingent upon receipt of said payments by General Contractor from any other individual or entity.

11. Copies of testing laboratory reports for all concrete placed by Baker must be forwarded to Baker in a timely manner.

12. All change orders to be processed within 30 days after submittal by Baker.

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BAKER CONCRETE CONSTRUCTION

INFRASTRUCTURE GROUP

QUICK FACTS

Baker Concrete Construction, Inc. is the nation's leading concrete contractor specializing in all types of cast in place concrete construction.

56
Years in Business

14,000
Projects completed Nationwide

$2B
Aggregate Bonding. Single project bonding capacity $400M

SAFETY

.59 EMR
Industry average - 1.00

.95 RIR
Industry average - 5.3

THE BAKER DIFFERENCE

NATIONAL PRESENCE

- Largest Concrete Contractor in the United States
- Experienced workforce of 5,500
- Baker has completed work in over 1,200 cities
- 1 million square feet of concrete poured each week
- 1.5 million square foot of forming material and 6,000 units of construction equipment in-house inventory.
- Ranked the #1 Top Concrete Specialty Contractor by ENR for the past 15 years

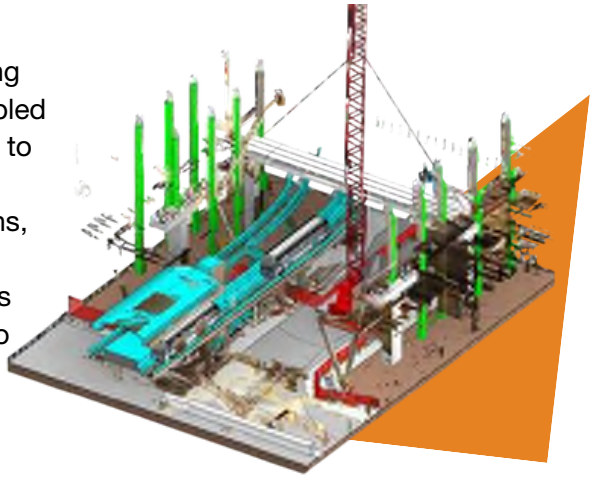
FLORIDA LOCAL PRESENCE

- Management resources are local and readily available, including the company CEO, preconstruction, operations, engineering, and safety management.
- Vast experience and technical competence, with a local presence dating back 35 years.
- Have completed over 750 projects in the state of Florida.
- Southeast territory office is located in Fort Lauderdale for over 15 years.
- Other local offices are in Orlando, Tampa, and Ft. Myers.
- Scheduling department tracks hundreds of workers in the market.
- Business lines include Commercial, National Structures, and Infrastructure.

CAPABILITIES

- Turnkey Concrete Construction
- Design Assist
- Logistics Planning
- Value Engineering
- BIM - Building Information Modeling
- VDC - Virtual Design & Construction

Baker utilizes the latest 3-D scanning technologies coupled with BIM overlays to prepare safe and efficient work plans, control project cost/time overruns and limit impact to the public.



WATER TREATMENT PROJECTS

Bayou Metro Pump Station

This project consists of a main pump station and an outlet structure. Baker's scope included multiple 4 foot thick slabs with pours ranging from 600-1,200 cubic yards of concrete.

CDWWTP Sludge Thickening Facility

This is a design build project in Key Biscayne, FL for Miami Dade County. The scope includes the concrete shell, site work, concrete retaining wall, topping of the precast roof and installing reinforced concrete masonry unit.

Compartment B Pump Station

G-434 is a water pump station located in the heart of the Florida Everglades consisting of 20,230 cubic yards of concrete and 1,800 tons of resteel. The total foot print of the station is 158' x 154'.

New Orleans 92 Pump Station

Keeping a continuous line of hurricane flood protection, this project will protect the environment by incorporating reinforced concrete T-walls, L-walls, swing gate, and gatebay type monoliths.

NRWWTP Reclaimed Water

Baker poured 8,500 cubic yards of concrete for a chemical storage building, chlorine contact tanks, water filter tanks, fuel pad, sludge pad, concrete pavement, a two story electrical building, concrete pads, and pipe supports.

NW Hillsborough Water Plant

This award winning, design build project is an expansion to the existing water treatment plant to help service the growing Tampa area. It consisted of 6 structure types, and is nearly 173,000 square feet in total.

Hernando Water Reclamation Facility

Our scope at the Hernando Airport WRF is the construction of a Bio Nutrient Removal Structure Basin to increase the facilities capacity from 3.5 to 6 million gallons per day. The structure is composed of 23,016 sf of slab.

SDWWTP Digesters and Building

The South District Waste Water Treatment Plant is a total of over 5,000 CY which includes round reinforced concrete tanks and electrical buildings containing hollow core roof planks and concrete pads.

SDWWTP Sludge Thickening Facility

The Project is located in Cutler Bay, FL for Miami Dade County. Project scope includes concrete shell, site work, concrete retaining wall, and installing reinforced concrete masonry units. Anticipated completion is January of 2022.

Valrico AWTP Expansion

The biological nutrient removal facility in Dover, FL was an expansion built in order to double the capacity from 12 million to 24 million gallons for the future growth of the area totaling 13,200 cubic yards.

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PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

COLLIER COUNTY NCWRF

City, State:	Naples, FL
Owner:	Collier County
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$4,950,000
Project Type:	WTR-Waste/Sewage
Schedule:	12/2/2023 to 6/26/2024(Substantial Completion)

PEAK LIFT STATION

City, State:	Colorado Springs, CO
Owner:	UFCS Airport LLC
GC:	W.E. O'Neil
GC Contact:	303-298-7900
Scope:	Concrete Construction
Contract Amount:	$596,000
Project Type:	WTR-Pump Station
Schedule:	1/9/2024 to 3/4/2024(Substantial Completion)

SDWWTP S-932 CLARIFIERS AND HLD

City, State:	Miami, FL
Owner:	Miami Dade County Water and Sewer
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$10,773,290
Project Type:	WTR-Waste/Sewage
Schedule:	12/1/2022 to 2/29/2024(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

WEST AVENUE PUMP STATION MIAMI BEACH

City, State:	Miami Beach, FL
Owner:	Miami Beach Public Works Dept.
GC:	Ric-Man
GC Contact:	(954) 426-1221
Scope:	Concrete Construction
Contract Amount:	$1,653,531
Project Type:	WTR-Waste/Sewage
Schedule:	10/1/2023 to 1/21/2024(Substantial Completion)

SEWWTP - TO22-003 Pasco County

City, State:	Zephyrhills, FL
Owner:	Pasco County
GC:	ARCHER WESTERN CONSTRUCTION
GC Contact:	
Scope:	Concrete Construction
Contract Amount:	$11,906,200
Project Type:	WTR-Waste/Sewage
Schedule:	9/27/2022 to 11/28/2023(Substantial Completion)

STA 1W EXPANSION #2-PUMP STATIONS G-780 & G-781

City, State:	West Palm Beach, FL
Owner:	South Florida Water Mngmt. District
GC:	Harry Pepper & Associates
GC Contact:	Miguel Rivera 561-792-9186
Scope:	Concrete Construction
Contract Amount:	$7,518,171
Project Type:	WTR-Pump Station
Schedule:	6/15/2021 to 7/15/2022(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

CENTRAL WWTP

City, State:	Nashville, TN
Owner:	METRO WATER SERVICES
GC:	Garney Construction
GC Contact:	(615) 350-7675
Scope:	Concrete Construction
Contract Amount:	$12,100,000
Project Type:	WTR-Waste/Sewage
Schedule:	11/30/2020 to 2/11/2022(Substantial Completion)

CDWWTP SLUDGE THICKENING FACILITY

City, State:	Miami, FL
Owner:	Miami Dade Water and Sewer
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$9,696,490
Project Type:	WTR-Waste/Sewage
Schedule:	3/24/2021 to 1/14/2022(Substantial Completion)

SDWWTP SLUDGE THICKENING FACILITY

City, State:	Goulds, FL
Owner:	Miami Dade Water and Sewer
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$7,194,170
Project Type:	WTR-Waste/Sewage
Schedule:	3/24/2021 to 1/14/2022(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

ACADEMICAL VILLAGE CANAL RELOCATION

City, State:	Davie, FL
Owner:	Nova Southeastern University
GC:	ASAP Engineering
GC Contact:	Odaly Sanchoyerto 954.613.4828
Scope:	Concrete Construction
Contract Amount:	$542,000
Project Type:	WTR-River Development
Schedule:	9/1/2021 to 11/1/2021(Substantial Completion)

AIRPORT WRF

City, State:	Brooksville, FL
Owner:	Hernando County Public Works/Engineering
GC:	Wharton Smith Inc.
GC Contact:	813.288.0068
Scope:	Concrete Construction
Contract Amount:	$3,135,158
Project Type:	WTR-Waste/Sewage
Schedule:	4/15/2021 to 10/15/2021(Substantial Completion)

NEWPP DEWATERING AND SLUDGE BUILDING

City, State:	Humble, TX
Owner:	City of Houston - Houston Public Library
GC:	Horizon International Group, LLC
GC Contact:	(713) 660-8282
Scope:	Concrete Construction
Contract Amount:	$5,639,820
Project Type:	WTR-Water Supply/Tanks
Schedule:	12/16/2019 to 7/1/2021(Substantial Completion)

SDWWTP DIGESTERS AND BUILDING UPGRD

City, State:	Miami, FL
Owner:	Miami Dade County Water and Sewer
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$4,809,620
Project Type:	WTR-Water Supply/Tanks
Schedule:	8/30/2018 to 1/30/2020(Substantial Completion)

PAR1244

City, State:	Denver, CO
Owner:	Metro Wastewater Reclamation District
GC:	MWH Constructors (Denver)
GC Contact:	Cliff Bjorgum 303-439-2876
Scope:	Concrete Construction
Contract Amount:	$6,727,700
Project Type:	WTR-Waste/Sewage
Schedule:	2/1/2019 to 12/31/2019(Substantial Completion)

WIDEFIELD

City, State:	Colorado Springs, CO
Owner:	U.S. Army Corps of Engineers
GC:	AECOM
GC Contact:	
Scope:	Concrete Construction
Contract Amount:	$1,070,918
Project Type:	WTR-Water Supply/Tanks
Schedule:	6/26/2019 to 11/8/2019(Substantial Completion)

NRWWTP RECLAIMED WATER

City, State:	Pompano Beach, FL
Owner:	Broward County Water and Wastewater Services
GC:	Poole & Kent
GC Contact:	Asif Shalkh 305-325-1930
Scope:	Concrete Construction
Contract Amount:	$7,575,000
Project Type:	WTR-Water Supply/Tanks
Schedule:	1/2/2019 to 10/1/2019(Substantial Completion)

NW HILLSBOROUGH WATER PLANT

City, State:	Tampa, FL
Owner:	Hillsborough County
GC:	Garney Wharton Smith JV
GC Contact:	Nolan Hake 407.877.5903
Scope:	Concrete Construction
Contract Amount:	$13,984,712
Project Type:	WTR-Water Supply/Tanks
Schedule:	4/1/2017 to 3/31/2018(Substantial Completion)

NEW ORLEANS 92 PUMP STATIONS

City, State:	Metairie, LA
Owner:	U.S. Army Corps of Engineers
GC:	Odebrecht - New Orleans
GC Contact:	504-799-1500
Scope:	Concrete Construction
Contract Amount:	$22,113,066
Project Type:	WTR-Levee/Flood Wall/Dam
Schedule:	11/1/2010 to 3/29/2013(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

BAYOU METO PUMP STATION

City, State:	Scott, AR
Owner:	Bayou Metro Water Management District
GC:	Harry Pepper & Associates
GC Contact:	Mik Taormina 561-792-9186
Scope:	Concrete Construction
Contract Amount:	$3,864,111
Project Type:	WTR-Water Supply/Tanks
Schedule:	9/1/2011 to 4/1/2012(Substantial Completion)

GULF INTERCOASTAL WATERWAY BYPASS GATE

City, State:	New Orleans, LA
Owner:	U.S. Army Corps of Engineers
GC:	CB&I (previously Shaw) - OFFICE NO LONGER OPEN
GC Contact:	Deborah Cook 504.254.5900
Scope:	Concrete Construction
Contract Amount:	$14,397,000
Project Type:	WTR-Levee/Flood Wall/Dam
Schedule:	10/20/2009 to 10/24/2011(Substantial Completion)

NORTH TOPSAIL BEACH WASTE WATER TREATMENT FACILITY

City, State:	Sneads Ferry, NC
Owner:	Pluris LLC
GC:	Cardinal Contractors
GC Contact:	Don Mullaney 941.377.8555
Scope:	Concrete Construction
Contract Amount:	$1,366,530
Project Type:	WTR-Waste/Sewage
Schedule:	1/10/2011 to 6/6/2011(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

HAROLD THOMPSON REGIONAL WATER RECLAMATION FACILITY

City, State:	Fountain, CO
Owner:	Fountain Sanitation District
GC:	Weaver General Construction, Co.
GC Contact:	Wes Weaver 303-789-4111
Scope:	Concrete Construction
Contract Amount:	$1,511,950
Project Type:	WTR-Waste/Sewage
Schedule:	10/18/2010 to 1/25/2011(Substantial Completion)

COMPARTMENT B PUMP STATIONS G-434, G-436

City, State:	West Palm Beach, FL
Owner:	South Florida Water Mngmt. District
GC:	Harry Pepper & Associates
GC Contact:	Tom Westvelt 561-792-9186
Scope:	Concrete Construction
Contract Amount:	$10,969,000
Project Type:	WTR-Water Supply/Tanks
Schedule:	1/2/2010 to 9/1/2010(Substantial Completion)

POLK COUNTY NORTHEAST REGIONAL WASTE WATER TREATMENT PLANT

City, State:	Davenport, FL
Owner:	Polk County Florida - General Services
GC:	Wharton Smith, Inc.
GC Contact:	Chris Gayner 407.321.8410
Scope:	Concrete Construction
Contract Amount:	$2,802,000
Project Type:	WTR-Waste/Sewage
Schedule:	3/1/2009 to 6/1/2010(Substantial Completion)

SOUTH FLORIDA WATER COMPARTMENT B - G435

City, State:	West Palm Beach, FL
Owner:	South Florida Water Mngmt. District
GC:	Close Construction
GC Contact:	Jerry Benock 863-467-0831
Scope:	Concrete Construction
Contract Amount:	$2,320,980
Project Type:	WTR-Water Supply/Tanks
Schedule:	1/2/2010 to 5/15/2010(Substantial Completion)

NEW ORLEANS FLOODWALL LPV 10401A

City, State:	New Orleans, LA
Owner:	U.S. Army Corps of Engineers
GC:	Cycle Construction Co. LLC.
GC Contact:	Robert W. Small 504 467-1444
Scope:	Concrete Construction
Contract Amount:	$1,476,400
Project Type:	WTR-Levee/Flood Wall/Dam
Schedule:	1/4/2010 to 4/2/2010(Substantial Completion)

MARKLAND MITER GATE ASSEMBLY PIER

City, State:	Warsaw, KY
Owner:	U.S. Army Corps of Engineers
GC:	HTA Enterprises
GC Contact:	502-933-5900
Scope:	Concrete Construction
Contract Amount:	$690,000
Project Type:	WTR-Water Supply/Tanks
Schedule:	8/15/2009 to 12/15/2009(Substantial Completion)

PROJECT EXPERIENCE - WATER RESOURCE PROJECTS

IN PROGRESS OR COMPLETED PROJECTS LAST 20 YEARS

MIRAMAR WW RECLAMATION EXPANSION

City, State:	Miramar, FL
Owner:	City of Miramar
GC:	Cardinal Contractors
GC Contact:	941.377.8555
Scope:	Concrete Construction
Contract Amount:	$1,655,500
Project Type:	WTR-Water Supply/Tanks
Schedule:	5/1/2009 to 11/15/2009(Substantial Completion)

VALRICO AWTP EXPANSION

City, State:	Dover, FL
Owner:	Hillsborough County
GC:	Cardinal Contractors
GC Contact:	Bill Moore 941.377.8555
Scope:	Concrete Construction
Contract Amount:	$7,779,000
Project Type:	WTR-Waste/Sewage
Schedule:	10/1/2007 to 5/1/2008(Substantial Completion)

CENTRAL WASTEWATER TREATMENT PLANT

PROJECT PROFILE

CLIENT
Garney Construction

LOCATION
Nashville, TN

SCHEDULE
December 2020 - April 2022
16 months

SIZE
11,000 Cubic Yards

OWNER
METRO WATER SERVICES

ENGINEER
HAZEN AND SAWYER

ARCHITECT
Centric Architecture

Project Details

The Central Wastewater treatment plant (WWTP) is currently the largest plant in Nashville, TN. It was originally constructed in 1958 and previously had four major expansions. The current project will expand the plants current capacity from 300 million gallons per day (mgd) to 440 MGD per day.

The headworks of a wastewater treatment plant is the first stage of a complex water treatment process to reclaim waster water back to EPA regulated levels. It reduces the level of pollutants and solids in the incoming water by screening out debris and large solids. When complete this facility will remove and separate course and fine debris from incoming wastewater from in and around the Metropolitan Nashville area.

Challenges & Accomplishments

- The design of this project was unique and complex in the wastewater industry as it incorporates architectural aspects to blend into the surrounding community. This presents additional challenges such as concrete corbels, architectural brick requiring special ledges, and special foundations for arches to receive decorative glazing.
- In addition to the architectural aspects, the structural design was extremely complex as well. The facility is a five-process structure in one building. Approximately 70% of the structure
- Project was awarded an Associated Builders and Contractors - Excellence In Construction Eagle Award-Specialty Contractor: Sitework/Landscape/Hardscape 2022

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SDWWTP DIGESTERS AND BUILDING

PROJECT PROFILE

CLIENT
Poole & Kent

LOCATION
Miami, FL

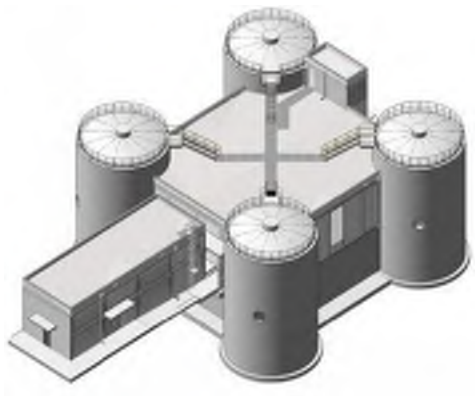
SCHEDULE
March 2019 - January 2020

SIZE
5,214 Cubic Yards

OWNER
Miami Dade County Water and Sewer

ENGINEER
Stantec

ARCHITECT
Architects International



Project Details

The South District Waste Water Treatment Plant in Cutler Bay Florida is a total of over 5,000 CY which includes round reinforced concrete tanks and electrical buildings containing hollow core roof planks and concrete pads. The construction of the project debuted in March of 2019. This expansion will increase the county capacity due to the increase in waste sewer with all the new housing development in the area.

Challenges & Accomplishments

- Baker was tasked with building multiple round tanks, which became especially challenging once the team reached the elevation of 18 feet and above, because the remaining work required the use of a boom lift and spiders at all times.
- Baker successfully poured all walls with only minor refinishing.

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NW HILLSBOROUGH WATER PLANT

PROJECT PROFILE

CLIENT
Garney-Wharton JV

LOCATION
Tampa, FL

SCHEDULE
October 2017 - July 2018
9 months

SIZE
28,036 Cubic Yards

OWNER
Hillsborough County

ENGINEER
SE Structural Engineers

ARCHITECT
Tetra Tech-Orlando

Project Details

Baker Concrete was contracted by Garney-Wharton Joint Venture for this Design Build project. The scope of work for this project consisted of six separate structures for a total of 28,036 CY, 2,772 tons of reinforcing steel, and over 20,000 linear feet of pvc waterstop. The project began in October of 2017 and was substantially complete in July of 2018 for a duration of 9 months. The contracted structures consisted of:

- Flow Equalization Basin Structure
- Biological Nutrient Removal (BNR) Structures
- Flow Distribution Box
- Headworks
- Deep Bed Filters
- Chlorine Contact Chamber Structures

Challenges & Accomplishments

- The project presented several environmental impact issues, which created numerous sequencing and work flow issues. Baker had to come up with several "what if" scenarios. At one point, we had all 6 structures under construction at the same time.
- Baker utilized two of its own tower cranes to construct the BNR Structure, which had a 128,000-sf footprint and was being constructed next to an active BNR. The use of tower cranes is unique to this type of construction.
- The project utilized a P6 resource-loaded schedule that was integrated in the JV's master schedule weekly. In addition a Pull-Plan meeting was held with all subs on the project to forecast work 6 weeks out.

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MSC BERTHS 8 & 9 - PORT OF MIAMI

PROJECT PROFILE

CLIENT
Fincantieri Infrastructure

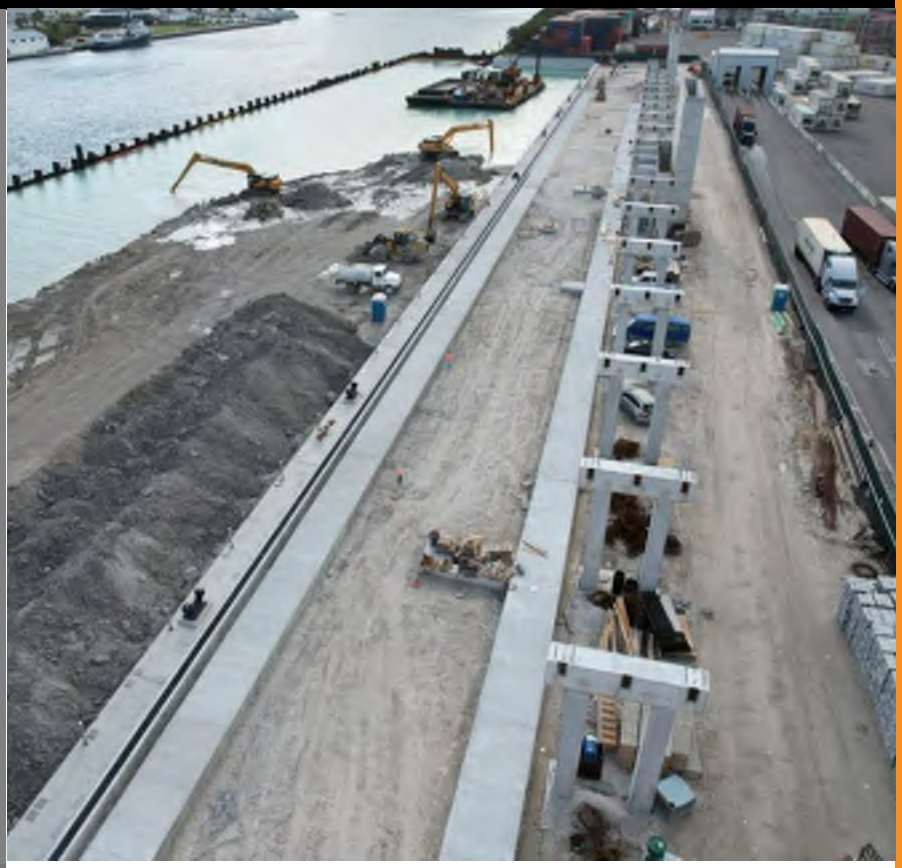
LOCATION
Port of Miami, FL

SCHEDULE
April 2022 - May 2023

SIZE
7,700 Cubic Yards

OWNER
PortMiami and MSC Cruise Lines

ENGINEER/ARCHITECTS
Atkins



Project Details

Baker was contracted by Fincantieri Infrastructure to build MSC Cruise Terminal – Berths 8&9. The new terminal, which is a partnership between MSC Cruises and PortMiami, will become the largest cruise ship terminal in North America when it is completed.

Our scope included installing concrete bulkhead seawall, Manatee grates, pipe bollards, boarding bridge runways, barrier walls, retaining walls, demolishing drill shafts, hoisting and dewatering.

Challenges & Accomplishments

- A major component in this project was the dewatering scope. Dewatering was challenging because of the project being situated alongside water. Dewatering was difficult due to the high-water table and the presence of porous limestone rock, which can allow water to seep back into the excavation site. Additionally, the port is in a low-lying area, which can lead to flooding during high tides or storms. These factors required careful planning and implementation of dewatering techniques to ensure the success of the project.
- The Baker team faced many challenges due to limited access and entry points. The port is usually a very busy high traffic location which has highly regulated areas that require co-workers to follow strict security protocols. Coordinating the movement of equipment and materials to certain areas that are restricted made it difficult for the Baker team while working on the active site.

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NRWWTP RECLAIMED WATER

PROJECT PROFILE

CLIENT
Poole & Kent

LOCATION
Pompano Beach, FL

SCHEDULE
January 2019 - October 2019

SIZE
8,379 Cubic Yards

OWNER
Broward County Water and Wastewater Services

ENGINEER
Brown and Caldwell
Hazen and Sawyer

ARCHITECT
Cartaya & Associates

Project Details

The North Regional Waste Water Treatment Plant located in Pompano Beach, Florida is a total of nearly 8,500 CY which includes a chemical storage building, chlorine contact tanks, water filter tanks, air compressor pads, fuel pad, sludge pad, concrete pavement, a two story electrical building, miscellaneous concrete pads, and pipe supports.

Challenges & Accomplishments

- This project had a large amount of MEP's embedded throughout the walls which create a very challenging situation for the concrete pour of 24 foot high and 12 inch thick walls containing two rebar mats spaced at 6 feet on center with a cluster of MEP's. Baker also needed to implement vertical water stop on this as well.

- Despite bringing together a new Baker Team, they were able to complete all of the buildings on schedule.

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HERNANDO AIRPORT WWTP

PROJECT PROFILE

CLIENT

Wharton Smith Construction
Josh Hines - Project Manager
jhines@whartonsmith.com
(813)505-9724

LOCATION

Brooksville, FL

SCHEDULE

March 2021 - November 2021
8 Months

SIZE

3,833 Cubic Yards

OWNER

Hernando County Board of Commissioners

ENGINEER

Cardno Engineering

Project Details

Baker was contracted by Wharton Smith Construction on the project to build a Biological Nutrient Removal Basin (BNR) to increase its capacity from 3.5 to 6 million gallons per day. The project is located in Hernando County, Florida in the city of Brooksville, FL.

The Airport WRF is a multiyear project facilities expansion. The expansion's main objective was total Nitrogen reduction by taking the Springhill WRF out of service. The Airport WRF was upgraded to meet the most advanced wastewater treatment standards.

Challenges & Accomplishments

- Because of the complex design of the BNR the pour sequence was an integral part of the success of this project. The concrete needs to be carefully laid and set to ensure that there are no problems with strength, durability, and water tightness during operation.
- The crane onsite was only 10 feet away from live power lines. This proved to be a safety challenge which extra precautions like special fencing and additional signage, in conjunction with training had to be put in place to ensure the safety of every co-worker on site.
- The team experienced multiple weather delays due to excessive lightning during the project. Despite these delays the project was completed on time.

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NEW ORLEANS 9.2 PUMP STATIONS

PROJECT PROFILE

CLIENT
Odebrecht

LOCATION
Metairie, LA

SCHEDULE
November 2010- March 2013

SIZE
40,226 CY

OWNER
US Army Corps. of Engineers

ENGINEER
US Army Corps. of Engineers

Project Details

The project consists of constructing a continuous line of hurricane flood protection across the discharge basins at Pumping Stations No. 1 through 4, as well as, modifications to the two existing breakwaters at Pumping Stations No. 2 and 3. This project to protect the environment will incorporate pile founded reinforced concrete T-walls, L-walls, swing gate and gatebay type monoliths. Sluice gates and dewatering bulkheads will be installed within the gatebay monoliths located in front of the reinforced concrete discharge tubes. Existing butterfly gates will be reused within the steel discharge tubes. Gate operation will be by individual electric actuators utilizing local and remote controls. Site work will include reconstruction of an access road bridge, modifications to existing pumping station utilities, dewatering systems, construction of temporary retaining structures with work platforms, miscellaneous excavation, clearing and grubbing. 40,222 cubic yards will be utilized on this project.

Scope of Work

- Baker's scope includes cast in place concrete for upgrade to existing pump station, replace the discharge walls and basins located in front of the pump stations, raise the existing walls so they are at the right flood level, build new T-wall connections to each side of the pump stations, install upgraded break waters, and install discharge walls.

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SOFIDEL AMERICA TORNADO

PROJECT PROFILE

CLIENT
Sofidel America Corp.

LOCATION
Circleville, OH

SCHEDULE
January 2017 - December 2017
11 months

SIZE
428,000 Square Feet

OWNER
Sofidel America

ENGINEER
Burgess & Niple Limited

ARCHITECT
BHM Co. Ltd

Project Details

This plant treats effluent processed water from a separate on-site paper manufacturing plant where paper pulp is converted to tissue paper. This is one of three buildings within Baker's entire scope, consisting of 459,000 total SqFt and 52,000 CY for this project which included floor slabs & trenches, walls, elevated beams, and equipment grouting

Challenges & Accomplishments

- Baker was awarded this building as an addition to our base contract, after demonstrating our qualifications on our original contract work.
- Baker constructed this waste water treatment plant in an aggressive 16-week schedule.

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NEW ORLEANS FLOODWALL LPV

PROJECT PROFILE

CLIENT
Cycle Construction Co. LLC.

LOCATION
New Orleans, LA

SCHEDULE
January 2010 - April 2010

SIZE
1,800 Linear Feet

OWNER
U.S. Army Corps of Engineers

ENGINEER
U.S. Army Corps of Engineers

ARCHITECT
U.S. Army Corps of Engineers

Project Details

The U.S. Army Corps of Engineers' Lake Pontchartrain and Vicinity Hurricane Protection
project is located in Orleans Parish in southeast Louisiana, generally in the vicinity of the city of New Orleans, and between the Mississippi River and Lake Pontchartrain. The project is designed to reduce risk among residents and businesses on the East Bank of Orleans Parish from a storm that has a one percent chance of occurring in any given year, or a 100-year storm.

Baker's scope on the LPV 104.01A - London Avenue Canal to Inner Harbor Navigation Canal involved the upgrade of an existing floodwall along the North side of New Orleans on Lake Pontchartrain.

Challenges & Accomplishments

- Baker installed new foundations and wall support pilasters along 3 sections of floodwall (1800 linear feet) that entailed 4,300 cubic yards of concrete.
- This project was part of the US Army Corp of Engineers massive Hurricane and Storm Damage Risk Reduction System (HSDRRS) project.

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COMPARTMENT B PUMP STATIONS G-434, G-436

PROJECT PROFILE

CLIENT
Harry Pepper & Associates

LOCATION
West Palm Beach, FL

SCHEDULE
January 2010 - September 2010
8 months

SIZE
41,821 Cubic Yards

OWNER
South Florida Water Mngmt. District

ENGINEER
Brown and Caldwell Environmental

Project Details

G-434 is a water pump station located in the heart of the Florida Everglades. The unique location along with the stringent specifications required coordination, planning, and knowledge, all of which Baker provided. The G-434 consists of approximately 20,230 cubic yards of concrete and 1,800 ton of resteel. The pump station has a foot print of 158' x 154'.

G-436 is a water pump station located about 5 miles away from pump G-434. Water pump G-436 was built in similar fashion as the G-434. The G-436 pump scope consists of approximately 22,000 cubic yards of concrete and 1,910 tons of resteel. The pump station has a foot print of 140' x 135'.

Challenges & Accomplishments

- Baker's scope consists of approximately 20,230 cubic yards of concrete and 1,800 ton of resteel. The pump station has a foot print of 158' x 154' which sits on a 3'6" thick slab with four different elevations. On the foot print were 82,000 square feet of walls, two 460 cfs form suction intakes (FSI's), two 100 cfs FSI's, elevated slabs, stop gate columns, and all other major structural components of a water pumping station.
- Baker's scope consists of approximately 22,000 cubic yards of concrete and 1,910 tons of resteel. The pump station has a foot print of 140' x 135' which is a 3'6" thick slab with two different elevations. On the foot print were 83,059 square feet of walls, three 533 cfs form suction intakes (FSI's), two 100 cfs FSI's, elevated slabs, stop gate columns, and all other major structural components of a water pumping station.

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VALRICO AWTP EXPANSION

PROJECT PROFILE

CLIENT
Cardinal Contractors

LOCATION
Dover, FL

SCHEDULE
October 2007 - October 2008 12 months

SIZE
13,200 Cubic Yards

OWNER
Hillsborough County

ENGINEER
Malcolm Pirnie Co.

ARCHITECT
Malcolm Pirnie Co.

Project Details

Cardinal Contractors awarded a contract to Baker for the total concrete package for the Valrico Advanced Wastewater Treatment Plant (AWTP). The biological nutrient removal facility was expanded to double the capacity fro 12-million to 24-million gallons for the future growth of the area. During the expansion, the technology was also changed from chlorine gas disinfection to a new ultraviolet disinfection to eliminate by-products.

Challenges & Accomplishments

- Baker's scope included the placement of concrete for the oxidation deep tank (450' x 150' x 18' Deep) with multiple chambers, three clarification tanks, the filter building, and upgrading of the ultraviolet disinfection building.
- Quality control was essential to ensure the containment within the tanks. Baker achieved this through strict adherence to the plans and specifications, and conducting multiple inspections prior to placements.

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NORWEGIAN CRUISE LINE TERMINAL B

PROJECT PROFILE

CLIENT
NV2A-Haskell JV

LOCATION
Miami, FL

SCHEDULE
August 2018 - June 2019
10 Months

SIZE
17,000 Cubic Yards

OWNER
Norwegian Cruise Line

ENGINEER
DDA Engineers, P.A.

ARCHITECT
Bermello Ajamil and Partners

Project Details

The Norwegian Cruise Line Terminal at the Port of Miami is a design-build project that includes a new cruise terminal, a multi-story parking garage, and a vessel provisioning warehouse.The facility will accommodate cruise ships carrying up to 5,000 passengers.

Baker was contracted by the Haskell-NV2A Joint Venture team for all structural excavation and backfill, building foundations, demolitioin of existing concrete structures, slab on grade, slab on metal deck, consisting of more than 200,000 square feet of various finishes including polished floors, and cast in place stairs.

Challenges & Accomplishments

- This was a Fast Track Project with an 18 month overall schedule. The foundation package for the terminal was completed in 12 weeks and included over 200 pile caps and 7,000 CY of concrete placed.
- Baker self performed all structural excavation and backfill for the foundations and building pad streamlining the installation to stay ahead of the schedule.
- Coordinating logistics with other trades was led by Baker due to the tight site, short schedule duration and restrictions set by the Port due to congestion with Cruise day traffic.

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BAYOU METO PUMP STATION

PROJECT PROFILE

CLIENT
Harry Pepper & Associates

LOCATION
Scott, AR

SCHEDULE
September 2011 - June 2013

SIZE
9,700 Cubic Yards

OWNER
Bayou Metro Water Management District

ENGINEER
U.S. Army Corps of Engineers

ARCHITECT
U.S. Army Corps of Engineers

Project Details

Baker's scope of work included a turnkey concrete package that included two structures: the main pump station and the outlet structure. There was 9,700 CY of concrete and 800 tons of reinforcing installed during our one year duration. Our scope included four 4'-0" thick slab pours that ranged from 600 - 1,200 CY. The concrete walls were 3'-0" thick and varied in height. Several concrete walls being poured were over 30'-0" tall and several hundred yards. Harry Pepper and Associates installed a metal suction intake form that was encased in concrete. The water will travel through the metal form; to the pumps, and out the outlet structure.

Challenges & Accomplishments

- The major noteworthy item on this project was the three levels of exterior cast in place walls that enclosure the building. This ranged from El. 254'-0" to 307'-0" that required three lifts of walls and two lifts of beams to finish the project.

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SE 15TH AVENUE BRIDGES REPLACEMENT

PROJECT PROFILE

CLIENT
City of Fort Lauderdale

LOCATION
Ft. Lauderdale, FL

SCHEDULE
June 2012 - June 2013
12 months

SIZE
9,000 Square Feet

OWNER
City of Fort Lauderdale

ENGINEER
City of Fort Lauderdale

Project Details

The 15th Avenue Bridges Replacement consisted of the demolishing and reconstruction of two bridges, of which each were 138 feet long and included 18 foot concrete pilings and pre-stressed, precast deck slabs. Baker Concrete Construction was contracted by the City of Fort Lauderdale to self perform the MOT, concrete substructure and concrete superstructure on this project.

Challenges & Accomplishments

- This project required frequent coordination and interaction with the homeowners and residents.
- Baker performed much of our work via marine access by using a crane on a barge.
- Since the bridge is in a residential neighborhood there was very limited work space.

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 9/12/2024

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 Alliant Insurance Services, Inc. 7108 Fairway Dr., Suite 325 Palm Beach Gardens FL 33418	**CONTACT NAME:** Certificate Center **PHONE (A/C, No, Ext):** **FAX (A/C, No):** **E-MAIL ADDRESS:** Bakercerts@alliant.com
INSURED Baker Concrete Construction, Inc. 900 North Garver Road Monroe, OH 45050	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Arch Insurance Company — 11150 **INSURER B :** Arch Indemnity Insurance Compa — 30830 **INSURER C :** American Guarantee and Liabili — 26247 **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1212044835 **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	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR X Contractual Liab X XCU Included GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [X] LOC [ ] OTHER:	Y	Y	11PKG8908314	9/30/2024	9/30/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 2,000,000 $ 1,000,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000 $
A	**AUTOMOBILE LIABILITY** X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y	Y	11PKG8908314	9/30/2024	9/30/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 2,000,000 $ $ $ $
A C	[ ] **UMBRELLA LIAB** [X] OCCUR X **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $	Y	Y	11UFP8980014 AEC1051957-10	9/30/2024 9/30/2024	9/30/2025 9/30/2025	EACH OCCURRENCE AGGREGATE Follows GL, AL, EL	$ 13,000,000 $ 13,000,000 $
A B A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	11WCI8908114 (FL,WV) 14WCI8953314 (AOS) 11WCX8908214 (OH)	9/30/2024 9/30/2024 9/30/2024	9/30/2025 9/30/2025 9/30/2025	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additional Insured coverage is provided on the General Liability (per attached CG 2010 04 13 and CG 2037 04 13), Automobile Liability, Excess Liability, subject to the policies' terms and conditions, where required by contract or agreement, on a Primary and Non-Contributory basis. A Waiver of Subrogation applies in favor of the Additional Insured as required by contract or agreement. No policy will permit cancellation without thirty (30) days prior written notice. General/Excess Liability and/or Workers Compensation Coverage's are afforded for off-site operations only if the insured is enrolled in a wrap up program.

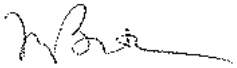
CERTIFICATE HOLDER

Baker Concrete Construction, Inc
900 North Garver Road
Monroe OH 45050

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



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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
ANY PERSON OR ORGANIZATION YOU ARE REQUIRED IN A WRITTEN CONTRACT TO ADD AS AN ADDITIONAL INSURED	WHERE REQUIRED BY CONTRACT OR AGREEMENT
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

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A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf.

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

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 additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. 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.

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
ANY PERSON OR ORGANIZATION YOU ARE REQUIRED IN A WRITTEN CONTRACT TO ADD AS AN ADDITIONAL INSURED	WHERE REQUIRED BY CONTRACT OR AGREEMENT
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

 © Insurance Services Office, Inc., 2012

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

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.

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NON-COLLUSION AFFIDAVIT
(Submit with bid documents)

State of Florida

County of Hillsborough

_____ being first duly sworn, deposes and says that:

(1) He/She is the Agent, (Owner, Partner, Officer, Representative or Agent) of Baker Concrete Construction the Bidder that has submitted the attached Bid;

(2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

(3) Such Bid is genuine and is not a collusive or sham Bid;

(4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm, or person to submit a collusive or sham Bid in connection with the Work for which the attached Bid has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Work;

(5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

BY _____

ITS Chief Estimator
(Title)

Subscribed and sworn to before me

this 15th day of November, 2024.

_____

_____

My commission expires _____

END OF SECTION

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

TABLE OF CONTENTS

SECTION 1 - REQUEST FOR PROPOSAL

The Request for Proposal consists of the following:

1.1 Request For Proposal document

1.2 Bid Form

NOTE: TO ENSURE YOUR PROPOSAL IS COMPLETE, BE SURE TO INCLUDE THE COMPLETED BID FORM AND ALL DOCUMENTS REQUIRED TO BE PART OF YOUR PROPOSAL AS LISTED IN SECTION 1.0 OF THE BID FORM.

SECTION 2 - SAMPLE SUBCONTRACT (THIS IS NOT AN AWARD)

A Sample of the Subcontract is provided for your information.

The Subcontract shall consist of the following Contract Documents:

2.1 Subcontract Agreement Between CDM Constructors Inc. and Subcontractor for Construction Services

2.2 Exhibit A Scope of Subcontract Work, Subcontract Price, and Schedule for Completion

2.2.1 Exhibit A, Attachment 1 Scope of Subcontract Work (incorporates Section 3 - Plans and Specifications, below)

2.2.2 Exhibit A, Attachment 2 Subcontract Price

2.2.3 Exhibit A, Attachment 3 Schedule for Completion

2.2.4 Exhibit A, Attachment 4 Changes in Work

2.2.5 Exhibit A, Attachment 4, Schedule 1 All inclusive hourly labor rates

2.2.6 Exhibit A, Attachment 4, Schedule 2 Equipment Rental Schedule

2.2.7 Exhibit A, Attachment 4, Schedule 3 Unit Rates (as applicable)

2.2.8 Exhibit A, Attachment 5, General Project Requirements

2.3 Exhibit B Subcontract Terms and Conditions

2.4 Exhibit C Subcontract Supplementary Terms and Conditions

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

2.5 Exhibit D The Prime Agreement

2.6 Exhibit E Subcontractor Insurance Certificate

2.7 Exhibit F CDM Smith Business Partner Integrity Requirements

2.8 Exhibit G Waiver and Release of Lien forms

2.9 Exhibit H Invoicing Instructions

2.10 Exhibit I Health and Safety Plan

2.11 Exhibit J Performance and Payment Bonds

2.12 Exhibit K Quality Assurance / Quality Control Plan

SECTION 3 - TECHNICAL SPECIFICATIONS AND DRAWINGS

Included under Exhibit A, Attachment 1 - Scope of Work

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

REQUEST FOR PROPOSAL

PROJECT OVERVIEW

Tampa Bay Water (Owner), through its contractual agreement with Veolia Water North America (Client), to manage the current Regional Surface Water Treatment Plant (RSWTP), is implementing the Surface Water Treatment Plant Expansion Project to help meet increasing demand for drinking water. The project will increase the operating capacity and the design-rated capacity of the RSWTP. The initiative aims to enhance RSWTP operational capacity, enabling it to function with all process units and supporting facilities at an increased potential range, providing flexibility to run individual or all unit processes.

SCOPE OF WORK:

The Scope of Work for this Request For Proposal is defined in Exhibit A, Attachment 1 - Scope of Work. If you require further clarification concerning the Scope of Work, please follow the Request For Information process as defined below.

PROPOSAL SUBMISSION:

PROPOSAL DUE DATE AND TIME: Friday November 01, 2024, 3:00 PM (EST)

SUBMISSION INSTRUCTIONS:

Bids shall be submitted using the link provided in the CDM Smith SmartBid System Invitation to Bid.

- In the Invited Project Packages section select “ACCEPT” on the Bid Packages you intend to bid.
- In the Project Section, Select the “Send Proposal” button, then select the Add Proposal or drag and drop your proposal in the Upload files section and then select “SEND”.

Should you have any issues uploading your proposal in the SmartBid System please contact:

Larry Oliver at: Email Oliverlr@cdmsmith.com **Phone:** 407-660-410

PROPOSAL SCHEDULE AND MILESTONES:

RFP ISSUED:	September 30, 2024
RFI QUESTIONS DUE:	October 25, 2024
PROPOSAL DUE:	November 01, 2024 3:00 PM (EST)
Mandatory Pre-Bid Meeting	October 7, 2024 9:00AM (EST)
	2301 Regional Water Lane, Tampa, Fl. 33619

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

BIDDER'S DECLARATION AND UNDERSTANDING:

1. If selected for contract award, the undersigned agrees to enter into an Agreement with CDM Constructors Inc. to perform and furnish all works as specified or indicated in the Subcontract Documents listed below for the amount indicated in the submitted Exhibit A, Attachment 2 - Compensation and in accordance with all other terms and conditions of these complete Subcontract Documents.
   The documents include but are not limited to the following:

Document	Document Description
	Subcontract Agreement Between CDM Constructors Inc. and Subcontractor for Construction Services
Exhibit A	Scope of Work, Subcontract Price, and Schedule for Completion
Exhibit A, Attachment 1	Scope of Subcontract Work
Exhibit A, Attachment 2	Subcontract Price
Exhibit A, Attachment 3	Schedule for Completion
Exhibit A, Attachment 4	Changes in Work
Exhibit A, Attachment 4, Schedule 1	All inclusive hourly labor rates
Exhibit A, Attachment 4, Schedule 2	Equipment Rental Schedule
Exhibit A, Attachment 4, Schedule 3	Unit Rates
Exhibit A, Attachment 5	General Project Requirements
Exhibit B	Subcontract Terms and Conditions
Exhibit C	Subcontract Supplementary Terms and Conditions
Exhibit D	The Prime Agreement
Exhibit E	Subcontractor Insurance Certificate
Exhibit F	CDM Smith Business Partner Integrity Requirements
Exhibit G	Waiver and Release of Lien forms
Exhibit H	Invoicing Instructions
Exhibit I	Health and Safety Plan
Exhibit J	Performance and Payment Bonds
Exhibit K	Quality Assurance / Quality Control Plan

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

2. By submitting a Proposal, Bidder certifies it is qualified to do business in the state where the Project is located as required by laws, rules, and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.
3. By submitting a Proposal, Bidder makes all representations required herein and further warrants and represents that Bidder has familiarized itself with the nature and extent of the Subcontract Documents, work, site, locality, and all local conditions and laws and regulations that in any manner may affect cost, progress, performance, or furnishing the goods and services.
4. Bidder shall provide values for specific performance parameters for each equipment piece supplied as requested herein. Bidder understands and agrees that any values provided for the associated performance parameters will be compared to the performance standard requirements.
5. Bidder is responsible for review of the complete set of project drawings and specifications for coordination of the proposed scope of work with all other project elements.
6. Bidder shall provide equipment data sheets for any and all specified equipment with proposal.
7. **To the extent permitted by applicable state and federal laws and regulations, CDM Constructors Inc. and OWNER reserve the right to reject any and all Proposals, to waive any and all informalities not involving price, time or changes in the Work with the Successful Bidder, and the right to disregard all nonconforming, nonresponsive, unbalanced or conditional Proposals. Proposals may be considered irregular and subject to rejection if they show serious omission, unauthorized alteration of form, unauthorized alternate proposals, incomplete or unbalanced unit prices, or irregularities of any kind. Also, CDM Constructors Inc. and OWNER reserve the right to reject the Proposal of any Bidder if CDM Constructors Inc. or OWNER believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Proposal is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by CDM Constructors Inc. or OWNER.**
8. **Bidders may be investigated by CDM Constructors Inc. and/or OWNER to determine if they are qualified to perform the Work. The investigation of a Bidder will seek to determine whether the organization is adequate in size, is authorized to do business in the jurisdiction where the project is located, has had previous experience and whether available equipment and financial resources are adequate to assure CDM Constructors Inc. that the Work will be completed in accordance with the Terms of the Agreement. The amount of other work to which the Bidder is committed may also be considered. CDM Constructors Inc. reserves the right to reject any Proposal if the evidence submitted by or the investigation of such Bidder fails to satisfy CDM Constructors Inc. that Bidder is properly qualified to carry out the obligations of the Documents and to complete the Work contemplated within.**
9. SECOND TIER SUBCONTRACTORS

CDM Constructors Inc. may consider the qualifications and experience of SECOND-TIER SUBCONTRACTOR's, Suppliers, and other persons and organizations proposed.
If requested by CDM Constructors Inc., the apparent Successful Bidder, and any other Bidder so requested, shall, within seven days after the date of the request, submit to CDM Constructors Inc. an experience statement with pertinent information as to similar projects and other evidence of qualification for each such SECOND-TIER SUBCONTRACTOR, person and organization. If CDM Constructors Inc. after due investigation has reasonable objection to any proposed SECOND-TIER SUBCONTRACTOR, supplier, other person or organization, may, before giving the Notice of Award request the apparent Successful Bidder to submit an acceptable substitute without an increase in Subcontract Price or Subcontract Time. If apparent Successful Bidder declines to make any such substitution, CDM Constructors Inc. may award the Subcontract to the next lowest Bidder that proposes to use acceptable SECOND-TIER SUBCONTRACTOR's, Suppliers and other persons and organizations. Declining to make requested substitutions will not constitute grounds for sacrificing the Bid security of any Bidder. No SUBCONTRACTOR shall be required to employ any SECOND-TIER SUBCONTRACTOR, Supplier, other person or organization against whom he has reasonable objection.

10. Information and data reflected in the Subcontract Documents or RFP with respect to Underground Facilities at or contiguous to the site are based upon information and data furnished by Owners of such Underground Facilities or others. OWNER and CDM Constructors Inc. do not assume responsibility for the accuracy or completeness thereof unless it is expressly provided otherwise.
11. Before submitting a Proposal, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing the Work in accordance with the time, price or other Terms and Conditions of the Subcontract Documents or RFP. On request in advance, CDM Constructors Inc. will provide each Bidder access to the site to conduct such explorations and tests as each Bidder deems necessary for submission of a Proposal. Bidder shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.
12. COPIES OF PROPOSAL DOCUMENTS
    Complete sets of proposal documents must be used in preparing proposals; neither CDM Constructors Inc. nor Owner assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of proposal documents by Bidder's or their sub-tier Bidder's.

CDM Constructors Inc. in making copies of proposal documents available on the above terms do so only for the purpose of obtaining proposals on the Work and do not confer a license or grant for any other use.

13. DISCREPANCIES
    Discrepancies between words and figures will be resolved in favor of words. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.
14. QUALIFICATION SUBMITTALS
    It is the intention of CDM Constructors Inc. to ensure that the apparent Successful Bidder is competent to perform and complete the Work in a satisfactory manner. Accordingly, CDM Constructors Inc. will require all Bidder's to submit with their proposal evidence of Bidder's certification and license to perform the work and services.
    At CDM Constructors Inc.'s option failure by the Successful Bidder to deliver these Qualifications Submittals as requested will void evaluation of the Proposal, and will constitute proof that the Successful Bidder has abandoned all his rights and interests in the award, and his Bid Security may be declared forfeited to CDM Constructors Inc. as liquidated damages and the work may be awarded to another Bidder.
    If upon receipt and evaluation of the submittals, the Successful Bidder does not pass the evaluations to CDM Constructors Inc.'s satisfaction, CDM Constructors Inc. reserves the right to reject the Proposal.
15. TAXES
    The Bidder is responsible for reviewing the pertinent State Statutes involving the sales and use tax and sales and use tax exemption and complying with all requirements. The Bidder shall include all Federal, State and local taxes in his Proposal. The Bidder shall indemnify, defend and hold harmless, Owner, CDM Constructors Inc. and their employees, agents and representatives from and against any and all claims, damages, losses, penalties, fines and tax liabilities whatsoever resulting from Bidder’s failure to include such taxes in his proposal, pay any such tax or comply with any applicable tax requirements or statutes.
16. SIGNING OF AGREEMENT
    When CDM Constructors Inc. gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Subcontract with all other written Subcontract Documents attached. Within five (5) calendar days thereafter SUBCONTRACTOR shall sign and deliver the required number of counterparts of the Subcontract and attached documents to CDM Constructors Inc. with the required Bonds.
17. QUALIFICATIONS OF SURETY COMPANIES:

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
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In order to be acceptable to CDM Constructors Inc., a surety company issuing Bid Guaranty Bonds, or 100% Performance/Payment bonds, called for in these Specifications, shall meet and comply with the following minimum standards:

A. Surety Prequalification Letter Proposer shall include with their response a surety prequalification letter in the sample form attached to this RFP. This letter shall be on the proposer surety's letterhead, shall reference the project and proposer's scope of work, be executed by an attorney-in-fact of the surety and include a Power of Attorney attached to the letter.

B. Surety must be admitted to do business in the State where the work is being performed.

C. Surety shall have been in business and have a record of successful continuous operations for at least five (5) years.

D. Attorneys in fact who sign bid bonds or performance/payment bonds must file with such bond a certified copy of their power of attorney to sign such bond.

E. Agents of surety companies must list their name, address and telephone number on all bonds.

F. Surety Qualification. If Performance and/or Payment bonds, Supply bonds, or Warranty bonds are required at any time, Subcontractor shall pay for and deliver such bonds, within 10 days of CDM Constructors Inc.'s request using the form specified by CDM Constructors Inc. and attached to the Subcontract, each in the full amount of the Subcontract, issued by a United States (U.S.) Treasury listed surety with an AM Best rating of A- IX or better, approved and licensed to do business in the state where the Project is located (Controlling State), duly executed by agents with complete Power of Attorney to the full limits therein. CDM Constructors Inc. shall have the right, in its sole discretion, to reject Subcontractor's bonds and surety and to require replacement of the bonds and/or surety, at Subcontractor's cost, if the surety at any time fails to satisfy any requirements of the Subcontract. Subcontractor is not permitted any mark up on bond costs and shall present an invoice from its surety to establish the actual cost of any bonds. Subcontractor shall refund to CDM Constructors Inc. any rebate or refund in bond premiums resulting from adjustment in bonds. If the Subcontractor shall fail to furnish such bond, within ten (10) days after said notice is mailed to his address, CDM Constructors Inc. through its proper agent or agents, may stop all further work under said Subcontract and complete the unfinished work at the expense of the Subcontractor.

G. Changes & Terms. CDM Constructors Inc. shall have the right, without notice to Subcontractor's surety, to order changes in the performance or time of performance of the Work and to modify the Subcontract. No extension of time, change, addition, or omission of terms in the Subcontract or the Prime Contract shall affect the surety's obligation on the bonds. Subcontractor and its surety waive notice to the surety of any such extension of time, change, addition, or omission. Subcontractor and surety agree without the necessity for any further authorization, to increase the bonds' penal sums if or when additive changes to the Subcontract

are executed. CDM Constructors Inc.'s response to any surety inquiry as to Subcontractor's performance shall not estop or impair CDM Constructors Inc.'s rights under the Subcontract or any bond, and surety shall be required to conduct its own independent investigation of Subcontractor's performance.

H. Duration. Any Bond shall guaranty Subcontractor's performance through the end of any warranty period and any statute of limitation as to surety's obligations under the Bond shall not accrue until the warranty period ends.

I. The Bonds shall be in an amount equal to one hundred percent (100%) of the Subcontract Price conditioning that the Successful Bidder shall comply in all respects with the terms and conditions of his Subcontract, and his obligations thereunder, including the Specifications and shall indemnify and save harmless the CDM Constructors Inc. against or from all costs, expense, damages, injury or loss to which the CDM Constructors Inc. may be subjected by reason of wrong doing, misconduct, want of care of skill, negligence or default upon the part of the SUBCONTRACTOR, his agents, or employees, in or about the execution of performance of this Subcontract, including said Specifications, and shall save and keep harmless the CDM Constructors Inc. against and from all claims or losses to it or from any cause whatever, including patent infringements, in the matter of the performance of said Subcontract, and including also any patent infringements because of designed operation methods on the project and/or the use of any patented thing, equipment, and/or apparatus installed by him herein.

18. BOND REIMBURSEMENT

    At CDM Constructors Inc.'s discretion, successful Bidder shall submit an invoice directly from the bonding company to CDM Constructors Inc. as proof of actual bond costs. CDM Constructors Inc. will pay successful Bidder for the actual cost of the bond(s) with no mark up.

19. REQUIRED DISCLOSURE

    With its proposal submission, Bidder shall disclose all material facts pertaining to any felony conviction or any pending felony charges in the last three (3) years in this state or any other state or the United States against (i) Bidder, (ii) any business entity related to or affiliated with Bidder, or (iii) any present or former executive employee, officer, director, stockholder, partner or CDM Constructors Inc. of Bidder or of any such related or affiliated entity. This disclosure shall not apply to any person or entity which is only a stockholder, which person or entity owns 20% or less of the outstanding shares of a bidder whose stock is publicly owned and traded.

    At its sole discretion CDM Constructors Inc. may reject any Bidder CDM Constructors Inc. finds to lack, or whose present or former executive employees, officers, directors, stockholders, partners or contractors are found by the CDM Constructors Inc. to lack honesty, integrity, or moral responsibility. The discretion of CDM Constructors Inc. may be exercised based on the disclosure required herein. By submitting a proposal, Bidder recognizes and accepts that CDM Constructors Inc. may reject the proposal based upon the exercise of its sole discretion and

Bidder waives any claim it might have for damages or other relief resulting from the rejection of its proposal based on these grounds.

20. Clarification of Proposal. CDM Constructors Inc. reserves the right to obtain clarification of any point in a Proposal or to obtain additional information as necessary to properly evaluate a particular Proposal. Failure to respond to such a request for additional information or clarification in a timely manner may result in rejection of the Proposal.
21. This PROPOSAL does not commit CDM Constructors Inc. to enter into a contract, nor does it obligate CDM Constructors Inc. to pay for any costs incurred in the preparation and submission of Responses or in anticipation of a contract. Costs of preparing the Proposal in response to this request are solely the responsibility of the Bidder. By responding to this RFP, the Bidder attests that no employee of CDM Smith or any of its affiliates including CDM Constructors Inc. and Owner or any other project related entity, has an existing or pending, direct or indirect, financial interest in the Bidder's business. No Bidder to this RFP shall discriminate against any employee or applicant for employment because of race, religion, color, sex, age, or national origin.
22. CDM Constructors Inc. intends to select one or more firm(s) based on successful completion of the pre-qualification process, price, experience and ability, including successful completion of similar projects; qualifications of personnel; and general construction performance; available bonding capacity; service experience including record keeping/administrative ability, critical path scheduling, cost control, quality control, safety record, and other factors.
    Proposals will be reviewed based on the selection criteria and one or more firms will be selected to perform the work contained in the outlined scope of work.
    CDM Constructors Inc. reserves the right to: (a) award a subcontract solely on the initial proposal received by CDM Constructors Inc. without any discussion or clarification; (b) reject or accept a proposal that is not submitted in strict compliance with the RFP requirements; (c) make an award to other than the low bidder; and (d) issue multiple requests for proposals. CDM Constructors Inc. reserves the right to take the actions identified in the immediately preceding sentence without discussion or prior notification to Bidder.
23. The Bidder shall treat this RFP and any resulting discussions as confidential. If you do not agree to treat this RFP and associated discussions as confidential, return the complete RFP to CDM Constructors Inc. and delete or destroy any copies you made.
24. All entities contracting with CDM Constructors Inc. agree to abide by and to take affirmative action when necessary to ensure compliance with the nondiscrimination clauses set out below and agree to show proof of non-discrimination upon request and to post in conspicuous places available to all associate agents and their employees. In the event of non-compliance with nondiscrimination clauses, or with provisions of Executive Orders 11141 (age), 11246, 11375 (women), 12086 (Vietnam veterans), 11478 (federal employees), 11625 (minority business) 11701 (veterans), Title 41, Chapter 60 (handicapped) and specifically the handicapped

affirmative action clause in Section 60-741.6.9 of OFCCP Rules, and any and all other federal laws prohibiting discrimination, contracts may be canceled, terminated, or suspended in whole or in part by the CDM Constructors Inc.

BID VALIDITY:

1. **This Proposal will remain valid for 60 days after the proposal due date.**
2. Proposals may be modified or withdrawn by an appropriate document duly executed and delivered to the place where Proposals are to be submitted at any time prior to the deadline for submitting Proposals. A request for withdrawal or a modification must be in writing and signed by a person duly authorized to do so; and, in case signed by a deputy or subordinate, the principal's proper written authority to such deputy or subordinate must accompany the request for withdrawal or modification. Withdrawal of a Proposal will not prejudice the rights of a Bidder to submit a new Proposal prior to the Proposal due date and time. After expiration of the period for receiving Proposals, no Proposal may be withdrawn or modified.

REQUIREMENTS FOR PROPOSAL SUBMISSION:

1. Bidder shall provide a technical proposal to indicate compliance with the scope of work defined herein which shall include but shall not be limited to the following required items and/or information:
    a. A detailed proposal which defines, at a minimum, the Bidder's proposed approach for planning, executing, and managing the scope of work defined herein and includes information regarding sequencing of the work, staging plans, traffic control, site-specific safety management, minimizing impact of existing facilities, managing material deliveries and removals and equipment placement, quality assurance and quality controls for executing the work, and confirmation of inclusion of complete scope of work.
    The Bidder's should also set forth a summary of any problems and challenges anticipated during the term of the Project. The Bidder should identify and submit proposed solutions for each of the anticipated problems and challenges.
    b. A schedule for the work which indicates overall compliance with the project schedule and/or schedule information, milestones, and restrictions defined herein, includes sufficient detail to incorporate the complete scope of work including planning, submittals, approvals, mobilizations, and close-out, and defines proposed working hours and days.
    c. Project Team and Experience. The Bidder shall identify the key roles and the personnel proposed for each role of the Bidder's team and shall include an organizational chart

depicting the entire organizational structure. Detailed resumes should be submitted for all management, supervisory, and key personnel.

d. State the name(s) of all subcontractors that will assist respondent in completing the project. State the level of participation of subcontracts that will assist in completing the project.

e. List three references of projects you have performed with similar size, scope, and duration. Please list client, project name, contact name, and contact's phone number/email.

f. Cost Information. The Bidder shall complete and return Exhibit A, Attachment 2 – Subcontract Price and shall capture all cost information submitted for this Proposal.

2. Bidder shall provide the information requested and any supporting information necessary to permit a complete analysis of the proposal.
   CDM Constructors Inc. may base its decision to award a subcontract solely on the initial proposal received without any discussion or clarification. Therefore, your initial proposal should include the most favorable commercial and technical terms you can offer for the duration of the proposal validity period identified herein.
3. Declared Exceptions to RFP Requirements.
   An exception is any variation from an express RFP requirement. Declare all exceptions, whether commercial or technical in nature, in the Bid Form. Provide specific exceptions and accurately reference the article number to which each exception applies. Exceptions of a general nature or that refer to your standard specifications or terms are not acceptable and may result in rejection of your proposal without prior notice.
   Declared Clarifications to RFP Requirements.
   A clarification is the means by which you offer to meet an RFP requirement if the RFP does not identify the specific means by which the RFP requirement must be met. Declare any clarifications, whether commercial or technical in nature, in the Bid Form. Reference the article number to which each clarification applies.

REQUESTS FOR INFORMATION:

1. If any prospective firm is in doubt as to the true meaning of any part of the requirements for preparing and submitting a Proposal for the requested services, they may submit a written request (verbal requests will not be accepted) for an interpretation up to the "RFI / Questions Due" date noted above.
   Any interpretation of the proposed documents will be made in writing and transmitted to each party receiving a set of such documents. CDM Constructors Inc. will not be responsible for any other explanations or interpretations of the proposed documents. Any requests not submitted within this time period will be deemed waived.

REQUEST FOR PROPOSAL

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

2. There shall be no communication between the Bidder, their employees or subcontractors concerning this Proposal to anyone associated with this project except as directed in the Request For Information process herein. Failure to comply with this requirement will be grounds for disqualification
3. RFIs shall be sent before the deadline for RFI submittal via email
   To: Steve Solters (solterssm@cdmsmith.com)
   Cc: Paul Safirulla (safirullapa@cdmsmith.com)
   Larry Oliver (oliverlr@cdmsmith.com)

USE OF THE BID FORM:

1. The Bid Form is the required format for all proposals; use of this form is mandatory.
2. Without exception, this form is to be completed and signed to accompany and qualify Bidder's proposal.
3. Use of the Bid Form confirms Bidder has acknowledged all applicable Subcontract Documents, understands requirements, submitted all required documentation, and has submitted complete and accurate pricing for evaluation and selection by CDM Constructors Inc.
4. Use of Bidder's own proposal is acceptable as a supplement to Bid Form, but Bid Form must be completed in full, attached, and will supersede Bidder's own proposal form in instances of conflicting information. Additionally, the scope, details, schedule, and contractual terms and conditions specified in this Request for Proposal and all attached and/or referenced documents supersede those on Bidder's own proposal form.

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

BID FORM

1. REQUIRED TO BE INCLUDED WITH YOUR PROPOSAL

The following documents are to be included in or returned as part of your proposal. Incomplete bid packages may be considered non-responsive and disregarded by CDM Constructors Inc. and/or the Owner.

a. THIS completed and signed Bid Form.
b. Detailed Technical Proposal
c. Completed and signed Supplier/Subcontractor Representations and Certifications Document (Refer to Exhibit H)
d. Completed and signed Non-Collusion Affidavit (Refer to Exhibit H)
e. Current Certificate of Insurance evidencing coverage, endorsements and limits are required herein.
f. Proposed project schedule.
g. Exhibit A, Attachment 2 – Subcontract Price
h. Exhibit A, Attachment 4 - Changes in Work. As requested, include your Company's All inclusive hourly labor rates and Equipment Rental Schedules
i. Payment and Performance Bonds in the amount of 100% of the Subcontract value shall be provided by the Subcontractor at time of award.
j. Surety Prequalification Letter
k. Dun and Bradstreet number and rating. Financial statements if your D&B ratings is less 3A2.
l. Confirmation of SAMS.gov registration
m. Confirmation to Buy American provisions.

2. SUBCONTRACT ACCEPTANCE

a. BIDDER agrees that all Work required by the Subcontract Documents will be completed as set forth by all requirements, terms, and documents attached and/or referenced by this Request for Proposal.

	Agree	**Do Not Agree**
I have reviewed the entirety of this Request for Proposal (including Terms and Conditions) and have no objections to the contents within.		

If you DO NOT AGREE, state specific exceptions, clarifications and assumptions (including Terms and Conditions).

Final scope and terms to be mutually agreed upon

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
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Please note that exceptions to the Terms and Conditions may render your proposal non-responsive.

3. ADDENDA

The Bidder has received, reviewed and incorporated the following Addenda into the proposed scope and cost.

Addenda No.:	01	Date:	10-24-2024
Addenda No.:		Date:	
Addenda No.:		Date:	
Addenda No.:		Date:	

4. CONFIRMATION OF PRICING

Bidder confirms they will supply/perform the scope of Work in accordance with all requirements of this Request for Proposal and in accordance with the Subcontract Price as defined in Exhibit A, Attachment 2 – Subcontract Price.
Bidder also confirms the pricing stated herein is "Firm" and NOT subject to price escalation.

5. CONFIRMATION OF SCHEDULE

Bidder confirms they will supply/perform the scope of Work in accordance with all requirements of this Request for Proposal and in accordance with the schedule as defined in Exhibit A, Attachment 3 - Schedule for Completion.

6. CONFIRMATION OF PRIME AGREEMENT

Bidder confirms they have reviewed and understand the Prime Agreement between CDM Constructors Inc. and the Owner is incorporated herein by reference and made an integral part of the Subcontract. SUBCONTRACTOR shall comply with all requirements, terms, and conditions of the Prime Agreement that relate in any way to the performance and completion of the Subcontract Work.

7. SUB-TIER SUBCONTRACTORS

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
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Bidder intends to utilize the following sub-subcontractors. If none, please state None.

Proposed Sub-subcontractor	Work to be performed	MWBE (Yes / No)	% based on Total Subcontract Price
TBD			

8. USE OF TEXTURA

Bidder confirms they have read, understands and agrees that all invoicing shall be completed through the use of the Textura Construction Payment Management program. Bidder has included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.

9. BIDDER CONTACT INFORMATION

Communications with Bidder concerning this Proposal shall be addressed to:

_____
_____
_____
_____
_____
_____

10. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I have reviewed CCI's VDC specification 013126 and will conform to the VDC requirements as stipulated.	Y	

If you DO NOT AGREE, state reasons for not being able to comply.

_____
_____
_____
_____
_____
_____

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
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11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.	Y			$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.	Y			

12. WAGE DETERMINATION

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Davis and Bacon wage determination as it may apply to any site work performed.			N/A	$

13. PAYMENT AND PERFORMANCE BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Subcontracts greater than $100,000, confirm your pricing includes providing a Payment and Performance Bond as required by CDM Smith. (Refer to Exhibit J)	Y			$
B. Confirm you have provided the Surety Prequalification Letter.	Y			

14. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
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A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

	YES	NO
B. Confirm your company is registered at SAMS.gov.	Y	

15. REQUIREMENTS AND EXECUTIVE ORDERS

The Bidder executes this Proposal as and confirming the following:

a. Consider federal, state and local laws, ordinances, and any other rules and regulations that may in any manner affect the Bidder's response, including but not limited to: Executive Orders 11625, 11246, as amended, 12138 and 12432.
b. Study and carefully correlate the Bidder's observations and responses with the RFP Documents.
c. Notify CDM Constructors Inc., of all conflicts, errors and discrepancies, if any, in the RFP document submitted. Bidder by and through the submission of their Proposal, agree that they shall be held responsible for having therefore familiarized themselves with the nature and extent of the requirements in the RFP Documents.
d. The following are incorporated by reference:
The requirements of Executive Order 11246, as amended, and the applicable regulations contained in 41 C.F.R. Parts 60-1 through 60-60; 29 U.S.C. Section 793 and the applicable regulations contained in 41 C.F.R. Part 60-741; 38 U.S.C. Section 4212 and the applicable regulations contained in 41 C.F.R. Part 60-250 and/or 60-300; and 29 C.F.R. Part 471 Appendix A to Subpart A.

16. SIGNATURE

By: _____
(Signature of person authorized to sign)
Printed Name: Bob Saltsman
Title: Chief Estimator
Company Name: Baker Concrete Construction
Address: 5555 Anglers Ave Suite 1a
Fort Lauderdale, FL 33312

BID FORM

Project: Design Services for the Surface Water Treatment Plant Expansion CIP Project
Owner: Veolia North America
Date: September 30, 2024
Package # / Title: 03 30 00 Cast In Place Package

Phone:	407-463-6508
Email:	saltsmanb@bakerconcrete.com

Exhibit A
Scope of Subcontract Work, Subcontract Price, and Schedule for Completion

This Exhibit A is attached to and incorporated into the Subcontract between CONTRACTOR and SUBCONTRACTOR. This exhibit establishes the scope of the Subcontract Work to be performed by SUBCONTRACTOR, the Subcontract Price that will be paid to SUBCONTRACTOR for acceptable performance of the Subcontract Work, and the schedule for completion of the Subcontract Work.

This Exhibit A consists of the following attachments:

Exhibit A, Attachment 1 - Scope of Work

Exhibit A, Attachment 2 - Subcontract Price

Exhibit A, Attachment 3 - Schedule for Completion

Exhibit A, Attachment 4 - Changes in the Work

Exhibit A, Attachment 5 – General Project Requirements

Exhibit A

Attachment 1 - Scope of Work

Scope of Subcontract Work

1. General description of the scope of the Subcontract Work

SUBCONTRACTOR shall furnish all labor, materials, equipment and services as required by the Subcontract Documents at a rate of progress that allows for completion of the work on or ahead of schedule. The Subcontract Work includes, but is not limited to, the following:

The Structures & Turnkey Buildings exclude electrical, process drains, subsurface pipes, equipment pipe, under slab drains, and controls provided by Design-Builder or others. The SUBCONTRACTOR shall construct the following buildings, including (~~with dewatering plan, operation, maintenance, and removal),~~ excavation, grading, compaction, foundations, slab on grade, and associated documentation:

I. **Structures**

- Actiflo Tank
- Ozone Contactor Tank
- LOX and Chiller Pad
- Chemical Storage Containment Area
- Sodium Hypo Storage and Containment Area
- New Filter Tanks 16, 17, and 18
- Ferric Sulfate Storage and Containment
- ~~Supply & Install All Metal Canopies~~
- ~~Supply & Install All Miscellaneous Metals, Handrails, Gratings, Diamond Plate Covers, Stair Towers, Hatches, and Manways.~~

mass excavation for structures excluded. Assumed grade shall be provided by others at bottom of foundation elevation.

II. **Turnkey Buildings (**~~including HVAC, doors, windows~~**):**

- Ozone Generator Building
- Polymer Storage Building
- Dry Chemical Lime Silo Slaker Building

- **DETAL SCOPE OF WORK**

a. SUBCONTRACTOR acknowledges and affirms their familiarity and awareness that the work of this project occurs in an operational surface water treatment facility. All precautions should be taken to ensure continued un-interrupted operation of the plant. Planned shutdowns must be coordinated in advance with Design-Builder and Plant personnel.

b. SUBCONTRACTOR shall provide all necessary excavation services to install the C.I.P. and foundations. This includes temporary sheeting shoring, trench boxes, bedding material, ~~geotextile fabric~~, and dewatering, ensuring neat and safe installation as per the Contract Documents.

casual

c. SUBCONTRACTOR shall backfill to finish grade for their scope of work, complete and as per the Contract Documents.

d. **Concrete Work:**

- Include formwork, reinforcement, and finishing as required for all structural and non-structural elements. assumptions made for rebar in columns and elements not scheduled on the plans
- Ensure compliance with specified tolerances and quality control measures as outlined per the Contact Documents .
- Supply and install all concrete encasement for underground piping (including sufficient formwork).

e. **Formwork and Accessories:** none shown
   - Formwork to include ~~architectural form liners,~~ shoring, bracing, and form stripping.
   - Ensure proper alignment, cleanliness, and tightness of formwork before placing concrete

f. **Reinforcing Steel:**
   - Include all necessary splicing, placement, and bonding as required.
   - Ensure inspection and approval by the Engineer before concrete placement.

g. **Concrete Placement and Finishing:** cost of inspections and testing by others
   - Place concrete according to the Contract Documents.
   - Ensure proper consolidation and curing of concrete as required per the Contract Documents.
   - Include all necessary finishing operations as specified.

h. Install all metal embeds supplied by others.

i. ~~SUBCONTRACTOR shall supply & install all miscellaneous metals, handrails, gratings, diamond plate covers, stair towers, hatches, and manways.~~

j. SUBCONTRACTOR shall supply construction joint preparation, including keyways.

k. SUBCONTRACTOR shall supply and install all blockouts, chases, and other formed openings as required.

l. SUBCONTRACTOR shall supply and install all pointing and patching, concrete rubbing, crack repair, and other remedial and finishing work to the concrete surfaces as required.

m. SUBCONTRACTOR shall supply and install all materials and labor for concrete curing and protection.

n. SUBCONTRACTOR shall supply and install all hoisting required for the Subcontractor's work, including crane(s), concrete pumping, and other equipment necessary for this Subcontractor's scope, shall be provided in accordance with the safety and quality manuals/guidelines outlined in the Contract Documents.

o. SUBCONTRACTOR shall supply operator certifications and equipment inspection for review by the Design Builder prior to starting work.

p. ~~SUBCONTRACTOR shall offload, properly store, and install all equipment supplied by CDM Smith, including equipment listed in the attached scope and Veolia's equipment list.~~

cost of inspection and testing by others

q. **Inspection and Testing**: The SUBCONTRACTOR shall comply with and provide all data as required to meet the following testing and inspection requirements:
   - Follow all applicable QC procedures, tests, and inspections in accordance with applicable law.
   - Perform all required testing, including non-destructive testing (NDT).
   - Provide an inspection test plan (ITP) for the Work to be performed.
   - Submit all final testing, approvals, and certification of equipment and materials for approval by the DESIGN BUILDER.

n/a

r. ~~SUBCONTRACTOR shall commission all installed systems to ensure they operate as intended. This includes all concrete, rebar, misc. metals, and temp. dewatering systems.~~

s. ~~SUBCONTRACTOR shall complete any concrete related demolition as indicated on the drawings and specifications (excludes any electrical work).~~

t. SUBCONTRACTOR shall supply and install necessary temporary materials or other means to safely and effectively test the water tightness of their work (water shall be supplied by plant).

COORDINATION

- The facility's standard operating hours are Monday through Friday, from 7:00 a.m. to 5:00 p.m., based on a single shift. Upon request, these hours may be adjusted to accommodate daylight conditions. There will be phase construction that may impact the work (like plant operations & shutdowns). See MOPO (Maintenance of Plant Operations) chart provided by CDM Smith.
- Coordinate all work with the general contractor and other trades to ensure seamless integration of the concrete work with the overall project schedule.
- The selected Subcontractor shall collaborate with the Design Builder to coordinate and schedule the MOPO with plant operations to ensure adherence to project deadlines and milestones.
- When applicable, CDM will supply the Subcontractor with sufficient sets of reviewed submittal documents for products or equipment provided by others. The Subcontractor must review these documents for compliance with the Technical Documents and to ensure coordination with the overall scope of work. Failure to receive necessary items does not relieve the Subcontractor of their coordination responsibilities.
- The SUBCONTRACTOR shall layout his work from survey control point provided by the Design-Builder.
- **The SUBCONTRACTOR shall notify the Engineer immediately regarding any conflicts arising during construction of any improvements shown on the** Contract Documents**.**

SUBMITTALS

- Submit copies of each ready-mix concrete delivery ticket and rebar delivery ticket to the Contractor.

COMPLIANCE

- If the Subcontractor damages project control and reference points, they must be replaced and verified at no additional cost to CDM Smith.

- Any utilities damaged during the Subcontractor's operations must be repaired or replaced at no cost to CDM or the facility.

- Maintain site compliance with erosion control and permit requirements in coordination with other SUBCONTRACTORs.

TEMPORARY SERVICES

- ~~The SUBCONTRACTOR shall provide all temporary work, equipment, construction, facilities, or any other items required to maintain the existing plant operation during the performance of the Work.~~

- SUBCONTRACTOR shall provide and maintain all temporary stair towers, handrails and other fall protection for the Work as it is installed for access to ALL subcontractors.

- ~~Site Access Control: Furnish and install temporary gates, fencing, and pumping systems to control surface water runoff with all related Contract Documents.~~

- ~~Dewatering: Furnish, install, and maintain dewatering services as needed at the excavation structures.~~ ~~**The SUBCONTRACTOR shall provide all dewatering equipment necessary to keep excavations for their work dry and shall provide all sheeting, shoring, and bracing necessary to protect adjacent structures, utilities, sidewalks, and pavement, or to minimize trench width, all in accordance with the**~~ ~~Contract Documents~~**.** ~~The SUBCONTRACTOR must review and adhere to the guidelines provided in the attached Geotechnical report and site survey and ensure proper coordination with all other related Contract Documents.~~

- Construction Trailers: Offload, set, and level temporary construction trailers. Coordinate this task with all related Contract Documents.

MATERIAL HANDLING

- The SUBCONTRACTOR shall procure all necessary materials, equipment, and services required for the completion of the project as specified in the Contract Documents.

FINAL SITE WORK

- Final cleanup, soil erosion repair, seeding, and sodding to restore finishes as shown on the plans and specifications. This includes the final blading of excess stockpiled soil into the site upon completion of construction. Ensure this work is coordinated with all related Contract Documents.

DEMOBILIZATION

- The SUBCONTRACTOR shall demobilize all equipment, materials, and labor from the project site upon completion of the work.

- **FINAL INSPECTION**

  - Ensure all erosion control measures are functioning correctly and comply with project requirements. The SUBCONTRACTOR shall complete all closeout activities, including final inspections, punch list items, submission of as-built drawings, warranties, and O&M manuals.

- **CLOSEOUT**

  - Submit as-built drawings, warranties, and maintenance manuals as required by the contract documents. Coordinate closeout activities with all related specifications and drawings.
  - Complete all punch list items and obtain final per Contract Documents.

2. Work completed by others (excluded items)

The following items shall be completed by others and shall be excluded from the Subcontract Work.

- Concrete work for electrical duct banks
- Temporary access roads and ramps.
- Temporary electric power.
- Temporary water.
- Temporary toilets.
- Dumpster service (the Subcontractor will be responsible for depositing debris in dumpsters at locations determined by the Contractor).
- Electric service costs.
- Erosion control for others work (this will be the Site Contractor's responsibility).
- Swales

3. CONTRACTOR supplied equipment and material

CONTRACTOR shall furnish the following items. ~~SUBCONTRACTOR shall provide all necessary offloading, receiving, inspection, care, custody and control of any and all items received from CONTRACTOR or OWNER.~~

- **Owner and Design-Builder supplied equipment list attached.**

4. Inspection and Testing

SUBCONTRACTOR shall comply with and provide all data as required to meet the following testing and inspection requirements.

- Follow all applicable QC procedures, tests and inspections in accordance with applicable Law;
- Perform all required testing including non-destructive testing ("NDT"); Provide an inspection test plan ("ITP") for the Work to be performed;
- Provide proctor and sieve analysis to CONTRACTOR for approval prior to supply of all imported

material; and

- Submit all final testing, approvals and certification of equipment and materials for approval by CONTRACTOR, a minimum of two (2) weeks after completion of Project deliverables.

5. Plans and Specifications

The Subcontract Work includes, but is not limited to, the following plans and specifications which apply to the Subcontract Work:

Definition of Parties

The text of each clause of the Specifications listed below shall be deemed to be modified with respect to the identification of parties as provided in paragraphs (a) and (b) below

(a) Unless one of the exceptions provided in paragraph (b) below shall apply, the term "Design builder" or “Engineer” or “Construction Manager” or “Contractor” shall mean "Subcontractor"; the term “Owner” or “Government” shall mean "CDM Constructors Inc.”

(b) The following instances are exceptions to the general rules of construction as provided in paragraph (a):

(i) Where it is clear, by the context of the provision itself or the conditions under which it is being applied, that the reference is intended to refer to the Owner, or Government, or its officers or agents, or CDM Constructors Inc. specifically;

(ii) Where access to proprietary data is required; or

(iii) Where interpretation in accordance with the rules stated above would place CDM Constructors Inc. in a position of violating the equivalent or related provisions of the Prime Contract whereas construction of the terms without modification would not.

Owner & Design-Builder Supplied Equipment/Material List

Veolia Supplied Equipment

Actiflo ® Equipment
- Mixers / Clarifier
- Hydrocyclones
- Sand Pumps
- Control Panel / Instruments

Filter Media
- Granular Activated Carbon
- Filter Sand & Microsand
- Start-Up Chemicals

Ozone Equipment
- Ozone Generator
- Destruct Skid / Chillers
- Power Supply Unit
- Control Panel / Instruments
- LOX Tank / Vaporizers

CDM Smith Supplied Equipment

- All electrical, instrumentation, & controls.
- Transformers
- Underdrain System
- FRP Wash Water Troughs
- Ozone Dissolution System
- Lime Feed Equipment
- Lime Storage Silos
- Bulk Material Conveyors
- Belt Filter Presses
- FRP Tanks
- Vertical Shaft Mixers & Flocculators
- Large Bore Valves

ADDITIONAL DETAILS:

VEOLIA SUPPLIED EQUIPMENT	
ACTIFLO SYSTEM	MX-2410, MX-2415, MX-2420,
Liquid Oxygen & Vaporization System	
Air Injection System	
Ozone Generator No.5	
Ozone Cooling Water System	
Ozone Contactor No.5	Ozone Control Panel 3, GOV-3400, BV-3410-1, BV-3400-2, CV-3400, CV-3405, AE/AIT-3420-1/2
Ozone Destruct Units	
CDM SMITH SUPPLIED EQUIPMENT	
Transformers	
Underdrain System	
FRP Wash Water Troughs	
Ozone Dissolution System	P-3417-1 & P-3417-2; EDU-3400-1, EDU-3400-2; PDM-3400-1, PDM-3400-2)
Lime Feed Equipment	Feeder (VF-7515-3, Conveyor (SC-7520-3), Slaker (7525-3), Mixer (MX-7535-3, MX-7535-4), Tank (T-7530-3, T-7530-4), Pumps (P-7540-5, P-7540-6 P-7540-7, P-7540-8, P-7540-9)
Lime Storage Silos	Lime Storage Silo (SIL-7500-3), BA-7500-3A, BA-7500-3B, BF-7505-3, LCP-7500-3
Bulk Material Conveyors	Belt Conveyor (HBC-5060-1, HBC-5060-2)
Belt Filter Presses	Belt Filter Press (BFP-5050-1, BFP-5050-2, BFP-5050-3, BFP-5050-4, BFP-5050-5, BFP-5050-6, BFP-5050-7). Washwater booster pumps (P-5050-1, P-5050-2,P-5050-3,P-5050-4, P-5050-5, P-5050-6, P-5050-7) BFPCP-5050-1
FRP Tanks	Ferric (T-7300-4, T-7300-5), Hypo (T-7600-3)
Vertical Shaft Mixers & Flocculators	MX-3410-1, MX-3410-2, MX-7020-5, MX-7020-6, MX-7535-3, MX-7535-4
Large Bore Valves	BFV-1445, FCV-1450, BFV-4025-16, BFV-4040-16A, BFV-4040-16B, BFV-4025-17, BFV-4040-17A, BFV-4040-17B, BFV-4025-18, BFV-4040-18A, BFV-4040-18B

PROJECT
SPECIFICATIONS

Section	Description	Date
	60% Design – Specifications	9/2024

PROJECT DRAWINGS

Section	Description	Date
	60% Design – Contract Drawings	9/2024

OTHER DOCUMENTS

Section	Description	Date
	60% Design – Project Schedule	
	60% Design – Owner & Veolia Equipment List	

Exhibit A

Attachment 2 – Subcontract Price

please note breakouts provided are for accounting purposes only

SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents for the lump sum price ("Subcontract Price") as stated below.

ITEM NO.	DESCRIPTION	SUPPLY	INSTALL	DIRECT HOURS	SUBTIER HOURS	LABOR $	MATERIAL $	EQUIPMENT $	SUBTIER $	TOTAL COST
	INDIRECT COSTS									
	Mobilization									0
	Demobilization									0
	Temporary Facilities									0
	Sales & Use Taxes									0
	Bonds & Insurance									0
	SUBTOTAL INDIRECT COSTS			0	0	0	0	0	0	$0.00
	DIRECT COSTS									
	Dewatering	x	x							0
	005 Liquid Oxygen, Evaporators, Chillers & Pipe									0
	03-30-00 Cast-In-Place Concrete	x	x						$100,000	
	05-50-00 Metal Fabrications	x	x							0
	22-00-00 Plumbing	x	x							0
	010 Ozone Generation Building 3									0
	03-30-00 Cast-In-Place Concrete	x	x						$160,000	
	04-00-00 Masonry	x	x							0
	05-21-00 Roof Specialties	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-51-00 Built-Up Bituminous Roofing	x	x							0
	08-00-00 Openings	x	x							0
	21-10-00 Water-Based Fire-Suppression Systems									0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	015 High Rate Flocculation/Sedimentation - Unit 5									0
	03-30-00 Cast-In-Place Concrete	x	x						$2,155,000	
	05-50-00 Metal Fabrications	x	x							0
	07-40-00 Roofing and Siding Panels	x	x							0
	017 Ozone Contactor Tank									0
	03-30-00 Cast-In-Place Concrete	x	x						$2,950,000	
	05-50-00 Metal Fabrications	x	x							0
	020 Filters									0
	03-30-00 Cast-In-Place Concrete	x	x						$2,850,000	
	04-00-00 Masonry	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-40-00 Roofing and Siding Panels	x	x							0
	08-00-00 Openings	x	x							0
	09-20-00 Plaster & Gypsum Board	x	x							0
	045 Drying Beds - Sludge Staging Allowance									0
	03-30-00 Cast-In-Place Concrete	x	x				excluded not shown on drawings			
	051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids									0
	03-30-00 Cast-In-Place Concrete	x	x						$78,000	
	05-50-00 Metal Fabrications	x	x							0
	052 Dry Chemical Feed Building 3 - Lime									0
	03-30-00 Cast-In-Place Concrete	x	x						$130,000	
	04-00-00 Masonry	x	x							0
	05-40-00 Cold-Formed Metal Framing	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	05-50-10 Structural Metal Frame	x	x							0
	07-00-00 Thermal & Moisture Protection	x	x							0

ITEM NO.	DESCRIPTION	SUPPLY	INSTALL	DIRECT HOURS	SUBTIER HOURS	LABOR $	MATERIAL $	EQUIPMENT $	SUBTIER $	TOTAL COST
	07-41-00 Roof Panels	x	x							0
	07-71-00 Roof Specialties	x	x							0
	08-00-00 Openings	x	x							0
	21-10-00 Water-Based Fire-Suppression Systems									0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	053 Ferric Sulfate - South System Chemical Storage 2									0
	03-30-00 Cast-In-Place Concrete	x	x						$85,000	
	05-50-00 Metal Fabrications	x	x							0
	054 Coagulant Aid Polymer Building									0
	03-30-00 Cast-In-Place Concrete	x	x						$105,000	
	04-00-00 Masonry	x	x							0
	05-21-00 Roof Specialties	x	x							0
	05-50-00 Metal Fabrications	x	x							0
	07-51-00 Built-Up Bituminous Roofing	x	x							0
	08-00-00 Openings	x	x							0
	22-00-00 Plumbing	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	057 Ferric Sulfate - North System Chemical storage									0
	05-50-00 Metal Fabrications	x	x				excluded not shown on drawings			
	067 Belt Filter Press Feed Pump									0
	03-30-00 Cast-In-Place Concrete	x	x						$25,000	
	070 Solids Dewatering									0
	03-30-00 Cast-In-Place Concrete	x	x						$60,000	
	05-50-00 Metal Fabrications	x	x							0
	23-00-00 Heating, Ventilating, and HVAC	x	x							0
	TESTING & INSPECTIONS	x	x							0
	MISCELLEANOUS COST (To Be Defined)	x	x							0
	SUBTOAL DIRECT COSTS			0	0	0	0	0	0	0
	GRAND TOTAL			0	0	0	0	0	$8,698,000	

Quantities provided herein are for bid evaluation purposes only. The Subcontractor will be responsible to complete the scope or Work for the Subcontract Price regardless of quantities stated herein

TOTAL SUBCONTRACT PRICE

In Words: eight million six hundred and ninety eight thousand

In Figures: $ 8,698,000

SUBMITTAL LEAD TIME:

In Weeks: 8 weeks

EQUIPMENT FABRICATION AND DELIVERY LEAD TIME (if applicable):

In Weeks: _____

Exhibit A

Attachment 2 - Subcontract Price

Select one of the following:

☐ SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents on a time and material basis in accordance with the fee schedule provided in Attachment __ to this Exhibit A. The fee schedule shall be subject to the review and approval of CONTRACTOR. SUBCONTRACTOR shall not exceed a total cost of $_____. The total cost of the Subcontract Work based on the time and material expended in accordance with the Subcontract Documents shall be the "Subcontract Price."

☐ SUBCONTRACTOR shall perform the Subcontract Work pursuant to the Subcontract Documents on unit price basis in accordance with the unit rate schedule provided in Attachment __ to this Exhibit A. The unit rate schedule shall be subject to the review and approval of CONTRACTOR. SUBCONTRACTOR shall not exceed a total cost of $_____. The total cost of the Work on the unit rate basis shall be the sum of the unit rates multiplied by the respective number of units actually furnished and installed in accordance with the terms of this Agreement. The sum of such unit rates multiplied by the respective number of units furnished and installed in accordance with the terms of the Subcontract Documents shall be the "Subcontract Price."

Exhibit A
Attachment 3 - Schedule for Completion

Schedule for performance of the Subcontract Work.

Time is materially important in the performance of this Subcontract.

The schedule requirements for the Subcontract Work are as follows and/or attached herein:

Select one of the following:

☐ All Work shall be completed within_____calendar days after CDM Constructors, Inc. issues the written notice to proceed

☐ All Work shall be completed by_____or in accordance with the following milestones:

☐ SUBCONTRACTOR shall complete the Work in accordance with the schedule as attached herein.

Contractor reserves the right to revise the schedule for performance of the Work in accordance with the terms of the Subcontract.

Exhibit A

Attachment 4 - Changes in the Work

The cost or credit to the CONTRACTOR resulting from a change in the Work shall be determined in one or more of the following ways:

1. by mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

2. by unit cost or time and material prices as provided for in this exhibit or subsequently agreed by cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

3. as otherwise mutually agreed.

Pending final determination of cost to the CONTRACTOR, payments on account shall be made periodically. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of the net increase, if any, with respect to that change.

If unit prices are provided for or subsequently agreed upon, and if quantities originally contemplated are so changed in a proposed Change Order that application of agreed unit prices to quantities proposed will cause substantial inequity to the CONTRACTOR or SUBCONTRACTOR, applicable unit prices shall be equitably adjusted.

1. LUMP SUM / FIXED PRICE BASIS

1.1. If CONTRACTOR elects to have SUBCONTRACTOR perform changes on a lump sum or fixed price basis, SUBCONTRACTOR shall estimate the changes from approved drawings and specifications, or as directed by CONTRACTOR and submit a fixed price with detailed back-up information.

1.2. If appropriate, SUBCONTRACTOR shall submit fixed price changes to the Work on a drawing by drawing basis with a summary of quantity, material cost and labor cost for each drawing.

1.3. Changes which involve sub-subcontractors shall also be estimated in accordance with 1.2 with SUBCONTRACTOR's mark-up clearly shown. SUBCONTRACTOR shall be responsible for review and verification of all sub-subcontractor quantities, material cost, and labor cost prior to submission to CONTRACTOR for review.

2. TIME AND MATERIALS

2.1. When performing extra work on a time and material ("T&M") basis, SUBCONTRACTOR must submit daily time sheets to CONTRACTOR documenting the exact number of manhours and equipment hours worked. Each timesheet item must be signed by both SUBCONTRACTOR's and CONTRACTOR's responsible field representative.

2.2. If CONTRACTOR elects to have SUBCONTRACTOR perform extra work on a T&M basis, then this work shall be performed in strict accordance with the rates stated below.

2.2.1. **LABOR.** SUBCONTRACTOR shall be reimbursed for labor associated with CONTRACTOR authorized extra work in accordance with the attached Exhibit A, Attachment 4, Schedule 1 - all-inclusive hourly labor rates. SUBCONTRACTOR shall provide labor classifications and all-inclusive hourly rates (excluding SUBCONTRACTOR's mark-up) for all sub-SUBCONTRACTORs as a separate attachment hereto. SUBCONTRACTOR shall provide premium time adder information in a similar manner.

NOTE: Above labor rates are all-inclusive of supervision above general foreman/superintendent, payroll taxes, insurance, benefits, scaffolding materials, consumable supplies, small tools less than $1,500.00 in value, transportation, temporary facilities, overheads (jobsite and home office) and profit.

2.2.2. **MATERIAL.** SUBCONTRACTOR shall furnish permanent materials on a cost plus basis at actual delivered cost, less trade discounts, plus Percent (%) plus applicable taxes. Markup includes any required receiving, unloading, warehousing, and weather protection.

2.2.3. **EQUIPMENT.**

2.2.3.1. Owned Equipment: SUBCONTRACTOR shall provide owned equipment on a fueled and maintained rental basis in accordance with SUBCONTRACTOR's Equipment Rental Schedule included herein as Exhibit A, Attachment 4, Schedule 2. However, cost for any small tools or equipment less than $1,500 in value shall be included in the all-inclusive hourly labor rates established in paragraph 2.2.1.

2.2.3.2. Third Party Equipment: Rental of third party equipment will be reimbursed at actual invoice cost plus applicable taxes plus Percent (%) of such cost for all overheads (jobsite and home office), insurances and profit. Fuel and normal maintenance will be reimbursed at actual cost. Damage to third party equipment will be to SUBCONTRACTOR account.

2.3. SUB-SUBCONTRACTS. Actual sub-subcontract cost, less trade discounts, plus Percent (%) of such cost for all overheads (jobsite and home office) and profit.

3. UNIT COST

3.1. If CONTRACTOR elects to have SUBCONTRACTOR perform extra work on a unit price basis, then this work shall be performed in strict accordance with the unit prices attached herein. CONTRACTOR reserves the right to select the unit price option for Extra-Work.

3.2. The unit prices attached as Exhibit A, Attachment 4, Schedule 3, includes all of SUBCONTRACTOR's direct and indirect costs, overhead (jobsite and home office) and profit in accordance with Section 10.4 of the Subcontract. All unit prices are firm for the duration of this Agreement and are not subject to escalation of any sort. All unit prices include all labor, materials, supervision equipment, fuel and all else required to furnish work completely and properly installed (in accordance with the applicable specifications and Appendices referenced in this Agreement). All installed unit prices would be applicable for both "Adds" and "Deletes" to the Work. Should any of the work items described in the unit price schedule be performed by a Sub-subcontractor to SUBCONTRACTOR, the unit price shown shall include SUBCONTRACTOR's mark-up.

BUYER – THIS DOCUMENTS NEEDS TO BE MODIFIED BY THE PROJECT TEAM

Exhibit A

Attachment 5 – General Project Requirements

The following additional requirements are incorporated herein and made part of this Subcontract.

1. SUBMITTALS (with Subcontract) 17
2. SUBMITTALS (for review or approval) 17
3. MANUFACTURER'S ON-SITE SERVICES 18
4. SPARE PARTS 18
5. HEALTH AND SAFETY 18
6. QUALITY ASSURANCE AND QUALITY CONTROL 19
7. SCHEDULE AND PROGRESS REPORTING 20
8. PERMITS 21
9. SUBCONTRACTOR INTERFACE WITH CONTRACTOR 21
10. MOBILIZATION ACTIVITIES AND SITE REQUIREMENTS 21
11. MATERIAL MANAGEMENT 22
12. HAZARDOUS WASTE 23
13. AS-BUILT DRAWINGS 23
14. REWORK 23
15. TEMPORARY FACILITIES 24
16. TEXTURA PAYMENT MANAGEMENT 26
17. MISCELLANEOUS 27
18. DIVISION 1 DOCUMENTS 27
19. ATTACHMENTS 27

1. SUBMITTALS (with Subcontract)

Within ten (10) days of notice of award, Subcontractor shall submit the following:

Signed Subcontract
Certificate of insurance
Performance and Payment Bonds
Subcontractor's Construction Schedule
List of required shop drawings and submittals and associated submission and required review schedule, as applicable
Required Documentation including the SF1413, LCP Tracker information, E-Verify documentation and other documents found as attachments to the Exhibit H – Invoicing Instructions.
State Revolving Fund (SRF) forms per Exhibit M

2. SUBMITTALS (for review or approval)

Submittals, Shop Drawings, and Engineering Data shall be in accordance with all applicable specification sections and shall incorporate the following requirements:

2.1 Virtual Design and Constructions (VDC)

2.1.1 Attached is a copy of CCI's standard VDC model submittal requirements. Please confirm you will be able to submit a model of your equipment in accordance with specification number 013126

2.2 Shop drawings and all required submittals will be reviewed no more than twice at CDM Constructors Inc. expense; all third and subsequent reviews will be performed at the Subcontractor 's expense if resubmittals are required due to Subcontractor negligence in providing complete and/or correct submittals. Any new comments inserted (not originally incorporated in first or second review) will be addressed and performed by the Subcontractor at CDM Constructor Inc.'s expense, if additional submittals are required to address new comments. Shop drawing review of any third or additional submittals pursuant to new comments incorporated will be performed at CDM Constructor Inc.'s expense.

2.3 Schedule delays associated with Subcontractor's negligence in providing or obtaining complete and/or correct submittals will not be accepted. Nor will schedule impacts be accepted associated with delayed or late equipment order placement or lack of expediting.

2.4 SUBCONTRACTOR shall submit all shop drawings, fabrication drawings, samples and other data directly to CONTRACTOR as required by the Subcontract Documents. SUBCONTRACTOR shall submit all such documents in a timely and sequential manner consistent with the Subcontract Documents and good construction practice and in a manner that allows time for review, action and dissemination of submittal information prior to the performance of Subcontract Work affected thereby, including the purchase and/or installation of material or equipment. No portion of the Subcontract Work requiring submission of a submittal shall be commenced until the appropriate submittal has been approved by OWNER and/or others as required by the Subcontract Documents. All such portions of the work shall be in accordance with approved Submittals.

2.5 Subcontractor shall prepare, review, approve and submit to Contractor within ten (10) days after the date of this Subcontract, or earlier if directed by Contractor, all required Submittals in sufficient form, number and in such sequence as to cause no delay, disruption or interference in Subcontractor's work or in the work of Contractor, any other contractor, any subcontractors and/or Owner's own forces.

2.6 By approving and submitting such Submittals, Subcontractor represents that it has coordinated all such Submittals, reviewed them for accuracy and completeness as well as compliance with the Subcontract Documents, and determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that it has checked and coordinated the information contained within such Submittals with the requirements of Subcontract Work and of the Subcontract Documents. Submittals submitted to Contractor without evidence of such Subcontractor's approval may be returned for resubmission.

2.7 If any submittal contains any variation from the requirements of the Subcontract Documents,

SUBCONTRACTOR shall call such variation to CONTRACTOR's attention through clouding, notes and highlighting and specifically describe such variations in writing separate from the Submittal and shall also fulfill the requirements of the Prime Contract related to such variation.

2.8 SUBCONTRACTOR shall not be relieved of responsibility for any deviation from the requirements of the Subcontract Documents by CONTRACTOR's forwarding any submittals to the OWNER for approval thereof. In addition, no transmittal or approval of any of the foregoing by CONTRACTOR or OWNER shall under any circumstances: alter the requirements of this Subcontract, relieve SUBCONTRACTOR from responsibility for any errors or omissions in such submittals, or relieve SUBCONTRACTOR from responsibility for complying with the requirements of the Subcontract Documents, except with respect to variations expressly described and approved pursuant to the requirements of the Subcontract Documents.

2.9 If SUBCONTRACTOR determines in its performance of the Subcontract Work that additional or different work may be necessary, SUBCONTRACTOR will notify CONTRACTOR before performing such tasks and submit a request for a Change Order.

3. MANUFACTURER'S ON-SITE SERVICES

Manufacturer's Onsite Services for Installation, Testing, Start-Up, Commissioning, and Owner Training shall incorporate the following requirements in addition to all other requirements specified by the project documents:

3.1 Manufacturer's representative shall be qualified and approved to perform the work, training and testing as required by Specifications.

3.2 Manufacturer's onsite services for installation instruction, pre-start-up inspection, testing, start-up, commissioning, Owner instruction, and services during the warranty period for all components of the Complete Systems shall be as defined herein and per all Contract Documents referenced herein.

3.3 Coordination for manufacturers' services of/with all individually-supplied system components is required under this scope of supply.

3.4 Manufacturer's onsite services as defined herein are based on requirements as specified in the plans and specifications; however, any onsite manufacturer's services in addition to this amount which may be required as a result of negligence of the Subcontractor shall be provided as needed and at no additional expense to CDM Constructors Inc.

3.5 Subcontractor shall coordinate with CDM Constructors Inc. and manufacturer to mutually develop a start-up and commissioning plan which meets all requirements and is coordinated with the overall project schedule.

3.6 Manufacturer's onsite services must be coordinated with CDM Constructors Inc. and overall project schedule, and must be provided continuously and in accordance with a start-up and commissioning plan mutually developed and agreeable between CDM Constructors Inc. and Subcontractor.

3.7 Required days of manufacturer representative field testing service may not be consecutive. Where a number of days are specified for manufacturer's services, the number of days shall be considered a minimum; manufacturer shall assume a sufficient allocation of service days to meet all system start-up needs as required.

3.8 Operation and maintenance manuals are required submittals. A factory representative shall be provided to instruct representatives of the Owner and Engineer on proper operation and maintenance as required.

3.9 Representatives must also be available as needed to support additional performance testing and to address any issues that may arise throughout the testing and startup.

4. SPARE PARTS

Spare Parts shall be provided as specified by the scope of work and/or specifications.

5. HEALTH AND SAFETY

Subcontractor shall comply with all federal, state and local health and safety requirements, including the

CDM Constructors Inc. Site Specific Health and Safety Plan and/or Health and Safety Protocol.

5.1 CDM Constructors Inc.'s Health and Safety Plan shall be reviewed and adhered to for the minimum acceptable standard of care. All workers to be assigned to the project site shall complete the required onsite safety briefing prior to beginning work.

5.2 Subcontractor shall submit its firm's health and safety program for review and approval by CDM Constructors, Inc. It shall be specific to the needs of this project, acceptable to both CDM Constructors Inc. and the Owner, and complied with throughout the duration of the work.

5.3 Subcontractor is responsible for facilitating weekly (minimum) safety tailgate meetings with its project personnel. Documentation of such weekly meetings and any other documentation related to project safety must be submitted to CDM Constructors Inc.'s site supervisor on a weekly basis.

5.4 Safety glasses must be worn at all times on site. High visibility vests must be worn at all times while working outside. All workers must be tied off when working over 6 (six) feet off the ground unless in an approved scaffolding system. All other work shall be performed per CDM Constructors Inc. and OSHA standards.

5.5 CDM Constructors Inc. will hold a three strike policy throughout the project on minor safety violations. The third time an employee is witnessed in violation they will be asked to leave the project. CDM Constructors Inc. will hold a one strike policy throughout the project on major safety violations. If an employee is observed in a major safety violation or anything else that could result in a major accident or incident, they will be asked to leave the project immediately.

5.6 Subcontractor shall coordinate lock out and tag out procedures with CDM Constructors Inc.

6. QUALITY ASSURANCE AND QUALITY CONTROL

Subcontractor shall comply with CDM Constructors Inc. QAQC Plan and any Owner-required QAQC Plans. Proposer shall be required to submit for review and approval, a Subcontactor Quality Control Plan. It shall include but is not limited to: letter of authorization for Quality Control Manager; submittal register; inspection and testing plan; material receiving, storage, and control; Over, Short and Damaged (OS&D) protocols, quality hold points for project schedule updates; project sequencing for the work in all areas; meetings and record keeping. The QC plan for use shall be maintained and followed at all times.

6.1. CDM Constructors requires that each Subcontractor carry out a well-planned and organized Quality Control program for the execution of their work. A good Quality Control Plan should mitigate the need for re-work, reduce any schedule delays associated with corrective work, and result in proper documentation for record of the work.

6.2. Quality Assurance/Quality Control Manual

6.2.1. Each Subcontractor shall prepare a quality assurance/quality control manual which shall describe the subcontractor's program and procedures for complying with the requirements of project documents, governing regulatory codes, and any provisions of the appropriate sections of the CDM Constructors Quality Control Manual required for inspections and testing requirements.

6.2.2. Each Subcontractor shall have a dedicated quality control manager with stop work authority who will be responsible for quality on the project.

6.2.3. A Subcontractor may: (1) use forms, reports, check sheets and checklists or (2) submit altered forms, reports, etc., which provide the same information or (3) submit quality control procedures for approval during the preparatory meetings which may call for different or more or less forms, reports, etc., subject to the approval of the CDM Constructor's Quality Assurance Manager.

6.2.4. Subcontractor's quality control manual shall be submitted to CDM Constructors prior to mobilization. Construction shall not begin until the manual has been reviewed for comments by the site Quality Assurance Manager and a Mutual Understanding meeting has been held to discuss all quality features on the project.

6.3. Responsibilities

6.3.1. The Project Superintendent is responsible for assuring that each Subcontractor complies with all project and regulatory code quality requirements. Also, the Quality Assurance Manager will assist the Project Superintendent to ensure subcontractor compliance.

6.3.2. CDM Constructors Quality Assurance Manager may:

- Review all construction activities to assure that proper quality control work processes
- Review records of calibration and performance of testing equipment
- Inspect and participate in tests of work processes, equipment, and/or systems as may be determined necessary during the course of the project
- Perform specific inspections as described in this manual
- Continually monitor and audit the performance of the subcontractor to ensure quality construction within prescribed limits

6.3.3. The Subcontractor Quality Control Manager shall be informed of all disputes concerning quality control matters. He/she shall notify CDM Constructor's Quality Assurance Manager if quality control disputes and questions are not resolved to his/her satisfaction in the field by normal interface or procedure such as those prescribed for deficiencies / rework, non-conformance reports, and any preventive and/or corrective actions.

6.4. Inspection reports and records required by Subcontractor's Inspection and Testing Plans (ITP's) to demonstrate conformance with the plans and specifications shall be prepared by the Subcontractor's Quality Control Manager and submitted to the CDM Constructor's Quality Assurance Manager unless otherwise specified.

6.5. CDM Constructors shall perform inspections prescribed by applicable contract plans and specifications under the supervision of the CDM Constructors Supervisors and/or Quality Control personnel.

6.6. CDM Constructors reserves the right to audit the Subcontractor's conformance with their Manual for the quality control/quality assurance program. The audit will be graded based on a point system.

6.7. See Job QC Audit Report referenced in Attachment 1 and 2 of this Exhibit.

7. SCHEDULE AND PROGRESS REPORTING

Subcontractor shall be required to comply with the following schedule requirements:

7.1. CDM Constructors Inc. requires that each subcontractor carry out a well-planned and organized schedule and project controls program for the execution of their work.

7.2. CPM Schedule

7.2.1. Schedule must be cost and resource/manpower loaded so as to accurately plan the work.

7.2.2. Review or acceptance by CDM Constructors Inc. and/or the Owner of any schedule provided by the subcontractor shall not relieve Subcontractor from responsibility for complying with the contract documents, adhering to those sequences of work indicated in or required by the Contract Documents, or from completing any work omitted from the submitted schedule, within the contract times.

7.2.3. Subcontractor shall provide weekly updated 3-week look-ahead schedules for field coordination of the Work.

7.3. Shop drawings which are not approved within the first two review cycles shall be rescheduled on the CPM schedule and recovery of lost time shall be responsibility of Subcontractor in both time and cost. All shop drawings and submittals required for Scope of Work shall be submitted in accordance with the construction schedule and milestones. It is the responsibility of the Subcontractor to submit the required shop drawings and other submittals at times appropriate for achieving the work in accordance with the project schedule.

7.4. Where work may not be continuous, sufficient resources (qualified labor, equipment, tools, and materials) shall be prepared and available for immediate utilization at all times throughout the proposed duration of the work.

8. PERMITS

Subcontractor shall obtain and adhere to all local, state, and federal permits determined as required for the complete scope of work per the requirements and Subcontractor ’s proposed means and methods other than those being secured by others. Subcontractor shall familiarize itself with and adhere to requirements and conditions of all final permits obtained for the works by others.

9. SUBCONTRACTOR INTERFACE WITH CONTRACTOR

Subcontractor shall regularly interface with Engineer and CDM Constructors Inc.'s site supervisor to plan work and access areas under construction in advance of work and attend weekly coordination meetings.

10. MOBILIZATION ACTIVITIES AND SITE REQUIREMENTS

10.1. Subcontractor shall familiarize with the work areas, incorporate the protection of all existing water mains, guard rails, utilities, facilities, buildings, structures, vegetation, poles, signs, services to buildings, utilities in the street, gas pipes, water pipes, hydrants, sewers, drains, electric and telephone cables, and equipment during the execution of the work, whether or not they are shown on the drawings, and immediately repair any damage resulting from the work.

10.2. Subcontractor shall make all provisions for the maintenance of existing roadways for the duration of the works and the replacement of and/or repair to existing access roads as needed for restoration to their original condition at the completion of the works.

10.3. Subcontractor shall make all provisions for the maintenance and protection of traffic in all work areas associated with the scope of work in accordance with the Project Documents and shall include, work area coordination, cones, barricades, drums, and markers, vehicle restrictions, signage, ingress and egress maintenance, pavement markings, flaggers, and pedestrian traffic maintenance as needed.

10.4. Contractor will designate the boundary limits of access roads, parking areas, storage areas, and construction areas. Subcontractor shall not trespass in or on areas not so designated. Subcontractor shall be responsible for keeping all of its personnel out of areas not designated for Subcontractor’s use. In the case of isolated work located within such areas, Contractor will issue permission to specific Subcontractor personnel to enter and perform the Work.

10.5. Subcontractor, for the duration of the Contract, shall maintain all excavations, embankments, haul roads, plant sites, waste disposal areas, borrow areas, and all other work areas free from dust, as determined by Contractor. Industry-accepted methods of dust control suitable for the area involved, such as sprinkling or similar methods, are to be approved by Contractor. No separate payment will be made for dust control.

10.6. At its own expense, repair public road for any damages caused by Contractor transportation of materials to and from Site. Contractor shall be responsible to adhere to county road haul permits and applicable road bans.

10.7. No more than one office trailer shall be mobilized to the site complex unless prior approval is obtained by CDM Constructors Inc.

10.8. Subcontractor shall be responsible to remove and properly dispose of all trash and work-related debris daily for the duration of the work. Dispose of all residues resulting from the work including surplus excavation, broken pavement, lumber, equipment, temporary structures, and any other refuse at the completion of the work and leave the work site in a neat and orderly condition. If Subcontractor fails to comply with the provisions of this section, Contractor is entitled to carry out such Work at Subcontractor’s risk and expense.

10.9. Subcontractor shall perform all survey and control layout work necessary to perform the scope of work (base line control and bench will be provided by CDM Constructors Inc.). Request any survey control for alignment by CDM Constructors Inc. in a timely manner, and confirming all layout work with CDM Constructors Inc.'s site supervisor.

10.10. Subcontractor shall clean soil from vehicles leaving the site to preclude transport of soil onto local roads.

10.11. Subcontractor shall provide temporary ventilation or heat (if required by specifications) for work as necessary.
10.12. Subcontractor shall coordinate work with other SUBCONTRACTOR's working in the area.
10.13. Subcontractor shall provide additional temporary interior/exterior lighting for the work as necessary.
10.14. Subcontractor shall provide all temporary work, equipment construction, facilities or any other items that may be required to maintain, upkeep and construct their Work.
10.15. Subcontractor shall, at its expense, provide suitable facilities to prevent the introduction of any substances or materials into any stream, lake or other body of water, which may pollute the water or constitute substances or materials deleterious to fish and wildlife.
10.16. Subcontractor shall so perform its Work as not to discharge into the atmosphere from any source whatever smoke, dust, or other air contaminants in violation of the laws, rules and regulations of the governmental entities having jurisdiction.
10.17. Subcontractor shall provide proper and adequate drainage for its construction, storage, parking and fabrication areas including the necessary piping for disposal to Site ditches, or sewers. Temporary drainage facilities shall be removed upon completion of Work unless Contractor directs to have the facilities left in place. Subcontractor shall be responsible for providing and operating any temporary pumps for keeping its area drained. Subcontractor shall furnish and place any necessary surfacing material to avoid loss of time due to muddy conditions.
10.18. Contractor will designate entrances and parking for the Subcontractor's use. Access to the work areas will be restricted to authorized Subcontractor personnel only.
10.19. Site work hours will be designated by Contractor.
10.20. Subcontractor is responsible for security of laydown area
10.21. Subcontractor shall maintain its facilities in a safe and sanitary condition at all times.

11. MATERIAL MANAGEMENT

11.1. Subcontractor is responsible for all material and equipment delivered to the project site associated with the Scope of Work defined in the Subcontract. The Subcontractor will be responsible for, but not limited to; receiving, conducting receipt inspection, offloading and loading, storage and distribution of various materials and equipment, maintenance of all materials as required until ready for installation in accordance with Specifications and manufacturer recommendations. Subcontractor shall take care, custody and control of Subcontractor and Contractor supplied materials and equipment from the time Subcontractor takes possession by off-loading the same from third party transport. Subcontractor remains totally responsible for the materials to be supplied by Subcontractor to complete the Work.
11.2. The delivery and acceptance of all such materials and equipment shall be recorded in writing. Subcontractor shall furnish material receiving reports (MRR); and, in the case of overages, shortages, or shipment damage, prepare over, shortage, and damage reports (OS&D) for Contractor supplied materials. MRR's will be issued within twenty-four (24) hours of receipt of materials. OS&D's will accompany MRR's where applicable. Damaged materials will be reported upon receipt inspection for review by Contractor's onsite Construction Manager.
11.3. Subcontractor shall offload, unpack, and dispose of packing material of equipment furnished by others and installed under this scope of work.
11.4. All materials shall be properly supported off of the ground and out of mud and water. Dunnage or other means of support shall be provided by Subcontractor at its expense
11.5. Laydown areas shall be laid out on a grid and materials will be cataloged to the storage area grid to effect ease of retrieval.
11.6. Subcontractor shall be solely responsible for maintaining all items in accordance with the manufacturer instructions until turnover of the Work to Contractor at the time of Acceptance.
11.7. Subcontractor shall be responsible for the repair or replacement of any item damaged by Subcontractor without any cost or schedule impact to Contractor until turnover of the Work to Contractor at the time of Acceptance.

11.8. No project materials or equipment shall be taken off the Project Site unless Subcontractor has written approval issued by Contractor to do so.
11.9. Subcontractor shall provide a material management plan for review and approval by Contractor.
11.10. Use of areas for staging and storage of materials and equipment are to be requested and approved by CDM Constructors, Inc. in advance.
11.11. Subcontractor shall obtain and pay for use of storage or work areas if needed to perform the work.

12. HAZARDOUS WASTE

12.1. All solid and liquid wastes, and hazardous substances and materials introduced or generated by Subcontractor (including but not limited to paints, solvents, cleaners, fuels, lubricants, waste oils, construction/demolition wastes, etc.) during the performance of the Work shall be managed and disposed of by Subcontractor in full compliance with all applicable laws, statutes, regulations, ordinances, and rules. Subcontractor shall immediately report all spills, leaks and reportable releases to Contractor in writing. Any such spill, leak or release shall be handled and disposed of properly. In the event of any question in this regard, Subcontractor shall confer with Contractor's Construction Manager. Subcontractor shall maintain on site, MSDS documentation of all hazardous substances and materials introduced or generated by Subcontractor and communicate said documentation with Subcontractor's supervision, craft workers, and employees prior to handling said substances or materials
12.2. Under no circumstances shall hazardous wastes be commingled with non-hazardous wastes
12.3. If Subcontractor encounters hazardous or unknown materials during its performance of the Work, Subcontractor shall immediately cease work and report the discovery of such materials to Contractor's Construction Manager for resolution
12.4. Subcontractor shall not accumulate, store, transport, treat, recycle, reuse or dispose of any hazardous waste, radiological waste or industrial waste of any kind belonging to Contractor/Owner unless Contractor/Owner and Subcontractor agree to the terms of a separate written waste management agreement for such purposes, which has been executed by authorized representatives of all parties.

13. AS-BUILT DRAWINGS

13.1. Where necessary, "Approved for Construction" drawings shall be marked up (redlined) to reflect "as built" conditions where changes in vertical and horizontal location dimensions, types, substitutions, and so forth have been made by Subcontractor. As built drawings will be used to confirm quantities installed that are either not defined by AFC drawings or are the subject of approved changes to AFC drawings made in the field. The as built "Record Set" of AFC drawings and specifications shall be updated monthly and may be reviewed by Contractor prior to payment of monthly progress invoice. Payment of monthly progress payment is contingent upon "As Built" drawings being submitted for review by Contractor confirming the record set is current
13.2. Within fourteen (14) days after completion of Work, one (1) set of "as-built" reproducible drawings shall be marked and signed by the authorized Subcontractor's Representative as testimony of validity and presented to Contractor's Resident Construction Manager, or its designated representative
13.3. Subcontractor shall maintain record drawings of work and any work directives issued by CDM Constructors Inc. Within fourteen (14) days after completion of Work, "as-built" drawings shall be provided to Contractor in CAD-format, or as otherwise specified by the requirements herein, and shall be marked by the authorized Subcontractor's Representative as testimony of validity.

14. REWORK

14.1. Subcontractor shall schedule the Work in such a manner that when materials, such as, structural steel and pipe spools are being installed and are found not to fit, the crafts involved in the installation shall have other work on hand on which they can continue to work. Subcontractor shall be responsible for determining the cause of the misfit and obtaining Contractor's approval prior to performing any rework.

14.2. Subcontractor shall maintain, and have available for Contractor's review, a marked set of drawings indicating what modifications were approved and what additional Work was involved in making the modifications

14.3. Subcontractor's rework required due to failure to meet Specification, Drawings, etc. shall be to Subcontractor's account.

15. TEMPORARY FACILITIES

15.1. Subcontractor shall be responsible for the mobilization, installation, and maintenance of its temporary facilities as detailed by the following table. Subcontractor shall demobilize its temporary facilities upon completion of its Work and restore the site to its "as received" condition. Installation of temporary facilities will be coordinated with and approved by Contractor.

		By Contractor		By SC	
Item	**Description**	**No Cost To SC**	**At Cost To SC**	**At SC'S Cost**	**Comments**
1	*Temporary Buildings*				
a	Office Trailers			X	
b	Change Houses			X	If necessary
c	Toilet Trailers			X	If necessary
d	Brass Alley				N/A
e	Fabrication Shops				N/A
f	Other (list)				
2	*Lifting Equipment*				
A	Cranes at Jobsite			X	
B	Cranes at Offsite Areas			X	
C	Hydraulic cranes at Jobsite			X	
D	Hydraulic cranes Offsite Areas			X	
e	Material Hoists/forklifts			X	
f	Elevators			X	
g	Special Rigging			X	
f	Overhead Cranes			X	
3	**Rail Siding**				
a	At Jobsite				N/A
b	At Offsite Areas				N/A
4	**Erection Equipment**				
a	Scaffolding and Ladders			X	
b	Welding Machines			X	
c	Air Compressors			X	
d	Weld Gases			X	
e	Other (incl. Tools and Consumables)			X	
5	**Temporary Power**				

Item	Description	By Contractor		By SC	Comments
		No Cost To SC	At Cost To SC	At SC'S Cost	
a	Utility Power				
b	Sources (Work area-150' rad)				
c	110/220v/100a to SC Office (Temp facilities)			X	Contractor shall supply a single source connection for distribution by Subcontractor
d	110/220v/100a in SC Work Areas (for small tools only)	X			Supplied at single source for distribution by Subcontractor
e	480v/200a in SC Work Areas			X	
f	Other				
6	**Water (at single point)**				
a	Construction Water			X	As defined in the Division 1 Specifications.
b	Drinking Water			X	As defined in the Division 1 Specifications.
c	Water Source			X	As defined in the Division 1 Specifications.
d	Cooling, Dispensers, Cups			X	
e	For hydrotest				N/A
f	Demineralized for hydrotest				N/A
7	**Lighting**				
a	General Area Lighting			X	
b	SC Work Areas (specific)			X	
c	Other			X	
8	**First Aid Services**				
a	Ambulance			X	
b	First Aid Service			X	
9	**Sanitary Facilities**				
a	Chemical Toilets (serviced)			X	
b	At specific area for SC			X	
c	Toilet Trailers			X	If necessary
10	**Waste Disposal**				
a	Furnish Dumpsters & Trash Removal			X	
b	General Clean up			X	
c	Clean-up of SC Waste			X	
d	Disposal of SC Hazardous Waste			X	Must be coordinated with Owner
e	Removal of Existing	X(1)			

Item	Description	By Contractor		By SC	Comments
		No Cost To SC	At Cost To SC	At SC'S Cost	
	Hazards. Waste				
11	**Parking**				
a	Office Parking Lot	X			As defined in the Division 1 Specifications.
b	Craft Parking Lot	X			As defined in the Division 1 Specifications.
c	Bussing from Off site Parking				N/A
12	**Roads and Access**				
a	General access	X			
b	Special Haul Roads				N/A
c	Temporary convenience access				N/A
13	**Storage Facilities**				
a	Laydown Areas	X			SC to be aware of site conditions.
b	Staging Areas	X			Must be coordinated with others
c	Warehouse w/concrete floor and one roll up door. No offices.			X	As necessary
d	Tool Cribs			X	
e	Other (list)				
14	**Temporary Heating**			X	
15	**Food Service**				NA
16	**Security**			X	Security of SC facilities, equipment and material
17	**Other**				
a	Fire retardant clothing				N/A
b	Safety Shoes			X	
C	Office supplies & equip.			X	

Notes:

(1) Owner will be responsible for removal of existing hazardous waste. Subcontractor will immediately report discovery of any hazardous waste during the execution of the Work.

16. TEXTURA PAYMENT MANAGEMENT

Unless otherwise directed or authorized, in writing, by Supplier, all Applications for Payment and all supporting documents (including but not limited to lien waivers, sworn statements, and the like) for Supplier and its sub-subcontractors and suppliers, shall be in electronic format and shall be submitted to CDM Constructors Inc. using the Textura™ CPM payment management system.

16.1. Supplier shall be responsible for the fees and costs owed associated with Supplier's use of the Textura™ CPM payment management system. Subcontractor shall include a similar provision in its sub-subcontracts and purchase orders. Fees to Subcontractors are calculated as 0.18% (18 basis points) of contract value, with a minimum fee of $50 and a maximum fee of $2,500. Fees to Suppliers' sub-subcontractors and suppliers are a fixed fee of $100 per sub-subcontractor or supplier contract.

17. MISCELLANEOUS

17.1. Subcontractor will provide a warranty meeting all requirements herein. A single point of contact shall be provided for warranty issues, with onsite response within 24 hours for all warranty calls that are not critical for operation. Onsite response shall be within 4 hours for all warranty calls that are critical for operation, as determined by CDM Constructors Inc.

18. DIVISION 1 DOCUMENTS

The following modifications are herein incorporated to the Division 1 documents:

18.1. Section #01200, Project Meetings:

18.1.1. Section 1.03 – Delete "10 working days". This specification shall be modified as necessary by the CONTRACTOR. SUBCONTRACTOR will be informed of the applicable modifications.

18.2. Section #01300, Submittals:

18.2.1. Clarification – all submittals shall be sent to the CONTRACTOR at the designated address. Any Engineering review or approval will be obtained by the CONTRACTOR and returned to SUBCONTRACTOR.

18.3. Section #01310, Construction Scheduling:

18.3.1. In case of conflict, the Exhibit A - Scope of Work, Compensation and Schedule, as well as the Exhibit D and Exhibit C shall take precedence over this document.

18.4. Section #01480, Tightness Testing of Liquid Retaining Structure:

18.4.1. Clarification – any requirements SUBCONTRACTOR may have for the use of Owner's effluent water shall be coordinated through the CONTRACTOR.

18.5. Section #01500, Temporary Facilities:

18.5.1. Section 3.03 A. Delete "Power utilized at the Contractor Staging Area shall be paid for by the DN/CMAR." And replace with "Power utilized at the Contractor Staging Area shall be paid for by Contractor." To clarify, the SUBCONTRACTOR shall pay for all required temporary utilities necessary for their trailer, etc. at the staging area. DN/CMAR or CONTRACTOR shall provide a temporary meter setup.

18.6. Section #01560, Site Safety and Security:

18.7. In case of conflict, the site specific safety plan included herein shall take precedence over this document.

19. ATTACHMENTS

The items and associated requirements listed below are hereby included:

Attachment 1: Subcontractor QC Plan Planning and Approval

Attachment 2: QC Audit Forms

LIBERTY MUTUAL INSURANCE COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
ZURICH AMERICAN INSURANCE COMPANY

April 30, 2024

Re: Baker Concrete Construction, Inc.

To Whom It May Concern:

Liberty Mutual Insurance Company, rated "A", FSC "XV", by A.M. Best, Fidelity and Deposit Company of Maryland, rated "A+", FSC "XV" by A.M. Best and Zurich American Insurance Company, rated "A+", FSC "XV", by A.M. Best, all licensed to do business in all fifty States, and all listed on the U.S. Treasury Department's Listing of Approved Sureties (Department Circular 570), acting as Sureties for Baker Concrete Construction, Inc., a Baker Construction Enterprises (BCE) portfolio company have been providing bid and final bonds for both public and private work.

As a matter of reference, the Sureties have provided their support on single projects in excess of $400,000,000 for the BCE portfolio of companies. Under the proper circumstances, they will consider an aggregate capacity of $2,000,000,000. Baker Concrete Construction, Inc. has an outstanding reputation for successful completion of projects.

We consider Baker Concrete Construction, Inc. highly qualified to provide construction services. Please note that the decision to issue performance and payment bonds is a matter between Baker Concrete Construction, Inc. and the Sureties, and will be subject to our standard underwriting at the time of the final bond request, which will include but not be limited to the acceptability of the contract documents, bond forms and financing. We assume no liability to third parties or to you if for any reason we do not execute said Bonds.

LIBERTY MUTUAL INSURANCE COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
ZURICH AMERICAN INSURANCE COMPANY

By: _____
Colette R. Chisholm, Attorney-In-Fact

Agent: Alliant Insurance Services, Inc.
333 Earle Ovington Blvd., Suite 700
Uniondale, NY 11553
516-414-8285

ACKNOWLEDGMENT OF SURETY COMPANY

STATE OF New York } SS

COUNTY OF New York }

On this April 30, 2024, before me personally came Colette R. Chisholm to me known, who, being by me duly sworn, did depose and say; that he/she resides in New York County, State of New York that he/she is the Attorney-In-Fact of the Liberty Mutual Insurance Company and Fidelity and Deposit Company of Maryland and Zurich American Insurance Company

the corporations described in which executed the above instrument; that he/she knows the seal of said corporations; that the seal affixed to said instrument is such corporate seal; that is was so affixed by the Board of Directors of said corporations; and that he/she signed his/her name thereto by like order; and the affiant did further depose and say that the Superintendent of Insurance of the State of New York, has pursuant to Section 1111 of the Insurance Law of the State of New York, issued to Liberty Mutual Insurance Company and Fidelity and Deposit Company of Maryland and Zurich American Insurance Company

(Sureties) his/her certificate of qualification evidencing the qualification of said Companies and its sufficiency under any law of the State of New York as surety and guarantor, and the propriety of accepting and approving is as such; and that such certificate has not been revoked.

Karolynne Ramirez
Notary Public

NY acknowledgement

KAROLYNNE RAMIREZ
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01RA6426462
Qualified In New York County
Commission Expires December 13, 2025

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: **8211577 - 969603**

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, Camille Maitland, Colette R. Chisholm, Dana Granice, Desiree Cardlin, George O. Brewster, Gerard S. Macholz, Karolynne Ramirez, Katherine Acosta, Lee Ferrucci, Louis J. Spina, Michelle Wannamaker, Nelly Renchiwich, Peter F. Jones, Robert T. Pearson, Susan Lupski, Thomas Bean, Vincent A. Walsh

all of the city of Uniondale state of NY 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 3rd day of April, 2024.

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 3rd day of April, 2024 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 Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 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 30th day of April, 2024.

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.

LIBERTY MUTUAL INSURANCE COMPANY

FINANCIAL STATEMENT – DECEMBER 31, 2023

Assets		Liabilities	
Cash and Bank Deposits	$1,850,245,073.00	Unearned Premiums	$10,298,963,305.00
*Bonds – U.S Government	$3,859,565,383.00	Reserve for Claims and Claims Expense	$28,848,537,243.00
*Other Bonds	$21,048,805,773.00	Funds Held Under Reinsurance Treaties	$360,714,151.00
*Stocks	$19,937,271,802.00	Reserve for Dividends to Policyholders	$1,310,198.00
Real Estate	$122,228,711.00	Additional Statutory Reserve	$296,126,000.00
Agents' Balances or Uncollected Premiums	$8,208,660,427.00	Reserve for Commissions, Taxes and Other Liabilities	$7,622,413,466.63
Accrued Interest and Rents	$186,906,667.00	**Total**	**$47,428,064,363.63**
Other Admitted Assets	$15,677,869,683.63	Special Surplus Funds	$209,508,757.00
Total Admitted Assets	**$70,891,553,519.63**	Capital Stock	$10,000,075.00
		Paid in Surplus	$13,834,867,488.00
		Unassigned Surplus	$9,409,112,836.00
		Surplus to Policyholders	$23,463,489,156.00
		Total Liabilities and Surplus	**$70,891,553,519.63**

* Bonds are stated at amortized or investment value; Stocks at Association Market Values.
The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2023, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 8th day of March, 2024.

LIBERTY MUTUAL INSURANCE COMPANY INCORPORATED 1912 MASSACHUSETTS

Timothy A. Mikolajewski, Assistant Secretary

ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint Robert T. PEARSON, Desiree CARDLIN, Peter F. JONES, Gerard S. MACHOLZ, Susan LUPSKI, Thomas BEAN, Colette R. CHISHOLM, George O. BREWSTER, Vincent A. WALSH, Nelly RENCHIWICH, Dana GRANICE, Michelle WANNAMAKER, Katherine ACOSTA, Karolynne RAMIREZ **of Uniondale, New York,** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings,** and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

,

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 08th day of April, A.D. 2024.

ATTEST:
ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: Robert D. Murray
Vice President

By: Dawn E. Brown
Secretary

State of Maryland
County of Baltimore

On this 08th day of April, A.D. 2024, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Robert D. Murray, Vice President and Dawn E. Brown, Secretary** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Genevieve M. Maison

Authenticity of this bond can be confirmed at bondvalidator.zurichna.com or 410-559-8790

GENEVIEVE M. MAISON
NOTARY PUBLIC
BALTIMORE COUNTY, MD
My Commission Expires JANUARY 27 2025

GENEVIEVE M. MAISON NOTARY PUBLIC EXP. 01/27/2025 BALTIMORE COUNTY MD

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 30th day of April, 2024.

Colonial American Casualty and Surety Company CORPORATE SEAL

ZURICH AMERICAN INSURANCE COMPANY CORPORATE SEAL 1972 NEW YORK

Fidelity and Deposit Company of Maryland CORPORATE SEAL 1890

Thomas O. McClellan
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
Authenticity of this bond can be confirmed at bondvalidator.zurichna.com or 410-559-8790

1299 Zurich Way
Schaumburg, IL 60196-1056
reportsfclaims@zurichna.com
800-626-4577

Authenticity of this bond can be confirmed at bondvalidator.zurichna.com or 410-559-8790

THE FIDELITY AND DEPOSIT COMPANY

OF MARYLAND
1299 Zurich Way Schaumburg, IL 60196

Statement of Financial Condition
As Of December 31, 2022

ASSETS

Bonds	$ 219,365,765
Stocks	17,619,752
Cash and Short-Term Investments	2,767,685
Reinsurance Recoverable	12,309,422
Federal Income Tax Recoverable	0
Other Accounts Receivable	32,200,768
TOTAL ADMITTED ASSETS	$ 284,263,392

LIABILITIES, SURPLUS AND OTHER FUNDS

Reserve for Taxes and Expenses		$ 545,031
Ceded Reinsurance Premiums Payable		42,850,834
Remittances and Items Unallocated		0
Payable to parents, subs and affiliates		0
Securities Lending Collateral Liability		0
TOTAL LIABILITIES		$ 43,395,865
Capital Stock, Paid Up	$ 5,000,000	
Surplus	240,867,527	
Surplus as regards Policyholders		240,867,527
TOTAL		$ 284,263,392

Securities carried at $78,455,274 in the above statement are deposited with various states as required by law.

Securities carried on the basis prescribed by the National Association of Insurance Commissioners. On the basis of market quotations for all bonds and stocks owned, the Company's total admitted assets at December 31, 2022 would be $266,908,407 and surplus as regards policyholders $223,512,542.

I, LAURA J. LAZARCZYK, Corporate Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company on the 31st day of December, 2022.

Laura J. Lazarczyk

Corporate Secretary

State of Illinois
City of Schaumburg } SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2023.

RYAN HORGAN
Official Seal
Notary Public - State of Illinois
My Commission Expires Dec 10, 2024

Notary Public

FIDELITY AND DEPOSIT COMPANY INCORPORATED 1890 OF MARYLAND

ZURICH AMERICAN INSURANCE COMPANY
COMPARATIVE BALANCE SHEET
4 WORLD TRADE CENTER, 150 GREENWICH STREET, NEW YORK, NY 10007
As of December 31, 2022 and December 31, 2021

	12/31/2022	12/31/2021
Assets		
Bonds	$ 15,839,158,362	$ 16,632,198,754
Preferred Stock	-	-
Common Stock	2,692,685,899	2,938,741,320
Real Estate	1,285,882,807	1,195,108,770
Other Invested Assets	1,396,108,895	1,511,224,849
Derivatives	1,967,250	4,892,042
Short-term Investments	63,653,641	562,958
Receivable for securities	94,676,365	22,712,596
Cash and cash equivalents	325,244,481	157,712,608
Securities lending reinvested collateral assets	-	-
Employee Trust for Deferred Compensation Plan	151,410,661	114,975,842
Total Cash and Invested Assets	$ 21,850,788,361	$ 22,578,129,739
Premiums Receivable	$ 7,103,176,588	$ 5,896,173,688
Funds Held with Reinsurers	569,022	-
Reinsurance Recoverable	1,620,401,701	1,288,549,705
Accrued Investment Income	127,444,286	118,060,365
Federal Income Tax Recoverable	746,393,878	471,599,585
Due from Affiliates	141,004,670	129,012,120
Other Assets	571,499,318	538,603,889
Total Assets	$ 32,161,277,823	$ 31,020,129,090
Liabilities and Policyholders' Surplus		
Liabilities:		
Loss and LAE Reserves	$ 12,260,610,921	$ 12,244,569,908
Unearned Premium Reserve	4,529,888,599	4,276,836,095
Funds Held with Reinsurers	792,307,977	674,404,810
Loss In Course of Payment	2,285,499,578	1,673,061,383
Commission Reserve	188,064,832	160,324,275
Federal Income Tax Payable	-	10,641,098
Remittances and Items Unallocated	358,690,393	336,655,509
Payable to parent, subs and affiliates	551,050,824	353,084,887
Provision for Reinsurance	84,318,876	89,554,951
Ceded Reinsurance Premiums Payable	1,878,596,336	1,525,470,381
Securities Lending Collateral Liability	-	-
Other Liabilities	1,774,301,266	1,789,130,300
Total Liabilities	$ 24,703,329,603	$ 23,133,733,598
Policyholders' Surplus:		
Common Capital Stock	$ 5,000,000	$ 5,000,000
Paid-In and Contributed Surplus	4,394,142,442	4,394,131,321
Surplus Notes	-	-
Special Surplus Funds	3,404,000	3,996,000
Cumulative Unrealized Gain	(189,180,108)	172,586,977
Unassigned Surplus	3,244,581,889	3,310,681,195
Total Policyholders' Surplus	$ 7,457,948,223	$ 7,886,395,493
Total Liabilities and Policyholders' Surplus	$ 32,161,277,825	$ 31,020,129,090

I, LAURA J. LAZARCZYK, Corporate Secretary of ZURICH AMERICAN INSURANCE COMPANY do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company, on the 31st day of December, 2022, according to the best of my information, knowledge and belief.

Laura J. Lazarczyk

Corporate Secretary

State of Illinois
County of Cook } SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2023.

RYAN HORGAN
Official Seal
Notary Public - State of Illinois
My Commission Expires Dec 10, 2024

Notary public

ZURICH AMERICAN INSURANCE COMPANY INCORPORATED 1906

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

2601 BLAIR STONE ROAD
TALLAHASSEE FL 32399-0783

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC1532477 ISSUED: 08/28/2024
CERTIFIED GENERAL CONTRACTOR
HAJIFATHALIAN, KIARASH
BAKER CONCRETE CONSTRUCTION, INC.

Signature
LICENSED UNDER CHAPTER 489, FLORIDA STATUTES
EXPIRATION DATE: AUGUST 31, 2026

Ron DeSantis, Governor — Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER: CGC1532477 **EXPIRATION DATE: AUGUST 31, 2026**

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

HAJIFATHALIAN, KIARASH
BAKER CONCRETE CONSTRUCTION, INC.
900 NORTH GARVER ROAD
MONROE OH 45050

ISSUED: 08/28/2024

Always verify licenses online at MyFloridaLicense.com
Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

Integ-Crete Construction, LLC.

10550 West Midway Road, Fort Pierce, FL 34981
(O) 772.216.4412 (F) 772.252.5285
CGC1523363

11/15/24

Integ-Crete Construction, LLC presents the following proposal for the **SURFACE WTP COMPONENT OF THE TAMPA BAY REGIONAL WTP EXPANSION** project in Tampa Bay, Florida. This budget proposal (60% design drawings) includes the concrete package as described below, but is limited to the items below.

1. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, pads, walls, beams, elevated deck, and grout fill for the High Rate Flocculation/Sedimentation Unit 5. (Drawings S-2 thru S-8)
2. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, slab, pads, walls, beams, elevated deck, grout fill, and concrete steps for the Ozone Tank Train 5 (Drawings S-9 thru S-13)
3. Provide labor and material to form, reinforce, and pour cast in place slab concrete foundation, pads, and walls for the Liquid Oxygen Storage Train 5. (Drawing S-17)
4. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, pads, columns, beams, walls, elevated deck, and grout fill for the Filters 16- 18 Structure. (Drawings S-21 thru S-26)
5. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, pads, and walls for the South System Chemical Storage 2. (Drawing S-30)
6. Provide labor and material to form, reinforce, and pour cast in place concrete foundation and walls for the Sodium Hypochlorite Storage. (Drawing S-31)
7. Provide labor and material to form, reinforce, and pour cast in place concrete foundation and pad for the Belt Filter Press Feed Pumps. (Drawing S-32)
8. Provide labor and material to form, reinforce, and pour cast in place concrete pedestals (56) for the Solids Dewatering Building #1 & #2 Modification. (Drawing S-34)
9. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, knee wall, slab, pads, curb, and topping on metal deck for the Ozone Generator Building #3. (Drawing S-14 thru S-16)
10. Provide labor and material to form, reinforce, and pour cast in place concrete foundation, knee wall, slab, pads, and concrete topping on metal deck for the Coagulant Aid Polymer Building. (Drawing S-18 thru S-20)
11. Provide labor and material to form, reinforce, and pour cast in place concrete foundations, slab, pads, pedestals, knee wall, and concrete topping on metal deck for the Dry Chemical Feed Building #3. (Drawing S-27-29)
12. Provide labor and material for vapor barrier where called out on structural drawings.
13. Provide labor to install cast in place anchor bolts (material provided by others)
14. Provide labor to install pipe sleeves and embeds cast into concrete (material by others)
15. Provide labor and material for all rebar and concrete materials for scope of work above.
16. Provide labor and material to cure all concrete per the specifications.
17. Provide labor and material to provide a water-tight tank. (water and transportation of water in/out of tank by others)
18. Provide labor and material to point and patch cast in place concrete as shown in contract documents and specifications, if applicable]
19. Provide labor and material for temporary access (ladders, stair tower, etc) in and out of structures during Integ-Crete's scope of work for that particular structure.

Integ-Crete Construction, LLC.
10550 West Midway Road, Fort Pierce, FL 34981
(O) 772.216.4412 (F) 772.252.5285
CGC1523363

20. Ice has been budgeted to maintain the 90 degree temperature of the concrete.
21. Concrete & Rebar Escalations have been included thru December 31st 2026.
22. Davis Bacon Wages Included. (Ironworker – Reinforcing - $35.00/hr figured)
23. All taxes are included in price.
24. Any and all equipment needed to preform our scope of work.

These items are not included in the scope of this proposal:

1. Temporary restrooms
2. Dumpsters (debris and concrete waste)
3. Surveying (bench marks and 10' offsets at building corners)
4. Soil and Concrete Testing
5. All Permits
6. Dirt grade must be +/- 1/2" and Compaction (crushed aggregate, granular fill, fabric, or any base material by others)
7. Labor and Material for all Excavation, Sheet Piling, Shoring, Bracing, and Backfill.
8. Labor and Material for Erosion Control.
9. Labor and Material for Termite Treatment.
10. Labor and Material for Dewatering (surface rain water is included – not ground water)
11. Labor and Material for all Backfill at all slabs/pads.
12. Labor and Material for all CMU work.
13. Labor and Material for precast, if applicable.
14. Labor and Material for backer rod, sealants, and coatings.
15. Labor and Material for Pipe Encasements.
16. Labor and Material for Concrete Pipe and Conveyor Supports
17. Labor and Material for all demolition and repairs of demo work.
18. Labor and Material to grout in embeds, pipe, etc.
19. Labor and Material for site curbing, valley curbs, transformer pads, sidewalks, and/or replacement sidewalks.
20. Crystalline Admixture for concrete if applicable
21. Any and all other concrete not mentioned in the inclusions is specifically excluded

TOTAL CONCRETE PROPOSAL (Break out Pricing Below): $7,795,850.00

SOLIDS DEWATERING BUILDING #1&#2:	**$72,500.00**
BELT FILTER PRESS FEED PUMPS:	**$16,250.00**
SODIUM HYPOCHLORITE STORAGE:	**$97,500.00**
SOUTH SYSTEM CHEMICAL STORAGE:	**$106,750.00**
DRY CHEMICAL FEED BLDG #3:	**$212,000.00**
FILTERS NO. 16-18:	**$2,221,000.00**
LIQUID OXYGEN TRAIN #5:	**$130,500.00**
COAGULANT AID POLYMER TRAIN #5	**$173,200.00**
OZONE GENERATOR BLDG #3:	**$200,600.00**
OZONE CONT. TANK TRAIN #5:	**$2,448,200.00**
HIGH RATE FLOCCULATION UNIT #5:	**$2,117,350.00**

Add 1.25% for Bond

Integ-Crete Construction, LLC.
10550 West Midway Road, Fort Pierce, FL 34981
(O) 772.216.4412 (F) 772.252.5285
CGC1523363

Please feel free to reach out to Justin Drawdy, 772.216.4412 or justin@integcrete.com, with any questions. We hope to be part of your winning team and look forward to working with you.

Proposal good for 60 days from date listed above. Concrete scope above must be completed in 2025.

LEESBURG CONCRETE COMPANY, INC
ARCHITECTURAL PRECAST CONCRETE & METAL FABRICATION

1335 Thomas Ave
Leesburg, FL 34748
Cell: (352) 408-4637

Proposal #KT-2024-120

Sales Contract

This Sales Contract is made on this 5th day of December 2024, by Leesburg Concrete Company Incorporated (hereinafter "Seller") and the Purchaser indicated herein. Both parties acknowledge and agree to the following terms and conditions of this Sales Contract as set forth below.

Project:

Veolia Surface
Multiple Precast Buildings
Tampa, FL

I. Product & Price

Specifications: ***Leesburg Concrete Company Incorporated is a PCI certified plant.***

Ozone Building – Interior dimensions of 29'-4" x 69'-4" x 22'-0" internal height. The building consists of 8" thick non-insulated exterior wall panels and a sectional non-insulated roof panels (approx. 15" thick roof slabs). The building is constructed from individually poured concrete panels that are delivered unassembled and erected on a Purchaser will provide a level, poured in place slab, customer to receive the weight of the structure and embed plates will be supplied for casting slab.

Price:

Sub-Total:	$ 580,756.00
Sales Tax:	*(not included)*
Total:	**$** 580,756.00

Filter Building – Two (2) wall sections only - Interior dimensions of 14'-0" x 89'-4" x 18'-9" internal height. The building consists of 8" thick non-insulated exterior wall panels and **NO roof panels**. The building is constructed from individually poured concrete panels that are delivered unassembled and erected on a Purchaser will provide a level, poured in place slab, poured in place back and side wall. Customer to receive the weight of the structure and embed plates will be supplied for casting slab.

Price:

Sub-Total:	$ 165,499.00
Sales Tax:	*(not included)*
Total:	**$** 165,499.00

South Lime Building – Interior dimensions of 34'-0" x 44'-0" x 30'-0" internal height (**stem wall to be provided by others to set wall panels on**) **NO roof panels**. The building consists of 8" thick non-insulated exterior wall panels and a sectional non-insulated roof panels. The building is constructed from individually poured concrete panels that are delivered unassembled and erected on a Purchaser will provide a level, poured in place slab, customer to receive the weight of the structure and embed plates will be supplied for casting slab.

Price:

Sub-Total:	$ 348,644.00
Sales Tax:	*(not included)*
Total:	**$** 348,644.00

North Polymer Building – Interior dimensions of 29'-4" x 62'-8" x 18'-0" internal height. The building consists of 8" thick non-insulated exterior wall panels and a sectional non-insulated roof panels. The building is constructed from individually poured concrete panels that are delivered unassembled and erected on a Purchaser will provide a level, poured in place slab, customer to receive the weight of the structure and embed plates will be supplied for casting slab.

Price:

Sub-Total:	$ 438,212.00
Sales Tax:	*(not included)*
Total:	**$** 438,212.00

Detailed engineering and drawings will be provided for all items in this Sales Contract upon an executed contract. The structural drawings will be stamped by a Professional Engineer registered in the State of the building placement. As such, Seller reserves the right to amend the Sales Contract to comply with any code or regulation required. Local/municipal inspections and approvals, including site inspections, building permits and zoning approvals are not included. The seller is not responsible for determining such local requirements.

Foundation to be level within 1/4" +/- in both directions and capable of supporting loads imposed by structure. The substrate must have a vertical soil capacity of 1500 psf. Place stone or sand to 1" above the highest point of area where building will be placed.

Following applies to all previously mentioned buildings above.

Entry Systems – None provided (cast openings)

Electrical System – **None provided**

Plumbing System – **None provided**

Bathroom Accessories – **None provided**

HVAC System – **None provided**

Exterior Finish – Exterior walls shall receive a simulated brick finish. Exterior walls shall be coated with H & C Concrete Stain by Sherwin & Williams. Stain shall be applied per manufacturer's recommendation.

Interior Room Finish – Smooth steel trowel finish on all interior surfaces. The interior surfaces will be natural concrete color.

Installation – Site preparation suitable to Leesburg Concrete Company, Inc. design requirements is responsibility of Purchaser. Crane and operator for off-loading and setting precast

components are included in the Sales Contract. Off-loading building components from 70' tractor/trailer combination, rigging and setting is included in this Sales Contract. This proposal assumes delivery equipment can be located adjacent to the final building destination under own power. Traffic control devices, permits and/or flaggers are the responsibility of the Purchaser.

Warranty – Seller guarantees that the complete building will have no defect in materials or workmanship for a period of one (1) year, except as limited or extended by the original equipment or component manufacturer.

Liquidated Damages/Retainage - Leesburg Concrete Company Incorporated is a manufacturer of a product and will not be subject to liquidated damages/retainage as per any "Prime Contract" or "Subcontract" agreement.

NOTE: Any items not specifically mentioned above shall be supplied and installed by the Purchaser.

Price:

Sub-Total:	$ 580,756.00
Sales Tax:	*(not included)*
Total:	**$** 580,756.00

Contract Excludes but is not limited to:

Permitting
Bonds
Interior outfitting of any kind
Sales tax
Site preparation
Doors
Plumbing
Electrical
HVAC
Secondary roofing membrane/Truss roof
Canopies
Windows
Any additional insurances to be at owners' expense

OR ANY OTHER ITEM NOT LISTED IN ABOVE CONTRACT

This Sales Contract includes freight delivery and skilled nonunion installation labor by Leesburg Concrete Company Incorporated. Crane and operator for off-loading and setting precast components are included in the Sales Contract. Traffic control devices, permits and/or flaggers are the responsibility of the Purchaser.

Delivery to occur on weekdays during normal daylight working hours. Proper site conditions, including clear access roads and a reasonably level surface, so that vehicles, trucks, and cranes can safely maneuver under their own power. All roads, crossings, and load bearing surfaces to be able to accommodate 55,000 pounds plus the tractor-trailer and 13'-6" height. No overhead power lines, obstructions or overhanging trees that could block the maneuverability of equipment.

The price assumes site accessibility for the crane and tractor-trailer with the ability for both to set next to the pad. Accessibility is defined as a level unobstructed area large enough for a crane and tractor-trailer to park adjacent to the pad. The crane must be able to place outriggers within 3'-0" of the edge of the pad and the truck and crane must be able to get side-by-side under their own power. No overhead lines or other obstructions may be within a 75' radius of the center of the pad. A firm roadbed with turns that allows a 70'-0" low-bed tractor and trailer must be provided directly to the site. No building shall be placed closer than 2'-0" to an existing structure, without approval of Seller. Purchaser is responsible for obtaining all licenses, permits and payment of any fees or taxes relating to the site and installation.

Price is contingent on approval of products as submitted and manufactured by Leesburg Concrete Company, Incorporated.

Taxes: Any applicable Federal, State or Local Taxes are NOT included.

Bonds: The quoted price DOES NOT include payment and performance bonds.

Payment Terms: 10% down payment required to commence engineering. Progress billing to be invoiced as produced. No retainage. Credit card payments may will a three percent (3%) surcharge.

A tentative delivery date will be established after approval submittal has been returned. Production and placement of accessory orders will not begin until receipt of the signed approved submittal. At time of production completion, the delivery date will be scheduled as mutually agreed upon. Should building ordered remain in Seller's possession over 45 days after production, items will be billed and payment expected according to payment terms noted above. If building ordered remain in Seller's possession over 60 days after production, will be charged a $1,000.00 per month storage fee. The storage fee will be billed monthly and payment expected according to payment terms noted above.

If manufacturing cannot commence, due to elements outside of Leesburg Concrete Company Incorporated's control, a 2% inflation rate shall be applied monthly to the total contract amount after 270 calendar days.

ASSIGNMENT; ACQUISITION

Except for the acquisition exception provided for and contained herein, neither this Agreement nor the rights and obligations hereunder may be assigned or transferred by either Party without the prior written consent of the other Party. In such case consent shall not be unreasonably denied or withheld. However, if Leesburg Concrete Co., Inc. decides to sell its business or substantially all of its business assets, then it is not required to obtain written consent from the other party to assign any contract or agreement, or the rights and obligations under any contract or agreement. Further, Leesburg Concrete Co., Inc. is hereby expressly allowed under this Agreement the right to sell and assign any and all active contracts or agreements as well as any backlog/inventory contracts or contracts or agreements that have not been started in conjunction with the sale of its business and its business assets to any third party. Both parties consent and agree to this acquisition exception.

Leesburg Concrete Company Incorporated STANDARD TERMS AND CONDITIONS:

1. Applicability. These terms and conditions are incorporated into Seller's Quotation & Contract (collectively, the "***Contract***"). The Contract comprises the entire agreement between the parties, and supersedes all prior or contemporaneous communications, understandings, agreements, negotiations, representations and warranties. The Contract prevails over any of Purchaser's general terms and conditions of purchase regardless whether or when Purchaser may have submitted a purchase order or contract.

2. **Payment**. Payment terms are net 30 days from date of Seller's invoice or sooner as may be required by applicable law. Late payments shall accrue a finance charge of one and one-half percent (1½%) per month or the highest rate allowable by law, whichever is less. Seller shall be entitled to recover all costs and expenses, including reasonable attorneys' fees, arising out of Purchaser's failure to make all payments due under this Contract in a timely manner.

3. Taxes. Purchaser is responsible for payment of all taxes and duties not specifically assumed in writing by Seller in the Contract. Purchaser agrees to defend, indemnify and hold Seller harmless from any damages and expenses related to any levy or attempted levy of any other taxes on Seller.

4. Suspension; Termination. In addition to any other remedies available to Seller, Seller may suspend or terminate this Contract with immediate effect upon written notice to Purchaser, if Purchaser: (i) fails to pay any amount when due under this Contract (or any other agreement Purchaser has with Seller); (ii) has not otherwise performed or complied with any of these terms (or complied with the terms of any other agreement Purchaser has with Seller); (iii) becomes insolvent, files a petition for bankruptcy or commences or has commenced against it proceedings relating to bankruptcy, receivership, reorganization or assignment for the benefit of creditors; or (iv) exhibits other adverse credit conditions that are unsatisfactory to Seller, as determined by Seller in its sole discretion.

5. Shipment; Delivery Conditions. Unless otherwise agreed in writing, all materials purchased by Purchaser shall be FOB Seller's plant sourcing the Contract. If FOB Destination, the Purchaser agrees to provide suitable roadways or approaches to points of delivery. Seller reserves the right to cease deliveries if Seller concludes, in its sole opinion, that the roadways or approaches are unsatisfactory. In the event Purchaser Contracts delivery beyond curb line, Purchaser assumes liability for damages to sidewalks, driveways or other property, loss and expense incurred as a result of such deliveries to the maximum extent allowed by law. Prices quoted herein are based on prompt unloading of trucks, and in case repeated delays in unloading, deliveries may be discontinued until conditions are corrected. Delays of more than 1 (one) hour are subject to an additional charge. Purchaser also agrees to provide a safe, suitable work area for Seller and its employees.

6. Title and Risk of Loss. Title and risk of loss passes to Purchaser at the time any materials are loaded into Purchaser's, or Purchaser's agents', vehicles, barges or other modes of transport, in the case of FOB Plant sales, or in the case of Seller's delivery, upon delivery of the Materials.

7. **Warranty.** Seller warrants that the goods and services herein will conform to the specifications provided to Seller prior to manufacture of the goods and/or Seller's performance of the services. Seller's obligation to meet the applicable specifications supersedes any and all other

warranties. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES. Purchaser shall verify that Seller's materials comply with the plans and specifications prior to installation. Changes to the plans and specifications shall be made by written change order and Seller shall be entitled to an equitable price adjustment for such changes. The express limited warranty set forth herein shall be void if Purchaser fails to pay Seller in full for the materials provided by Seller pursuant to this Contract.

8. **Time.** Seller shall make reasonable efforts to provide the equipment, labor, materials and/or services by the specified delivery date and provide notice to Purchaser of any expected delays. Seller is not responsible for any delays due to labor disputes, repairs to machinery, fire, flood, adverse weather conditions, inability to obtain transportation, fuel, electric power, or operating materials or machinery at reasonable cost; or by reason of any other cause beyond its control, including the inability to produce materials meeting any applicable specification or requirement. In the event any such contingency should occur, Seller reserves the right to determine the order of priority of delivering to its purchasers.

9. **Modification.** No amendment or modification of this Contract shall be valid or enforceable unless in writing and signed by the party sought to be charged, and no prior or current course of dealing between the parties, or any usage of trade or custom of the industry shall modify or supplement the terms and conditions of this Contract.

10. **No Waiver.** The failure of Seller to exercise any right granted hereunder shall not impair or waive Seller's privilege of exercising such right to any subsequent time or times.

11. **Damages**. Seller's liability for any damages related to this Contract shall be limited to, at Seller's option, (a) replacement of defective materials and work or, at Seller's option, (b) a refund of any payments made by Purchaser. **IN NO EVENT SHALL SELLER BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES WITH REGARD TO ANY CLAIM ARISING OUT OF OR RELATING TO THIS CONTRACT.** It is further understood that Seller shall not be responsible for any damage to or deterioration of any of its work, whether completed or in process, resulting from any cause or causes beyond its reasonable control, including but not limited to design, failure of subgrade or other subsurface conditions, or failure or inadequacy of any labor or materials not furnished and installed by Seller, whether or not such failure or inadequacy was or could have been known at the time its work was undertaken, or for any work performed under adverse weather conditions

12. **Indemnity**. To the maximum extent permitted by applicable law, Purchaser shall defend, indemnify and hold Seller, its officers, employees, agents, insurers, sureties, and affiliates, harmless from any and all losses, damages, expenses (including attorneys' fees), claims, suits, liabilities, fines and remedial or clean-up costs arising out of or in any way related to: (i) Purchaser's breach of this Agreement; or (ii) any act or omission by or on behalf of Purchaser, its employees, contractors and/or agents.

13. **Applicable Law**. This Contract, and the rights, duties, obligations and remedies of the parties shall be governed by or construed in accordance with the laws of the state where the Project is located.

14. **Work Conditions**: If Seller's work is dependent upon or must be undertaken in conjunction with the work of others, such work shall be so performed and completed as to permit Seller to perform its work in a normal uninterrupted single shift operation. Unless a time for the performance of Seller's work is specified, Seller shall undertake the work in the course of its normal operating schedule. Seller shall not be liable for any failure to undertake or complete the work for causes beyond its control, and Seller may suspend the work for causes beyond its control, including but not limited to fire, flood or other casualty; the presence on or beneath the work site of utilities, facilities, substances, or objects, including but not limited to any substance that in Seller's opinion is hazardous or toxic or the reporting, remediation, or clean-up of which is required by any law or regulation; labor disputes or other disagreements; and accidents or other mishaps, whether affecting this work or other operations in which Seller is involved, directly or indirectly. If for causes beyond Seller's control, Seller's work is not completed within twelve (12) months after the date of Purchaser's acceptance of the Contract, Seller may cancel this Contract. In such event: (i) Seller shall be relieved of any further obligation with respect to the balance of the work; and (ii) Seller shall be entitled to receive final and complete payment for all work performed by us to the date of cancellation within fifteen (15) days thereafter.

15. **Miscellaneous**. Unless otherwise specified in writing, Purchaser shall be responsible for testing the materials and confirming that the materials comply with Purchaser's specifications at Seller's facility prior to directing shipment. All funds paid to Purchaser from a third party for Seller's labor, services, materials, and equipment shall be deemed in trust for the payment of Seller. Safety Data Sheets and product label information are available at Seller's office or Seller's website. Purchaser agrees to draw to the attention of any persons handling or using the materials or having access to the materials while in Purchaser's possession or to whom Purchaser sells the materials or any part thereof any warning, information of suggestions which are contained or referred to in the Safety Data Sheets or label information, or any other literature or packaging relating to the materials.

16. **MANDATORY BINDING ARBITRATION: ALL CLAIMS OR CONTROVERSIES ARISING OUT OF OR RELATED TO THIS CONTRACT, SHALL BE SUBMITTED TO AND RESOLVED BY BINDING ARBITRATION BY A SINGLE ARBITRATOR IN THE LAKE COUNTY, FL. THE AMERICAN ARBITRATION ASSOCIATION ("AAA") SHALL CONDUCT THE ARBITRATION AND THE COSTS OF THE ARBITRATION SHALL BE BORNE EQUALLY BY THE PARTIES. NOTWITHSTANDING ANY LANGUAGE TO THE CONTRARY IN THIS CONTRACT, THE PARTIES AGREE: THAT THE UNDERLYING AWARD MAY BE APPEALED PURSUANT TO THE AAA'S OPTIONAL APPELLATE ARBITRATION RULES ("APPELLATE RULES"); THAT THE UNDERLYING AWARD RENDERED BY THE ARBITRATOR SHALL, AT A MINIMUM, BE A REASONED AWARD; AND THAT THE UNDERLYING AWARD SHALL NOT BE CONSIDERED FINAL UNTIL AFTER THE TIME FOR FILING THE NOTICE OF APPEAL PURSUANT TO THE APPELLATE RULES HAS EXPIRED.**

The person signing below represents that he/she is authorized to enter into this Agreement on behalf of the Purchaser and has received the Seller's Standard Terms & Conditions, which are incorporated by reference herein. This Sales Contract and the Standard Terms & Conditions are accepted by the following:

FOR SELLER:

_____

Thomas Ely

Sales - Buildings Division
Leesburg Concrete Company Incorporated

(This Sales Contract expires sixty (60) days after issuance)

FOR PURCHASER:

_____
Company Name

_____
Signature

_____
Print Name

_____
Date:

Quote

9729

Titan Florida LLC

800 Fairway Drive, Suite 200
Deerfield Beach, Florida 33441
954-481-2800
http://www.titanamerica.com

PROJECT	Veolia SWTP Expansion	DATE	14 Nov 2024 20:47
CUSTOMER	CDM Smith	BID DATE	12 Nov 2024
CONTACT	Larry Oliver, (407) 660 6410	END DATE	31 Dec 2025
CONTACT EMAIL	Oliverlr@cdmsmith.com	ADDRESS	2301 Regional Water Lane
QUANTITY	5000 CY		Tampa, FL, 33619
PROJECT TYPE	Commercial		

This Quotation is not binding on Titan Florida LLC unless accepted in writing within 30 days of issue, and is subject to withdrawal prior to acceptance. Titan Florida LLC reserves the right to revoke this Quotation at any time up to 10 days following Buyer's acceptance.

The pricing contained herein shall be valid until 14 Dec 2024; should you need pricing beyond this date, please contact our Sales Department and they will be happy to assist you.

CONCRETE

CODE	NAME	PRICE	UOM	WORK TYPES	NOTES
JAGB8C10	3000 MG-C	$158.00	CY		Masonry Grout
GAJB0A10	4000 GROUT	$162.00	CY		Grout
CAKB5R10	4500 #57	$152.00	CY		Structural Concrete
CAKB5R12	4500 #57 HRWR	$156.00	CY		Structural Concrete w/High Range

FEES

CODE	NAME	PRICE	UOM	NOTES
98000448	SHORT LOAD	$300.00	LD	UNDER 6CY (SEE TBL 10)
98000442	ENVIRON SURCHG/LD	$20.00	LD	PER TRUCK
98000303	VARIABLE FUEL SURCHARGE /LD	$23.00	LD	PER TRUCK
98000492	MASTERFIBER F100 - 1.5 LB	$13.00	CY	
98000968	MASTERLIFE 300L	$48.00	CY	

ESCALATORS

ESCALATORS ON CONCRETE PRODUCTS	+$10.00 01 Jan 2026

NOTES

Any testing over and above what would be considered Industry Standard is excluded.

TERMS AND CONDITIONS OF SALE

1. All sales are subject to these terms and conditions ("Contract") and, if buying on credit, to Buyer's credit agreement with Seller, incorporated herein by reference; all other terms, including any terms contained in Buyer's purchase order, are excluded. Any changes must be in writing and signed by each party. For all disputes relating to this Contract, this Contract will be governed by the laws of, and Buyer hereby consents to the jurisdiction and venue of the state and federal courts for, the location of the delivery site of the goods sold hereunder.
2. Payment is due in full on the date stated on the front of the invoice. Interest at the lesser of 1½ % per month or the maximum rate allowed by law will be imposed on outstanding and delinquent invoices from the date of delivery until paid. Buyer will pay to Seller all applicable federal, state and local sales and use taxes. In addition to any other available rights and remedies, Seller will be entitled to recover from Buyer all costs of collection and litigation including, but not limited to, reasonable attorneys' fees. Seller reserves the right to require payments in advance or to cancel the unfilled portion of this Contract without notice in the event of Buyer default of any Contract provisions, or if Buyer's financial status becomes impaired or deemed unsatisfactory to Seller.
3. Regular delivery hours are 7:00 a.m. - 5:00 p.m., Monday through Friday. An additional charge may be added for deliveries outside of these hours and for any waiting/unloading periods in excess of 60 minutes. Prices are based on full loads; an additional charge will apply to short loads.
4. Buyer should give Seller at least 48 hours prior notice of the time and rate of requested deliveries. Delivery schedules will be mutually agreed upon between Seller and Buyer. Seller reserves the right to reject any order. Agreed-upon deliveries will be made to the best of Seller's ability to dispatch, however, Buyer waives any claims associated with any delays in delivery.
5. Buyer must provide suitable approaches to delivery points beyond paved streets. For delivery beyond curb lines, Buyer assumes all liability for damage to vehicles, sidewalks, driveways, pipes, septic tanks, and/or other property, and Buyer will indemnify and hold Seller harmless from and against any and all liability, loss and expense incurred as a result of such delivery, including but not limited to towing charges, except to the extent caused by Seller's gross negligence or willful misconduct. Buyer waives any right of subrogation against Seller.
6. Buyer must provide an appropriate location and facility (in compliance with applicable law) for Seller to washout the truck's chutes and drum after discharging concrete. Buyer is responsible for full payment of, including all costs of disposal and Seller's return charge per truck for, (i) orders not cancelled at least one hour prior to delivery time; (ii) concrete delivered due to Buyer's mistake or in excess of requirements; (iii) concrete not deliverable due to unsuitable approaches.
7. Concrete prices and quantities are based upon the wet volume at the time of discharge from the truck, and are not sold "form measurement" or measured "in place". Yield will be established in strict accordance with applicable ASTM standards. Buyer will pay all charges incident to inspection or tests made by or on behalf of Buyer.
8. Limited Warranty. Buyer is solely responsible for determining the type and quantity of goods to be purchased. Concrete will be batched and delivered in accordance with ASTM C-94. Seller warrants that its products will meet or exceed applicable American Society for Testing Materials ("ASTM") and American Concrete Institute ("ACI") standards, when tested in accordance with ASTM and evaluated by ACI standards. Seller will repair or replace any goods supplied by Seller that fail to meet this limited warranty, within one year after delivery thereof, subject to the Limitation of Liability in Sec. 13 below. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED. THE REMEDY SET FORTH IN THIS SECTION 8 WILL CONSTITUTE THE SOLE REMEDY OF BUYER UNDER THIS LIMITED WARRANTY.
9. Seller is not responsible for slump, strength or quality of any concrete to which water or other material has been added by or on behalf of Buyer. Buyer is responsible to see that the concrete is handled in accordance with best construction practices. Seller has no control over the placing or handling of concrete after unloading and does not guarantee the finished work in which it is used. Buyer is responsible to prevent unloaded concrete from coming into contact with any material, such as aluminum, which may adversely impact concrete strength.
10. Buyer will furnish any admixtures or ingredients it desires that are not regularly supplied by the Seller in the marketplace. Buyer will be solely responsible for the effect of such admixture or ingredients on the concrete. Any extra product which may be required in excess of the mix design quoted, or which may be required to provide workability, strength, setting time or water/cement ratio, will result in an additional ingredient charge payable by Buyer.
11. Concrete temperature will be dictated by the environmental and material conditions at the time of delivery. Any requirement beyond these conditions will require the implementation of controlled measures during production at the expense of Buyer. Buyer is responsible for the requirements of ACI 305R and 306R, except as pertain to production.
12. Buyer must give Seller written notice within 48 hours after delivery of any claim against Seller as a result of any alleged nonconforming materials or any other cause whatsoever (other than failure to meet compressive strength, in which event the time for notice will be within 48 hours after the specified test age of the test cylinder in accordance with ASTM standards), time being of the essence. Seller will be given reasonable opportunity to investigate all claims. Any failure by Buyer to give written notice within such 48 hour period will be deemed a conclusive waiver by Buyer of all such claims against Seller.
13. SELLER WILL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, ANY DAMAGES RELATED TO DELAY, WHETHER BASED ON STATUTE, TORT, CONTRACT, OR OTHERWISE, AND WHETHER OR NOT ARISING FROM SELLER'S NEGLIGENCE, STRICT LIABILITY OR FAULT. IN NO EVENT WILL SELLER BE RESPONSIBLE FOR DAMAGES DUE TO THE ACTIONS OF OTHERS OR THE FAILURE OF BUYER TO COMPLY WITH ITS OBLIGATIONS. SELLER'S LIABILITY FOR ANY CLAIMS WILL BE LIMITED TO THE PURCHASE PRICE OF THE GOODS SOLD UNDER THIS CONTRACT.
14. Failure of Seller to exercise any of its rights hereunder will not be deemed a waiver of any such right; a waiver of any right or obligation hereunder will not constitute a continuing waiver. The unenforceability of any provision of this Contract will not affect the enforceability of any other provision of this Contract, and each other provision of this Contract will be severable and enforceable to the extent permitted by law.

WARNING: CAUSES SKIN IRRITATION - INJURIOUS TO EYES.

CONTAINS PORTLAND CEMENT. FRESHLY MIXED CONCRETE MAY CAUSE SKIN IRRITATION OR INJURY. AVOID CONTACT WITH SKIN WHERE POSSIBLE. WASH EXPOSED AREAS PROMPTLY WITH WATER. IF ANY MIXTURES GET INTO THE EYE, RINSE IMMEDIATELY WITH WATER AND GET PROMPT MEDICAL ATTENTION. KEEP OUT OF REACH OF CHILDREN.
MATERIAL SAFETY DATA SHEETS (MSDS) ARE AVAILABLE AT WWW.TITANAMERICA.COM

TITAN FLORIDA LLC REPRESENTATIVE

NAME	LAFEVER WILL	EMAIL	wlafever@titanamerica.com
TITLE	Sales Representative	PHONE	(656) 207 2885

SIGNATURES

TITAN FLORIDA LLC REPRESENTATIVE

SIGNATURE		NAME (PRINT)		DATE	
SIGNATURE		NAME (PRINT)		DATE	

CDM SMITH REPRESENTATIVE

SIGNATURE		NAME (PRINT)		DATE	

Titan Florida LLC
455 Fairway, Deerfield Beach, Florida 33441
954-719-6590
www.titanamerica.com

We are pleased to submit the following quotation for concrete block and related products for:

PROJECT	Veolia SWTP Expansion	DATE	11/14/2024
CUSTOMER	CDM Smith	ISSUE DATE	11/14/2024
ACCOUNT #		END DATE	12/31/2024
CONTACT EMAIL	Oliverlr@cdmsmith.com	ADDRESS	2301 Regional Water Lane
PHONE	(407) 660 6410	CITY/STATE	Tampa, FL, 33619
C/O:	Larry Oliver	COUNTY	Hillsborough
GRAY BLOCK PLANT	108 - TAMPA BLOCK	TAX EXEMPT	No
		Business Segment Type	03 - Non-Residential

ESCALATORS

Products	Date	$ Amount	Next Date	$ Amount
8x8x16 Regular & 2HR Fire Rated		$ -		$ -
Speciality Block (other block)		$ -		$ -
All Bagged Goods		$ -		$ -
FCMEA Fund Donation			DONATION	No
Masonry National Check-Off			DONATION	No

BLOCK

Item #	Product Description	UOM	Total	Quantity	Notes
1001925	8X8X16 REGULAR (S)	EA	$1.90		Add Freight
1001858	8X8X16 REGULAR 2 HR FIRE RATED (S)	EA	$1.95		Add Freight
1002030	8X8X16 REG (PALLET BLK) 2 HR FR (S)	EA	$1.90		Add Freight
1001859	8X8X16 BOND BEAM (S)	EA	$2.20		Add Freight
1001848	8X8X8 BABY O (S)	EA	$2.00		Add Freight
1001730	8X8X16 FHA HEADER (S)	EA	$3.40		Add Freight
1001841	4X8X16 SOLID(S)	EA	$2.70		Add Freight
1002054	4X8X16 PARTITION (S)	EA	$2.70		Add Freight
1001892	8X2X16 STEPPING STONE (S)	EA	$2.70		Add Freight
1001844	8X4X16 1/2 HIGH (S)	EA	$2.00		Add Freight
1001866	12X8X16 FOUNDATION (S)	EA	$2.90		Add Freight
1001874	16X4X16 SOLID (S)	EA	$3.85		Add Freight
1001896	8X9X16 9 HIGH (S)	EA	$3.20		Add Freight
1001726	8X8X14 REG 14in(S)	EA	$3.90		Add Freight
1001846	8X6X16 3/4 HIGH (S)	EA	$2.20		Add Freight
1001871	12X8X16 BOND BEAM (S)	EA	$3.20		Add Freight
1002401	12X8X12 COLUMN C12 (S)	EA	$4.00		Add Freight
1001861	8X8X16 SNGL 45 DEGREE (S)	EA	$3.90		Add Freight
1001742	4X8X8 1/2 PARTITION (S)	EA	$3.00		Add Freight
1001855	8X8X16 INSPECTION BLOCK (S)	EA	$2.30		Add Freight
1001842	6X8X16 PARTITION (S)	EA	$2.20		Add Freight
1001875	16X8X16 COLUMN (S)	EA	$5.80		Add Freight
1001860	8X8X16 SASH (S)	EA	$2.30		Add Freight
1001856	8X8X16 DBLE 45 DEGREE (S)	EA	$4.30		Add Freight
1001849	8X8X8 BABY O SASH (S)	EA	$2.70		Add Freight
1016950	8x8x16 3250 PSI Regular (S)	EA	$2.15		Add Freight
1016951	8x8x16 Bond Beam 3250 PSI (S)	EA	$2.45		Add Freight
1001852	8X8X12 SASH COLUMN (S)	EA	$2.40		Add Freight
12000174	PALLET: PINE 48.0 X 36.0 (2-WAY)	EA	$36.25		Add Freight
1001816	MASONRY PREMIX: TYPE M QUIKRETE 80LB	EA	$7.25		Add Freight
1001745	MASON SAND BAG /YARD (1 CY = 1.35 TONS)	EA	$65.00		Add Freight
1001749	HS MASNRY BAG [40]TITAN TYPE "S/M" 80 LB	EA	$10.55		Add Freight
98000229	MOVING BLOCK CHARGE	EA	$500.00		
98000231	SHORT LOAD - BLOCK (0-5 CUBES)	EA	$225.00		
98000000	FUEL SURCHARGE	Adjusted monthly	$45.00		
1001889	16X8X16 COLUMN (S)	(blank)	$5.80		

Titan Florida LLC
455 Fairway, Deerfield Beach, Florida 33441
954-719-6590
www.titanamerica.com

PROJECT	Veolia SWTP Expansion	DATE	11/14/2024
CUSTOMER	CDM Smith	ISSUE DATE	11/14/2024
ACCOUNT #	0	END DATE	12/31/2024
CONTACT EMAIL	Oliverlr@cdmsmith.com	ADDRESS	2301 Regional Water Lane
PHONE	(407) 660 6410	CITY/STATE	Tampa, FL, 33619
C/O:	Larry Oliver	COUNTY	Hillsborough
GRAY BLOCK PLANT	108 - TAMPA BLOCK	TAX EXEMPT	No
		DONATION	No

FREIGHT

Item #	Product Description	UOM	Total	Notes
98000682	Freight - Per Truck - Zone 1	LOAD	$224.68	0.5-10 miles
98000683	Freight - Per Truck - Zone 2	LOAD	$244.58	10.5-20 miles
98000684	Freight - Per Truck - Zone 3	LOAD	$279.48	20.5-30 miles
98000685	Freight - Per Truck - Zone 4	LOAD	$314.38	30.5-40 miles
98000686	Freight - Per Truck - Zone 5	LOAD	$349.28	40.5-50 miles
98000687	Freight - Per Truck - Zone 6	LOAD	$384.18	50.5-60 miles
98000688	Freight - Per Truck - Zone 7	LOAD	$419.08	60.5-70 miles
98000689	Freight - Per Truck - Zone 8	LOAD	$453.98	70.5-80 miles
98000690	Freight - Per Truck - Zone 9	LOAD	$446.80	80.5-90 miles
98000691	Freight - Per Truck - Zone 10	LOAD	$476.75	90.5-100 miles
98000692	Freight - Per Truck - Zone 11	LOAD	$531.70	100.5-110 miles
98000693	Freight - Per Truck - Zone 12	LOAD	$586.65	110.5-120 miles
98000694	Freight - Per Truck - Zone 13	LOAD	$621.60	120.5-130 miles
98000695	Freight - Per Truck - Zone 14	LOAD	$656.55	130.5-140 miles
98000696	Freight - Per Truck - Zone 15	LOAD	$691.50	140.5-150 miles
98000697	Freight - Per Truck - Zone 16	LOAD	$726.45	155.5-160 miles
98000698	Freight - Per Truck - Zone 17	LOAD	$771.40	
98000699	Freight - Per Truck - Zone 18	LOAD	$836.35	
98000700	Freight - Per Truck - Zone 19	LOAD	$921.30	
98000701	Freight - Per Truck - Zone 20	LOAD	$1,026.25	

Titan Florida LLC
455 Fairway, Deerfield Beach, Florida 33441
954-719-6590
www.titanamerica.com

We are pleased to submit the following quotation for concrete block and related products for:

PROJECT	Veolia SWTP Expansion	DATE	11/14/2024
CUSTOMER	CDM Smith	ISSUE DATE	11/14/2024
ACCOUNT #	0	END DATE	12/31/2024
CONTACT EMAIL	Oliverlr@cdmsmith.com	ADDRESS	2301 Regional Water Lane
PHONE	(407) 660 6410	CITY/STATE	Tampa, FL, 33619
C/O:	Larry Oliver	COUNTY	Hillsborough
GRAY BLOCK PLANT	108 - TAMPA BLOCK	TAX EXEMPT	No
		DONATION	No

ADDITIONAL NOTES & FEES

For non-stocked specialty gray, minimum orders are required. Consult with your sales representative for more details.

Freight Zone pricing is based on zip code to zip code caluclations.

Resale Items

Collecting:

It has been agreed that this donation will show as a separate line item on the invoice.

The donation is not taxable.

CONCRETE BLOCK TERMS AND CONDITIONS OF SALE

All sales will be subject to Titan's Terms and Conditions of Sale and, if buying on credit, to Buyer's credit agreement with Seller; each is incorporated herein by reference. All other terms, including any terms contained in Buyer's purchase order and any changes to these terms, are excluded unless expressly agreed to by Seller in writing.

Titan's Terms and Conditions of Sale include, but are not limited to, the following:

1. Payment Terms: Prompt pay discount of 1% is allowed if paid by net 10th proximo, otherwise, net 30th proximo. A finance charge at the lesser of 1.5% per month or the maximum legal rate will be assessed on past due balances. The quoted prices do not include any local, state, discretionary or federal taxes. Buyer is responsible for all applicable taxes.

2. Materials: Block quoted herein includes locally available materials. In the event local materials are not available the prices may be subject to change.

3. Hours of Operation: Block deliveries will be available from 7:00 am to 5:00 pm Monday through Friday. Saturday delivery may be requested but not guaranteed. Only orders that include a legal lot description or address maybe be considered for delivery.

4. Site Conditions: Buyer to provide reasonable access for product delivery. Any costs incurred due to poor site conditions causing undue delay in delivery will be a the expense of Buyer. Seller shall have no obligation to return any delivered materials unless the delivery was made incorrectly because of Seller's error.

5. Product Testing: All materials are produced to meet or exceed current ASTM C-90 specifications. Buyer acknowledges that the color and texture of materials delivered hereunder may vary slightly, however such discoloration shall not impact the performance of such product.

6. Limited Warranty: Buyer or Buyer's agent is solely responsible for ordering the proper type and quantity of goods purchased. Seller warrants that its products will meet or exceed applicable ASTM standards, when tested in accordance with ASTM standards. Seller will repair or replace any goods supplied by Seller that fail to meet this limited warranty, within one year after delivery thereof. Seller will uphold its warranty obligations under Florida statute 718.203, as applicable. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATIONS THE WARRANTIES OFMERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED. THE REMEDY SET FORTH IN THIS PARAGRAPH WILL CONSTITUTE THE SOLE REMEDY OF BUYER UNDER THIS LIMITED WARRANTY.

7. LIMITATION OF LIABILITY: SELLER WILL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, ANY DAMAGES RELATED TO DELAY, WHETHER BASED ON STATUTE, TORT, CONTRACT, OR OTHERWISE, AND WHETHER OR NOT ARISING FROM SELLER'S NEGLIGENCE, STRICT LIABILITY OR FAULT. IN NO EVENT WILL SELLER BE RESPONSIBLE FOR DAMAGE DUE TO THE ACTIONS OF OTHERS OR THE FAILURE OF BUYER TO COMPLY WITH ITS OBLIGATIONS. SELLER'S LIABILITY FOR ANY CLAIMS WILL BE LIMITED TO THE PURCHASE PRICE OF THE GOODS SOLD UNDER THIS CONTRACT.

8.Governing Law; Jurisdiction. All sales will be construed in accordance with the laws of the State of Florida. For all disputes relating to the sale of products quoted herein, Buyer hereby consents to the jurisdiction and venue of the state and federal courts for the location of the delivery site of the goods sold hereunder.

WARNING: CAUSES SKIN IRRITATION - INJURIOUS TO EYES.

CONTAINS PORTLAND CEMENT. FRESHLY MIXED CONCRETE MAY CAUSE SKIN IRRITATION OR INJURY. AVOID CONTACT WITH SKIN WHERE POSSIBLE. WASH EXPOSED AREAS PROMPTLY WITH WATER. IF ANY MIXTURES GET INTO THE EYE, RINSE IMMEDIATELY WITH WATER AND GET PROMPT MEDICAL ATTENTION. KEEP OUT OF REACH OF CHILDREN.

TITAN FLORIDA LLC REPRESENTATIVE

NAME _____ EMAIL _____

TITLE _____ PHONE _____

SIGNATURES

TITAN FLORIDA LLC REPRESENTATIVE

NAME (PRINT) _____ DATE _____

SIGNATURE _____

CDM Smith REPRESENTATIVE

NAME (PRINT) _____ DATE _____

SIGNATURE _____

Building Envelope

200.03 00 00 Building Envelope	OPCC	OPCC	SELECTED	CSI								
	$ 2,797,587.47		$ 2,797,587.47			INCOMPLETE					$ -	
Contact:						Ralph R. Boyce, III					Sub 2 Contact	
Phone:						813-247-1419					Sub 2 Phone	
Email:						Sub 4 Email					Sub 2 Email	
Submittals:						Sub 4 Submittals					Sub 2 Submittals	
Delivery:						Sub 4 Delivery					Sub 2 Delivery	
Package Scope:						Sub 4 Package					Sub 2 Package	
Is Minority:						Sub 4 Is Minority					Sub 2 Is Minority	
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount		QTY	Total Amount		QTY		Total Amount		
200.03 00 00 Building Envelope	2,742,733		2,742,733									
01-00-00.000 GENERAL CONDITIONS	2,032		2,032									
010 Ozone Generation Building 3	2,032		2,032									
01-00-00.000 GENERAL CONDITIONS Total	2,032		2,032									
02-00-00.000 EXISTING CONDITIONS	329,774		329,774									
052 Dry Chemical Feed Building 3 - Lime	326,067		326,067									
070 Solids Dewatering	3,706		3,706									
02-00-00.000 EXISTING CONDITIONS Total	329,774		329,774									
03-40-00.000 PRECAST CONCRETE	90		90									
052 Dry Chemical Feed Building 3 - Lime	90		90									
03-40-00.000 PRECAST CONCRETE Total	90		90									
03-60-00.000 GROUTING	8,111		8,111									
010 Ozone Generation Building 3	8,111		8,111									
03-60-00.000 GROUTING Total	8,111		8,111									
05-00-00.000 METALS	2,904		2,904									
052 Dry Chemical Feed Building 3 - Lime	2,904		2,904									
05-00-00.000 METALS Total	2,904		2,904									
05-12-00.000 STRUCTURAL STEEL	479,539		479,539									
052 Dry Chemical Feed Building 3 - Lime	479,243		479,243									
054 Coagulant Aid Polymer Building	296		296									
05-12-00.000 STRUCTURAL STEEL Total	479,539		479,539									
05-21-00.000 OPEN WEB STEEL JOIST	32,574		32,574									
010 Ozone Generation Building 3	18,223		18,223									
054 Coagulant Aid Polymer Building	14,351		14,351									
05-21-00.000 OPEN WEB STEEL JOIST Total	32,574		32,574									
05-30-00.000 METAL DECK	13,444		13,444									
052 Dry Chemical Feed Building 3 - Lime	13,444		13,444									
05-30-00.000 METAL DECK Total	13,444		13,444									
07-00-00.000 THERMAL & MOISTURE PROTECTION	391,267		391,267									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	439		439									
010 Ozone Generation Building 3	68,358		68,358									
017 Ozone Contactor Tank	285		285									
020 Filters	2,452		2,452									
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	959		959									
052 Dry Chemical Feed Building 3 - Lime	184,630		184,630									
053 Ferric Sulfate - South System Chemical Storage 2	939		939									
054 Coagulant Aid Polymer Building	133,204		133,204									
07-00-00.000 THERMAL & MOISTURE PROTECTION Total	391,267		391,267									
08-00-00.000 DOORS & WINDOWS	229,080		229,080									
010 Ozone Generation Building 3	43,256		43,256									
015 High Rate Flocculation/Sedimentation - Unit 5	28,538		28,538									
017 Ozone Contactor Tank	28,538		28,538									
020 Filters	18,688		18,688									
052 Dry Chemical Feed Building 3 - Lime	51,752		51,752									
054 Coagulant Aid Polymer Building	58,309		58,309									
08-00-00.000 DOORS & WINDOWS Total	229,080		229,080									
09-00-00.000 FINISHES	20,942		20,942									
010 Ozone Generation Building 3	5,324		5,324									
052 Dry Chemical Feed Building 3 - Lime	9,226		9,226									
054 Coagulant Aid Polymer Building	6,392		6,392									
09-00-00.000 FINISHES Total	20,942		20,942									
13-34-00.000 PRE-ENGINEERED STRUCTURES	86,000		86,000									
052 Dry Chemical Feed Building 3 - Lime	86,000		86,000									
13-34-00.000 PRE-ENGINEERED STRUCTURES Total	86,000		86,000									
21-11-00.000 FIRE PROTECTION PIPING	66,020		66,020									
010 Ozone Generation Building 3	37,120		37,120									
052 Dry Chemical Feed Building 3 - Lime	28,900		28,900									
21-11-00.000 FIRE PROTECTION PIPING Total	66,020		66,020									
22-00-00.000 PLUMBING	211,599		211,599									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	34,224		34,224									
010 Ozone Generation Building 3	31,283		31,283									
052 Dry Chemical Feed Building 3 - Lime	59,786		59,786									
054 Coagulant Aid Polymer Building	86,305		86,305									
22-00-00.000 PLUMBING Total	211,599		211,599									
23-00-00.000 HEATING, VENTILATING & AIR CONDITIONING	381,259		381,259									

010 Ozone Generation Building 3	216,653			216,653									
052 Dry Chemical Feed Building 3 - Lime	69,106			69,106									
054 Coagulant Aid Polymer Building	67,455			67,455									
070 Solids Dewatering	28,046			28,046									
23-00-00.000 HEATING, VENTILATING & AIR CONDITIONING Total	381,259			381,259									
31-23-00.000 EXCAVATION	126,750			126,750									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	13,015			13,015									
010 Ozone Generation Building 3	7,140			7,140									
015 High Rate Flocculation/Sedimentation - Unit 5	13,358			13,358									
017 Ozone Contactor Tank	34,671			34,671									
020 Filters	16,048			16,048									
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	3,660			3,660									
052 Dry Chemical Feed Building 3 - Lime	30,022			30,022									
053 Ferric Sulfate - South System Chemical Storage 2	3,382			3,382									
054 Coagulant Aid Polymer Building	4,395			4,395									
067 Belt Filter Press Feed Pump	1,059			1,059									
31-23-00.000 EXCAVATION Total	126,750			126,750									
31-23-23.000 TRENCHING & BACKFILLING	11,094			11,094									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	594			594									
015 High Rate Flocculation/Sedimentation - Unit 5	2,100			2,100									
052 Dry Chemical Feed Building 3 - Lime	8,400			8,400									
31-23-23.000 TRENCHING & BACKFILLING Total	11,094			11,094									
40-00-00.000 PIPE SPECIALTIES	236,679			236,679									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	2,088			2,088									
010 Ozone Generation Building 3	2,198			2,198									
020 Filters	217,116			217,116									
052 Dry Chemical Feed Building 3 - Lime	6,122			6,122									
054 Coagulant Aid Polymer Building	9,141			9,141									
070 Solids Dewatering	14			14									
40-00-00.000 PIPE SPECIALTIES Total	236,679			236,679									
40-05-17.000 COPPER PIPE	14,404			14,404									
010 Ozone Generation Building 3	4,797			4,797									
052 Dry Chemical Feed Building 3 - Lime	3,438			3,438									
054 Coagulant Aid Polymer Building	5,861			5,861									
070 Solids Dewatering	308			308									
40-05-17.000 COPPER PIPE Total	14,404			14,404									
40-05-19.000 DUCTILE IRON PIPE	*888.4*			*888.4*									
020 Filters	*888.4*			*888.4*									
40-05-19.000 DUCTILE IRON PIPE Total	*888.4*			*888.4*									
40-05-23.000 STAINLESS STEEL PIPE	54,236			54,236									
020 Filters	54,236			54,236									
40-05-23.000 STAINLESS STEEL PIPE Total	54,236			54,236									
40-05-51.000 VALVES	15,767			15,767									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	14			14									
010 Ozone Generation Building 3	14			14									
052 Dry Chemical Feed Building 3 - Lime	5,288			5,288									
054 Coagulant Aid Polymer Building	10,452			10,452									
40-05-51.000 VALVES Total	15,767			15,767									
40-42-00.000 MECHANICAL INSULATION	23,125			23,125									
005 Liquid Oxygen, Evaporators, Chillers & Pipe	5,024			5,024									
010 Ozone Generation Building 3	4,282			4,282									
052 Dry Chemical Feed Building 3 - Lime	5,394			5,394									
054 Coagulant Aid Polymer Building	8,425			8,425									
40-42-00.000 MECHANICAL INSULATION Total	23,125			23,125									
44-30-00.000 ODOR CONTROL	5,153			5,153									
010 Ozone Generation Building 3	3,882			3,882									
052 Dry Chemical Feed Building 3 - Lime	1,271			1,271									
44-30-00.000 ODOR CONTROL Total	5,153			5,153									
200.03 00 00 Building Envelope Total	2,742,733			2,742,733									
Shipping													
ESCALATION TO NTP													
SUBTOTAL	2,742,733			2,742,733				-					-
BOND Cost	$ 54,854.66	2.00%		$ 54,854.66	2.00%			$ -	Inc				
SALES TAX	Inc.			Inc.	7.50%			$ -	Inc				
OTHER	Inc.			Inc.									
TOTAL	$ 2,797,587.47			$ 2,797,587.47				$ -					$ -

Canopies

200.03 00 00 Canopies	Davis	OPCC		Davis	SELECTED	A.O Wagner Construction	
	$ 1,130,058.00		$ 2,255,220.00		$ 1,130,058.00		$ 859,475.00
Contact:							
Phone:							
Email:							
Submittals:							
Delivery:							
Package Scope:							
Is Minority:							

Packa	Area	ection	ement	Item	Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
200.03 00 00 Canopies								2,211,000				
					07-00-00.000 THERMAL & MOISTURE PROTECTION			2,211,000				
					015 High Rate Flocculation/Sedimentation - Unit			248,000				
					015.074000.81.00 Metal Canopy	218,100		248,000		218,100		
					015 High Rate Flocculation/Sedimentation - Unit 5 Tot			248,000				
					020 Ozone Contactor Canopy			160,000				
					020.074000.81.01 Metal Canopy @ Ozone Contactor Canopy			160,000				
					07-40-00.005.$ Metal Canopy @ Ozone Contactor Canopy	167,700	800.00 sf	160,000		167,700		
					020.074000.81.00 Metal Canopy @ Filters & Pipe Gallery Total			160,000				
					020 Filters Tota			160,000				
					020 Filters			1,803,000				
					020.074000.81.00 Metal Canopy @ Filters & Pipe Gallery	667,100		1,803,000		667,100		
					020 Filters Total			1,803,000				
200.03 00 00 Canopies Total								2,211,000				
					Galvanizing to Secondary Stee	55,000				55,000		55,000
					3 Canopies							804,475
					CUT							
					ADD							
					Shipping							
					ESCALATION TO NTP							
SUBTOTAL						1,107,900		2,211,000		1,107,900		859,475
BOND Cost						$ 22,158.00	2.00%	$ 44,220.00	2.00%	$ 22,158.00	Inc	
SALES TAX						$ -		Inc.	0.00%	$ -	Inc	
OTHER								Inc.				
TOTAL						$ 1,130,058.00		$ 2,255,220.00		$ 1,130,058.00		$ 859,475.00

November 25, 2024

Larry Oliver
CDM Smith
4010 Boy Scout Blvd #450
Tampa, FL 33607

Re: Tampa Bay Water / Veolia Regional Surface WTP Expansion - Canopies

Larry,

Davis Construction Enterprises, Inc. proposes to furnish Pre-Engineered Metal Building Systems at Filter Building, High Rate Flocculation and Ozone Generator Canopies per Plans and Specifications dated August 2024 (60% Submittal) Not for Construction and Specifications section B3419 – Metal Building System. Subject to Final 100% Drawings for Construction.

1. **FILTER BUILDING CANOPY** **$ 667,100.00***
2. **HIGH RATE FLOCCULATION CANOPY** **$ 218,100.00***
3. **OZONE CONTACTOR TANK CANOPY (20' X 40')** **$ 167,700.00***

***Exclusions*:**

1. Finish Painting
2. Furnishing or Setting of Anchor Bolts
3. Wall Systems
4. Roof Insulation or Vapor Barrier
5. Concrete Work Work
6. Trash Removal from site (CM/GC to Provide Dumpsters)
7. Service Walkways
8. Roof Curbs
9. Land Surveyor
10. Metal Soffits

Subject to Material Payment Terms

*** Material/steel costs may increase at any time. Final building price is based on date which building is submitted to manufacturer for "Production". "Approval/Permit" orders, prior to being released for "Production", are subject to price increases. Firm engineering/design, drawings, and delivery dates will only be provided after building is submitted and/or approved for "Production".**

Davis Construction Enterprises, Inc. appreciates the opportunity to provide you with this cost proposal and looks forward to working with you on this and future projects.

Sincerely,
DAVIS CONSTRUCTION ENTERPRISES, INC.

Mark J. Davis
President
MJD/gd

P24-060

955 Harbor Lake Ct. Ste B, Safety Harbor, FL 34695
727-797-3334 - 727-799-7220 Fax
Mark@DavisConstruction.net

General Contractor
State Certified
CGC047423

A.O. CONSTRUCTION
COMPANY, INC.

CDM Smith
4010 W. Boy Scout Blvd.
Tampa, FL 33607

November 21st, 2024

Ref: Pre-Engineered Metal Building (3) Canopies

Please accept this letter and attached information as our Proposal for the Pre-engineered metal building at your Tampa location. Below you will find the prices and qualifications attached.

Cost for all work reviewed and as detailed on the qualifications and attached scope of work below:

- **(3) Pre-Engineered Metal Canopies** **$ 804,475.00**
- **Option 1 (Hot dip galvanize)** **$ 55,000.00 (add)**

Qualifications:

- See attached scope of work.
- All work will carry a (1) year workmanship warranty.
- Daily cleanup of A.O. Construction is included in this proposal.
- Permitting and Engineering are **NOT** included in this proposal.
- Any additional site-specific training will result in additional money.
- Equipment required to erect PEMB's included.
- Proposal based on access to set up crane's for building erection.
- Seamer included.

Rest Assured, by choosing the A.O. Construction team the projects we are associated with will be completed on time, on budget and with the high standards of quality we have built our reputation on over the last 50 years. Please advise if it is possible to meet with your staff to further present our qualifications.

Sincerely,

Shane Railey

Shane Railey
Director of Pre-Construction

A.O. CONSTRUCTION
COMPANY, INC.

SCOPE:

1. **Metal Building-Whirlwind Steel Buildings**
   - **Project Loads and Codes**
     - **Roof live load: 20psf Reducible**
     - **Wind load: 159 mph**
     - **Occupancy Class: IV-Normal**
     - **Wind Exposure: C**
     - **Collateral Load: 5 psf**
     - **Building Code: FBC 23**
     - **Wind Condition-Open**
   - **(3) Canopies**
     - **Filter Canopy-93'6" x 91'6", Eave height front 33'-8 5/8"/back 31'9"**
     - **Filter Canopy 16-18-94'6" x 91'6", Eave height front 31'-4 ½"/back 29'-4 7/8"**
     - **High Rate Unit 5-36' x 30'7", Eave height front 34'9"/back 34'**
   - **Rigid end frames.**
   - **Super seam plus-24 gauge standing seam roofs. Galvalume finish.**
   - **Roof pitch: .25:12.**
   - **Primary frame members will be grey oxide primer.**
   - **Secondary frame members will be pre-galvanized.**
   - **Rod bracing in the side walls and roof.**
   - **Anchor bolts included.**
2. **Option 1**
   - **Hot dip galvanize framing members.**

NOTES:

- **The price is valid for 15 days.**
- **Price based upon work being performed during normal business hours.**
- **No painting of frames included.**

Metals Package

200.05 00 00 Misc Metals Package	Dixie Metals	OPCC		Dixie Metals	SELECTED
	$ 2,148,824.84		$ 1,698,231.75		$ 2,148,824.84
Contact:	Justin Case Smith				Justin Case Smith
Phone:	352-873-2554x304				352-873-2554x304
Email:	Justinsmith@dixiemetals.com				Justinsmith@dixiemetals.com
Submittals:	Sub 1 Submittals				Sub 1 Submittals
Delivery:	Sub 1 Delivery				Sub 1 Delivery
Package Scope:	Sub 1 Package				Sub 1 Package
Is Minority:	Sub 1 Is Minority				Sub 1 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount
200.05 00 00 Misc Metals Package	277,964		1,664,933		277,964
05-00-00.000 METALS Conveyor Supports & Expansion Bolts	189,657		189,657		189,657
010 Ozone Generation Building 3	0		888		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	0		761		0
053 Ferric Sulfate - South System Chemical Storage 2	0		254		0
057 Ferric Sulfate - North System Chemical storage	0		254		0
070 Solids Dewatering	0		187,500		0
05-00-00.000 METALS Total	0		189,657		0
05-12-00.000 STRUCTURAL STEEL	79,861		79,861		79,861
005 Liquid Oxygen, Evaporators, Chillers & Pipe	8,445		8,445		8,445
010 Ozone Generation Building 3	INC		12,710		INC
020 Filters	INC		46,640		INC
052 Dry Chemical Feed Building 3 - Lime	0		7,239		0
054 Coagulant Aid Polymer Building	0		4,826		0
05-12-00.000 STRUCTURAL STEEL Total	8,445		79,861		8,445
05-14-00.000 ALUMINUM	0		88,023		0
070 Solids Dewatering	0		88,023		0
05-14-00.000 ALUMINUM Total	0		88,023		0
05-50-00.000 METAL FABRICATIONS	0		1,307,392		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	0		132,551		0
010 Ozone Generation Building 3	0		7,174		0
015 High Rate Flocculation/Sedimentation - Unit 5	0		276,171		0
017 Ozone Contactor Tank	0		150,341		0
020 Filters	0		324,674		0
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids	0		10,798		0
052 Dry Chemical Feed Building 3 - Lime	0		51,933		0
053 Ferric Sulfate - South System Chemical Storage 2	0		3,599		0
054 Coagulant Aid Polymer Building	0		17,321		0
057 Ferric Sulfate - North System Chemical storage	0		3,599		0
070 Solids Dewatering	0		329,230		0
05-50-00.000 METAL FABRICATIONS Total	0		1,307,392		0
200.05 00 00 Misc Metals Package Total	88,306		1,664,933		88,306
	1,083,674				1,083,674
Budget to install Above Scope	644,933		644,933		644,933
offset budget to install above Scope			-644,933		
Shipping					
ESCALATION TO NTP					
SUBTOTAL	2,006,571		1,664,933		2,006,571
BOND Cost	$ 40,131.41	2.00%	$ 33,298.66	2.00%	$ 40,131.41
SALES TAX	$ 102,122.82		Inc.	7.50%	$ 102,122.82
OTHER			Inc.		
TOTAL	$ 2,148,824.84		$ 1,698,231.75		$ 2,148,824.84

DIXIE
metal products inc.

442 SW 54TH COURT
OCALA, FL 34474
TELEPHONE: (352) 873-2554

1967 - 2024
Celebrating 57 Years of Excellence!

QUOTATION: Q2510-01

We propose to furnish (and/or install, if indicated) the following materials as listed below, all F.O.B. job site. Terms: Net 30 days. All orders subject to acceptance by our Credit Department. We cannot be responsible for delayed installation or delivery due to strikes, delays of carriers, or other causes beyond our control. All quotations are made for prompt acceptance. All prices are subject to review and revision after 30 days, or if

Date: November 15, 2024

Re.: **VEOLIA SURFACE WATER TREATMENT PLAN**
2301 REGIONAL WATER LANE
TAMPA , FL 33619

To: **CDM SMITH**
101 SOUTHHALL LN.
MAITLAND, FL 32751

Attn.: **LARRY OLIVER**
407-660-6410
oliverlr@cdmsmith.com

Spec. **050519 POST Installed Anchors**
052100 Steel Joist
053100 Steel deck
055000 METAL FABICATION
055119 METAL GRATING STAIRS
055200 METAL RAILINGS
055313 METAL GRATING

We propose the following scope of work for fabrication and delivery (only), based on the specifications listed ab as well as the bid documents and drawings:

Sections: **Civil, Structural, Mechanical, Arcitectural**
Date: **AUG 2024**
Revision: **0**
Addenda: **1**

Sheet	Item	Description	Qty.	Del/Inst.
		OZONE GENERATOR BUILDING		
A-8	1	STEEL BOLLARDS **GALVANIZED**	6 REQ	DLVR
A-8 SD-5 K	2	ALUMINUM ROOF ACCESS LADDER **MILL/MASTIC**	1 REQ	DLVR
S-15,16 SD-7 A,B,C,D,E	3	BAR-JOIST AND DECKING **SHOP PRIMED**	2100 SF	DLVR
S-15,16 SD-7	4	JOIST BEARING PLATES	34 REQ	DLVR

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Project: VEOLIA SURFACE WATER TREATMENT PLANT

A		**MILL**		
S-15,16 SD-7 A,B,C,D	5	STEEL DECKING SUPPORT ANGLE **GALVANIZED**	130 LF	DLVR
S-15,16 SD-7 C,D	6	STEEL TIE BACK ANGLES **SHOP PRIMED**	16 REQ	DLVR
S-15 SD-7 E	7	STEEL SUPPORT FRAMES AT DECK OPENINGS **GALVANIZED**	4 REQ	DLVR
AD-1 AD-2 C	8	L4X6X1/4" STEEL SILL ANGLES **GALVANIZED**	3 REQ	DLVR
S-14 SD-4 D	9	ALUMINUM SUMP GRATING AND SUPPORTS **MILL/MASTIC**	22 SF	DLVR
		HIGH RATE FLOC/SED		
S-3 SD-4 A	10	2-LINE ALUMINUM GUARDRAIL EL:37.10 **MILL/MASTIC**	30 LF	DLVR
S-4 SD-6 1,2,A-H	11	ALUMINUM ACCESS STAIRS TYPE-T2 **MILL/MASTIC**	42 RS	DLVR
S-4 SD-4 A	12	2-LINE ALUMINUM STAIR RAIL WITH GRAB. **ANODIZED**	113 LF	DLVR
S-4 SD-4 D	13	ALUMINUM GRATING SUPPORT EMBED **MILL/MASTIC**	86 LF	DLVR
S-4 SD-4 D	14	1.5" FLOOR GRATING **MILL**	140 SF	DLVR
S-4 SD-4 A	15	2-LINE ALUMINUM GUARDRAIL EL:60.76 **ANODIZED**	325 LF	DLVR
S-4 S-8 PLAN WALKWAY	16	STEEL WALKWAY SYSTEM **GALVANIZED**	3 TON	DLVR
S-4 SD-1 K	17	ALUMINUM NOSING AT CONCRECT STEPS **MILL/MASTIC**	4 REQ	DLVR
		OZONE CONTACTOR TANK TRAIN-5		

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S-11 SD-4 D	18	ALUMINUM GRATING SUPPORT EMBED **MILL/MASTIC**	24 LF	DLVR
S-110 SD-4 D	19	2" FLOOR GRATING **MILL**	35 SF	DLVR
S-11 SD-5 D-F	20	ALUMINUM COVER PLATES **MILL/MASTIC**	3 REQ	DLVR
S-11 SD-4 A	21	2-LINE ALUMINUM HANDRAILS AT CONCRETE STEPS **ANODIZED**	8 REQ	DLVR
S-11 SD-4 A	22	2-LINE ALUMINUM GUARDRAIL **ANODIZED**	334 LF	DLVR
S-18 SD-1 K	23	ALUMINUM NOSING AT CONCRECT STEPS **MILL/MASTIC**	4 REQ	DLVR
		LIQUID OXYGEN STORAGE		
S-17 SD-6 G	24	ALUMINUM CROSSOVER SHIPS LADDERS **MILL/MASTIC**	2 REQ	DLVR
		COAGULANTAID POLYMER BUILDING		
S-18 SD-4 D	25	ALUMINUM SUMP GRATING **MILL/MASTIC**	1 REQ	DLVR
S-19 SD-7 A,B,C,D,E	26	BAR-JOIST AND DECKING **SHOP PRIMED**	1515 SF	DLVR
S-19 SD-7 A	27	JOIST BEARING PLATES **MILL**	30 REQ	DLVR
S-19 SD-7 A,B,C,D	28	STEEL DECKING SUPPORT ANGLE **GALVANIZED**	174 LF	DLVR
S-19 SD-7 C,D	29	STEEL TIE BACK ANGLES **SHOP PRIMED**	12 REQ	DLVR
S-19 SD-7 E	30	STEEL SUPPORT FRAMES AT DECK OPENINGS **GALVANIZED**	1 REQ	DLVR

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S-20 SD-5 K	31	ALUMINUM ROOF ACCESS LADDER **MILL/MASTIC**	1 REQ	DLVR
AD-1 AD-2 C	32	L4X6X1/4" STEEL SILL ANGLES **GALVANIZED**	2 REQ	DLVR
		FILTERS 16 - 18		
S-21 SD-4 A	33	HANDRAILS AT CONCRETE STEPS **ANODIZED**	20 LF	DLVR
S-21 SD-1 K	34	ALUMINUM NOSING AT CONCRECT STEPS **MILL/MASTIC**	6 REQ	DLVR
S-22 SD-5 D-F	35	ALUMINUM COVER PLATES **MILL/MASTIC**	2 REQ	DLVR
S-23 SD-4 F	36	W12X40 STEEL SUPPORT BEAMS **GALVANIZED**	11 REQ	DLVR
S-23 SD-6 1,2,A-H	37	ALUMINUM ACCESS STAIRS **MILL/MASTIC**	28 REQ	DLVR
S-23 SD-4 A	38	2-LINE ALUMINUM STAIR RAIL WITH GRAB. **ANODIZED**	90 LF	DLVR
S-23 SD-4 A	39	2-LINE ALUMINUM GUARDRAIL **ANODIZED**	890 LF	DLVR
		DRY CHEMICAL FEED BUILDING #3		
S-27 SD-4 D	40	ALUMINUM GRATING SUPPORT EMBED **MILL/MASTIC**	32 LF	DLVR
S-27 SD-4 D	41	1.5" FLOOR GRATING **MILL**	32 SF	DLVR
S-27 SD-4 D	42	ALUMINUM SUMP GRATING **MILL/MASTIC**	4 SF	DLVR
AD-1 AD-2 C	43	L4X6X1/4" STEEL SILL ANGLES **GALVANIZED**	1 REQ	DLVR
S-28 SD-4	44	STRUCTURAL STEEL FRAMING	8 TON	DLVR

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Project: VEOLIA SURFACE WATER TREATMENT PLANT

F		**GALVANIZED**		
S-28 SD-7 A	45	1.5 TYPE-B 18GA STEEL DECKING **GALVANIZED**	1020 SF	DLVR
M-45 SD-6 1,2,A-H	46	ALUMINUM ACCESS STAIRS EL: 34.10 TO 44.09 **MILL/MASTIC**	18 RS	DLVR
M-45 SD-4 A	47	2-LINE ALUMINUM STAIR RAIL WITH GRAB. **ANODIZED**	60 LF	DLVR
S-28 SD-5 K	48	ALUMINUM ACCESS LADDER W/ MID LANDING TO EL:72.43 **MILL**	38 LF	DLVR
S-28	49	3'X3' SURFACE MOUNT ACCESS HATCH **MILL**	1 REQ	DLVR
		SOLIDS DEWATERING BUILD #1		
S-34 S-34 1,2	50	2" ALUMINUM GRATING AND SUPPORTS **MILL/MASTIC**	1000 SF	DLVR
		SOLIDS DEWATERING BUILD #2		
S-36 S-36 1,2	51	2" ALUMINUM GRATING AND SUPPORTS **MILL/MASTIC**	772 SF	DLVR
	52	**GENERAL CONDITIONS**		

TOTAL: $ 1,083,674.00 PLUS TAX

(ITEMS 1 THROUGH 52)

Notes:

A - ALL LISTED ITEMS ARE F.O.B JOBSITE. UNLOADING AND INSTALLATION ARE BY OTHERS.

B - ABOVE PRICE DOES NOT INCLUDE SALES TAX.

C - ABOVE PRICE SUBJECT TO REVIEW AFTER 30 DAYS.

D - FIELD MEASUREMENTS BY OTHERS.

E - DESIGN CALCULATIONS, ENGINEERS SIGNED AND SEALED DRAWINGS ARE NOT INCLUDED.

F - ALL ITEMS DELIVERED ONLY IN TRUCKLOAD QUANTITIES.

G - ALL RAILINGS QUOTED AS DIXIE METAL PRODUCTS STANDARD POP RIVET, COMPONENT SYSTEM, WITH 2-HOLE BASE, SHIPPED SUB-ASSEMBLED EXCEPT STAIR RAILINGS (SHOP ASSEMBLED).

H - ALL LISTED QUANTITIES ARE APPROXIMATE AND ARE DETERMINED THROUGH DMP BEST INTERPRETATIONS OF THE PROVIDED INFORMATION. DMP RESERVES THE RIGHT TO ADJUST QUANTITIES AND RELATED PRICING TO REFLECT ACTUAL REQUIREMENTS.

I - IN THE EVENT OF SIGNIFICANT DELAY OR PRICE INCREASE OF MATERIAL, EQUIPMENT, OR ENERGY OCURRING DURING THE PERFORMANCE OF A CONTRACT, THROUGH NO FAULT OF *DIXIE METAL PRODUCTS, INC.*, THE CONTRACTED SUM, TIME OF COMPLETION, AND/OR CONTRACT REQUIREMENTS SHALL BE EQUITABLY ADJUSTED VIA CHANGE ORDER, IN ACCORDANCE WITH THE PROCEDURES OF THE CONTRACT DOCUMENTS. A CHANGE IN PRICE OF AN ITEM OF MATERIAL, EQUIPMENT, OR ENERGY WILL BE CONSIDERED SIGNIFICANT WHEN THE PRICE OF AN ITEM INCREASES 5.0% OR MORE BETWEEN THE DATE OF THE CONTRACT AND THE DATE OF THE SHIPMENT.

J - ANY ENGINEERING THAT MAY BE REQUIRED FOR HYBRID MATERIAL SYSTEMS AND ITEMS WILL BE BY OTHERS.

K - ANY FABRICATED PIPE SUPPORTS LISTED IN DMP QUOTE ARE FOR DIVISION 5 METALS ONLY. EXCLUDES ALL PRE-MANUFACTURED SADDLES, ATTACHMENTS, AND DIVISION 15 SUPPORTS OF ANY KIND.

L - PLEASE NOTE THAT THE EXTENT OF SHOP ASSEMBLY ON LARGER ITEMS CAN BE LIMITED DUE TO GALVANIZING OR ANODIZING TANK SIZE DETERMINED AT TIME OF BID, ADDITIONAL COSTS TO ACCOMMODATE THESE CONDITIONS ARE NOT INCLUDED IN THE BASE BID PRICE.

M - ANY SPECIFIED MATERIALS THAT MUST BE PROCURRED THROUGH A THIRD-PARTY VENDOR THAT REQUIRES IMMEDIATE PAYMENT WILL REQUIRE AN ADVANCE BILL PURCHASE & PAYMENT BY CUSTOMER.

N - QUOTED PRICE IS BASED ON A COMPLETE SCOPE PACKAGE. ANY BREAKOUT PRICES OFFERED ARE PART OF THE TOTAL PACKAGE PRICE AND ARE NOT VALID AS INDIVIDUAL PURCHASE PRICES. ANY SCOPE DELETIONS RESULTING FROM OFFERED BREAKOUTS WILL IMPACT THE OVERALL COST OF THE QUOTED REMAINING SCOPE AND DMP WILL ADJUST PRICE ACCORDINGLY.

O - COST OF PAYMENT, PERFORMANCE, AND/OR MATERIAL SUPPLY BONDS IS NOT INCLUDED IN DMP PRICE.

P - COST OF THIRD-PARTY SHOP INSPECTIONS IS NOT INCLUDED IN DMP PRICE.

Q - QUOTE IS LIMITED TO THE SPECIFICALLY LISTED ITEMS.

Exclusions:

1 - ANCHORING SYSTEM, FILL, AND LEVELING GROUTS.

2 - DECK AND SOFFIT SUPPORTS

3 - SHOP PRIME OF GALVANIZED ITEMS.

4 - INTERMEDIATE AND FINISH PAINT COATINGS.

5 - INORGANIC BASED PRIMERS.

6 - ALL HILTI MANUFACTURED PRODUCTS.

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Project: VEOLIA SURFACE WATER TREATMENT PLANT

7 - EQUIPMENT BASES, SUPPORTS, ANCHORS, AND ATTACHMENTS FOR NON-MISCELLANEOUS METAL TRADES.

8 - CAST IRON AND DUCTILE IRON PRODUCTS.

9 - ALL NON-METALLIC MATERIALS.

10 - ALL FIBERGLASS, NEOPRENE, TEFLON, EPOXY, AND ANTI-SIEZE PRODUCTS.

11 - ATTACHMENT FASTENERS FOR FIBERGLASS PRODUCTS.

12 - MATERIALS FOR MODIFICATION OF EXISTING RAILINGS.

13 - TEMPORARY RAILINGS AND RELATED PRODUCTS.

14 - EMBEDS AND CONNECTION PLATES IN PRECAST CONCRETE.

15 - CHAIN LINK AND ORNAMENTAL FENCING SYSTEMS.

16 - ASCE RAILS AT BRIDGE CRANES.

17 - ANY MATERIALS NOT SPECIFICALLY LISTED IN OUR QUOTE.

REGARDS,

JUSTIN CASE SMITH
Director of Project Management
(352) 873-2554 x304
JUSTINSMITH@DIXIEMETALS.COM

AISC CERTIFIED FABRICATOR

AWS CWF CERTIFIED WELDING FABRICATOR®

TERMS & CONDITIONS
DIXIE METAL PRODUCTS, INC.

It is agreed that these terms and conditions shall be and are an integral part of the contract between the parties and the below provisions are incorporated and made a part of any agreement between the parties thereof; that the provisions of these terms and conditions shall govern the conduct of the parties herein and if there are any conflicts between the provisions of these terms and conditions and the provisions of any agreement between the parties, it is agreed and understood by the parties that these terms and conditions shall control.

1. Dixie Metal Products, Inc. will not be responsible for damaged material, delayed installation, or delayed deliveries, due to strikes, material shortages, lost shipments, delays of carriers, Acts of God, delays caused by General Contractor or other Subcontractors, or causes beyond our control. Under no circumstances shall Dixie Metal Products, Inc. be responsible for any type of delay damages, loss of profits and/or any other types of Consequential damages.

2. Dixie Metal Products, Inc. assumes no responsibility for conformance with any building code requirements that conflict with the contract documents or are omitted from the architectural and structural plans and specifications. Further, any design considerations that require calculations or an engineers seal on drawings shall be by others.

3. Dixie Metal Products, Inc. reserves all rights under the General Contractor's Payment and Performance Bond and the lien laws of the applicable state or Federal Law. In the event Dixie completes its work as set forth in the applicable agreement and/or purchase order between the parties, performed and corrected all punch list work, submitted close out documents as may be required by the agreement and/or purchase order and Contractor has not made final payment to Dixie within 90 days of the above conditions having been met, Dixie shall be entitled to recover its reasonable attorney's fees and costs should it institute legal proceedings, including but not limited to arbitration or administrative hearings, to collect on any outstanding balance owed.

4. This contract and the rights obligations, and remedies of the parties hereunder shall be governed in all respects by the laws of the State of Florida. Any and all disputes arising directly or indirectly from such transactions and which cannot be resolved by pre suit meditation shall be resolved exclusively in the courts of Marion County Florida. However, it is expressly understood that mediation shall not be a condition precedent to filing any legal action as provided for under this paragraph.

5. All extra work authorized verbally or in writing by the General Contractor, or his representative, will be priced at Dixie Metal Products, Inc. existing billing rates at the time the work is performed and will be included in the applicable monthly requisition for payment. Change orders shall be considered authorized and approved if requested by any individual employed by general contractor at the time the request is made. Such individual shall be deemed a fully authorized representative of the general contractor. Change order payments shall not be contingent on payment received by the general contractor or construction manager.

6. No work shall be back charged to Dixie Metal Products, Inc. unless Dixie Metal Products, Inc. has been given at least 72 hours written notice to cure the back charges approved by Dixie Metal Products, Inc.

7. Dixie Metal Products, Inc. will not be responsible for supplying any temporary facilities and responsibility will rest with the General Contractor.

8. It is understood that monthly progress payments shall include the value of material delivered and stored on site.

9. Purchased material in storage at the fabricator's premises is to be paid in full within the next and subsequent monthly requisition invoices, if accompanied by a formally itemized bill of sale, with proper fire, vandalism and theft insurance coverage, with the owner as beneficiary. Materials used will be of good quality.

10. Monthly requisitions are due and payable by the 15th of the following month. Any requisition not paid by this date could cause production delays until such payment is received. At the time of payment the remaining work will be rescheduled for production.

11. All invoices are due and payable at our office in Ocala, Marion County, Florida.

12. Retainage at no time shall be greater than ___0___ % (10% if left blank). Retainage withheld from payments shall be reduced to the same extent as the percent withheld from the Contractor. Within 60 days after complete performance of this Subcontract by Dixie Metal Products, Inc. the Contractor shall pay Subcontractor the retainage balance. This final payment shall not be held for any reason whatsoever, unless directly caused by this Subcontractor.

13. Dixie Metal Products, Inc. agrees to indemnify and hold harmless only the contractor by reason of the work performed under this contract, and only to the extent that the contractor is not negligent or other wise responsible for the acts for which indemnity is sought. If materials are deleted after shop drawings have been prepared we can only offer a credit of approximately 85% of the scheduled value. Once materials have been purchased or fabrication has commenced, no credit can be issued and Contractor agrees to pay in full for the materials.

14. Schedule of Insurance - Dixie Metal Products, Inc. shall provided the following insurance.

    Workmen's Compensation as required by law.

Public Liability	- Each Occurrence	$5,000,000.00
	- Aggregate	$5,000,000.00
Property Damage	- Each Occurrence	$5,000,000.00
	- Aggregate	$5,000,000.00

15. Any insurance requirements pertaining to this Subcontract that exceed these stated amounts will be provided by the subcontractor and paid for by the Contractor when the insurance is obtained.

16. Payment and/or performance bond, if required, will be provided by Dixie Metal Products, Inc. and paid for by General Contractor/ Developer.

17. All guarantees and/or warranties are limited to one year from the date of delivery and/or completion of Dixie Metal Products, Inc. work., whichever applies.

18. The material costs component of this agreement and/or purchase order has been calculated based on current market prices for steel and aluminum materials. However, these prices are volatile, and sudden price increases or lack of available inventory may occur during performance of this agreement and/or purchase order. Should after execution of this agreement and/or purchase order an increase in the costs of materials and/or a lack of available materials occur, Buyer hereby agrees that Seller shall be entitled to an equitable adjustment to the agreement and/or purchase order price and/or time of performance. Any claim by Seller for an equitable adjustment in price and/or time shall be made pursuant to materials adjustment notice to Buyer

DMP – Signature / Title _____ Buyer – Signature / Title _____

Date: _____ Date: _____

Paint & Coatings Package

200.09 96 79 Paint and Coatings	Exceltech	OPCC		Exceltech	SELECTED	SUB 2	
	$ 964,028.15		$ 1,199,593.50		$ 964,028.15		$ -
Contact:	Nolan Schaubert			Nolan Schaubert			Sub 2 Contact
Phone:	813-267-5355			813-267-5355			Sub 2 Phone
Email:	nolan@excelcoatings.com			nolan@excelcoatings.com			Sub 2 Email
Submittals:	Sub 1 Submittals			Sub 1 Submittals			Sub 2 Submittals
Delivery:	Sub 1 Delivery			Sub 1 Delivery			Sub 2 Delivery
Package Scope:	Sub 1 Package			Sub 1 Package			Sub 2 Package
Is Minority:	Sub 1 Is Minority			Sub 1 Is Minority			Sub 2 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
200.09 96 79 Paint and Coatings	26,880		173,482		26,880		0
09-00-00.000 FINISHES	26,880		173,482		26,880		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	0		1,174		0		0
010 Ozone Generation Building 3	0		33,427		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	0		4,276		0		0
017 Ozone Contactor Tank	0		7,834		0		0
020 Filters	0		38,452		0		0
052 Dry Chemical Feed Building 3 - Lime	0		57,149		0		0
054 Coagulant Aid Polymer Building	18,597		18,597		18,597		0
055 Yard Pipe	8,283		8,283		8,283		0
067 Belt Filter Press Feed Pump	0		698		0		0
070 Solids Dewatering	0		3,593		0		0
09-00-00.000 FINISHES Total	26,880		173,482		26,880		0
200.09 96 79 Paint and Coatings Total	26,880		173,482		26,880		0
Paint & Coatings	750,921		900,000		750,921		
Paint Filter Canopy	90,090	9,009.00 sf	90,090		90,090		
Paint Flocculation Canopy	12,500	1,250.00 sf	12,500		12,500		
CUT							
ADD							
Shipping							
ESCALATION TO NTP							
SUBTOTAL	880,391		1,176,072		880,391		-
BOND Cost	$ 17,607.82	2.00%	$ 23,521.44	2.00%	$ 17,607.82	2.00%	$ -
SALES TAX	$ 66,029.33		Inc.	7.50%	$ 66,029.33	7.50%	$ -
OTHER			Inc.				
TOTAL	$ 964,028.15		$ 1,199,593.50		$ 964,028.15		$ -

Exceletech Coatings Applications, LLC

Fax Bid Form

To: **Larry Oliver**

Company: **CDM Smith**

Fax #: _____ Phone #: 407/660-6410

From: **Nolan Schaubert** Direct Phone: 813/267-5355 Email: Nolan@excelcoatings.com

Bid Date 4-Dec-24 2:00 PM Submitted Date 4-Dec-24

Project: **Veolia Surface WTP Expansion 60%**

Division	Description of Work (Listed by Area)	Amount
9900 - Painting,	New Ozone Generator Building, Area	$50,288
9900 - Painting,	New South Lime Building, Area	$200,449
9900 - Painting,	New North Polymer Building, Area	$45,494
9900 - Painting,	New Filter Building, Area	$183,059
9900 - Painting,	Flocculation/Sedimentation Train Unit 5, Area	$54,420
9900 - Painting,	Ozone Contactor Tank Train 5, Area	$53,801
9900 - Painting,	Liquid Oxygen Storage & Feed, Area	$5,460
9900 - Painting,	South System Chemical Storage 2, Area	$5,295
9900 - Painting,	Sodium Hypochlorite Storage, Area	$5,294
9900 - Painting,	Solid Dewatering Building #1, Area	$26,043
9900 - Painting,	Gravity Thickener 3 PS, Area	$10,572
9900 - Painting,	Solids Dewatering Building 2, Area	$21,049
9900 - Painting,	Gravity Thickener Influent Mix Chamber, Area	$7,401
9900 - Painting,	New Backwash Water Piping	$57,419
General Conditions, Submittals & Mobilization		$24,877
Bond Cost (If Needed)		
	TOTAL PROPOSED AMOUNT	**$750,921**

	Yes	No		Yes	No
Bonds Included?		XX	Materials & Labor	XX	
Sales Tax Included?	XX		Labor Only		XX
Per Plans & Specs?	XX		Terms 2% NET 10, NET 15	XX	
Certified MBE or WBE?		XX	Retainage Held @ 5%	XX	
Visited Job-Site?		XX	Crew Days		

221 N Hwy 27 Suite I Clermont, Florida 34711 Phone (352) 394-2155 Fax (352) 394-5422

Confidential

Exceletech Coatings Applications, LLC

Project Scope of Work

Estimator : Nolan Schaubert
Phone # 813 / 267-5355

Provided herein is the scope of work that Exceletech Coating. intends to perform on the

Veolia Surface WTP Expansion 60%

Please review the items listed to ensure that our interpretation of the project documents will meet the needs of your proposal.
This confidential information is not intended for distribution. Please acknowledge receipt and contact us if there is any conflicts.

New Ozone Generator Building, Area	Division / System	Notes
Masonry Interior CMU, New CMU Walls Room Z-101		
Masonry Interior CMU, New CMU Walls Room Z-100		
Concrete Interior, New Floor Room Z-101		
Concrete Interior, New Floor Room Z-100		
Metal (P&E) Interior, New DI Piping		
Metal (Struct) Metal Doors & Frame, Door # DZ-100C		

New South Lime Building, Area	Division / System	Notes
Masonry Interior CMU, New CMU Walls Room CH-102		
Masonry Interior CMU, New CMU Walls Room CH-101		
Metal (Struct) Interior, Steel Framing		
Concrete Interior, Room CH-101 Floor		
Concrete Interior, Room CH-102 Floor		
Metal (P&E) Interior, New 4" DI Piping		

New North Polymer Building, Area	Division / System	Notes
Masonry Interior CMU, Room PS-101 CMU walls		
Masonry Interior CMU, Room PS-102 CMU walls		
Masonry Interior CMU, Room PS-103 CMU walls		
Concrete Interior, Room PS-101 Floor		
Concrete Interior, Room PS-102 Floor		
Concrete Interior, Room PS-103 Floor		
Metal (P&E) Interior, New DI piping		

New Filter Building, Area	Division / System	Notes
Masonry Interior CMU, Room F-101 CMU walls		
Concrete Interior, Room F-101 Concrete walls		
Concrete Interior, Room F-101 Floor		
Metal (Struct) Exterior, Filter Gallery Steel Beams		
Metal (P&E) Exterior, Filter Gallery New DI Piping		
Metal (P&E) Exterior, New 48" /20" DI Piping		
Concrete Exterior, New Concrete Walls		Steel Canopy Not included, By Others

Flocculation/Sedimentation Train Unit 5, Area	Division / System	Notes
Metal (P&E) Exterior, New DI Piping		
Concrete Exterior, Exterior Concrete Walls		

Ozone Contactor Tank Train 5, Area	Division / System	Notes
Metal (P&E) Exterior, New DI Piping		
Concrete Exterior, Concrete Walls		

Liquid Oxygen Storage & Feed, Area	Division / System	Notes
Metal (P&E) Exterior, New DI Piping		

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Exceletech Coatings Applications, LLC

South System Chemical Storage 2, Area	Division / System	Notes
Concrete Exterior, New Exterior Walls		

Sodium Hypochlorite Storage, Area	Division / System	Notes
Concrete Exterior, New Exterior Walls		

Solid Dewatering Building #1, Area	Division / System	Notes
Metal (P&E) Interior, New DI piping		
Metal (Struct) Exterior, New C6X4.50 Steel		

Gravity Thickener 3 PS, Area	Division / System	Notes
Metal (P&E) Exterior, New DI Piping		

Solids Dewatering Building 2, Area	Division / System	Notes
Metal (Struct) Exterior, New C6X4.50 Steel		
Metal (P&E) Interior, New DI piping		

Gravity Thickener Influent Mix Chamber, Area	Division / System	Notes
Metal (P&E) Exterior, New DI Piping		

New Backwash Water Piping	Division / System	Notes
Metal (P&E)- , New DI Piping		

Exclusions/Notes:

Proposal is based on a 40-hour workweek,
Electricity and Water shall be supplied by others,
Blast Media shall remain on ground,
All Metals are to be prepared and shop primed by others,
Exclude Aluminum in contact with concrete,
Exclude all Manholes unless stated above,
Exclude all labels other than stencils and self-adhesive pipe markers ,
Exclude all pipe interiors,
Exclude all tank floors/bottom unless otherwise stated,
All water retaining structures shall be clean and maintained dry by others,
All crane lifts and assistance with unloading materials and equipment shall be provide by others,
Exclude FRP Ducts, PVC Piping & Fire Piping,
Payments beyond 45 days is subject to a 1.5% Fee,
This proposal and work scope shall become part of the contract and any unlisted work shall be done on a change order,
Guarantee shall be 1 year from date of acceptance not to exceed 18 months from date of installation,
Bid price based on Davis Bacon Wages ,
Exclude all below grade pipe,
Exclude all lead and asbestos abatement ,
All damaged/abraded field welded and beyond maximun re-coat window items that were shop/factory pre-finished will, be repaired on a T&M basis,
if factory/shop primed items are noncompatible with the specified paint system, the barrier coat or removal and reprime, shall be done on a T&M basis,
No Enviroment Controls,weather has not been included. Ambient and Substate Temperature must be within manufacturers , products data sheets,
Pricing for Long-Term Project may be increase due to materials,,

221 N Hwy 27 Suite I Clermont, FL 34711 Phone (352) 394-2155 Fax (352) 394-5422

Sitework Package

200.31 00 00 Sitework	Kimmins	OPCC		Kimmins	SELECTED
	$ 4,881,443.06		$ 3,683,657.34		$ 4,881,443.06
Contact:	Thomas P. Butler				Thomas P. Butler
Phone:	727-773-5838				727-773-5838
Email:	tbutler@kimmins.com				tbutler@kimmins.com
Submittals:	Sub 1 Submittals				Sub 1 Submittals
Delivery:	Sub 1 Delivery				Sub 1 Delivery
Package Scope:	Sub 1 Package				Sub 1 Package
Is Minority:	Sub 1 Is Minority				Sub 1 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount
200.31 00 00 Sitework	3,070,150		1,750,002		3,070,150
065 Sitework - Erosion Control	273,567		38,963		273,567
065 Sitework - Erosion Control	273,567		38,963		273,567
065.412500.78.00 Erosion control	273,567		38,963		273,567
065 Sitework Total	273,567		38,963		273,567
065 Sitework - Erosion Control Total	273,567		38,963		273,567
31-00-00.000 EARTHWORK- Supply/Install Geocells	287,160		287,160		287,160
065 Sitework - Supply/Install Geocells	287,160		287,160		287,160
065.312300.81.00 Over Excavation (5ft) & Backfill Slab Footprint - @ High Rate Clarifier	30,750		30,750		30,750
065.312300.81.10 Over Excavation (5ft) & Backfill to Grade - @ Ozone Contactor	51,975		51,975		51,975
065.312300.81.15 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Storage Pad	8,910		8,910		8,910
065.312300.81.16 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Heat Exchangers	5,445		5,445		5,445
065.312300.81.20 Over Excavation (5ft) & Backfill Slab Footprint - @ Sodium Hypo Containment Pads	22,770		22,770		22,770
065.312300.81.25 Over Excavation (5ft) & Backfill Slab Footprint - @ Filter Basins & Pipe Gallery	98,010		98,010		98,010
065.312300.81.30 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Chem Feed Bldg 3	29,700		29,700		29,700
065.312300.81.35 Over Excavation (5ft) & Backfill Slab Footprint - @ Ozone Generator BLDG	19,800		19,800		19,800
065.312300.81.40 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Polymer BLDG	19,800		19,800		19,800
065 Sitework Total	287,160		287,160		287,160
31-00-00.000 EARTHWORK Total	287,160		287,160		287,160
31-20-00.000 EARTH MOVING	532,958		448,999		532,958
020 Filters - Import 5' Grading fill	98,189		47,492		98,189
020.312000.81.00 Excavate & Backfill Filters	98,189		47,492		98,189
020 Filters Total	98,189		47,492		98,189
065 Sitework - Overexcavation (5ft) & Backfill Slab Footprint	434,770		401,507		434,770
065.312300.81.00 Over Excavation (5ft) & Backfill Slab Footprint - @ High Rate Clarifier	31,035		30,898		31,035
065.312300.81.10 Over Excavation (5ft) & Backfill to Grade - @ Ozone Contactor	81,291		72,786		81,291
065.312300.81.15 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Storage Pad	15,121		15,854		15,121
065.312300.81.16 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Heat Exchangers	11,777		11,262		11,777
065.312300.81.20 Over Excavation (5ft) & Backfill Slab Footprint - @ Sodium Hypo Containment Pads	35,034		34,149		35,034
065.312300.81.25 Over Excavation (5ft) & Backfill Slab Footprint - @ Filter Basins & Pipe Gallery	153,366		133,538		153,366
065.312300.81.30 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Chem Feed Bldg 3	46,112		42,628		46,112
065.312300.81.35 Over Excavation (5ft) & Backfill Slab Footprint - @ Ozone Generator BLDG	30,517		30,196		30,517
065.312300.81.40 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Polymer BLDG	30,517		30,196		30,517
065 Sitework - Overexcavation (5ft) & Backfill Slab Footprint Total	434,770		401,507		434,770
31-20-00.000 EARTH MOVING Total	532,958		448,999		532,958
31-23-23.000 TRENCHING & BACKFILLING	179,596		77,713		179,596
065 Sitework	179,596		77,713		179,596
065.312300.81.00 Over Excavation (5ft) & Backfill Slab Footprint - @ High Rate Clarifier	7,824		3,115		7,824
065.312300.81.10 Over Excavation (5ft) & Backfill to Grade - @ Ozone Contactor	19,557		7,975		19,557
065.312300.81.15 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Storage Pad	3,489		1,369		3,489
065.312300.81.16 Over Excavation (5ft) & Backfill Slab Footprint - @ LOX Heat Exchangers	2,295		836		2,295
065.312300.81.20 Over Excavation (5ft) & Backfill Slab Footprint - @ Sodium Hypo Containment Pads	8,665		3,492		8,665
065.312300.81.25 Over Excavation (5ft) & Backfill Slab Footprint - @ Filter Basins & Pipe Gallery	75,831		15,024		75,831
065.312300.81.30 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Chem Feed Bldg 3	11,291		4,475		11,291
065.312300.81.35 Over Excavation (5ft) & Backfill Slab Footprint - @ Ozone Generator BLDG	7,641		3,033		7,641
065.312300.81.40 Over Excavation (5ft) & Backfill Slab Footprint - @ Dry Polymer BLDG	7,641		3,033		7,641
065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate Clarifier	2,029		2,029		2,029
065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Contactor	9,911		9,911		9,911

065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Storage pad	1,699			1,699				1,699
065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat Exchangers	1,580			1,580				1,580
065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basins & Pipe Gallery	13,001			13,001				13,001
065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem Feed Bldg 3	3,874			3,874				3,874
065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Generator BLDG	1,652			1,652				1,652
065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polymer BLDG	1,616			1,616				1,616
065 Sitework Total	179,596			77,713				179,596
31-23-23.000 TRENCHING & BACKFILLING Total	179,596			77,713				179,596
32-10-00.000 BASES, BALLASTS & PAVING	1,656,784			757,082				1,656,784
010 Ozone Generation Building 3	14,237			6,758				14,237
010.321600.78.01 5' Side walk	14,237			6,758				14,237
010 Ozone Generation Building 3 Total	14,237			6,758				14,237
020 Filters	27,937			13,094				27,937
020.321600.78.01 5' W Side walk	27,937			13,094				27,937
020 Filters Total	27,937			13,094				27,937
052 Dry Chemical Feed Building 3 - Lime	12,752			5,632				12,752
075.321600.78.01 5' W Side walk	12,752			5,632				12,752
052 Dry Chemical Feed Building 3 - Lime Total	12,752			5,632				12,752
054 Coagulant Aid Polymer Building	13,590			6,266				13,590
071.321600.78.01 5' W Side walk	13,590			6,266				13,590
054 Coagulant Aid Polymer Building Total	13,590			6,266				13,590
065 Sitework - Asphalt Paving	1,588,268			725,331				1,588,268
055.321000.81.00 Asphalt Pavement Restoration	1,588,268			725,331				1,588,268
065 Sitework - Asphalt Paving Total	1,588,268			725,331				1,588,268
32-10-00.000 BASES, BALLASTS & PAVING Total	1,656,784			757,082				1,656,784
32-90-00.000 PLANTING- SOD	140,085			140,085				140,085
065 Sitework	0			140,085				0
065.329000.78.00 Sodding	0			140,085				0
065 Sitework Total	0			140,085				0
32-90-00.000 PLANTING Total	0			140,085				0
200.31 00 00 Sitework Total	3,070,150			1,750,002				3,070,150
Domestic Water Line - 2 in PVC	61,895					500.00	lf	61,895
Sanitary Sewer line - 6in SDR PVC	154,745					500.00	lf	154,745
Fire Water Line 4in PVC	116,060					500.00	lf	116,060
Fire Hydrants	30,949					2.00	ea	30,949
Laydown Area	260,300			100,000		10,000.00	sy	260,300
Stormwater Pond - 6ft Deep	96,202					1.00	AC	96,202
400.46 76 32 Laydown / Staging Area				150,000				
400.46 76 40 Stormwater Systems	200,000			816,000				200,000
Temp Roads & Construction Entrance						10,000.00	sy	
400.46 76 35 Temporary Roads	795,427			795,427				795,427
CUT								
ADD								
Shipping								
ESCALATION TO NTP								
SUBTOTAL	4,785,728			3,611,429				4,785,728
BOND Cost	$ 95,714.57	2.00%		$ 72,228.58	2.00%			$ 95,714.57
SALES TAX	$ -			Inc.				$ -
OTHER				Inc.				
TOTAL	$ 4,881,443.06			$ 3,683,657.34				$ 4,881,443.06

Kimmins Contracting Corp.
1501 E 2nd Ave.
Tampa, Fl 33605
Phone# (813)248-3878

To:	CDM Smith	**Contact:**	Larry Oliver
Address:	101 Southhall Ln, #200	**Phone:**	(407) 660-2552
	Maitland, FL 32751	**Fax:**	
Project Name:	TBW Veolia WTP Expansion (BUDGET)	**Bid Number:**	
Project Location:		**Bid Date:**	

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
SITEWORK (ITEMS + QUANTITIES BY CDM)					
010-010	5' X 4" Sidewalk	960.00	SF	$14.83	$14,236.80
020-010	Place Fill From Import	1,080.00	CY	$12.23	$13,208.40
020-020	Place Fill From Import	540.00	CY	$12.23	$6,604.20
020-030	Import Sand Fill	1,080.00	CY	$42.27	$45,651.60
020-040	Import Sand Fill	540.00	CY	$42.27	$22,825.80
020-050	Fine Grade	5,840.00	SF	$1.13	$6,599.20
020-060	Fine Grade	2,920.00	SF	$1.13	$3,299.60
020-070	5' X 4" Sidewalk	1,860.00	SF	$15.02	$27,937.20
045-010	NonWoven Geotextile Fabric-Filter Fabric 6 Oz/sy (medium Weight)	40,000.00	SF	$5.51	$220,400.00
045-020	Mobilize/Demobilize Liner Crew	1.00	EACH	$23,211.58	$23,211.58
045-030	Subgrade Preparation	40,000.00	SF	$0.82	$32,800.00
045-040	Quality Control/Quality Assurance/Testing Allowance	1.00	LS	$0.00	$0.00
045-050	Supply/Install HDPE Liner 60 Mils- Smooth	40,000.00	SF	$2.33	$93,200.00
045-060	HDPE Liner Hand Weld	2,000.00	LF	$13.32	$26,640.00
045-070	Cut To Stockpile	26,280.00	CY	$8.19	$215,233.20
045-080	Fine Grade	240,000.00	SF	$1.13	$271,200.00
045-090	Load Spoils From Stockpile	26,280.00	CY	$0.96	$25,228.80
045-100	Haul Spoils/Off Site 18cy Rear Dump 1 Load/Hour	26,280.00	CY	$9.19	$241,513.20
045-110	Place Fill From Import	70,000.00	CY	$4.72	$330,400.00
045-120	Import Common Earth	70,000.00	CY	$42.27	$2,958,900.00
045-130	Fine Grade	240,000.00	SF	$1.13	$271,200.00
045-140	Cut To Stockpile	20,000.00	CY	$8.10	$162,000.00
045-150	Haul Cut To Stockpile 18cy Rear Dump	20,000.00	CY	$4.60	$92,000.00
045-160	Fine Grade	40,000.00	SF	$1.13	$45,200.00
045-170	Load Spoils From Stockpile	20,000.00	CY	$0.96	$19,200.00
045-180	Haul Spoils/Off Site 18cy Rear Dump 1 Load/Hour	20,000.00	CY	$9.19	$183,800.00
045-190	NonWoven Geotextile Fabric-Filter Fabric 16 Oz/sy (heavy Weight)	163,000.00	SF	$5.51	$898,130.00
045-200	Subgrade Preparation- Scarify & Recompact/Proof Roll	163,000.00	SF	$0.82	$133,660.00

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
045-210	Parking- Bituminous Surface/Wearing Course 2.0"	26,666.00	SY	$37.14	$990,375.24
045-220	Parking- Bituminous Base Course 10"	26,666.00	SY	$185.70	$4,951,876.20
045-230	Parking Lot Tack Coat	26,666.00	SY	$1.55	$41,332.30
045-240	6' Chain Link Fence	2,000.00	LF	$30.95	$61,900.00
045-250	6' Chain Link Fence Man Gate	3.00	EACH	$7,737.19	$23,211.57
045-260	6' Chain Link Fence Vehicle Gate 24' Wide	2.00	EACH	$38,685.96	$77,371.92
045-270	3 Strand Barb Wire @ Top Add	2,000.00	LF	$13.93	$27,860.00
045-280	Fence Mow Strip, Concrete, 18" Wide, 6" Thick	2,000.00	LF	$23.22	$46,440.00
045-290	Sludge Staging Allowance	1.00	LS	$0.00	$0.00
052-010	5' X 4" Sidewalk	800.00	SF	$15.94	$12,752.00
054-010	5' X 4" Sidewalk	890.00	SF	$15.27	$13,590.30
065-010	Supply/Install Geo Cells	6,150.00	SF	$0.00	$0.00
065-020	Cut To Stockpile	380.00	CY	$8.74	$3,321.20
065-030	Haul Cut To Stockpile 18cy Rear Dump	380.00	CY	$4.60	$1,748.00
065-040	Place Fill From Import	380.00	CY	$8.69	$3,302.20
065-050	Import Sand Fill	380.00	CY	$42.27	$16,062.60
065-060	Fine Grade	2,050.00	SF	$1.61	$3,300.50
065-070	Fine Grade	2,050.00	SF	$1.61	$3,300.50
065-080	EXCAVATION SPOILS-SOURCES Of FILL (Summary)	380.00	CY	$0.00	$0.00
065-090	Load Spoils From Stockpile	380.00	CY	$2.22	$843.60
065-100	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	380.00	CY	$18.37	$6,980.60
065-100	Supply/Install Geo Cells	15,750.00	SF	$0.00	$0.00
065-110	Cut To Stockpile	973.00	CY	$9.45	$9,194.85
065-120	Haul Cut To Stockpile 18cy Rear Dump	973.00	CY	$4.60	$4,475.80
065-125	Place Fill From Import	973.00	CY	$10.17	$9,895.41
065-130	Import Sand Fill	973.00	CY	$42.27	$41,128.71
065-140	Fine Grade	5,250.00	SF	$1.58	$8,295.00
065-150	Fine Grade	5,254.00	SF	$1.58	$8,301.32
065-160	EXCAVATION SPOILS-SOURCES Of FILL (Summary)	973.00	CY	$0.00	$0.00
065-170	Load Spoils From Stockpile	973.00	CY	$1.73	$1,683.29
065-180	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	973.00	CY	$18.37	$17,874.01
065-190	Supply/Install Geo Cells	2,700.00	SF	$0.00	$0.00
065-200	Cut To Stockpile	167.00	CY	$14.04	$2,344.68
065-210	Haul Cut To Stockpile 18cy Rear Dump	167.00	CY	$4.60	$768.20
065-220	Place Fill From Import	167.00	CY	$9.89	$1,651.63
065-230	Import Sand Fill	167.00	CY	$42.27	$7,059.09
065-240	Fine Grade	900.00	SF	$1.83	$1,647.00
065-250	Fine Grade	902.00	SF	$1.83	$1,650.66
065-260	Load Spoils From Stockpile	167.00	CY	$2.52	$420.84
065-270	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	167.00	CY	$18.37	$3,067.79
065-280	Supply/Install Geo Cells	1,650.00	SF	$0.00	$0.00
065-290	Cut To Stockpile	102.00	CY	$20.05	$2,045.10
065-300	Haul Cut To Stockpile 18cy Rear Dump	102.00	CY	$4.60	$469.20

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
065-310	Place Fill From Import	102.00	CY	$16.19	$1,651.38
065-320	Import Sand Fill	102.00	CY	$42.27	$4,311.54
065-330	Fine Grade	550.00	SF	$3.00	$1,650.00
065-340	Fine Grade	550.00	SF	$3.00	$1,650.00
065-350	Load Spoils From Stockpile	102.00	CY	$4.13	$421.26
065-360	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	102.00	CY	$18.37	$1,873.74
065-370	Supply/Install Geo Cells	6,900.00	SF	$0.00	$0.00
065-380	Cut To Stockpile	426.00	CY	$11.99	$5,107.74
065-390	Haul Cut To Stockpile 18cy Rear Dump	426.00	CY	$4.60	$1,959.60
065-400	Place Fill From Import	426.00	CY	$7.75	$3,301.50
065-410	Import Sand Fill	426.00	CY	$42.27	$18,007.02
065-420	Fine Grade	2,300.00	SF	$1.43	$3,289.00
065-430	Fine Grade	2,300.00	SF	$1.43	$3,289.00
065-440	Load Spoils From Stockpile	426.00	CY	$1.97	$839.22
065-450	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	426.00	CY	$18.37	$7,825.62
065-460	Supply/Install Geo Cells	29,700.00	SF	$0.00	$0.00
065-470	Cut To Stockpile	1,833.00	CY	$9.76	$17,890.08
065-480	Haul Cut To Stockpile 18cy Rear Dump	1,833.00	CY	$4.60	$8,431.80
065-490	Place Fill From Import	1,833.00	CY	$9.00	$16,497.00
065-500	Import Sand Fill	1,833.00	CY	$42.27	$77,480.91
065-510	Fine Grade	9,900.00	SF	$1.67	$16,533.00
065-520	Fine Grade	9,900.00	SF	$1.67	$16,533.00
065-530	Load Spoils From Stockpile	1,833.00	CY	$2.30	$4,215.90
065-540	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	1,833.00	CY	$18.37	$33,672.21
065-550	Supply/Install Geo Cells	9,000.00	SF	$0.00	$0.00
065-560	Cut To Stockpile	546.00	CY	$10.37	$5,662.02
065-570	Haul Cut To Stockpile 18cy Rear Dump	546.00	CY	$4.60	$2,511.60
065-580	Place Fill From Import	546.00	CY	$9.06	$4,946.76
065-590	Import Sand Fill	546.00	CY	$42.27	$23,079.42
065-600	Fine Grade	2,950.00	SF	$1.68	$4,956.00
065-610	Fine Grade	2,950.00	SF	$1.68	$4,956.00
065-620	Load Spoils From Stockpile	546.00	CY	$2.31	$1,261.26
065-630	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	546.00	CY	$18.37	$10,030.02
065-640	Supply/Install Geo Cells	6,000.00	SF	$0.00	$0.00
065-650	Cut To Stockpile	370.00	CY	$8.85	$3,274.50
065-660	Haul Cut To Stockpile 18cy Rear Dump	370.00	CY	$4.60	$1,702.00
065-670	Place Fill From Import	370.00	CY	$8.92	$3,300.40
065-680	Import Sand Fill	370.00	CY	$42.27	$15,639.90
065-690	Fine Grade	2,000.00	SF	$1.65	$3,300.00
065-700	Fine Grade	2,000.00	SF	$1.65	$3,300.00
065-710	Load Spoils From Stockpile	370.00	CY	$2.28	$843.60
065-720	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	370.00	CY	$18.37	$6,796.90
065-730	Supply/Install Geo Cells	6,000.00	SF	$0.00	$0.00

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
065-740	Cut To Stockpile	370.00	CY	$8.85	$3,274.50
065-750	Haul Cut To Stockpile 18cy Rear Dump	370.00	CY	$4.60	$1,702.00
065-760	Place Fill From Import	370.00	CY	$8.92	$3,300.40
065-770	Import Sand Fill	370.00	CY	$42.27	$15,639.90
065-780	Fine Grade	2,000.00	SF	$1.65	$3,300.00
065-790	Fine Grade	2,000.00	SF	$1.65	$3,300.00
065-800	Load Spoils From Stockpile	370.00	CY	$2.28	$843.60
065-810	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	370.00	CY	$18.37	$6,796.90
065-820	Maintain Silt Fence	18.00	MO	$13,695.41	$246,517.38
065-830	Silt Fence, Standard 3' Tall	5,000.00	LF	$5.41	$27,050.00
065-840	Scarify & Recompact/Proof Roll	72,000.00	SF	$1.83	$131,760.00
065-850	Aggregate Base-Parking Lots	1,333.33	CY	$55.93	$74,573.15
065-860	Aggregate Base	1,333.33	CY	$112.58	$150,106.29
065-870	Mobilize/Demobilize Asphalt Paving Equipment	2.00	EACH	$15,474.39	$30,948.78
065-880	Parking- Bituminous Surface/Wearing Course 2.0"	8,000.00	SY	$37.14	$297,120.00
065-890	Parking- Bituminous Binder/Intermediate Course 2"	8,000.00	SY	$37.14	$297,120.00
065-900	Parking- Bituminous Base Course 4"	8,000.00	SY	$74.28	$594,240.00
065-910	Parking Lot Tack Coat	8,000.00	SY	$1.55	$12,400.00
065-920	Domestic Water Line - 2-inch PVC	500.00	LF	$123.79	$61,895.00
065-930	Sanitary Sewer Line - 6-inch SDR PVC	500.00	LF	$309.49	$154,745.00
065-940	Fire Water Line - 4-inch PVC	500.00	LF	$232.12	$116,060.00
065-950	Fire Hydrants	2.00	EACH	$15,474.39	$30,948.78
065-960	Temp Roads & Construction Entrance	10,000.00	SY	$26.03	$260,300.00
065-970	Laydown Area	10,000.00	SY	$26.03	$260,300.00
065-980	Stormwater Pond - 6-feet Deep	1.00	ACRE	$96,202.39	$96,202.39
	Total Price for above SITEWORK (ITEMS + QUANTITIES BY CDM) Items:				**$16,014,255.86**
YARD PIPING					
1000	54" DI Yard Pipe	230.00	LF	$3,297.21	$758,358.30
1010	48" DI Yard Pipe	430.00	LF	$2,548.97	$1,096,057.10
1020	42" DI Yard Pipe	850.00	LF	$2,005.51	$1,704,683.50
1030	30" DI Yard Pipe	103.00	LF	$901.41	$92,845.23
1040	24" DI Yard Pipe	260.00	LF	$529.55	$137,683.00
1050	20" DI Yard Pipe	50.00	LF	$554.09	$27,704.50
1060	18" DI Yard Pipe	70.00	LF	$506.97	$35,487.90
1070	16" DI Yard Pipe	180.00	LF	$390.73	$70,331.40
1080	12" DI Yard Pipe	330.00	LF	$260.88	$86,090.40
1090	6" DI Yard Pipe	1,340.00	LF	$205.72	$275,664.80
1100	2" PVC Yard Pipe	60.00	LF	$113.63	$6,817.80
1110	6" PVC Gravity Pipe	690.00	LF	$105.88	$73,057.20
1120	42" Butterfly Valve	2.00	EACH	$94,265.46	$188,530.92
1130	38" Butterfly Valve	1.00	EACH	$88,810.36	$88,810.36
1140	30" Butterfly Valve	1.00	EACH	$75,667.01	$75,667.01

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1150	42" Flow Meter - BY OTHERS	0.00	EACH	$0.00	$0.00
1160	54" Bends & Fittings	4.00	EACH	$92,662.28	$370,649.12
1170	48" Bends & Fittings	11.00	EACH	$39,872.95	$438,602.45
1180	42" Bends & Fittings	9.00	EACH	$29,767.25	$267,905.25
1190	30" Bends & Fittings	6.00	EACH	$17,592.99	$105,557.94
1200	24" Bends & Fittings	13.00	EACH	$10,959.48	$142,473.24
1210	20" Bends & Fittings	9.00	EACH	$9,293.30	$83,639.70
1220	18" Bends & Fittings	2.00	EACH	$8,416.04	$16,832.08
1230	16" Bends & Fittings	6.00	EACH	$7,219.68	$43,318.08
1240	12" Bends & Fittings	5.00	EACH	$3,888.10	$19,440.50
1250	6" Bends & Fittings	9.00	EACH	$2,272.70	$20,454.30
1260	6" Gravity Pipe Fittings	34.00	EACH	$2,863.85	$97,370.90
1270	Connect To Ex. 54"	1.00	EACH	$109,281.53	$109,281.53
1280	Connect To Ex. 48"	8.00	EACH	$42,741.69	$341,933.52
1290	Connect To Ex. 42"	1.00	EACH	$36,087.70	$36,087.70
1300	Connect To Ex. 36"	2.00	EACH	$21,198.54	$42,397.08
1310	Connect To Ex. 30"	1.00	EACH	$19,535.05	$19,535.05
1320	Connect To Ex. 24"	3.00	EACH	$14,544.55	$43,633.65
1330	Connect To Ex. 16"	7.00	EACH	$10,884.87	$76,194.09
1340	Connect To Ex. 12"	1.00	EACH	$9,387.71	$9,387.71
1350	Connect To Ex. 6"	7.00	EACH	$8,389.62	$58,727.34
1360	Pressure Testing	1.00	LS	$146,411.16	$146,411.16
1370	Dewatering - ALLOWANCE	1.00	LS	$142,364.33	$142,364.33
1380	Demo Yard Piping	2,342.00	LF	$166.75	$390,528.50
				Total Price for above YARD PIPING Items:	**$7,740,514.64**
CONTINGENCY					
1500	Budgetary Contingency (10%)	1.00	LS	$2,391,787.00	$2,391,787.00
				Total Price for above CONTINGENCY Items:	**$2,391,787.00**

Total Bid Price: $26,146,557.50

Notes:

- THIS IS A BUDGETARY PROPOSAL BASED UPON INCOMPLETE DRAWINGS. ISSUANCE OF CONSTRUCTION-READY PLANS WILL REQUIRE RE-PRICING.
- SITEWORK BID ITEMS & QUANTITIES PROVIDED BY CDM.
- IT IS ASSUMED THAT ALL CUT MATERIAL IS SUITABLE AND CAN BE USED FOR TRENCH BACKFILL. SHOULD IMPORT FILL BE REQUIRED ADDITIONAL COSTS WILL BE INCURRED.
- PROFILE VIEW NOT PROVIDED, THEREFORE WE HAVE NOT INCLUDED ANY VERTICAL DELFECTIONS THAT MAY BE REQUIRED.
- WE HAVE INCLUDED GENERAL CONDITIONS, MOBILIZATION & SURVEY AS INIDIRECT COSTS.
- WE HAVE EXCLUDED MATERIALS TESTING.
- DETAILS NOT PROVIDED ON THE PLANS, THUS IT IS ASSUMED THAT ALL DIP TO BE CEMENT-LINED. SHOULD EXPOY LINING BE REQUIRED ADDITIONAL COSTS WIL BE INCURRED.

ACCEPTED: The above prices, specifications and conditions are satisfactory and are hereby accepted. **Buyer:** _____ **Signature:** _____ **Date of Acceptance:** _____	**CONFIRMED:** **KIMMINS CONTRACTING CORP.** **Authorized Signature:** _____ **Estimator:** Thomas P. Butler (727) 773-5838 tbutler@kimmins.com

Underground Pipe

200.31 00 01 Underground Pipe	Kimmins	OPCC		Kimmins	SELECTED	SUB 2	
	$ 10,136,886.64		$ 6,756,520.49		$ 10,136,886.64		$ -
Contact:	Thomas P. Butler			Thomas P. Butler		Sub 2 Contact	
Phone:	727-773-5838			727-773-5838		Sub 2 Phone	
Email:	tbutler@kimmins.com			tbutler@kimmins.com		Sub 2 Email	
Submittals:	Sub 1 Submittals			Sub 1 Submittals		Sub 2 Submittals	
Delivery:	Sub 1 Delivery			Sub 1 Delivery		Sub 2 Delivery	
Package Scope:	Sub 1 Package			Sub 1 Package		Sub 2 Package	
Is Minority:	Sub 1 Is Minority			Sub 1 Is Minority		Sub 2 Is Minority	
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
200.31 00 01 Underground Pipe	4,585		6,624,040		4,585		0
03-10-00.000 CONCRETE FORMWORK			97,022	w/ Baker Quote			0
055 Yard Pipe			97,022				0
03-10-00.000 CONCRETE FORMWORK Total			97,022				0
03-20-00.000 CONCRETE REINFORCING			186,984	w/ Baker Quote			0
055 Yard Pipe			186,984				0
03-20-00.000 CONCRETE REINFORCING Total			186,984				0
03-30-00.000 CAST-in-PLACE CONCRETE			106,721	w/ Baker Quote			0
055 Yard Pipe			106,721				0
03-30-00.000 CAST-in-PLACE CONCRETE Total			106,721				0
22-00-00.000 PLUMBING			19,241				0
055 Yard Pipe	0		19,241		0		0
22-00-00.000 PLUMBING Total	0		19,241		0		0
31-23-23.000 TRENCHING & BACKFILLING	0		1,196,982		0		0
015 High Rate Flocculation/Sedimentation - Unit 5	0		1,148		0		0
017 Ozone Contactor Tank	0		152,321		0		0
020 Filters	0		1,976		0		0
055 Yard Pipe	0		1,021,548		0		0
070 Solids Dewatering	0		19,988		0		0
31-23-23.000 TRENCHING & BACKFILLING Total	0		1,196,982		0		0
40-00-00.000 PIPE SPECIALTIES	0		1,325,200		0		0
055 Yard Pipe	0		1,325,200		0		0
40-00-00.000 PIPE SPECIALTIES Total	0		1,325,200		0		0
40-05-19.000 DUCTILE IRON PIPE	0		2,812,230		0		0
055 Yard Pipe	0		2,812,230		0		0
40-05-19.000 DUCTILE IRON PIPE Total	0		2,812,230		0		0
40-05-31.000 PLASTIC PIPE	0		166,330		0		0
055 Yard Pipe	0		166,330		0		0
40-05-31.000 PLASTIC PIPE Total	0		166,330		0		0
40-05-51.000 VALVES	0		666,881		0		0
055 Yard Pipe	0		666,881		0		0
40-05-51.000 VALVES Total	0		666,881		0		0
40-70-00.000 MEASUREMENT & CONTROL INSTRUMENTS - I&C	4,585		46,448		4,585		0
055 Yard Pipe	4,585		46,448		4,585		0
40-70-00.000 MEASUREMENT & CONTROL INSTRUMENTS - I&C Total	4,585		46,448		4,585		0
200.31 00 01 Underground Pipe Total	4,585		6,624,040		4,585		0
Kimmins - Total Price	10,132,302				10,132,302		
Shipping							
ESCALATION TO NTP							
SUBTOTAL	10,136,887		6,624,040		10,136,887		-
BOND Cost		2.00%	$ 132,480.79	INC		2.00%	$ -
SALES TAX			Inc.	INC		7.50%	$ -
OTHER			Inc.				
TOTAL	$ 10,136,886.64		$ 6,756,520.49		$ 10,136,886.64		$ -

Rigid Inclusion Package

200.31 00 10 Ridgid Inclusions	Keller		OPCC			Keller			SELECTED		Menard		
	$ 1,467,577.80				$ 2,880,438.49				$ 1,467,577.80				$1,836,000.00
Contact:	Dustin Hatch					Dustin Hatch					Matt Mooney		
Phone:	813-884-3441					813-884-3441					814-360-4141		
Email:	Sub 1 Email					Sub 1 Email					mmoooney@menardusa.com		
Submittals:	Sub 1 Submittals					Sub 1 Submittals					Sub 2 Submittals		
Delivery:	Sub 1 Delivery					Sub 1 Delivery					Sub 2 Delivery		
Package Scope:	Sub 1 Package					Sub 1 Package					Sub 2 Package		
Is Minority:	Sub 1 Is Minority					Sub 1 Is Minority					Sub 2 Is Minority		
Packa Area ection ement Item Description	Total Amount		QTY		Total Amount		QTY		Total Amount		QTY		Total Amount
200.31 00 10 Ridgid Inclusions	9,865				2,823,959				9,865				0
31-60-00.000 FOUNDATION & LOAD BEARING ELEMENTS	9,865				2,823,959				9,865				0
065 Sitework	9,865				2,823,959				9,865				0
065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate	1,006				290,068				1,006				0
065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Co	2,634				734,843				2,634				0
200.31 (31-60-0(065 Site *065.316316.81.10* 31-63-16.000.0 Layout Piles		210.00	ea		11,355								
200.31 (31-60-0(065 Site *065.316316.81.10* 31-63-16.000.2 Mobilize/Demobilize Auger Cast Pile Crew		1.00	ea		15,000								
200.31 (31-60-0(065 Site *065.316316.81.10* 31-63-16.000.12 Augered Piles CIP 12"		9,660.00	vf		705,855								
200.31 (31-60-0(065 Site *065.316316.81.10* 31-63-26.000.g302 Handle Drilled Pier Stockpile Spoils- Loa	2,634	281.00	cy		2,634				2,634				
065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Co	2,634				734,843				2,634				0
065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Stora	452				138,402				452				0
065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat	420				129,137				420				0
065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basi	3,455				965,808				3,455				0
065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem	1,030				298,321				1,030				0
065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Ge	439				134,974				439				0
065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polym	429				132,407				429				0
065 Sitework Total	9,865				2,823,959				9,865				0
31-60-00.000 FOUNDATION & LOAD BEARING ELEMENTS Total	9,865				2,823,959				9,865				0
200.31 00 10 Ridgid Inclusions Total	9,865				2,823,959				9,865				0
	1,440,311								1,440,311				1,800,000
CUT													
ADD													
Shipping													
ESCALATION TO NTP													
SUBTOTAL	1,450,176				2,823,959				1,450,176				1,800,000
BOND Cost	$ 17,402.11	2.00%			$ 56,479.19	1.20%			$ 17,402.11	2.00%			$ 36,000.00
SALES TAX	$ -				Inc.				$ -				$ -
OTHER					Inc.								
TOTAL	$ 1,467,577.80				$ 2,880,438.49				$ 1,467,577.80				$1,836,000.00

November 15, 2024

CDM Smith
2104 Laburnum Ave, Suite 230
Richmond, VA 23227

ATTENTION: Mahendra Balkaran

REFERENCE: **Rigid Inclusion Budget Proposal**
TBW-Veolia-SWTP
Tampa, FL
Keller File No. OP0035015

Mahendra:

Keller North America, Inc. (Keller) is pleased to present this Budget Proposal for the design and construction of a Ground Improvement system consisting of Rigid Inclusions for the above-referenced project. Keller's concepts and procedures stated in this Budget Proposal shall be deemed intellectual property of Keller, remain confidential to you, and shall not be made available to another party without the expressed written consent of Keller.

QUALIFICATIONS:

Keller is the largest geotechnical contractor in the world and is recognized by industry leaders to be reliable and innovative experts in the field of specialty foundation and geotechnical construction. Keller's reputation is based on providing cost effective solutions for difficult geotechnical construction projects. With the largest geotechnical equipment and resource pool in North America, Keller is especially adept with fast track, resource intensive projects.

PROJECT HEALTH AND SAFETY:

Keller is committed to creating and sustaining a safety-minded culture that ensures an incident and injury free workplace. Keller values the safety of its personnel above all. Keller's top safety officer has an executive level position to ensure that safety planning is a primary corporate priority. Keller will ensure that all our employees, subcontractors, and vendors for this project are provided general and site-specific health, safety and environmental training and guidance prior to the start of work and on a continuing basis.

Keller North America, Inc.
5461 W Waters Ave Suite 900
Tampa, FL 33634

t: 813-884-3441

TBW-Veolia-SWTP November 15, 2024
Tampa, FL

THIS BUDGET PROPOSAL IS BASED UPON THE FOLLOWING:

1. Geotechnical Data Report prepared by Driggers Engineering dated July 30, 2024.
2. 60% Submittal Drawings prepared by CDM Smith dated August 2024.
3. A site visit has not been conducted.

SPECIFICALLY, OUR SCOPE OF WORK WILL INCLUDE THE FOLLOWING:

1. Two Mobilizations
2. Rigid Inclusion's (RI's) per the Quantities provided by CDM Smith.
3. Once loading and settlement criteria are provided, Keller will perform preliminary design and provide a lump sum formal proposal for this project as a design build package. Upon award, Keller will prepare and submit a RI design package sealed by a Professional Engineer licensed in the state of Florida, as required. Design of the Load Transfer Platform is included in this design package with installation, inspection and materials provided by others.
4. Installation, performance, and report submittal of one (1) RI 'modified quick load' compression tests, in general accordance with ASTM D1143 (modified).
5. Keller's base scope of work developed from the generalized soil descriptions includes the following:
    a. All RIs installed to depths specified by CDM Smith with a maximum depth of 46 ft.
    b. Design capacities will be verified through an onsite load test.
6. Keller assumes work will be performed from around existing grade.

Keller estimates the work described in the accompanying letter can be completed for the lump sum price of **$1,440,311** with an approximate duration of **6-7 weeks of production** using 1 rig working 5-6 days per week and 11 hours per shift. **See attached document with pricing per structure.**

Keller will need access to the site to mobilize and set up equipment 1-1.5 weeks prior to starting production.

UNIT PRICES:

1. Payment and performance bonds: 1.2%
2. Additional mobilization of Keller's equipment and personnel (each): $150,000
3. Standby of Keller's equipment and personnel: $1,200/hour per rig and crew
4. Excess grout due to unforeseen conditions (greater than 1.35 times the theoretical volume pumped in any individual RI, including waste), per cubic yard: $500.00

MATERIAL ESCALATIONS:

This budgetary proposal is based upon the quoted price of materials as of the date of this budgetary proposal. If the cost of materials increase, Keller shall be compensated via change order for the difference between the actual costs of materials at time of purchase and the quoted price included in this budgetary proposal.

TBW-Veolia-SWTP
Tampa, FL

November 15, 2024

RIGID INCLUSION GROUND IMPROVEMENT

Rigid Inclusion (RI) is a ground improvement process whereby high modulus columns are constructed through loose/compressible soils to reduce settlement and increase bearing capacity. The RI's are used to reinforce loose/compressible soils by transferring stresses from a Load Transfer Platform (LTP) to a deeper competent stratum. The composition, diameter, depth and number of inclusions are designed based on the planned loading and settlement requirements.

CONSTRUCTION SEQUENCE AND CONSIDERATIONS

1. The site is stripped, cleared and made accessible for Keller's equipment.
2. Selected benchmarks are laid out in the field by others
3. Keller mobilizes to project site and performs RI test and production concurrently.
4. Keller demobilizes from the site.
5. Excavation is carefully performed for the structures and RI Cutoff (if required) is performed (by others).
6. LTP and foundation construction begins by others once RI material has reached 75% of design strength. We anticipate the LTP for the foundations will require undercutting of 1-2 ft backfilled with compacted #57 stone.

EXCLUDED ITEMS:

Keller has not included the following items and will require these to be provided/performed by others

1. Keller will make every effort to cutoff RIs to proper elevation where bottom of LTP is less than 4 ft below working grade. Cutoff of these shall be limited as soil and water conditions allow, in order to mitigate the risk of grout contamination at the required top of RI. Where the top of the RI elevation is greater than 4 ft below working grade, **Keller will place a reinforcement bar in them and cutoff by others will be required once foundations are excavated.**
2. General Contractor will provide a level, stable work platform in all weather conditions. The work platform shall be well-drained and maintained so that Keller's equipment, weighing up to 150 tons, and equipment associated with Keller's scope of work may access the site under their own power without the use of steel plates or timber mats and such that over the road concrete/stone delivery trucks can deliver RI material to within 100 feet of the drill rig at each RI location. Maintenance of the work platform and haul roads is to be performed by the General Contractor. Any site access issues which might reasonably affect equipment access, productivity, or crew safety must be remediated by the General Contractor so as not to delay progression of work.
3. Provide an adequate, secure 200'X200' stable lay down area, within 500 feet of the RI drilling operations, for Keller's equipment and materials.
4. Sanitary services for Keller's crew adjacent to the work area
5. Management and disposal of any spoils, chippings, and grout waste from the RI installation process.

6. RI's produce minimal spoils. In the event Keller is unable to penetrate to design depth then a change of tooling will be necessary and could result in up to 1,600 CY of drill spoils. Keller will stockpile this spoil within 50 ft of RI locations to be loaded and hauled off by others.
7. Any required settlement monitoring instrumentation.
8. Locate, test pit, expose, remove, relocate, and/or protect existing utilities as may be required for the safe installation of RIs. Keller will perform a public utility locate and will only be responsible for damage of utilities to the extent of Keller's negligence.
9. Provision of a fire-hydrant type water source for washout of the RI tooling and pump.
10. Layout of foundations and reference points as indicated in Keller's shop drawings, and the appropriate coordinates and elevations sent Keller prior to mobilization.
11. Keller will provide approximate dimensions and as-built shop drawings of RI locations that were known to be shifted in the field during installation. However, as-built surveying of each RI location by a licensed surveyor has not been included.
12. Protection of existing utilities or structures.
13. Any required 3rd party testing and inspection including monitoring of the RI work, Vibration Monitoring and compressive testing of grout samples.
14. Global stability, uplift resistance, lateral resistance, or seismic site improvements as part of the RI design-build package.
15. Following the completion of the RIs, the site will require regrading, surface compaction, RI cutoff and the construction of a Load Transfer Platform (LTP). Once excavation to bottom of LTP has occurred, some of the RI's may have to be chipped to proper elevation by others. RI cutoff, LTP material, construction and third-party inspections/certifications to be performed by others. Excavation around RIs should be done carefully (by others).
16. RIs are brittle following installation, and care should be taken not to cause damage during excavation and cutoff. Any damage to RIs during foundation excavation/construction must immediately be reported to Keller. All excavation, cut offs, etc. must be performed and documented per the Engineer of Record's required inspection and testing plan and Geotechnical Engineer of Record recommendations.
17. Supervision of foundation construction. Keller is not liable for RIs damaged during excavations. If damage occurs, it must be communicated to Keller within 24 hours.
18. Returning the site to its exact original condition/grade and any required subgrade preparation/remediation following Keller's work. Any soft or excessively wet areas of the site should be remediated at the direction of the project Geotechnical Engineer per the project specifications by the General Contractor at no additional cost to Keller.
19. Grout washout bins, if required.
20. Tire wash pit and street sweeping, including labor.
21. Site maintenance beyond general housekeeping or items detailed within this budgetary proposal, including street cleaning and dust control.
22. Any required permits including FAA Permits.
23. Removal of any and all buried obstructions. Drilling through wood, concrete, steel, shot rock, or any other natural or man-placed buried obstructions or objects is not included. If obstructions are encountered GC will remove the obstruction(s) and backfill as required to allow for the completion of the RI. During obstruction removal Keller will make reasonable attempts to work in other available areas, however, any downtime, drill moving time, setup time, associated with obstruction removal will be compensated at the standby rate. If excavation is not possible, Keller will attempt to offset installation of the RI location in

coordination with the Project Team and install an additional RI location. Additional costs to be charged if additional RI's are required and for delays and equipment/tooling damage due to obstruction drilling.

24. Any required instrumentation and monitoring services to measure vibration, deformation, settlement, heave, or any other movement, prior to, during, or following the ground improvement work.

CLOSING

We look forward to being of service and look forward to working with you on this project. Please do not hesitate to call or email if you have any questions or need any additional information.

Sincerely,
Keller North America, Inc.

Dustin Hatch
Project Executive

Tampa Bay Water
Regional Surface Water Treatment Plant Expansion
Rigid Inclusions Package

	Description	QTY	UOM	Unit Price
	200.31 00 10 Rigid Inclusions			
	065 Sitework			
	31-63-16 Auger Cast Grout Piles			
	065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate Clarifier			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	107.34	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 1 Load/Hour	107.34	cy	by others
	Layout Piles	82.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	$150,000
	Augered Piles CIP 12"	3,690.00	vf	$33.86
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	107.34	cy	included
	065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate Clarifier Total			
	065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Contactor			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	281.00	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	281.00	cy	by others
	Layout Piles	210.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	9,660.00	vf	$29.34
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	281.00	cy	included
	065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Contactor Total			
	065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Storage pad			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	48.17	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	48.17	cy	by others
	Layout Piles	36.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	1,656.00	vf	$29.10
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	48.17	cy	included
	065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Storage pad Total			
	065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat Exchangers			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	44.80	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	44.80	cy	by others
	Layout Piles 34?	22.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	1,540.00	vf	$29.10
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	44.80	cy	included
	065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat Exchangers Total			
	065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basins & Pipe Gallery			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	368.61	cy	by others

	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	368.61	cy	by others
	Layout Piles	396.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew Includes 1 Test on 1st Mob	1.00	ea	$200,000
	Augered Piles CIP 12" 12,672? →	########	vf	$30.55
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	368.61	cy	included
	065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basins & Pipe Gallery Total			
	065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem Feed Bldg 3			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	109.84	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	109.84	cy	by others
	Layout Piles	118.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	3,776.00	vf	$28.90
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	109.84	cy	included
	065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem Feed Bldg 3 Total			
	065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Generator BLDG			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	46.83	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	46.83	cy	by others
	Layout Piles	35.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	1,610.00	vf	$29.10
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	46.83	cy	included
	065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Generator BLDG Total			
	065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polymer BLDG			
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy L	45.82	cy	by others
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	45.82	cy	by others
	Layout Piles	35.00	ea	included
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea	NA
	Augered Piles CIP 12"	1,575.00	vf	$29.10
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	45.82	cy	included
	065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polymer BLDG Total			
	31-63-16 Auger Cast Grout Piles Total			
	065 Sitework Total			
	200.31 00 10 Rigid Inclusions Total			$1,440,311

SPECIFIC TERMS AND CONDITIONS

The following items for project support/execution are specifically excluded and, if required, must be provided by Contractor and/or Owner (hereinafter "Client") at no cost to Keller, unless otherwise specified in this proposal:

Design-Build Specification Approvals: Approval by any engineer and/or government entity for a Keller-provided design.

Engineering: All plans, specifications and designs necessary for the work.

Excavation and Spoil Removal: All necessary excavation, loading, hauling and proper disposal of spoils, including removal of solid and liquid waste materials, which may include drill cuttings, grout, and waste stone, resulting from Keller's operations.

Layout: All general and specific layout, including, continuous and complete survey, field layout, line, and grade at all work locations and any post construction and/or as-built surveys of the completed work.

Licenses: All licenses beyond Keller's current licensing.

Noise and Dust Control: Noise abatement measures/devices (*e.g.,* sound walls) and ventilation and/or dust control barriers to the extent required by federal, state or local authorities. Street cleaning and truck wash down facilities.

Obstruction Removal: Costs resulting from manmade or naturally occurring obstructions. Schedule extensions shall also be granted for time required to address obstructions.

Permits and Easements: All site permits and easements required to legally perform the work.

Protection and Restoration: Protection and restoration of all pavements, surfaces, finishes, landscape, hardscape, utilities, structures, or any other element, directly or indirectly affected by Keller's operations. Excavation, backfilling, grading or sealing work required on the site to restore the site to the original or finished grade.

Site Restoration: Provision and placement of fill material necessary to restore site to required grade after the site has been lowered as a result of densification operations. Re-compaction of the upper one to two feet of loose surface material following general grading after the installation of a ground modification system. Restoring pavement, hardscaping, landscaping, grass or any other site feature.

Site Security: Site security including watchmen during non-work hours.

Support and Protection of Adjacent Ground and Structures: Supporting, monitoring, and protecting onsite structures, adjacent structures, roadways and utilities.

Testing and Inspections: Any required instrumentation, movement or vibration monitoring, site/building condition surveys, laboratory or field materials testing, construction/materials inspection services, and services of a geotechnical or structural engineer.

Traffic Control: All pedestrian and vehicular traffic control, including signs, signals, devices, barricades and flagmen.

Water Control: All work necessary to control and maintain the site and excavation free of ground or surface water problems as they relate to Keller's operations.

The following items for project support/execution are required and must be provided by Client at no cost to Keller, unless otherwise specified in this proposal:

Electricity: Uninterrupted electric service rated at **110** volts/**50** amps within **100** feet of Keller's operations.

Hoisting Support: Operated and manned equipment to handle, load and unload Keller equipment, tooling, and materials at site. Crane service will also be required on an intermittent basis throughout the project for handling materials on-site.

Lighting: Reasonable site lighting for safe operations and site security.

Preconstruction Surveys: Existing condition surveys of buildings, utilities, and facilities shall be performed/provided by Client after site preparation/demolition and prior to Keller commencing work.

Sanitary Facilities: On-site sanitary facilities for use by Keller's employees.

Sequential Access: Work is to be made available in a sequence that will enable Keller to work efficiently and systematically without restriction. Keller's Proposal is based on its ability to carry out the work in an organized, sequential, continuous, uninterrupted, and efficient manner during regular working hours, Monday through Friday, in a single mobilization to the site. The commencement, durations, and sequence of Keller's work will be based upon mutually agreed-to start and end dates. Schedule amendments shall be mutually agreed-to between Keller and Client. Keller reserves the right to work overtime or weekends at Keller's own discretion without incurring charges for inspection, site overhead or other indirect charges. In the event that Keller's work is interrupted, impeded, or disrupted for any reason beyond its control, Client shall compensate Keller for standby of the crew and equipment.

Site Access & Working Platform: Client shall provide access to the site and Keller's work. Client to prepare and maintain clear, well drained, uninterrupted access ways, ramps and working platforms suitable for Keller equipment and trucks moving under their own power without mats in order to allow work to be carried out in an orderly, efficient, safe, and uninterrupted manner for the duration of Keller's operations. Working platform shall be capable of supporting the ground pressures and surcharges applied by Keller's equipment without additional timber mats or other means to distribute surcharges from equipment. Any expense incurred by Keller due to lack of safe access to the work area, as described above, shall be charged as extra work. Access includes adequate ramps and platforms at suitable levels and should be available at the time and to the extent necessary to suit Keller's operations. Keller's use of crane mats shall be considered extra.

Site Preparation: Client to remove surface, subsurface, or overhead obstructions, topsoil, brush, organic material and other unacceptable material as necessary for Keller to safely perform its work.

Site Work: All excavation, backfilling, grading or compaction work is to be furnished by Client in a timely manner, so as not to impede the progress of the work or cause damage to finished work.

Site Yard Space: An area on-site and adjacent to the work, for Keller's equipment, material storage, workshop, site office(s), and parking for Keller employees' vehicles.

Utilities: Client is obligated to ensure that all utilities are properly located including the proper notification of any utility locating service applicable to the work. All existing above and below ground utilities which may be affected by the work shall be located and exposed, removed, protected and/or relocated by Client. The extent and location of adjacent utilities and services left in place shall be clearly and accurately marked out on site and shown to a Keller representative prior to the commencement of work. Client to ensure any overhead lines are de-energized and/or relocated in advance of Keller's work to ensure continuity of Keller's operations without delay. No low headroom equipment is included in Keller's price. Client agrees to hold Keller harmless from liability and responsibility for any damage to any such utilities not thus indicated. It is possible that damage may occur as a result of heave, settlement or intrusion caused by Keller's work due to the unforeseeable condition of the ground or utility. Consequently, Client agrees to hold harmless Keller from liability and responsibility for damages thus caused.

Waste Removal: Client to provide centrally located dumpsters or waste containers for disposal of all waste and debris generated from Keller's operations.

Water Control: Client to prevent surface water and subsurface or groundwater from accumulating in and on the project site and surrounding area and to provide local disposal of wastewater created by Keller's operations. Client must maintain the water table at least **10** feet below the grade of Keller's work area.

Water Supply: Procure and supply adequate clean, potable, fresh water for the conduct of the work within **100** feet of Keller's work. The water supply should be at a minimum rate of **100** gpm at **80** psi; a working fire hydrant is sufficient.

GENERAL TERMS & CONDITIONS

The following additional commercial terms and conditions are part of Keller's Proposal, unless otherwise specified in this proposal:

Backcharges or Claims: Keller must receive three (3) days advance written notice of a potential backcharge/claim and an opportunity to cure the same. No backcharge will be valid unless the same is agreed to and signed by a properly authorized representative of Keller.

Bonds: The cost of a bond premium is not included in the contract price. If desired by and paid by Client, Keller will furnish a Payment and Performance bond. Payment for any bonds furnished by Keller will be invoiced separately at the time such bonds are furnished.

Changed Conditions: Keller's familiarity with the work is based on its reasonable surface inspection and investigation. Notwithstanding any other provisions or requirements in the contract documents, the obligations of Keller are to perform a reasonable review and investigation of the contract documents and the project site. Keller shall not be held liable for latent site conditions or latent defects and/or omissions in the contract documents. Notwithstanding any and all clauses contained in the contract documents, if Keller, during its work, encounters 1) subsurface or latent physical conditions which differ from those indicated in this Proposal or in documents provided by Client, or 2) unknown physical conditions of an unusual nature, differing from those ordinarily encountered, then Keller shall be entitled to an equitable adjustment to the contract price and contract schedule to compensate it for such changed condition.

Changes by Others: Client shall compensate Keller for additional engineering services or additional costs resulting from changes made by others to Keller's design, construction methods, or scope of work.

Confidentiality and Document Ownership: All specifications, drawings, price and technical data submitted by Keller are to be treated as proprietary and confidential and shall not be used for any purpose other than the evaluation of this Proposal, nor shall such information be disclosed to any third party for any purposes without the express written consent of Keller. Such information shall remain Keller's property and be returned to Keller upon demand. Keller shall retain the copyrights in and to its designs, drawings, specifications and instruments of service. Keller's designs have been prepared for exclusive use by Keller and based upon, and in anticipation of, Keller performing and completing the work called for in such designs. Keller makes no warranties or guarantees as to the suitability of the designs for use or construction by others. The designs are subject to protection under the Copyright Act of 1976 and Architectural Works Copyright Protection Act of 1990. Use, control, reproduction, publication, or dissemination of such designs without the prior written consent of an authorized representative of Keller is strictly prohibited. The designs are not intended or represented to be suitable for use/reuse by Client for construction not performed by Keller, or on extensions and/or expansions of the project or on any other project. Any such use by Client without written verification or adaptation by Keller for the specific purpose intended will be at Client's sole risk and without liability or legal exposure to Keller. Further, Client agrees to indemnify and hold harmless Keller from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting from such unauthorized use.

Contract Documents: Information used to prepare this Proposal has been furnished to Keller by Client or Client's representative. If conditions are not in accordance with the information furnished, the recommended procedures, scope of work, and price of this Proposal may not necessarily apply. The responsibility for delays or liabilities incurred by conditions other than those represented shall be borne by Client. Keller assumes no legal liability for the design accuracy of the contract documents and shall be held harmless from the same.

Dispute Resolution: Any controversy or claim arising out of or relating to this Proposal, except for actions to enforce mechanics' lien or payment bond claim rights, shall be settled first by executive level negotiation. If the dispute cannot be settled through direct discussions, the parties shall endeavor to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association. If mediation does not resolve the dispute, any further proceedings shall be by

arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered in any court having jurisdiction. Arbitration proceedings shall take place in the state and county where Keller's contracting office is located. The law governing the interpretation of this Proposal shall be the law of the state where the project is located, without regard to its conflicts of laws provisions. It is expressly agreed that in any arbitration the arbitrator shall award reasonable attorney's fees and costs to the prevailing party. Notwithstanding, Keller shall not be compelled to stay any mechanics' lien or payment bond enforcement actions.

Exclusions: Any items of work not specifically included in this Proposal shall not be the responsibility of Keller.

Force Majeure: Keller shall be excused, and Client shall hold Keller harmless, from any liability for default, disruption, or delay in the completion of the work when caused directly or indirectly by strike or similar official labor dispute, riot, war, public disturbance, terrorism or threat of terrorism, act of the public enemy, act of God, fire, explosion, storm, flood, epidemic/pandemic (including any named pandemic), quarantine restriction, decree of Government, or other similar circumstance beyond Keller's control. For any Force Majeure delay, Keller shall receive an equitable adjustment to the contract schedule and duration to account for such disruptions and impacts.

Hazardous Material: Keller shall not be responsible or liable for the treatment, storage, release, or disposal of preexisting contaminated and/or hazardous materials encountered during drilling operations or during the performance of Keller's work in general, and/or claims arising from the discharge, release, or exposure of or to such materials. In the event Keller encounters such materials during the performance of its work on the project, Keller shall be permitted to cease work in the area and shall not be obligated to continue work in the area until such time as the materials are properly removed, disposed of, and/or rendered harmless by Client. Client agrees to indemnify, defend, insure, and hold harmless Keller, its parent, affiliates, and their directors, officers, agents, and employees from and against all liabilities, losses, damages, demands, claims, suits, fines, penalties, or expenses, including attorneys' fees, arising out of or related to the excavation, release, discharge, exposure, or handling of hazardous materials pre-existing and encountered on site. Keller shall be entitled to an equitable adjustment to the contract price and contract schedule for all delays, impacts, and other damages incurred by Keller arising from or related to the discovery of hazardous and/or contaminated materials on site and/or the treatment, storage, transportation, or disposal of such materials by others.

Indemnity: Subject to the terms of the Limitation of Liability Clause below, and further subject to the accurate representations of soil conditions having been provided to Keller prior to its work, Keller shall indemnify and hold harmless Client and its agents and employees from and against all claims, damages, losses and expenses, including attorneys' fees, but only to the extent of the negligence of Keller, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or (2) to the injury to or destruction of tangible property (other than the work itself), including the loss of use resulting therefrom. Any defense shall be provided by counsel of Keller's choosing. In any case in which Keller provides a defense, if it is later determined that any of the indemnified parties is liable for all or any part of a claim or damage, Keller shall be entitled to recover its proportionate share of all costs, expenses and attorneys' fees relating to said defense from the indemnified parties.

Insurance: Keller will provide the following insurances within limits as shown. Comprehensive General Liability: $1,000,000.00 (Combined Single Limit, Bodily Injury and Property Damage); Automobile Liability: $1,000,000.00 (Combined Single Limit, Bodily Injury and Property Damage); Workman's Compensation: Statutory; and Professional Liability: $1,000,000.00 (only if Keller provides design services). *Special Coverages such as railroad protective or marine insurance are specifically excluded and may be available at an additional cost. While Keller shall carry the above insurance, it shall not add Client or its agents as additional insureds. If such additional insured coverage is required, such coverage shall be limited to the extent of Keller's negligence, shall be provided on forms of Keller's choosing, and may carry additional costs.*

Labor Affiliations: Keller's Proposal is made with the understanding that Keller will employ open shop labor. In the event union labor must be used, Owner/Contractor will pay Keller for the cost differential. For union labor contracts, if Keller's work under its Proposal is delayed beyond May 31 of the calendar year of this agreement, due to no fault of Keller, Keller shall be entitled to compensation for escalation in labor rates.

Lien Rights: Keller will not waive its lien, bond or statutory rights prior to performing its work. Any form or contract language wherein Keller purports to waive its lien, bond or statutory rights is hereby qualified by the following language, whether or not Keller specifically adds the language: "*This release shall apply only to work for which payment has been received in full by Keller; shall not apply to unbilled changes, claims that have been asserted in writing, or claims that have not yet become known to Keller; and shall be conditional upon receipt of funds to Keller's account.*"

Limitation of Liability: Client agrees to hold harmless Keller for liability and/or responsibility for defects of any kind whatsoever arising from a cause which is outside Keller's immediate control or knowledge, or for any fault in the junction between Keller's work and subsequent work carried out by others. Keller shall protect its work up to and including the date of final completion and acceptance of its work only and shall not be held liable for damage to Keller's work caused by others. Keller will perform the work in a good and workmanlike manner in cooperation with Owner, Contractor, or Owner's Engineer/Architect. However, Keller shall be held harmless from liability for any damage to the structure, landscaping, utilities, French drains, septic systems, wells, etc. and/or any consequential damages that may result from the normal performance of the work. All utilities and other services left in place shall be located, exposed, and shown to Keller's onsite representative prior to commencement of work.

Liquidated Damages & Delay Damages: Client agrees to hold harmless Keller from liability or responsibility for any delay damages, or time-related penalties arising from the work, including but not limited to, liquidated damages, direct damages, indirect damages, consequential damages, acceleration, overtime, extended overhead, and other delay related damages.

Material Escalation: Keller's Proposal is based on current market conditions and is inclusive of tax and delivery surcharges. If, during the performance of the contract, the price of the identified material increases above the originally estimated material costs, through no fault of Keller, then the contract price shall be equitably adjusted by an amount reasonably necessary to cover any such price increases.

Material Unavailability: If Keller's work is delayed, disrupted, or otherwise impacted due to shortages of, and/or the inability to timely procure and/or deliver to the site, certain required materials and/or manpower, through no fault of Keller, then Keller shall be entitled to an equitable adjustment to the contract schedule to account for such impacts. To the extent the causes identified herein result in an increase in the price of materials used in the performance of the work, Keller shall also be entitled to an equitable adjustment to the contract price by an amount reasonably necessary to cover any such cost increase, provided Keller presents documentation of such increases and evidence of Keller's reasonable efforts to find alternative sources of material supply at the original/un-impacted prices.

MBE/WBE/DBE/SBE: Keller excludes all MBE/WBE/DBE/SBE and local residency participation requirements and penalties.

Obstructions: Keller shall be compensated for the costs of excavating, removing, or otherwise dealing with such obstructions per the Schedule of Prices in the Proposal or agreed upon rates. Schedule extensions shall also be granted for time required to address obstructions. Tooling expended dealing with natural or manmade obstructions will be repaired/replaced at Client's expense at cost plus reasonable overhead and profit.

Payment Terms: Payment will be made within thirty (30) days of the dates on which progress invoices are rendered for the full amount of the proportion of the contract price represented by the work performed and materials delivered during the preceding month, less a maximum of five percent (5%) of such amount for retainage. No further retention shall be deducted after the amount invoiced exceeds 50% of the contract price. Final payment including retention shall be made within thirty (30)

days after the completion of Keller's work, regardless of the anticipated project completion date. Prices quoted herein are in USD and shall be paid in USD to Keller via wire or check. A service charge of one and one-half percent (1-1/2%) per month will be added to all amounts which remain unpaid for the period of thirty (30) days beyond the time specified for payment. Payment will not be withheld in the event Owner withholds payment from Contractor through no fault of Keller. If Client fails to make a payment or payments to Keller as herein provided, Keller may stop work upon seven (7) days' written notice without prejudice to any other right it may have. Client agrees to pay Keller, in addition to the interest set forth above, all legal fees and costs incurred by Keller in its efforts to recover withheld funds. This Proposal is made based upon the understanding that Keller's right to Mechanic's Lien and/or Bond Claim has not been waived. At final payment, Keller will release any right Keller may have against Client for labor and materials furnished and for work installed by Keller. Any setoff conditions are specifically excluded and waived by Client. Keller will not offer any discount for payments made earlier than what is required in this Paragraph.

Period of Acceptance: This Proposal is offered for acceptance for a period of thirty (30) days. The terms and pricing of this Proposal shall not be extended beyond thirty (30) days without the written consent of Keller.

Standard Contract Use: This Proposal when signed by both parties shall be the Agreement. Any other contract form will require Keller's review and must be fair and equitable. In the event of use of another form of contract, this Proposal shall be incorporated therein in its entirety, and shall supersede all conflicting terms of such contract.

Tax Exemption: All sales and use taxes are included. If the project is tax exempt, Client to provide Keller with the project specific tax-exempt certificate, prior to start of work.

Termination: In the event of termination of the work (for convenience or otherwise), Keller shall be paid for its work in place through the date of termination, plus any materials purchased, demobilization and termination costs, and reasonable overhead and profit on the same.

Vibration Liability: Keller cannot accept any liability for disturbance to existing structures and their inhabitants on or near the site. Keller requires that Client indemnify Keller against any and all claims for such disturbances (including settlement) and also take precautions as necessary to avoid any such claims. This may include vibration monitoring, excavating trenches around the affected area, etc.

Warranty: There are no expressed or implied warranties by Keller other than those described in these terms and conditions. The limit of Keller's warranty will be one (1) year from the completion of its work.

Balkaran, Mahendra K.

From: MOONEY Matt <mmooney@menardusa.com>
Sent: Thursday, November 21, 2024 5:03 PM
To: Balkaran, Mahendra K.; ROPAIN Sebastian; PASCAL Maysill
Subject: RE: 282964-TBW-Veolia-SWTP

Categories: Budget Quotes

Mahendra,

We're at a budget of around $1.8 million for the CMCs based on the following:

- Includes the 2 separate mobilizations you requested, assuming 50% of the CMCs for each mobilization
- Based on quantities you provided (total 934 CMCs, average depth of 38 feet)
- Includes a reasonable overconsumption of grout. As Maysill mentioned in an earlier email, there is risk of higher grout takes at this site. Excess grout would be on a unit rate basis.
- Includes CMC installation only (does not include costs associated with the LTP, layout, working platform, etc.).

Let us know if you have any questions.

Matt Mooney, P.E.
Regional Sales Manager

Mobile (814) 360-4141
E-mail MMooney@menardusa.com

From: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Sent: Friday, November 15, 2024 8:55 AM
To: ROPAIN Sebastian <sebastian.ropain@menardusa.com>; PASCAL Maysill <MPascal@menardusa.com>
Cc: MOONEY Matt <mmooney@menardusa.com>; Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Subject: RE: 282964-TBW-Veolia-SWTP

Sorry for the late response.
Please quote the quantities shown.
We can reconcile later.

Thanks,
Mahendra Balkaran

CDM Smith
Office: 804.377.2283

From: ROPAIN Sebastian <sebastian.ropain@menardusa.com>
Sent: Thursday, November 14, 2024 4:00 PM
To: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>; PASCAL Maysill <MPascal@menardusa.com>

Cc: MOONEY Matt <mmooney@menardusa.com>
Subject: Re: 282964-TBW-Veolia-SWTP

Thanks!

Last question. All of the total linear footages (labeled as vf) seem to be the the multiplication of the number of piles times the depth shown for each structure except for the LOX Heat Exchangers and the Dry Polymer Building. Can you check those 2 building quantities and let me know how if there's a mistake?

Thanks,

Sebastian Ropain, P.E.

Estimating Engineer

412-925-7043

From: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Sent: Thursday, November 14, 2024 3:29 PM
To: ROPAIN Sebastian <sebastian.ropain@menardusa.com>; PASCAL Maysill <MPascal@menardusa.com>
Cc: MOONEY Matt <mmooney@menardusa.com>; Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Subject: RE: 282964-TBW-Veolia-SWTP

See below.

	Description	QTY	UOM	Unit Price	Total Amount
	200.31 00 10 Rigid Inclusions				
	065 Sitework				
	31-63-16 Auger Cast Grout Piles				
	065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate Clarifier				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	107.34	cy		
	Haul Spoils/Off Site 18cy Rear Dump 1 Load/Hour	107.34	cy		
	Layout Piles	82.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	3,690.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	107.34	cy		
	065.316316.81.00 ACP - 5' OC - 12" DIA - 45LF Deep @ High Rate Clarifier Total				
	065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Contactor				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	281.00	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	281.00	cy		
	Layout Piles	210.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		

	Augered Piles CIP 12"	9,660.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	281.00	cy		
	065.316316.81.10 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Contactor Total				
	065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Storage pad				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	48.17	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	48.17	cy		
	Layout Piles	36.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	1,656.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	48.17	cy		
	065.316316.81.15 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Storage pad Total				
	065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat Exchangers				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	44.80	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	44.80	cy		
	Layout Piles	22.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	1,540.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	44.80	cy		
	065.316316.81.16 ACP - 5' OC - 12" DIA - 46LF Deep @ LOX Heat Exchangers Total				
	065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basins & Pipe Gallery				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	368.61	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	368.61	cy		
	Layout Piles	396.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	12,672.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	368.61	cy		
	065.316316.81.25 ACP - 5' OC - 12" DIA - 32LF Deep @ Filter Basins & Pipe Gallery Total				
	065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem Feed Bldg 3				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	109.84	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	109.84	cy		
	Layout Piles	118.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	3,776.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	109.84	cy		
	065.316316.81.30 ACP - 5' OC - 12" DIA - 32LF Deep @ Dry Chem Feed Bldg 3 Total				
	065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Generator BLDG				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	46.83	cy		
	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	46.83	cy		
	Layout Piles	35.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	1,610.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	46.83	cy		
	065.316316.81.35 ACP - 5' OC - 12" DIA - 46LF Deep @ Ozone Generator BLDG Total				
	065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polymer BLDG				
	Load Spoils from Stockpile Cat 446 Backhoe Loader C446 9MT-17+/30" Bucket-1.5cy Loader	45.82	cy		

	Haul Spoils/Off Site 18cy Rear Dump 2.00 Hour/Load	45.82	cy		
	Layout Piles	35.00	ea		
	Mobilize/Demobilize Auger Cast Pile Crew	1.00	ea		
	Augered Piles CIP 12"	1,575.00	vf		
	Handle Drilled Pier Stockpile Spoils- Loader Backhoe	45.82	cy		
	065.316316.81.40 ACP - 5' OC - 12" DIA - 46LF Deep @ Dry Polymer BLDG Total				
	31-63-16 Auger Cast Grout Piles Total				
	065 Sitework Total				
	200.31 00 10 Rigid Inclusions Total				

Thanks,
Mahendra Balkaran

CDM Smith
Office: 804.377.2283

From: ROPAIN Sebastian <sebastian.ropain@menardusa.com>
Sent: Thursday, November 14, 2024 3:19 PM
To: PASCAL Maysill <MPascal@menardusa.com>; Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Cc: MOONEY Matt <mmooney@menardusa.com>
Subject: Re: 282964-TBW-Veolia-SWTP

Mahendra,

Can you confirm the total linear footage for the CMCs supporting the Filters Basins & Pipe Gallery?

Mechanical Self Perform

200.40 00 01 Mechanical Self Perform	CCI Self Perform	OPCC		CCI Self Perform	SELECTED
	$ 14,949,396.00		$ 16,320,000.00		$ 14,949,396.00
Contact:					
Phone:					
Email:					
Submittals:					
Delivery:					
Package Scope:					
Is Minority:					

Packa	Area	ection	ement	Item	Description	Total Amount	QTY		Total Amount		QTY		Total Amount
200.40 00 01 Mechanical Self Perform						0			16,000,000				0
	01-00-00.000 GENERAL CONDITIONS					0			16,000,000				0
		00 Mechanical Self Perform				0			16,000,000				0
			* unassigned *			0			16,000,000				0
200.40 (	01-00-0(	00 Mech	* unassigned *		01-22-00.000.1-16 Mechanical Self Perform		1.00	ls	16,000,000				
			* unassigned *	Total		0			16,000,000				0
		00 Mechanical Self Perform Total				0			16,000,000				0
	01-00-00.000 GENERAL CONDITIONS Total					0			16,000,000				0
200.40 00 01 Mechanical Self Perform Total						0			16,000,000				0
					CCI Self Perform - Sage	14,949,396							14,949,396
					CUT								
					ADD								
					Shipping								
					ESCALATION TO NTP								
SUBTOTAL						14,949,396			16,000,000				14,949,396

BOND Cost	$ -	2.00%	$ 320,000.00	incl		$ -	
SALES TAX	$ -		Inc.	incl		$ -	
OTHER			Inc.				
TOTAL	$ 14,949,396		$ 16,320,000			$ 14,949,396	

Tampa Bay Water, Florida
Regional Surface WTP PDB - MECH SP
Opinion of Probable Construction Cost, December 2024, 60% Design

Estimator	Elias Andraos
Labor rate table	FL24 Tampa
Equipment rate table	2024 $6EquipRate BOF
ENR CCI	DEC 2024: 13,632.41
AACEi Class	3
Estimate Type	Design Build
Design Level	60%
Notes	
Report format	Sorted by 'Package/16CSI Sctn/Area/Element' 'Element' summary Allocate addons
Alternates	200.01 32 23, 200.01 45 23, 200.03 00 00, 200.05 00 00, 200.09 96 79, 200.13 00 00, 200.31 00 00, 200.40 00 01, 200.4

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Cost/Unit	Total Amount
200.40 00 01 Install Mechanical Piping								
02-00-00 Material Handling								
00 General Expenses								
000.020000.81.00 Assist Construction Equipment				122,240				122,240
00 General Expenses				122,240				122,240
020 Filters								
020.400000.81.01 Pipe, BWW-DI, CL, FL				18,763			/lf	18,763
020.400000.81.02 Pipe, FTW-DI, CL, FL				5,629			/lf	5,629
020.400000.81.05 48" FI - DIP FL CL AG Channel to Channel				5,629			/lf	5,629
020.400000.81.06 48"/30" FW FL DIP				5,629			/lf	5,629
020.400000.81.10 Pipe Supports				75,051			/ea	75,051
020 Filters				110,701				110,701
067 Belt Filter Press Feed Pump								
067.400000.81.01 06"/08" FL DIP TS / PRW -DI Thickened Solids Line & Bypass				3,753			/lf	3,753
067 Belt Filter Press Feed Pump				3,753				3,753
070 Solids Dewatering								
070.400000.81.01 8" TS-DIP FL- Thickened Sludge at Belt Presses				18,763			/lf	18,763
070.400000.81.02 2-1/2" PVCWashwater Booster Pipe				13,134			/lf	13,134
070.400000.81.10 2" TSDP-PVC Polymer Feed line				1,876			/lf	1,876
070 Solids Dewatering				33,773				33,773
02-00-00 Material Handling				270,466				270,466
02-41-13 Selective Site Demolition								
053.1 North System Chemical Storage								
0533.024113.81.10 Demo Reinforced Concrete Wall		475	473	414	5,226	463	/cy	7,051
053.1 North System Chemical Storage		475	473	414	5,226	463		7,051
02-41-13 Selective Site Demolition		475	473	414	5,226	463		7,051
40-00-00 Process Interconnections								
015 High Rate Flocculation/Sedimentation - Unit 5								
015.400000.81.45 16" Pipe DI CL FL - HYOF		71,348	18	6,187			/lf	77,553
015 High Rate Flocculation/Sedimentation - Unit 5		71,348	18	6,187				77,553
017 Ozone Contactor Tank								
017.400000.81.05 48" FI - DIP FL CL AG		34,819	76	9,952			/lf	44,846
017 Ozone Contactor Tank		34,819	76	9,952				44,846
020 Filters								
020.400000.81.01 Pipe, BWW-DI, CL, FL		163,282	856	78,808	692		/lf	243,637
020.400000.81.02 Pipe, FTW-DI, CL, FL		13,383	1	2,656			/lf	16,040
020.400000.81.05 48" FI - DIP FL CL AG Channel to Channel		34,819	76	10,944			/lf	45,838
020.400000.81.06 48"/30" FW FL DIP		84,065	324	11,711	322		/lf	96,422
020.400000.81.10 Pipe Supports		255,955					/ea	255,955
020 Filters		551,504	1,257	104,118	1,014			657,892
067 Belt Filter Press Feed Pump								
067.400000.81.01 06"/08" FL DIP TS / PRW -DI Thickened Solids Line & Bypass		29,658	338	655	8		/lf	30,659
067 Belt Filter Press Feed Pump		29,658	338	655	8			30,659
070 Solids Dewatering								
070.400000.81.01 8" TS-DIP FL- Thickened Sludge at Belt Presses		94,399	1,539	1,606	32		/lf	97,577
070.400000.81.02 2-1/2" PVCWashwater Booster Pipe		8,329	397	334			/lf	9,060
070.400000.81.10 2" TSDP-PVC Polymer Feed line		10,375	993	834	2		/lf	12,204
070 Solids Dewatering		113,103	2,930	2,774	35			118,842
40-00-00 Process Interconnections		800,431	4,619	123,686	1,056			929,792
40-05-23 Stainless Steel Pipe								
005 Liquid Oxygen, Evaporators, Chillers & Pipe								
01.400523.78.00 Flanged SS Pipe 6" Dia, Vacuum Jacketed		4,040	0	1,876			/lf	5,917
005 Liquid Oxygen, Evaporators, Chillers & Pipe		4,040	0	1,876				5,917
015 High Rate Flocculation/Sedimentation - Unit 5								
015.400525.81.00 10" SR FL 316SS SCH40 - Microsand Recirculation Pipe		37,754		18,347			/lf	56,101
015 High Rate Flocculation/Sedimentation - Unit 5		37,754		18,347				56,101
017 Ozone Contactor Tank								
017.400523.81.00 4" OX - Oxygen Pipe - 316SS FL		32,267	4,434	6,105	15,023		/ lf	57,829
017.400523.81.05 4" OZ - Oxygen Pipe - 316SS FL		31,279	5,250	5,444	17,561		/lf	59,534
017.400523.81.10 4" OW/DR 316SS Pipe - Sidestream Injection		13,595	709	1,233	7		/lf	15,544
017 Ozone Contactor Tank		77,141	10,394	12,782	32,590			132,907
020 Filters								

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Cost/Unit	Total Amount
055.400523.81.00 18" SST Air Pipe		30,418		11,240			/lf	41,658
020 Filters		30,418		11,240				41,658
40-05-23 Stainless Steel Pipe		149,353	10,394	44,245	32,590			236,583
43-23-00 Pumps								
045 Drying Beds - Sludge Staging Allowance								
045.431200.81.00 Pretreatment Pond PS#3		475	527				/ea	1,002
045 Drying Beds - Sludge Staging Allowance		475	527					1,002
050 Chemical Systems								
050.432300.81.00 Micro Sand Slurry Feed Pump P-7830-5		475	527				/ea	1,002
050.432300.81.10 Coagulant Aid Polymer Transfer Pump No2 (P-7050-2) (I-17)		237	263				/ea	501
050.432300.81.20 Lime Slurry Feed Pump #9 P-7540-09 (I-19)		237	263				/ea	501
050.432300.81.30 Sulfuric Acid Pumps P-7210-9/10 (I-22)(M-53)		178	198				/ea	376
050 Chemical Systems		1,128	1,251					2,379
067 Belt Filter Press Feed Pump								
067.432300.81.00 Thickened Sludge Feed Pump - P5030-7		178	198				/ea	375
067 Belt Filter Press Feed Pump		178	198					375
43-23-00 Pumps		1,780	1,975					3,756
43-41-45 Fiberglass Reinforced Plastic Tanks								
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.434145.81.00 Horizontal FRP Tank T-7600-3- Sodium Hypochlorite - 25,000gal		178	198				/ea	376
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids		178	198					376
053 Ferric Sulfate - South System Chemical Storage 2								
053.434145.81.00 Horizontal FRP Tank T-7300-3- Ferric Sulfate - 25,000gal (M-47)		178	198				/ea	376
053 Ferric Sulfate - South System Chemical Storage 2		178	198					376
057 Ferric Sulfate - North System Chemical storage								
057.434145.81.00 Horizontal FRP Tank T-7300-5- Ferric Sulfate - 25,000gal (M-53)		178	198				/ea	376
057 Ferric Sulfate - North System Chemical storage		178	198					376
43-41-45 Fiberglass Reinforced Plastic Tanks		534	593					1,127
46-30-00 Chemical Feed Systems & Equipment								
005 Liquid Oxygen, Evaporators, Chillers & Pipe								
01.400523.78.00 Flanged SS Pipe 6" Dia, Vacuum Jacketed		25,629					/lf	25,629
005 Liquid Oxygen, Evaporators, Chillers & Pipe		25,629						25,629
010 Ozone Generation Building 3								
010.463000.81.00 Ozonation & PSU		115,331					/ea	115,331
010 Ozone Generation Building 3		115,331						115,331
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.463000.81.00 Sodium Hypochlorite Skids P-7610-8/9/10/11		950	1,053				/ea	2,003
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids		950	1,053					2,003
052 Dry Chemical Feed Building 3 - Lime								
050.463000.81.10 Lime Storage Silo & Feed System		237	263				/ea	501
052 Dry Chemical Feed Building 3 - Lime		237	263					501
054 Coagulant Aid Polymer Building								
054.463000.81.00 Coagulant Aid Dry Polymer Feed Hopper, Pumps, Tanks & Mixers		712	790				/ea	1,502
054 Coagulant Aid Polymer Building		712	790					1,502
056 Sodium Hydroxide - South								
056.463000.81.00 Sodium Hydroxide NaOH Recirculation Pump 9 (M-47)		237	263				/ea	501
056 Sodium Hydroxide - South		237	263					501
057 Ferric Sulfate - North System Chemical storage								
057.463000.81.00 Ferric Sulfate Pump Skids P-7310-7/8		475	527				/ea	1,002
057 Ferric Sulfate - North System Chemical storage		475	527					1,002
070 Solids Dewatering								
070.463000.81.00 Polymer Pump Skids		237	263				/ea	501
070 Solids Dewatering		237	263					501
46-30-00 Chemical Feed Systems & Equipment		143,809	3,160					146,970
46-76-00 Dewatering Equipment								
070 Solids Dewatering								
070.467600.81.01 2m Belt Filter Press		2,493	2,765				/ea	5,258
070 Solids Dewatering		2,493	2,765					5,258
46-76-00 Dewatering Equipment		2,493	2,765					5,258
200.40 00 01 Install Mechanical Piping		**1,098,876**	**23,980**	**438,812**	**38,872**	**463**		**1,601,002**
200.40 00 011 Install Mechanical Equipment								
02-00-00 Material Handling								

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Cost/Unit	Total Amount
005 Liquid Oxygen, Evaporators, Chillers & Pipe								
005.463000.81.00 Liquid Oxygen, 1 tank, 2 vaporizers, valves, Chiller				9,381			/ls	9,381
005 Liquid Oxygen, Evaporators, Chillers & Pipe				9,381				9,381
010 Ozone Generation Building 3								
010.432300.81.01 Sidestream Injection Pumps & 42" Diffuser Tube P-3417				3,753			/ea	3,753
010 Ozone Generation Building 3				3,753				3,753
015 High Rate Flocculation/Sedimentation - Unit 5								
015.432300.81.00 Microsand Recirculation Pumps				3,753			/ea	3,753
015.464100.81.00 Submersible Mixers - Incl. w/ Actiflo Equipment				5,629			/ea	5,629
015.464300.81.00 Actiflo Sedimentation & Clarification System - 33mgd				9,381			/ea	9,381
015 High Rate Flocculation/Sedimentation - Unit 5				18,763				18,763
017 Ozone Contactor Tank								
017.464100.81.00 Submersible Mixers				1,876			/ea	1,876
017 Ozone Contactor Tank				1,876				1,876
020 Filters								
020.400551.81.00 Surface Mounted SS Slide Gates				28,144			/ea	28,144
020.466100.81.00 Leopold Filter System Underdrain, Media & Troughs, Controls				37,526			/ea	37,526
020 Filters				65,670				65,670
050 Chemical Systems								
050.432300.81.00 Micro Sand Slurry Feed Pump P-7830-5				11,258			/ea	11,258
050.432300.81.10 Coagulant Aid Polymer Transfer Pump No2 (P-7050-2) (I-17)				4,222			/ea	4,222
050.432300.81.20 Lime Slurry Feed Pump #9 P-7540-09 (I-19)				4,222			/ea	4,222
050 Chemical Systems				19,701				19,701
052 Dry Chemical Feed Building 3 - Lime								
050.463000.81.10 Lime Storage Silo & Feed System				75,051			/ea	75,051
052 Dry Chemical Feed Building 3 - Lime				75,051				75,051
067 Belt Filter Press Feed Pump								
067.432300.81.00 Thickened Sludge Feed Pump - P5030-7				1,876			/ea	1,876
067 Belt Filter Press Feed Pump				1,876				1,876
070 Solids Dewatering								
070.467600.81.01 2m Belt Filter Press				197,010			/ea	197,010
070 Solids Dewatering				197,010				197,010
052.1 Dry Chemical Feed Building 2 - Existing								
0521.024113.81.00 Demo Lime Equipment, Pipe, Fittings & Valves				3,753			/ls	3,753
052.1 Dry Chemical Feed Building 2 - Existing				3,753				3,753
02-00-00 Material Handling				396,834				396,834
02-41-13 Selective Site Demolition								
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.024113.81.00 Demo Existing Pumps		9,180	2	9,264		407	/ea	18,852
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids		9,180	2	9,264		407		18,852
070 Solids Dewatering								
070.024113.81.00 Demolition Existing Platforms & Belt Filter Presses		141,708		115,363		10,199	/ea	267,269
070.024113.81.10 Demo Existing Conveyors & Conveyor Supports		81,924		101,504		586	/ls	184,013
070 Solids Dewatering		223,631		216,867		10,785		451,282
052.1 Dry Chemical Feed Building 2 - Existing								
0521.024113.81.00 Demo Lime Equipment, Pipe, Fittings & Valves		35,496	5	28,799		1,139	/ls	65,438
052.1 Dry Chemical Feed Building 2 - Existing		35,496	5	28,799		1,139		65,438
053.1 North System Chemical Storage								
0533.024113.81.00 Demo 4' Dia Hydrogen Peroxide HDPE Tank & Piping		18,457	4,730	7,557		65	/ea	30,809
053.1 North System Chemical Storage		18,457	4,730	7,557		65		30,809
02-41-13 Selective Site Demolition		286,764	4,736	262,486		12,395		566,381
40-05-51 Slide Gates								
020 Filters								
020.400551.81.00 Surface Mounted SS Slide Gates		124,036	8,257	72,759		48,799	/ea	253,850
020 Filters		124,036	8,257	72,759		48,799		253,850
40-05-51 Slide Gates		124,036	8,257	72,759		48,799		253,850
43-23-00 Pumps								
010 Ozone Generation Building 3								
010.432300.81.01 Sidestream Injection Pumps & 42" Diffuser Tube P-3417		39,807	18,043	24,253			/ea	82,103
010 Ozone Generation Building 3		39,807	18,043	24,253				82,103
015 High Rate Flocculation/Sedimentation - Unit 5								

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Cost/Unit	Total Amount
015.432300.81.00 Microsand Recirculation Pumps		44,436	8,366	24,253		28,466	/ea	105,521
015 High Rate Flocculation/Sedimentation - Unit 5		44,436	8,366	24,253		28,466		105,521
045 Drying Beds - Sludge Staging Allowance								
045.431200.81.00 Pretreatment Pond PS#3		32,479	6,937	36,108			/ea	75,524
045 Drying Beds - Sludge Staging Allowance		32,479	6,937	36,108				75,524
050 Chemical Systems								
050.432300.81.00 Micro Sand Slurry Feed Pump P-7830-5		39,839	6,937	3,235			/ea	50,012
050.432300.81.10 Coagulant Aid Polymer Transfer Pump No2 (P-7050-2) (I-17)		14,821	3,469				/ea	18,289
050.432300.81.20 Lime Slurry Feed Pump #9 P-7540-09 (I-19)		14,821	3,469				/ea	18,289
050.432300.81.30 Sulfuric Acid Pumps P-7210-9/10 (I-22)(M-53)		36,596	3,469	14,331			/ea	54,396
050 Chemical Systems		106,076	17,343	17,567				140,985
067 Belt Filter Press Feed Pump								
067.432300.81.00 Thickened Sludge Feed Pump - P5030-7		12,931	3,469	345			/ea	16,744
067 Belt Filter Press Feed Pump		12,931	3,469	345				16,744
43-23-00 Pumps		235,730	54,157	102,525		28,466		420,878
43-41-45 Fiberglass Reinforced Plastic Tanks								
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.434145.81.00 Horizontal FRP Tank T-7600-3- Sodium Hypochlorite - 25,000gal		33,513	4,309	8,717			/ea	46,538
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids		33,513	4,309	8,717				46,538
053 Ferric Sulfate - South System Chemical Storage 2								
053.434145.81.00 Horizontal FRP Tank T-7300-3- Ferric Sulfate - 25,000gal (M-47)		33,513	4,309	8,717			/ea	46,538
053 Ferric Sulfate - South System Chemical Storage 2		33,513	4,309	8,717				46,538
057 Ferric Sulfate - North System Chemical storage								
057.434145.81.00 Horizontal FRP Tank T-7300-5- Ferric Sulfate - 25,000gal (M-53)		33,513	4,309	8,717			/ea	46,538
057 Ferric Sulfate - North System Chemical storage		33,513	4,309	8,717				46,538
43-41-45 Fiberglass Reinforced Plastic Tanks		100,538	12,928	26,150				139,615
46-30-00 Chemical Feed Systems & Equipment								
005 Liquid Oxygen, Evaporators, Chillers & Pipe								
005.463000.81.00 Liquid Oxygen, 1 tank, 2 vaporizers, valves, Chiller		158,805	6,110	151,866	290,326		/ls	607,106
005 Liquid Oxygen, Evaporators, Chillers & Pipe		158,805	6,110	151,866	290,326			607,106
010 Ozone Generation Building 3								
010.463000.81.00 Ozonation & PSU		203,836	34,450	30,724			/ea	269,010
010.463000.81.01 Ozone Destruct Units		76,888					/ea	76,888
010.463000.81.02 Air Compressor Unit		25,230		11,037		4,880	/ea	41,147
010 Ozone Generation Building 3		305,953	34,450	41,761		4,880		387,044
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.463000.81.00 Sodium Hypochlorite Skids P-7610-8/9/10/11		53,713	6,937	19,833			/ea	80,483
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids		53,713	6,937	19,833				80,483
052 Dry Chemical Feed Building 3 - Lime								
050.463000.81.10 Lime Storage Silo & Feed System		273,515	10,406	120,721		56,932	/ea	461,573
052 Dry Chemical Feed Building 3 - Lime		273,515	10,406	120,721		56,932		461,573
054 Coagulant Aid Polymer Building								
054.463000.81.00 Coagulant Aid Dry Polymer Feed Hopper, Pumps, Tanks & Mixers		92,785	49,191	47,200			/ea	189,176
054 Coagulant Aid Polymer Building		92,785	49,191	47,200				189,176
056 Sodium Hydroxide - South								
056.463000.81.00 Sodium Hydroxide NaOH Recirculation Pump 9 (M-47)		14,175	3,469	4,958			/ea	22,602
056 Sodium Hydroxide - South		14,175	3,469	4,958				22,602
057 Ferric Sulfate - North System Chemical storage								
057.463000.81.00 Ferric Sulfate Pump Skids P-7310-7/8		26,359	2,313	9,916			/ea	38,588
057 Ferric Sulfate - North System Chemical storage		26,359	2,313	9,916				38,588
070 Solids Dewatering								
070.463000.81.00 Polymer Pump Skids		46,425	21,652	35,526			/ea	103,604
070 Solids Dewatering		46,425	21,652	35,526				103,604
46-30-00 Chemical Feed Systems & Equipment		971,730	134,528	431,781	290,326	61,812		1,890,176
46-41-00 Mixing Equipment								
015 High Rate Flocculation/Sedimentation - Unit 5								
015.464100.81.00 Submersible Mixers - Incl. w/ Actiflo Equipment		73,422	37,877	36,379			/ea	147,678
015 High Rate Flocculation/Sedimentation - Unit 5		73,422	37,877	36,379				147,678
017 Ozone Contactor Tank								
017.464100.81.00 Submersible Mixers		42,452	19,758	48,506			/ea	110,716
017 Ozone Contactor Tank		42,452	19,758	48,506				110,716

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Cost/Unit	Total Amount
46-41-00 Mixing Equipment		115,874	57,635	84,885				258,394
46-43-00 Clarifier Equipment								
015 High Rate Flocculation/Sedimentation - Unit 5								
015.464300.81.00 Actiflo Sedimentation & Clarification System - 33mgd		172,545	4,303	190,027		19,520	/ea	386,395
015 High Rate Flocculation/Sedimentation - Unit 5		172,545	4,303	190,027		19,520		386,395
46-43-00 Clarifier Equipment		172,545	4,303	190,027		19,520		386,395
46-61-00 Filtration Equipment								
020 Filters								
020.466100.81.00 Leopold Filter System Underdrain, Media & Troughs, Controls		856,724	6,622	630,377	3,593	68,038	/ea	1,565,354
020 Filters		856,724	6,622	630,377	3,593	68,038		1,565,354
46-61-00 Filtration Equipment		856,724	6,622	630,377	3,593	68,038		1,565,354
46-76-00 Dewatering Equipment								
070 Solids Dewatering								
070.467600.81.00 Belt Conveyor		148,576	8,829	162,712			/lf	320,117
070.467600.81.01 2m Belt Filter Press		814,649	176,582	214,780		11,386	/ea	1,217,397
070 Solids Dewatering		963,224	185,412	377,492		11,386		1,537,514
46-76-00 Dewatering Equipment		963,224	185,412	377,492		11,386		1,537,514
200.40 00 011 Install Mechanical Equipment		**3,827,164**	**468,578**	**2,575,316**	**293,919**	**250,415**		**7,415,392**
200.40 00 10 Supply Mechanical Piping								
40-00-00 Process Interconnections								
050 Chemical Systems								
050.432300.81.00 Micro Sand Slurry Feed Pump P-7830-5							/ea	
050.432300.81.10 Coagulant Aid Polymer Transfer Pump No2 (P-7050-2) (I-17)							/ea	
050.432300.81.20 Lime Slurry Feed Pump #9 P-7540-09 (I-19)							/ea	
050.432300.81.30 Sulfuric Acid Pumps P-7210-9/10 (I-22)(M-53)							/ea	
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Skids								
051.434145.81.00 Horizontal FRP Tank T-7600-3- Sodium Hypochlorite - 25,000gal							/ea	
052 Dry Chemical Feed Building 3 - Lime								
050.463000.81.10 Lime Storage Silo & Feed System							/ea	
053 Ferric Sulfate - South System Chemical Storage 2								
053.434145.81.00 Horizontal FRP Tank T-7300-3- Ferric Sulfate - 25,000gal (M-47)							/ea	
057 Ferric Sulfate - North System Chemical storage								
057.434145.81.00 Horizontal FRP Tank T-7300-5- Ferric Sulfate - 25,000gal (M-53)							/ea	
070 Solids Dewatering								
070.400000.81.02 2-1/2" PVCWashwater Booster Pipe							/lf	
070.400000.81.10 2" TSDP-PVC Polymer Feed line							/lf	
40-05-25 Stainless Steel Pipe								
005 Liquid Oxygen, Evaporators, Chillers & Pipe								
005.463000.81.00 Liquid Oxygen, 1 tank, 2 vaporizers, valves, Chiller			325,326				/ls	325,326
005 Liquid Oxygen, Evaporators, Chillers & Pipe			325,326					325,326
40-05-25 Stainless Steel Pipe			325,326					325,326
200.40 00 10 Supply Mechanical Piping			**325,326**					**325,326**

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	4,926,040		49,034.495 hrs	
Material	817,884			
Equipment	3,014,128		25,814.108 hrs	
Subcontract	332,791			
Other	250,878			
Other Misc Expenses				
Hot Taps / Existing Concrete Cores	400,000			
Small Pipe - Not Detailed	150,000			
Small Valves - Not Detailed	150,000			
Misc Pipe Supports - Not Detailed	300,000			
Dewatering Building Mod - Not Detailed	200,000			
Filter Gallery Masonry Mod - Not Detailed	150,000			
Specialty Lifting tools/materials	40,000			
General Conditions				
Mech SP - General Conditions	4,217,675			
Total		***14,949,396***		

"This Opinion of Probable Construction Cost is produced in accordance with CDM Smith's Firmwide Quality policies and best practices as described in CDM Smith's Estimating Manual Dated 01/03/23 Section 10 titled Quality Control. I hereby acknowledge that the Cost Estimating policies and procedures were followed in preparation of the Opinion of Probable Cost".

Estimator initials - EA

Estimate Reviewer - JJ

Landscaping

400.46 76 30 Landscaping		OPCC	OPCC	SELECTED	SUB 1			SUB 2		
		$ 306,000.00		$ 306,000.00			$ -			$ -
Contact:							Sub 1 Contact			Sub 2 Contact
Phone:							Sub 1 Phone			Sub 2 Phone
Email:							Sub 1 Email			Sub 2 Email
Submittals:							Sub 1 Submittals			Sub 2 Submittals
Delivery:							Sub 1 Delivery			Sub 2 Delivery
Package Scope:							Sub 1 Package			Sub 2 Package
Is Minority:							Sub 1 Is Minority			Sub 2 Is Minority
Packa Area ection ement Item	Description	Total Amount	QTY	Total Amount		QTY	Total Amount		QTY	Total Amount
	400.46 76 30 Landscaping	300,000		300,000						
	CUT									
	ADD									
	Shipping									
	ESCALATION TO NTP									
SUBTOTAL		300,000		300,000			-			-
BOND Cost		$ 6,000.00	2.00%	$ 6,000.00	2.00%		$ -	2.00%		$ -
SALES TAX		Inc.		Inc.	7.50%		$ -	7.50%		$ -
OTHER		Inc.		Inc.						
TOTAL		$ 306,000.00		$ 306,000.00			$ -			$ -

Cathodic Protection

400.46 76 41 Cathodic Protection		OPCC	OPCC		SELECTED	SUB 1			SUB 2		
		$ 306,000.00			$ 306,000.00			$ -			$ -
Contact:								Sub 1 Contact			Sub 2 Contact
Phone:								Sub 1 Phone			Sub 2 Phone
Email:								Sub 1 Email			Sub 2 Email
Submittals:								Sub 1 Submittals			Sub 2 Submittals
Delivery:								Sub 1 Delivery			Sub 2 Delivery
Package Scope:								Sub 1 Package			Sub 2 Package
Is Minority:								Sub 1 Is Minority			Sub 2 Is Minority
Packa Area	ection ement Item Description	Total Amount	QTY		Total Amount		QTY	Total Amount		QTY	Total Amount
	400.46 76 41 Cathodic Protection	300,000			300,000						
	CUT										
	ADD										
	Shipping										
	ESCALATION TO NTP										
SUBTOTAL		300,000			300,000			-			-
BOND Cost		$ 6,000.00	2.00%		$ 6,000.00	2.00%		$ -	2.00%		$ -
SALES TAX		Inc.			Inc.	7.50%		$ -	7.50%		$ -
OTHER		Inc.			Inc.						
TOTAL		$ 306,000.00			$ 306,000.00			$ -			$ -

Electrical, Instrumentation & Controls

503.26 00 00 Electrical & I/C	CCI E&A	OPCC		CCI E&A	SELECTED
	$ 16,163,712.24		$ 15,003,994.52		$ 16,163,712.24
Contact:	Sub 1 Contact				Sub 1 Contact
Phone:	Sub 1 Phone				Sub 1 Phone
Email:	Sub 1 Email				Sub 1 Email
Submittals:	Sub 1 Submittals				Sub 1 Submittals
Delivery:	Sub 1 Delivery				Sub 1 Delivery
Package Scope:	Sub 1 Package				Sub 1 Package
Is Minority:	Sub 1 Is Minority				Sub 1 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount
503.26 00 00 Electrical	0		10,954,090		0
26-00-00.000 ELECTRICAL	0		10,954,090		0
503.26 00 00 Electrical Total	0		10,954,090		0
504.40 60 00 Instrumentation	0		4,049,905		0
40-70-00.000 MEASUREMENT & CONTROL INSTRUMENTS - I&C	0		4,049,905		0
504.40 60 00 Instrumentation Total	0		4,049,905		0
Electrical & Automation	16,163,712				16,163,712
CUT					
ADD					
Shipping					
ESCALATION TO NTP					
SUBTOTAL	16,163,712		15,003,995		16,163,712
BOND Cost			Inc.	inc	
SALES TAX			Inc.	incl	
OTHER			Inc.		
TOTAL	$ 16,163,712.24		$ 15,003,994.52		$ 16,163,712.24

4012 Gulfstream Drive
Bryan, TX 77808

December 18, 2024

CDM Smith Constructors Inc.

Subject: Tampa Bay Water RSWTP – Veolia Proposal Letter for GMP 60% Design

Dear: Stephen M. Solters | DBIA

CDM Smith, Constructors Group, is pleased to submit the Electrical and Controls Integration Scope of Services Proposal on the above referenced project. The intent of this document is to outline the Scope of Work for of the Electrical and Controls, to integrate Tampa Bay Water RSWTP based off the specifications and drawing documentation listed below:

Tampa_Bay_Water_-_Veolia_60__Specifications_AUGUST_2024
Tampa_Bay_Water_-_Veolia_60__Drawings_AUGUST_2024
Tampa_Bay_Water_-_Veolia_60__Drawings_AUGUST_2024_CCI_AE Self Perform SOW

The following is the scope of work we've included in this proposal.

Automation

- **Integration and Programming Inclusions:**

- **Panels:**

1. Qty 3 – PLC Panels (PLC-CAP and PLC-CFCP-3)
    - To include Enclosure, PLC parts, Power Supply, OIT, Ethernet Switch, UPS, Heater, A/C unit, Fan and Filter Kits, Breakers, Fuses, Relays, Isolators, Terminal Blocks, and recommended spares as required in drawings and specifications.
2. 1 – Lot: Engineering Services for Programming, Test, and Commissioning
3. Provide submittals and O&M documents for all furnished instrumentation and equipment.

- **PLC & HMI Software:**

4. Modifying existing HMI Software for Historian and Reports as required.
5. 1 – Lot: Engineering Services for Programing, Testing and Commissioning.

➢ **Instrumentation:**

6. Magnetic Flow Meters
    - Qty – 3 (1-1/2") (FE/FIT-7531-3, FE/FIT-7527-3, FE/FIT-7531-4)
    - Qty – 1 (4") (FE/FIT-5040-7)
    - Qty – 4 (30") (FE/FIT-4040-16, FE/FIT-4050-16, FE/FIT-4040-17, FE/FIT-4040-18)
    - Qty – 1 (42") (FE/FIT-1450)
7. Rotameters
    - Qty – 4 (FI-7830-5, FI-7000-5, FI-7000-6, FI-7540-9)
8. Flow Switch
    - Qty – 9 (FSL-2440-1, FSL-2440-2, FS-7830-5, FSL-7540-5, FSL-7540-6, FSL-7540-7, FSL-7540-8, FS-5030-7, & FSL-5030-7)
9. Level Switch Float Type
    - Qty – 6 (LSH-7380-4, LSH-7300-4, LSH-7380-5, LSH-7300-5, LSH-7680-3, & LSH-7600-3)
10. Differential Pressure Transmitter
    - Qty – 3 (DPIT-4030-16, DPIT-4030-17, & DPIT-4030-18)
11. Pressure Transmitter
    - Qty – 1 (PIT-3470-1)
12. Pressure Gauge
    - Qty – 17 (PI-8000-1, PI-7000-1, PI-7005-3, PI-7040, PI-7830-5B, PI-7540-5,6,7,8, 9, 10, PI-5030-7A, PI-5030-7B, & PI-3400-1,2, PI-3405-1,2)
13. Pressure Gauge with Diaphragm Seal
    - Qty – 6 (PI-3417-1, PI-3417-2, PI-7830-5, PI-7310-7,8,9)
14. Pressure Switch
    - Qty – 8 (PSHL-3417-1, PSHL-3417-2, PSL-7005-3, PSL-7522-3, PSL-7522-4, PSH-5030-7, & PSH-7830-5, PSL-7830-5)
15. Ultrasonic Level Transmitter
    - Qty – 8 (LIT/LE-4005-16, 17,18, LIT/LE-7015-5,6, LIT/LE-7300-4,5, & LIT/LE-7600-3)
16. Capacitance Level Transmitter with Sensor
    - Qty – 2 (LIT/LE-7530-3, & LIT/LE-7530-4)
17. PH Analyzer
    - Qty – 1 (AIT/AE-3460-1)
18. SPH/Temperature Analyzer
    - Qty – 1 (AIT/AE/TIT-3415)
19. Turbidity Meter
    - Qty – 4 (AIT/AE-3465-1, & AIT/AE-4035-16, 17,18)
20. 1 – Lot: Technician Service for Testing, Start-up, and Calibration.

21. Ethernet Switches are provided in PLC and Remote Site Panels per the network diagram.
22. Cost includes continuity test, point to point testing, and documentation for all controls and electrical equipment.
23. Spare Parts are provided per specifications for the divisions included in this proposal.

Electrical

- The following scope applies to the existing Water Treatment Facility for the following buildings/areas:
  - Ozone Generator Building
  - Ozone Contactor Building
  - Actiflo Building
  - North Polymer Storage Building
  - Chiller and LOX Pad
  - New Filters (16-18) Building
  - South Lime Chemical Storage Building

1. Provie and install electrical gear per the contract documents and listed below, sales taxes included: *This proposal includes gear that is provided by Siemens. A deduct can be applied if Square-D is approved.*
   - MCC 6A-B 1200amps/480V
   - PDP-13 480V/225A 65KAIC Nema 4x SS
   - PDP-14 480V/100A 65KAIC Nema 4x SS
   - PDP-15 480V/100A 65KAIC Nema 4x SS
   - 4- 45amp New breakers @ MCC-3A
   - 3- 45amp New breakers @ MCC-3B
   - 1- 100amp New breaker @ MCC-4A
   - 1- 100amp New breaker @ MCC-4B
   - 1- 100amp New breaker @ MCC-5A
   - 1- 100amp New breaker @ MCC-5B
   - 1-25amp New breaker @ PDP-3
   - 3-20amp New breaker @ PDP-3
   - MTS-13 100Amps
   - MTS-15 100Amps
   - MTS-06 100Amps
   - Transformer 45KVA TR-6
   - Panelboard LP-6
   - MTS-14 100Amps
   - Transformer 30KVA
   - Panelboard LP-13
   - Transformer 45KVA
   - Panelboard LP-14
   - Transformer 45KVA
   - Panelboard LP-15

2. Offload, storage and install electrical gear provided by others per the contract documents, and listed below:

- 2-ea 1000KVA Transformer WPF

3. Provide and install temporary power for the construction trailers (7ea) including 4 light poles at the trailers area. Electrical subcontractor will not be responsible for power connection or fees to the power company. Power source (240V/120V) assumed at no more that 200lf from the construction trailers area.
4. Provide and install temporary power for the construction area. Power source (120V) to be determined by the owner. Power source (120V) assumed at no more that 200lf from the construction area. Electrical subcontractor will not be responsible for power connection or fees to the power company.
5. Supply and install 15KV feeders from existing MCC-4 to New Ozone building transformers and 480V to MCC-6A-B, including manholes, terminations, testing, and arc proofing tape per the contract documents. Existing 5" conduits from 15KV SWGR to MH-4 will be used with new conduit installation from MH-4 to Ozone building. Underground concrete encased conduits from pipe gallery to new ozone building.
6. Supply and install power and control conduits and wires as shown on the contract drawings to buildings (Ozone, Actiflo, Polymer, New filters, and South lime chemical) including electrical gear listed above, equipment feeders, instruments power and control, lighting, receptacles, etc. Control cables loop testing included.
7. Wire Terminations at all equipment, instrumentation, and control panels.
8. Testing of all wire/cables per the contract documents. Includes:
    - Continuity Testing
    - Point to Point Testing
    - NETA Testing acceptance test; the maintenance test will be completed using infrared testing.
9. Supply, install, and test CAT6 and Fiber Optic Cable (12strands/Multimode) per the contract drawings.
10. Supply and install a complete grounding system at the new buildings/slabs per the contract documents.
11. Provide labor and materials to install non-inline instruments including transmitters per the contract document. Transmitters will be mounted per drawing locations and elevations. (Labor to install inline instruments by others.) In-line instruments installed by others.
12. Supply and install structures power receptacles per the contract documents.
13. Supply and install structures lighting system including fixtures and light controls per the contract documents.
14. Supply and install site lighting fixtures including pole bases and handholes per the contract documents.
15. Supply and install lightning protection system UL listed with master label and shop drawings per the contract documents. Roof penetrations sealed by others.
16. Provide labor and support during the electrical equipment start-up and commissioning. (Not to exceed 600 hours).
17. Electrical conduits and wire demolition included, demolition of equipment, building or slab by others. Existing breakers demolition/replacement to be coordinated with the plant. Assumed demolition of one breaker at a time with the entire MCC section deenergized for a

period of 4hrs per breaker. No temporary power included for this procedure.
18. Training Plan submittal and Test Procedure submittal are included.
19. Training is provided as required per the above specifications.
20. This proposal includes a Quality Control Management program that includes periodic site visits throughout the job.
21. Spare Parts are provided per specifications for the divisions included in this proposal.
22. Ozone building and South Lime Building Fire alarm system is included.
23. Electrical coordination, short circuit and Arc flash studies for the equipment provided only.
24. 1ea LVMH Power and 2ea CMH Communication manholes are provided.

- **Clarifications:**

1. Appendix 1 lists all tag names of the furnished instrumentation found in the Vendor Scope Highlight Documents Drawing Package.
2. Ethernet Switches, Routers, Firewalls, and access points are provided in control panels and Network Cabinets per the network diagram.
3. This scope includes all programming, configuration, and integration to provide a complete and working system as intended in the drawings and specifications.
4. This scope includes all terminations and testing for wiring and communications end-to-end for all instrumentation and controls panels listed in the Inclusions section.
5. This scope includes all wire labels for all terminations completed.
6. This scope includes instrument trees and seals diaphragm or annular for instrumentation furnished under this proposal as required in the drawings after the last point of isolation. (i.e. ball valves)
7. All control panels will include clean drawings sets and all QAQC documentation following the UFT/WFT.
8. Loop testing is included in this scope of work.
9. This scope includes a technician on-site during functional testing with the automation engineer to aid in troubleshooting, loops, etc for a successful and more efficient test.
10. No overtime is included. Regular working hours will be Monday through Friday from 7am until 3:30pm.
11. Training is provided as required per the above specifications.
12. Coordination of vendors by others.
13. Training Plan submittal and Test Procedure submittal are included.
14. Instrumentation will be installed per the contract drawings.
15. Cost includes continuity test, point to point testing, and documentation for all controls and electrical equipment.
    - Continuity is a wire that has been tested for integrity from start to finish.
    - Point to point is an accurate landed wire from start to finish.
    - Loop check is checking signal from HMI to end of line.
16. Equipment being provided will be purchased and installed following an approved submittal. If after delivery and/or installation, the project team has decided the equipment does not meet requirements, then this will result in a design change and is not included in this proposal.
17. Spare Parts are provided per specifications for the divisions included in this proposal.
18. The Functional Demonstration Test will not begin until the following sequencing of events

has occurred and are signed off.

- Equipment Testing
- Vendor Equipment Testing has been completed and documentation has been received.
- Mechanical Equipment testing

19. Native soil only to be used to backfill electrical trenching and excavation.
20. Lightning protection is included for Ozone Contactor, Generator building, South Lime building, North Polymer building and Filter building.
21. Heat Trace is included in this proposal.
22. Electrical Engineering entire plant arc flash and short circuit coordination study is excluded.
23. Temporary power and lighting is included in this proposal not to exceed $75,000.
24. The price is only valid for 30 days.

- **Exclusions:**

1. Vendor PLC/RIO panels as shown in Matrix provided at bid time.
2. Factory Acceptance Testing travel and lodging.
3. Furnish and installation of any grouting for any instrumentation, panels, or stands.
4. Demolition is not included in this proposal.
5. All steel structures or structural reinforcement for mounting Disconnects on roofs.
6. Installation of Utility Transformer, CT's, primary wiring and terminations are excluded.
7. Supply 2ea – 100KVA transformers are excluded from this proposal. Transformers provided by others only installation included.
8. Auxiliary contacts and wiring for Disconnects as shown detail P.
9. Roof penetrations.
10. Seismic calculations are excluded.
11. Trash dumpster.
12. Extended Warranties for any equipment, instrumentation, and controls is not provided in this proposal.
13. Furniture for any buildings, including control room are not included in this proposal.
14. Utility power company fees including power consumption for contractor and sub-contractor trailers.
15. This proposal excludes third party surveying costs for duct bank and manhole elevations and locations. Buoyancy calculations are not included dewatering is also not included.
16. This proposal excludes ANY/ALL Mechanical Process fittings, piping, flanges, /annular seals, etc.
17. Internet service cost.
18. Installation of inline instrumentation.
19. ANY/ALL formed concrete.
20. Telecommunication handholes.
21. Removal of spoil material.
22. Utility power company fees including power consumption for contractor and sub-contractor trailers.
23. Taking Sub-grade back to finish grade after installation of underground ducting and equipment installation.
24. MWBE participation.
25. Bleed valves, shutoff valves, test taps, drain valves, piping, fitting, and tubing.

26. All line valves/actuators.
27. Security Access System is excluded from this proposal.
28. All "Civil" work including building and vessel modifications, asphalt demolition, patching, concrete foundations piers etc.
29. Excluding LCP- TFP-7, DPCP-1, and DPCP-2.
30. Excluding catholic protection.
31. Excluding Belt Filter Press Panels.
32. Excluding Ozone Press Panels.

- **Training**
  This proposal includes the training, as required, in the specifications for the electrical equipment, instrumentation, and controls furnished by CCI Automation and Electrical as listed in this document.

- **Warranty**
  CDM Smith shall provide a 1-year warranty, beginning when equipment provided by CDM Smith is installed and energized.

CDM Smith will respond by phone to warranty support telephone calls within 24 hours and provide Client with telephone support until the issue is addressed.

Area	DB Material	Qtd Material	Total Material	Direct Hrs	Direct Labor $	Inc Labor Hrs	Inc Labor $	Indirect Hrs	Indirect Labor $	Total Hrs	Total Labor $	Subs	General Expenses	Equipment	Total
| | SITE	519,240.04	44,343.75	563,583.79	7,157.90	665,964.62	1,909.44	414,529.38	4,784.32	937,607.34	13,851.66	2,018,101.34		892,280.10	291,168.05	3,765,133.28
| | EXISTING ELECTRICAL BUILDING	9,999.60		9,999.60	172.26	16,026.92	59.67	12,954.04	149.51	29,300.23	381.44	58,281.19				68,280.79
| | SOLIDS DEWATERING BLDG 1	53,833.74		53,833.74	1,133.69	105,477.50	179.01	38,862.13	448.53	87,900.69	1,761.23	232,240.32				286,074.06
| | SOLIDS DEWATERING BLDG 2	104,914.02		104,914.02	1,567.69	145,856.48	238.68	51,816.17	598.04	117,200.92	2,404.41	314,873.57				419,787.59
| | SOUTH DRY CHEMICAL BLDG	65,701.03		65,701.03	1,023.71	95,245.06	179.01	38,862.13	448.53	87,900.69	1,651.25	222,007.88				287,708.91
| | OZONE BUILDING	78,554.95		78,554.95	1,128.37	104,982.54	179.01	38,862.13	448.53	87,900.69	1,755.91	231,745.36				310,300.31
| | SOUTH LIME BUILDING	1,605.62		1,605.62	19.65	1,828.22	59.67	12,954.04	149.51	29,300.23	228.83	44,082.49				45,688.11
| | DRY CHEM FEED BLDG	22,823.84		22,823.84	554.43	51,583.67	59.67	12,954.04	149.51	29,300.23	763.61	93,837.94				116,661.78
| | NORTH CHEM FEED PUMP BLDG	45,140.34		45,140.34	816.36	75,953.41	119.34	25,908.09	299.02	58,600.46	1,234.72	160,461.96				205,602.30
| | FILTER GALLERY	219,854.95		219,854.95	3,565.96	331,773.73	596.7	129,540.43	1,495.10	293,002.29	5,657.76	754,316.46				974,171.41
| | POLYMER BLDG TRAIN 5	19,852.48		19,852.48	348.48	32,422.27	59.67	12,954.04	149.51	29,300.23	557.66	74,676.54				94,529.02
| | DRY CHEM BLDG 3	140,262.18		140,262.18	2,130.25	198,196.56	358.02	77,724.26	897.06	175,801.38	3,385.33	451,722.20				591,984.38
| | PROCESS TRAIN 5	642,988.55		642,988.55	8,852.85	823,661.24	1,491.75	323,851.08	3,737.75	732,505.74	14,082.35	1,880,018.06				2,523,006.61
| | COAGULANT AND FILTER AID POLYMER	125,652.86		125,652.86	2,021.65	188,092.51	358.02	77,724.26	897.06	175,801.38	3,276.73	441,618.15				567,271.01
| | SODIUM HYPOCHLORITE	175,803.90		175,803.90	831.45	77,357.37	119.34	25,908.09	299.02	58,600.46	1,249.81	161,865.92				337,669.82
| | AUTOMATION (I&C)	548,892.26		548,892.26	797	74,152.17	4,940.00	695,582.40	4,540.00	730,714.16	10,277.00	1,500,448.73		422,389.00		2,471,729.99
| | SUBCONTRACTORS												449,006.75			449,006.75
| | GEAR/FIXTURES		2,649,106.15	2,649,106.15												2,649,106.15
Final Price	2,775,120.36	2,693,449.90	5,468,570.26	32,121.70	2,988,574.27	10,907.00	1,990,986.71	19,491.00	3,660,737.11	62,519.70	8,640,298.08	449,006.75	1,314,669.10	291,168.05	16,163,712.24

Supply DIP, SST Pipe & Specialties

400.40 00 10 PO SUPPLY DI, SS Pipe & Specialties	Core & Main	OPCC		Core & Main	SELECTED	SUB 2	
	$ 6,127,325.95		$ 4,888,771.24		$ 6,127,325.95		$ -
Contact:	Emmanuel Paouris				Emmanuel Paouris		Sub 2 Contact
Phone:	864.906.6068				864.906.6068		Sub 2 Phone
Email:	emmanuel.paouris@coreandmain.com				emmanuel.paouris@coreandmain.com		Sub 2 Email
Submittals:							Sub 2 Submittals
Delivery:							Sub 2 Delivery
Package Scope:	AG Mechanical Pipe, Fittings, Accessories				AG Mechanical Pipe, Fittings, Accessories		Sub 2 Package
Is Minority:							Sub 2 Is Minority
Packa Area ection ement Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
400.40 00 10 PO SUPPLY DI, SS Pipe & Specialties	1,266,670		4,792,913		1,266,670		0
01-00-00.000 GENERAL CONDITIONS	INC		483,750		INC		0
40-00-00.000 PIPE SPECIALTIES	113,936		885,599		113,936		0
40-05-19.000 DUCTILE IRON PIPE	367,133		2,637,391		367,133		0
015 High Rate Flocculation/Sedimentation - Unit 5	INC		119,008		INC		0
017 Ozone Contactor Tank	INC		316,903		INC		0
020 Filters	367,133		2,059,137		367,133		0
067 Belt Filter Press Feed Pump	INC		34,403		INC		0
070 Solids Dewatering	INC		107,940		INC		0
40-05-19.000 DUCTILE IRON PIPE Total	367,133		2,637,391		367,133		0
40-05-23.000 STAINLESS STEEL PIPE	785,602		786,173		785,602		0
005 Liquid Oxygen, Evaporators, Chillers & Pipe	19,116		19,116		19,116		0
015 High Rate Flocculation/Sedimentation - Unit 5	210,572		289,496		210,572		0
017 Ozone Contactor Tank	121,127		129,453		121,127		0
020 Filters	434,786		348,109		434,786		0
40-05-23.000 STAINLESS STEEL PIPE Total	785,602		786,173		785,602		0
400.40 00 10 PO SUPPLY DI, SS Pipe & Specialties Total	1,266,670		4,792,913		1,266,670		0
Core & Main AG Quote	4,329,061				4,329,061		
CUT							
ADD							
Shipping							
ESCALATION TO NTP							
SUBTOTAL	5,595,731		4,792,913		5,595,731		-
BOND Cost	$ 111,914.63	2.00%	$ 95,858.26	2.00%	$ 111,914.63	2.00%	$ -
SALES TAX	$ 419,679.86		Inc.	7.50%	$ 419,679.86	7.50%	$ -
OTHER			Inc.				
TOTAL	$ 6,127,325.95		$ 4,888,771.24		$ 6,127,325.95		$ -

Bid Proposal

Tampa Bay Water Expansion Project 60%DB

Job Location: Tampa, FL
Engineer Name:
Bid Date: 12/16/2024
Bid Due Date:
Addendum Number:
Plan Sheet Date:
Core & Main Bid #: 3917187

Core & Main
6525 US Hwy 301 N
Tampa, FL 33610
Phone: 8136233343
Fax: 8136640442

Disclaimers

THIS PROJECT IS BEING BID IN ACCORDANCE WITH AIS REQUIREMENTS.

Bid Seq	Description	Description 2	Qty	UoM	Sell	Ext Sell
10	----------					
20						
30	**TAMPA BAY WATER TREATMENT**					
40	**PLANT EXPANSION 60% DB**					
50	**AIS DOMESTIC**					
60						
70	----------					
80						
90	**HIGH RATE FLOC/SED PROCESS**					
100	**TRAIN UNIT 5**					
110						
120	----------					
130						
140	**RAW WATER**					
150	**42" - RW - DIP**					
160	**FROM COAGULATION TANK 5 INF**					
170	**TO YARD INF CONN**					
180	**M-2, M-3, M-5**					
190						
200	42 FLGXWCXPE DI 2' C/L TFS USA		1	EA	22,410.41	22,410.41
210	42 FLGXFLG DI PIPE PR 3'6" PRIMED USA	PRIMED USA	1	EA	32,307.96	32,307.96
220	42" FLG DISM JT REST DOM		1	EA	12,145.82	12,145.82
	FBE COATING					
	STD B&N					
	EPDM GASKET					
260	42 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	36,150.96	36,150.96
270	42 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	3	EA	994.39	2,983.17
280	42X1/8 FLG FF EPDM GASKET		3	EA	144.38	433.14
290	42 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	1	EA	1,211.79	1,211.79
	STUD SET FOR TAPT FLG					
310	42X1/8 FLG FF EPDM GASKET		1	EA	144.38	144.38
320	----------					
330						
340	**SETTLING TANK RECIRCULATION**					
350	**10" - SR - SS**					
360	**FROM SETTLING TANK 5 CONN**					
370	**TO RECIRCULATION PUMP SUCTION**					
380	**M-2, M-3, M-4, M-5, M-6**					
390						
400	**SST PIPE, FITTINGS & FAB**					
410	**BY OTHERS**					
420						
430	16 SCH80 PVC PIPE SWB 20'		40	FT	105.11	4,204.40
440	10 FLG INS BOLT KIT 150#		4	EA	491.32	1,965.28
450	10 B8M 316SS FLG BNW KIT L/GSKT	L/GSKT	16	EA	491.32	7,861.12
460	10X1/8 FF GARLOCK GYLON3500 150#	150#	16	EA	245.57	3,929.12

470	6 B8M 316SS FLG BNW KIT L/GSKT		2	EA	221.73	443.46
480	6X1/8 FF GARLOCK GYLON3500 150#	150#	2	EA	137.06	274.12
490	10 FLG PLUG VLV HWO USA		2	EA	5,401.13	10,802.26
	PV-2440-1A					
	PV-2440-2A					
520	10" 316SS FLG DISM JT REST DOM		3	EA	4,074.08	12,222.24
	316SS B&N					
	EPDM GASKET					
550	----------					
560						
570	**SETTLING TANK RECIRCULATION**					
580	**10" - SR - SS**					
590	**FROM RECIRIC PUMPS**					
600	**TO INJECTION TANK5**					
610	**M-2, M-3, M-4, M-5, M-6**					
620						
630	10 FLG INS BOLT KIT 150#		4	EA	491.32	1,965.28
640	4 FLG INS BOLT KIT 150#		4	EA	177.78	711.12
650	10 B8M 316SS FLG BNW KIT L/GSKT	L/GSKT	41	EA	491.32	20,144.12
660	10X1/8 FF GARLOCK GYLON3500 150#	150#	41	EA	245.57	10,068.37
670	8 B8M 316SS FLG BNW KIT L/GSKT		20	EA	221.73	4,434.60
680	8X1/8 FF GARLOCK GYLON3500 150#	150#	20	EA	174.84	3,496.80
690	5 B8M 316SS FLG BNW KIT L/GSKT		2	EA	221.73	443.46
700	5X1/8 FF GARLOCK GYLON3500 150#	150#	2	EA	125.38	250.76
710	4 B8M 316SS FLG BNW KIT L/GSKT		4	EA	177.78	711.12
720	4X1/8 FF GARLOCK GYLON3500 150#	150#	4	EA	111.02	444.08
730	4 VIC CPLG F/SST #77S USA		8	EA	645.74	5,165.92
740	10 FLG PLUG VLV HWO USA		2	EA	5,401.13	10,802.26
	PV-2440-1A					
	PV-2440-2A					
770						
780	**ARV ASSEMBLY**					
790	4" FLG AIR RELEASE VALVE		2	EA	PTF	PTF
	ARV-2440-1					
	ARV-2440-2					
820	4" FLG 316SS BALL VALVE		2	EA	6,890.96	13,781.92
830	4 PVC S80 MALE ADPT 836-040		2	EA	45.72	91.44
840	4 PVC S80 90 HXH 806-040		4	EA	29.63	118.52
850	4 PVC S80 UNION HXH 857-040		2	EA	115.50	231.00
860	4 PVC SCH80 PIPE SWB 20'		40	FT	7.86	314.40
870	4 PVC SCH80 T/U BALL VLV EPDM		2	EA	979.82	1,959.64
880	----------					
890						
900	**hydrocyclone overflow**					
910	**12" - HYOF - DIP**					
920	**FROM HYDROCYCLONE UNIT**					
930	**TO YARD HYOF CONNECTION**					
940	**M-2, M-3, M-4, M-5, M-6**					
950						
960	**ASSUMING 4" IS PVC**					
970	4 PVC SCH80 PIPE SWB 20'		60	FT	7.86	471.60
980	2 PVC SCH80 PIPE SWB 20'		20	FT	2.63	52.60
990	4 PVC S80 90 HXH 806-040		16	EA	19.26	308.16
1000	4X2 PVC S80 TEE HXH 801-420		8	EA	34.36	274.88
1010	4 PVC S80 VANSTONE FLG SW SOCKET W/PVC RING	SOCKET W/PVC RING 854-040	16	EA	26.58	425.28
	854-040					
1020	4 B8M 316SS FLG BNW KIT L/GSKT		16	EA	177.78	2,844.48
1030	4X1/8 EPDM FLG GSKT FF		16	EA	4.30	68.80
1040						
1050	**TRANSITION TO DI**					
1060	4 FLG 45 C110 PR USA		8	EA	443.12	3,544.96
1070	12X2 TAPT BLIND FLG DI PR USA		2	EA	448.59	897.18
1080	12X4 FLG WYE C110 USA		2	EA	2,304.04	4,608.08
1090	12 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	2	EA	1,768.10	3,536.20
1100	12X4 FLG WYE C110 USA		2	EA	2,304.04	4,608.08
1110	12 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	2	EA	1,768.10	3,536.20
1120	12X4 FLG WYE C110 USA		2	EA	2,304.04	4,608.08
1130	12 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	2	EA	1,768.10	3,536.20
1140	12X4 FLG WYE C110 USA		2	EA	2,304.04	4,608.08

Internal Use Only

1150	12 FLG PLUG VLV HWO USA PV-2450-1 PV-2450-2		2	EA	6,680.90	13,361.80
1180	12 FLG 90 C110 PR USA		1	EA	1,665.81	1,665.81
1190	12 FLGXFLG DI PIPE PR 6' PRIMED USA	PRIMED USA	1	EA	2,504.46	2,504.46
1200	12 FLG TEE C110 PR USA		1	EA	2,608.57	2,608.57
1210	12 FLGXFLG DI PIPE PR 8' PRIMED USA W/ 2" TOL	PRIMED USA	1	EA	3,591.41	3,591.41
1230	12 FLG L/R 90 C110 PR USA		1	EA	1,745.12	1,745.12
1240	12 FLGXFLG DI PIPE PR 11'6" PRIMED USA	PRIMED USA	2	EA	3,404.46	6,808.92
1250	12 FLG WYE C110 PR USA		1	EA	2,455.39	2,455.39
1260	12 BLIND FLG DI USA		1	EA	397.53	397.53
1270	12 FLGXPE DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	1,239.14	1,239.14
1280	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	8	EA	29.30	234.40
1290	4X1/8 EPDM FLG GSKT FF		8	EA	4.30	34.40
1300	12 A307B BLK BOLT & NUT KIT L/GSKT W/12 7/8X4 B&N	L/GSKT W/12 7/8X4 B&N	27	EA	86.71	2,341.17
1310	12X1/8 FLG FF EPDM GASKET		27	EA	17.44	470.88
1320						
1330	**FLUSHING ATTACHMENT**					
1340	2" FIPTXMALE CAMLOK 316SS		2	EA	43.60	87.20
1350	2" CAMLOK FEM DUST CAP 316SS		2	EA	72.63	145.26
1360	2X6 316SS NIPPLE		4	EA	20.95	83.80
1370	2" 316SS BALL VALVE		2	EA	659.85	1,319.70
1380						
1390	**2" VENT TO INJECTION**					
1400	2 PVC SCH80 PIPE SWB 20'		20	FT	2.63	52.60
1410	2 PVC S80 MALE ADPT MIPTXH 836-020	836-020	1	EA	13.25	13.25
1420	2 PVC S80 90 HXH 806-020		2	EA	4.82	9.64
1430	2 PVC SCH80 T/U BALL VLV EPDM		1	EA	228.82	228.82
1440	----------					
1450						
1460	**HIGH RATE FLOC/SED DRAINS**					
1470	**8" - DR - C900 PVC**					
1480	**FROM HIGH RATE FLOC/SED BLDG**					
1490	**TO YARD DRAIN CONNECTIONS**					
1500	**M-2, M-3, M-4, M-5, M-6**					
1510						
1520	8 PVC C900 DR18 PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	80	FT	26.47	2,117.60
1540	8 BELL RESTRAINER F/C900 1508		3	EA	112.34	337.02
1550	6 PVC C900 DR18 PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	260	FT	15.44	4,014.40
1570	6 BELL RESTRAINER F/C900 1506		12	EA	61.92	743.04
1580	6 MJ 90 C153 USA		8	EA	177.80	1,422.40
1590	6 MJ 45 C153 USA		6	EA	145.89	875.34
1600	6 MJ WYE C153 USA		5	EA	336.45	1,682.25
1610	8X6 MJ WYE C153 USA		2	EA	547.98	1,095.96
1620	8 MJ WYE C153 USA		1	EA	670.16	670.16
1630	8 MJ 90 C153 USA		1	EA	258.04	258.04
1640	8X6 MJ RED C153 USA		1	EA	169.59	169.59
1650	6 MJ L/P SLV C153 USA		1	EA	155.92	155.92
1660	8 MJ L/P SLV C153 USA		2	EA	202.42	404.84
1670	6 MJ PLUG VLV 2 OP NUT USA PV-2430-1 PV-2430-2 PV-2430-3 PV-3412-1		4	EA	2,696.63	10,786.52
1720	5-1/4 VB LID M/SEWER USA		4	EA	24.36	97.44
1730	6850-60 26T TOP SECT THRD USA		4	EA	149.48	597.92
1740	6850-24B 24" CI BOTTOM SEC USA THREADED DOMESTIC BELL BOTTOM	THREADED DOMESTIC BELL BOTTOM	4	EA	108.51	434.04
1750	#60 VLV BOX EXT (5.25")		4	EA	114.05	456.20
1760	4' VLV STEM EXT W/CR & SS (CENTER RING AND SET SCREW)	(CENTER RING AND SET SCREW)	4	EA	711.50	2,846.00
1770	WAGER 3" BRASS TAG		4	EA	21.43	85.72

1780	6" CI CLEANOUT W/ BRASS PLUG 22 13 19, 2.2, B		1	EA	PTF	PTF
1800	6" CI ADJ FLOOR DRAIN 22 13 19.13, 2.2		6	EA	PTF	PTF
1820	1055-66 6 AC/DIXAC/DI CPLG		7	EA	17.22	120.54
1830	6 EBAA 2006PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	56	EA	66.56	3,727.36
1850	8 EBAA 2008PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	12	EA	89.14	1,069.68
1870						
1880	**8" EXPOSED DRAIN - DI**					
1890	**from settling tank 5**					
1900	8 FLGXWCXPE DI 2' C/L TFS IMP		1	EA	981.00	981.00
1910	8 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	1	EA	1,003.10	1,003.10
1920	8 FLG PLUG VLV HWO USA PV-2430-4		1	EA	3,825.85	3,825.85
1940	8 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	1,053.41	1,053.41
1950	8 FLG 90 C110 PR USA		1	EA	617.28	617.28
1960	8 FLGXFLG DI PIPE PR 10'6" PRIMED USA	PRIMED USA	1	EA	1,858.50	1,858.50
1970	8 FLGXFLG DI PIPE PR 10' PRIMED USA	PRIMED USA	1	EA	1,808.19	1,808.19
1980						
1990	**FROM MATURATION TANK 5**					
2000	8 FLGXWCXPE DI 2' C/L TFS IMP		1	EA	981.00	981.00
2010	8 FLGXFLG DI PIPE PR 3'6" PRIMED USA	PRIMED USA	1	EA	1,154.05	1,154.05
2020	8 FLG PLUG VLV HWO USA PV-2420-1		1	EA	3,825.85	3,825.85
2040	8 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	952.78	952.78
2050	8 FLG TEE C110 PR USA		1	EA	1,189.86	1,189.86
2060	8 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	952.78	952.78
2070	8 FLG 90 C110 PR USA		1	EA	617.28	617.28
2080	8 FLGXPE DI PIPE PR 4'6" PRIMED USA	PRIMED USA	1	EA	844.78	844.78
2090	8 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/2 B&N	L/GSKT W/8 3/4X3-1/2 B&N	12	EA	54.15	649.80
2100	8X1/8 FLG FF EPDM GASKET		12	EA	8.77	105.24
2110	8 A307B BLK BOLT & NUT KIT L/GSKT STUD SET FOR TAPT FLG	L/GSKT	2	EA	45.86	91.72
2130	8X1/8 FLG FF EPDM GASKET		2	EA	8.77	17.54
2140	----------					
2150						
2160	**MICROSAND PMP BASE DRAINS**					
2170	**4" - DR - C900 PVC**					
2180	**FROM MICROSAND PMP BASES**					
2190	**TO YARD DRAIN CONNECTIONS**					
2200	**M-2, M-3, M-4, M-5, M-6**					
2210						
2220	4 C900 DR18 PVC PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	120	FT	7.55	906.00
2240	4 BELL RESTRAINER F/C900 1504		5	EA	50.25	251.25
2250	4 MJ 90 C153 USA		5	EA	113.06	565.30
2260	4 MJ WYE C153 USA		3	EA	232.51	697.53
2270	4 MJ 45 C153 USA		1	EA	93.92	93.92
2280	4 MJ L/P SLV C153 USA		2	EA	104.86	209.72
2290	4 MJ PLUG VLV 2 OP NUT USA PV-2440-1C PV-2440-2C PV-2430-5		3	EA	2,039.33	6,117.99
2330	5-1/4 VB LID M/SEWER USA		3	EA	24.36	73.08
2340	6850-60 26T TOP SECT THRD USA		3	EA	149.48	448.44
2350	6850-24B 24" CI BOTTOM SEC USA THREADED DOMESTIC BELL BOTTOM	THREADED DOMESTIC BELL BOTTOM	3	EA	108.51	325.53
2360	#60 VLV BOX EXT (5.25")		3	EA	114.05	342.15
2370	4' VLV STEM EXT W/CR & SS (CENTER RING AND SET SCREW)	(CENTER RING AND SET SCREW)	3	EA	711.50	2,134.50
2380	WAGER 3" BRASS TAG		3	EA	21.43	64.29
2390	4" CI ADJ EQPT FLOOR DRAIN 22 13 19.13, 2.3		3	EA	PTF	PTF

2410	1055-44 4 AC/DIXAC/DI CPLG		3	EA	7.68	23.04
2420	4 EBAA 2004PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	31	EA	52.18	1,617.58
2440	----------					
2450						
2460	**MICROSAND PMP SEAL WATER**					
2470	**2" - PRW - S80 PVC**					
2480	**FROM YARD PRW**					
2490	**TO MICROSAND PMPS & HDR**					
2500	**M-2, M-3, M-4, M-5, M-6**					
2510						
2520	2 PVC SCH80 PIPE SWB 20'		60	FT	2.63	157.80
2530	1-1/2 PVC SCH80 PIPE SWB 20'		60	FT	1.92	115.20
2540	2X2 PVC S80 TEE HXHXH 801-020		1	EA	17.16	17.16
2550	2 PVC S80 90 HXH 806-020		2	EA	4.82	9.64
2560	2X1-1/2 PVC S80 TEE HXH		4	EA	17.83	71.32
2570	2 PVC S80 CPLG HXH 829-020		2	EA	6.01	12.02
2580	1-1/2 PVC S80 90 HXH 806-015		12	EA	3.99	47.88
2590	1-1/2 PVC S80 TEE HXH 801-015		4	EA	13.72	54.88
2600	1-1/2X1/2 PVC S80 TEE HXH		2	EA	14.08	28.16
2610	1-1/2 PVC S80 MALE ADP 836-015		16	EA	9.16	146.56
2620	1-1/2 PVC SCH80 T/U BALL VLV EPDM	EPDM	8	EA	192.52	1,540.16
2630	1-1/2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0		2	EA	931.58	1,863.16
2650	1-1/2 THRD BRZ PRESS RED VALVE PRV-2440-1 PRV-2440-2		2	EA	PTF	PTF
2680	2X3/4 PVC S80 BUSH SXFIPT 838-248	838-248	1	EA	7.02	7.02
2690	3/4" BRASS HOSE BIB MIPT		1	EA	5.08	5.08
2700	WATER HOSE STATION SINGLE TEMP HOSE STATION SST CABINET & HOSE RACK 50' 3/4" HOSE W/ NOZZLE		1	EA	PTF	PTF
2740	----------					
2750						
2760	**OZONE CONTACTOR - DRAINS**					
2770	**6" - DR - C900 PVC**					
2780	**FROM OZONE CONTACTOR 5**					
2790	**TO YARD DRAIN CONNECTIONS**					
2800	**M-7, M-08, M-09**					
2810						
2820	6 PVC C900 DR18 PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	280	FT	15.44	4,323.20
2840	6 BELL RESTRAINER F/C900 1506		13	EA	61.92	804.96
2850	6 MJ 90 C153 USA		8	EA	177.80	1,422.40
2860	6 MJ 45 C153 USA		6	EA	145.89	875.34
2870	6 MJ WYE C153 USA		7	EA	336.45	2,355.15
2880	6 MJ TEE C153 USA		1	EA	255.30	255.30
2890	6 MJ SST GATE VLV 2 OP NUT USA SST PER NOTE SHEET M-8 GV-3410-9 GV-3410-8 GV-3410-7 GV-3410-5 GV-3410-4		5	EA	PTF	PTF
2960	6 MJ SST GATE VLV 2 OP NUT USA RW, NRS GV-3410-6		1	EA	PTF	PTF
2990	5-1/4 VB LID M/SEWER USA		6	EA	24.36	146.16
3000	6850-60 26T TOP SECT THRD USA		6	EA	149.48	896.88
3010	6850-24B 24" CI BOTTOM SEC USA THREADED DOMESTIC BELL BOTTOM	THREADED DOMESTIC BELL BOTTOM	6	EA	108.51	651.06
3020	#60 VLV BOX EXT (5.25")		6	EA	114.05	684.30
3030	4' VLV STEM EXT W/CR & SS (CENTER RING AND SET SCREW)	(CENTER RING AND SET SCREW)	6	EA	711.50	4,269.00
3040	WAGER 3" BRASS TAG		6	EA	21.43	128.58

3050	6" CI CLEANOUT W/ BRASS PLUG 22 13 19, 2.2, B		1	EA	PTF	PTF
3070	6" CI ADJ FLOOR DRAIN 22 13 19.13, 2.2		7	EA	PTF	PTF
3090	1055-66 6 AC/DIXAC/DI CPLG		8	EA	17.22	137.76
3100	6 EBAA 2006PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	64	EA	66.56	4,259.84
3120	----------					
3130						
3140	**OZONE DISSOLUTION SYSTEM**					
3150	**6" - MW - SS**					
3160	**FROM INF CHANNEL**					
3170	**TO CONN W/ ODSS**					
3180	**M-7, M-08, M-09. M-10**					
3190						
3200	**SST PIPE & FITTINGS AS WELL AS**					
3210	**VALVES COVERED IN ODSS ARE**					
3220	**EXCLUDED FROM SCOPE.**					
3230	6 FLG HP BFV CWO USA 316SS CONSTRUCTION FOR OZONE SERVICE BFV-3401		1	EA	QBO	QBO
3270	42 B8M 316SS FLG BNW KIT L/GSKT	L/GSKT	2	EA	4,720.53	9,441.06
3280	42X1/8 FLG FF VITON GASKET 150#	150#	2	EA	697.75	1,395.50
3290	6 B8M 316SS FLG BNW KIT L/GSKT		2	EA	221.73	443.46
3300	6X1/8 FLG FF VITON GASKET 150#		2	EA	36.40	72.80
3310	4 B8M 316SS FLG BNW KIT L/GSKT		38	EA	177.78	6,755.64
3320	4X1/8 FLG FF VITON GASKET 150#		38	EA	22.47	853.86
3330	4 B8M 316SS FLG BNW KIT L/GSKT STUD SET FOR WAFFER CHECK VLV		4	EA	177.78	711.12
3350	4X1/8 FLG FF VITON GASKET 150#		4	EA	22.47	89.88
3360						
3370	**4" drain**					
3380	4 PVC SCH80 PIPE SWB 20'		20	FT	7.86	157.20
3390	4 PVC S80 VANSTONE FLG SW SOCKET W/PVC RING 854-040	SOCKET W/PVC RING 854-040	1	EA	26.58	26.58
3400	4 PVC S80 45 HXH 817-040		2	EA	52.30	104.60
3410	----------					
3420						
3430	**OZONE DISTRUCTION UNIT**					
3440	**4" - OG - SS**					
3450	**FROM CONTACT CHANNEL ROOF**					
3460	**TO OZONE DESTRUCT UNIT**					
3470	**M-7, M-08, M-09. M-10**					
3480						
3490	4 FLG HP BFV EMO USA 316SS CONSTRUCTION - O/C FOR OZONE SERVICE BFV-3475-1		1	EA	QBO	QBO
3530	4 FLG HP BFV HWO USA 316SS CONSTRUCTION FOR OZONE SERVICE BFV-6206-7		1	EA	QBO	QBO
3570	1" 316SS THRD BALL VALVE FOR OZONE SERVICE		4	EA	QBO	QBO
3590	4 B8M 316SS FLG BNW KIT L/GSKT		21	EA	177.78	3,733.38
3600	4X1/8 FLG FF VITON GASKET 150#		21	EA	22.47	471.87
3610	6 B8M 316SS FLG BNW KIT L/GSKT		3	EA	221.73	665.19
3620	6X1/8 FLG FF VITON GASKET 150#		3	EA	36.40	109.20
3630	----------					
3640						
3650	**FILTER INFLUENT**					
3660	**48" - FI - DIP**					
3670	**FROM POST OZONE LIME MIXING TANK**	TANK				
3680	**TO FILTER INFLUENT YARD CON**					
3690	**M-7, M-08, M-09. M-10**					
3700						
3710	48 FLGXWCXPE DI 3' C/L USA		1	EA	23,466.69	23,466.69

3720	48" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	18,435.66	18,435.66
3760	48 FLGXFLG DI PIPE PR 3'6" PRIMED USA	PRIMED USA	1	EA	39,326.73	39,326.73
3770	48 FLG 90 C110 PR USA		1	EA	51,710.75	51,710.75
3780	48X20 FLG WYE C110 PR USA		1	EA	93,542.04	93,542.04
3790	20 BLIND FLG DI PR USA		1	EA	1,685.86	1,685.86
3800	48 FLGXPE DI PIPE PR 10' PRIMED USA	PRIMED USA	1	EA	32,281.37	32,281.37
3810	48 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	5	EA	1,406.10	7,030.50
3820	48X1/8 FLG FF EPDM GASKET		5	EA	219.40	1,097.00
3830	20 A307B BLK BOLT & NUT KIT L/GSKT W/20 1-1/8X5 B&N	L/GSKT W/20 1-1/8X5 B&N	1	EA	294.28	294.28
3840	20X1/8 FLG FF EPDM GASKET		1	EA	37.78	37.78
3850	---					
3860						
3870	**OZONE CONTACTOR TANK**					
3880	**14" - PVRV - DIP**					
3890	**PRESSURE REGULATING VALVE**					
3900	**M-7**					
3910						
3920	14 FLGXWCXPE DI 3' C/L USA		1	EA	2,205.00	2,205.00
3930	14 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	2,711.46	2,711.46
3940	14 FLG PRESS RELIEF VALVE PVRV-3450-1		1	EA	PTF	PTF
3960	14 A307B BLK BOLT & NUT KIT L/GSKT W/12 1X4-1/2 B&N	L/GSKT W/12 1X4-1/2 B&N	2	EA	117.91	235.82
3970	14X1/8 FLG FF EPDM GASKET		2	EA	21.28	42.56
3980	---					
3990						
4000	**FILTER INFLUENT**					
4010	**48" - FI - DIP**					
4020	**FROM POST OZONE LIME MIXING TANK**	TANK				
4030	**TO FILTER INFLUENT YARD CON**					
4040	**M-7, M-08, M-09. M-10**					
4050						
4060	48 FLGXWCXPE DI 3' C/L USA		1	EA	23,466.69	23,466.69
4070	48" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	18,435.66	18,435.66
4110	48 FLGXFLG DI PIPE PR 3'6" PRIMED USA	PRIMED USA	1	EA	39,326.73	39,326.73
4120	48 FLG 90 C110 PR USA		1	EA	51,710.75	51,710.75
4130	48X20 FLG WYE C110 PR USA		1	EA	93,542.04	93,542.04
4140	20 BLIND FLG DI PR USA		1	EA	1,685.86	1,685.86
4150	48 FLGXPE DI PIPE PR 10' PRIMED USA	PRIMED USA	1	EA	32,281.37	32,281.37
4160	48 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	5	EA	1,406.10	7,030.50
4170	48X1/8 FLG FF EPDM GASKET		5	EA	219.40	1,097.00
4180	20 A307B BLK BOLT & NUT KIT L/GSKT W/20 1-1/8X5 B&N	L/GSKT W/20 1-1/8X5 B&N	1	EA	317.41	317.41
4190	20X1/8 FLG FF EPDM GASKET		1	EA	37.78	37.78
4200	48 MJ 90 C153 USA		1	EA	31,020.06	31,020.06
4210	48 EBAA 1148DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	2	EA	3,148.67	6,297.34
4230	48 HDSS PR150 DI PIPE EPDM		20	FT	840.18	16,803.60
4250	48 EPDM TYTON JOINT GASKET		1	EA	1,381.32	1,381.32
4260	---					
4270						
4280	**FILTER BUILDING**					
4290	**FILTER INFLUENT**					
4300	**48" - FI - DIP**					
4310	**FROM YARD FI CONN**					
4320	**TO FILTER INFLUENT CHANNEL**					
4330	**M-12, M-13, M-14**					
4340						
4350	48 FLGXPE DI PIPE PR 16' PRIMED USA	PRIMED USA	1	EA	41,402.46	41,402.46
4360	48X20 FLG WYE C110 PR USA		1	EA	93,542.04	93,542.04

4370	20 BLIND FLG DI PR USA		1	EA	1,685.86	1,685.86
4380	48 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	35,526.28	35,526.28
4390	48 FLG 90 C110 PR USA		1	EA	51,710.75	51,710.75
4400	48 FLGXFLG DI PIPE PR 5'6" PRIMED USA	PRIMED USA	1	EA	42,367.10	42,367.10
4410	48 FLGXWCXPE DI 3' C/L USA		1	EA	23,466.69	23,466.69
4420	48 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	5	EA	1,406.10	7,030.50
4430	48X1/8 FLG FF EPDM GASKET		5	EA	219.40	1,097.00
4440	20 A307B BLK BOLT & NUT KIT L/GSKT W/20 1-1/8X5 B&N	L/GSKT W/20 1-1/8X5 B&N	1	EA	317.41	317.41
4450	20X1/8 FLG FF EPDM GASKET		1	EA	37.78	37.78
4460	48 MJ 90 C153 USA		1	EA	31,020.06	31,020.06
4470	48 EBAA 1148DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	2	EA	3,148.67	6,297.34
4490	48 HDSS PR150 DI PIPE EPDM		20	FT	840.18	16,803.60
4510	48 EPDM TYTON JOINT GASKET		1	EA	1,381.32	1,381.32
4520	---					
4530						
4540	**FILTERS 9-15**					
4550	**BACKWASH WATER PIPING**					
4560	**36" - BWW - DIP**					
4570	**EX. 36" BWW MODIFICATIONS**					
4580	**M-12 TO M-17**					
4590						
4600	36 FLG TEE C110 PR USA		2	EA	33,053.30	66,106.60
4610	36 BLIND FLG DI PR USA		2	EA	9,620.04	19,240.08
4620	36 A307B BLK BOLT & NUT KIT L/GSKT W/32 1-1/2X7 B&N	L/GSKT W/32 1-1/2X7 B&N	6	EA	874.65	5,247.90
4630	36X1/8 FLG FF EPDM GASKET		6	EA	78.42	470.52
4640						
4650	**FROM EX. 36" FL TEE**					
4660	36" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	11,093.11	11,093.11
4700	36 FLGXFLG DI PIPE PR 6' PRIMED USA	PRIMED USA	1	EA	22,195.64	22,195.64
4710	36" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	11,093.11	11,093.11
4750	42X36 FLG 90 C110 PR USA		1	EA	47,726.49	47,726.49
4760	42 FLG BASE 90 C110 PR USA		1	EA	48,579.75	48,579.75
4770	42 FLGXFLG DI PIPE PR 4' PRIMED USA	PRIMED USA	1	EA	32,856.96	32,856.96
4780	36 A307B BLK BOLT & NUT KIT L/GSKT W/32 1-1/2X7 B&N	L/GSKT W/32 1-1/2X7 B&N	2	EA	874.65	1,749.30
4790	36X1/8 FLG FF EPDM GASKET		2	EA	78.42	156.84
4800	42 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	3	EA	994.39	2,983.17
4810	42X1/8 FLG FF EPDM GASKET		3	EA	144.38	433.14
4820	**CONNECTS TO 42" FL TEE**					
4830	---					
4840						
4850	**BACKWASH WATER PIPING**					
4860	**42" - BWW - DIP**					
4870	**FROM EX. 36" BACHWASH PIPING**					
4880	**TO FILTERS**					
4890	**M12 TO M-17**					
4900						
4910	36 FLG TEE C110 PR USA		1	EA	33,053.30	33,053.30
4920	42X36 FLG RED C110 PR USA		1	EA	34,308.81	34,308.81
4930	42 FLG 22-1/2 C110 PR USA		1	EA	44,772.68	44,772.68
4940	42 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	31,209.96	31,209.96
4950	42 FLG 22-1/2 C110 PR USA		1	EA	44,772.68	44,772.68
4960	42 FLGXFLG DI PIPE PR 17'-06" PRIMED USA	PRIMED USA	3	EA	47,679.96	143,039.88
4970	42 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	36,150.96	36,150.96
4980	42" FL FLOWMETER		1	EA	QBO	QBO

4990	42" FLG DISM JT REST DOM HARNESSED FBE COATING STD B&N EPDM GASKET		1	EA	12,145.82	12,145.82
5040	42 FLGXFLG DI PIPE PR 16'6" PRIMED USA	PRIMED USA	1	EA	46,581.96	46,581.96
5050	42 FLGXFLG DI PIPE PR 15' PRIMED USA	PRIMED USA	1	EA	44,934.96	44,934.96
5060	42 EBAA MEGAFLANGE 2142EP EPDM GASKETS 214200EP	GASKETS 214200EP	2	EA	10,407.70	20,815.40
5070	42 PEXPE DI PIPE PR 17'-06 USA USA	USA	1	EA	16,266.82	16,266.82
5080	42 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	36,150.96	36,150.96
5090	42 FLG 90 C110 PR USA		1	EA	37,242.86	37,242.86
5100	42 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	1	EA	30,660.96	30,660.96
5110	42 FLG TEE C110 PR USA		1	EA	78,429.10	78,429.10
5120	42" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	12,145.82	12,145.82
5160	42 FLGXPE DI PIPE PR 5' PRIMED USA	PRIMED USA	1	EA	19,798.78	19,798.78
5170	36 A307B BLK BOLT & NUT KIT L/GSKT W/32 1-1/2X7 B&N	L/GSKT W/32 1-1/2X7 B&N	3	EA	874.65	2,623.95
5180	36X1/8 FLG FF EPDM GASKET		3	EA	78.42	235.26
5190	42 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	16	EA	994.39	15,910.24
5200	42X1/8 FLG FF EPDM GASKET		16	EA	144.38	2,310.08
5210						
5220	**BURIED TO NEW FILTERS**					
5230	42 MJ 90 C153 USA		2	EA	23,262.77	46,525.54
5240	42 EBAA 1142DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	4	EA	2,516.43	10,065.72
5260	42 HDSS PR150 DI PIPE EPDM		60	FT	642.13	38,527.80
5280	42 EPDM TYTON JOINT GASKET		3	EA	1,249.42	3,748.26
5290	----------					
5300						
5310	**BACKWASH WATER PIPING**					
5320	**42" - BWW - DIP**					
5330	**FROM 42" BWW PIPING (BURIED)**					
5340	**TO FILTERS**					
5350	**M12 TO M-17**					
5360						
5370	42 FLGXPE DI PIPE PR 12' USA PRIMED USA	PRIMED USA	1	EA	27,484.78	27,484.78
5380	42 FLG 90 C110 PR USA		1	EA	37,242.86	37,242.86
5390	42 FLGXFLG DI PIPE PR 17'-06" PRIMED USA	PRIMED USA	1	EA	47,679.96	47,679.96
5400	42 FLGXFLG DI PIPE PR 17'-06" PRIMED USA WITH 1/2" TAP WITH 1" TAP	PRIMED USA	1	EA	47,952.82	47,952.82
5430	42 FLGXFLG DI PIPE PR 6' PRIMED USA	PRIMED USA	1	EA	35,052.96	35,052.96
5440	42 FLG TEE C110 PR USA		1	EA	78,429.10	78,429.10
5450	42 FLGXFLG DI PIPE PR 17'-06" PRIMED USA WITH 1/2" TAP	PRIMED USA	1	EA	47,952.82	47,952.82
5470	42 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	36,150.96	36,150.96
5480	42 FLG TEE C110 PR USA		1	EA	78,429.10	78,429.10
5490	42 FLGXFLG DI PIPE PR 18' USA PRIMED USA WITH 1/2" TAP WITH 1" TAP	PRIMED USA	1	EA	48,225.69	48,225.69
5520	42 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	36,150.96	36,150.96
5530	42 FLG TEE C110 PR USA WITH 1" TAP		1	EA	78,552.18	78,552.18
5550	42 BLIND FLG DI PR USA		1	EA	18,052.95	18,052.95
5560	42" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		3	EA	12,145.82	36,437.46
5600	42 FLG BFV EMO USA BFV-4025-16, 17 & 18 ELECTRIC MODULATING ACT.		3	EA	QBO	QBO
5630	42 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	21	EA	994.39	20,882.19
5640	42X1/8 FLG FF EPDM GASKET		21	EA	144.38	3,031.98
5650						

5660	1" ARV FIPT (1" OTL) ARV-4026-16 ARV-4026-17 ARV-4026-18		3	EA	PTF	PTF
5700	1X4 BRASS NIPPLE NO LEAD (I)		6	EA	10.55	63.30
5710	1 BRASS BALL VALVE NO LEAD		3	EA	21.93	65.79
5720	1X20 HARD L COPPER IMP PER FOOT	PER FOOT	60	FT	6.92	415.20
5730	1 WROT COPPER MALE ADAPTER		3	EA	11.13	33.39
5740	1 WROT COPPER 90 BEND CXC		6	EA	6.83	40.98
5750	1 WROT COPPER UNION CXC		3	EA	28.25	84.75
5760						
5770	**FILTER PDE/PDIT/SEDIMENT TRAPS**					
5780	**BY OTHERS**					
5790						
5800	48"X30"X42" STEEL OFFSET SIDE OUTLET TEE (18")		3	EA	QBO	QBO
5820	48 BLIND FLG DI PR USA		3	EA	24,349.59	73,048.77
5830	42 FLG INS BOLT KIT 150#		3	EA	1,009.57	3,028.71
5840	48 FLG INS BOLT KIT 150#		3	EA	1,406.10	4,218.30
5850	48 A307B BLK BOLT & NUT KIT L/GSKT	L/GSKT	3	EA	1,406.10	4,218.30
5860	48X1/8 FLG FF EPDM GASKET		3	EA	219.16	657.48
5870	----------					
5880						
5890	**W BACKWASH WATER PIPING**					
5900	**54" - WBWW - DIP**					
5910	**FROM FILTERS**					
5920	**TO 54" WBWW YARD CON**					
5930	**M12 TO M-17**					
5940						
5950	54 PEXWCXPE DI PIPE PR 5' USA		1	EA	11,410.57	11,410.57
5960	54 MJ 90 C153 USA		1	EA	49,858.83	49,858.83
5970	54 EBAA 1142DEC MEGALUG F/DIP EPDM		2	EA	8,887.52	17,775.04
5990	54 HDSS PR150 DI PIPE EPDM		20	FT	1,032.23	20,644.60
6010	54 EPDM TYTON JOINT GASKET		1	EA	1,545.82	1,545.82
6020	----------					
6030						
6040	**FINISHED WATER**					
6050	**30" - FW - DIP**					
6060	**FROM 48X30X42 SO TEE AT42" BWW**					
6070	**TO 48" FW**					
6080	**M12 TO M-17**					
6090						
6100	30 FLG INS BOLT KIT 150#		3	EA	622.81	1,868.43
6110	30" RATE OF FLOW CONTROLLER (FE-4040-16,17 & 18)		3	EA	QBO	QBO
6130	30X16 FLG WYE C110 PR USA		3	EA	40,298.18	120,894.54
6140	30" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		3	EA	7,632.27	22,896.81
6180	30 FLG BFV EMO USA W/ EXT BON BFV-4040-16A BFV-4040-17A BFV-4040-18A		3	EA	QBO	QBO
6220	30 FLG 90 C110 PR USA		3	EA	15,812.75	47,438.25
6230	30 FLGXWCXPE DI 6'6 PR USA		3	EA	10,668.28	32,004.84
6240	30 A307B BLK BOLT & NUT KIT L/GSKT W/28 1-1/4X6 B&N	L/GSKT W/28 1-1/4X6 B&N	15	EA	543.50	8,152.50
6250	30X1/8 FLG FF EPDM GASKET		15	EA	78.42	1,176.30
6260	**CONNECTS TO 48X30 MJ TEES AT**					
6270	**48" FW HEADER**					
6280	----------					
6290						
6300	**FINISHED WATER**					
6310	**48" - FW - DIP**					
6320	**FROM 30" FW**					
6330	**TO 48" FW YARD CON**					

6340	**M12 TO M-17**					
6350						
6360	48 HDSS PR150 DI PIPE EPDM		80	FT	840.18	67,214.40
6380	48 EPDM TYTON JOINT GASKET		4	EA	1,381.32	5,525.28
6390	48 MJ PLUG C110 USA		1	EA	15,825.51	15,825.51
6400	48X30 MJ TEE C110 USA		3	EA	34,097.11	102,291.33
6410	48 MJ 90 C153 USA		1	EA	31,020.06	31,020.06
6420	48 PEXWCXPE DI PIPE PR 5'6"USA		1	EA	8,769.55	8,769.55
6430	30 EBAA 1130DEC MEGALUG F/DIP W/ACC USA EPDM	W/ACC USA	3	EA	1,270.42	3,811.26
6450	48 EBAA 1148DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	7	EA	3,148.67	22,040.69
6470	48 MJ REG ACC SET L/GLAND EPDM USA	USA	1	EA	2,315.33	2,315.33
6480						
6490	**48" FW- DIP - FROM FILTERS**					
6500	**(EL. 23.78)**					
6510	**TO 48" FW YARD CON**					
6520	48 PEXWCXPE DI PIPE PR 3' USA		1	EA	5,602.50	5,602.50
6530	48 MJ 90 C153 USA		1	EA	31,020.06	31,020.06
6540	48 EBAA 1148DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	2	EA	3,148.67	6,297.34
6560	48 HDSS PR150 DI PIPE EPDM		20	FT	840.18	16,803.60
6580	48 EPDM TYTON JOINT GASKET		1	EA	1,381.32	1,381.32
6590	---					
6600						
6610	**FILTER TO WASTE**					
6620	**16" - FTW - DIP**					
6630	**FROM BRANCH OF 30"X16" WYE**					
6640	**TO 16" FTW HEADER**					
6650	**M12 TO M-17**					
6660						
6670	16 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	3	EA	3,172.91	9,518.73
6680	16" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		3	EA	3,063.69	9,191.07
6720	16 FLG BFV EMO USA 4040-16B,17B & 18B ELECTRIC MODULATING ACT.		3	EA	QBO	QBO
6750	16 FLG 90 C110 PR USA		3	EA	5,126.86	15,380.58
6760	16 FLGXWCXPE DI PIPE 5' PR USA		3	EA	3,069.41	9,208.23
6770	16 A307B BLK BOLT & NUT KIT L/GSKT W/16 1X4-1/2 B&N	L/GSKT W/16 1X4-1/2 B&N	15	EA	157.22	2,358.30
6780	16X1/8 FLG FF EPDM GASKET		15	EA	21.28	319.20
6790	**CONNECTS TO 16" MJ TEES AT 16"**					
6800	**FTW HEADER**					
6810						
6820	**16" FTW HEADER**					
6830	16 HDSS PR250 DI PIPE		100	FT	115.34	11,534.00
6840	16 TYTON JT RUBBER EPDM GASKET		5	EA	33.59	167.95
6850	16 MJ 90 C153 USA		3	EA	1,478.89	4,436.67
6860	16 MJ TEE C153 USA		3	EA	2,230.18	6,690.54
6870	16 MJ 45 C153 USA		1	EA	1,136.98	1,136.98
6880	16 MJ PLUG C153 USA		1	EA	818.77	818.77
6890	16 EBAA 1116DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	16	EA	245.29	3,924.64
6910	16 MJ ACC SET L/GLAND EPDM		1	EA	292.68	292.68
6920	---					
6930						
6940	**FLOOR DRAIN**					
6950	**6"- DR- DIP**					
6960	**FROM 6" DRAINS**					
6970	**TO 6" DRAIN HEADER**					

6980	**M12 TO M-17**					
6990						
7000	6 HDSS CL50 PR350 DI PIPE		120	FT	37.03	4,443.60
7010	6 TYTON JT RUBBER EPDM GASKET		6	EA	72.33	433.98
7020	6 PEXWCXPE DI PIPE PR 2'6"USA		3	EA	287.39	862.17
7030	6 MJ PLUG C153 USA		1	EA	106.69	106.69
7040	6 MJ TEE C153 USA		3	EA	255.30	765.90
7050	6 MJ 45 C153 USA		3	EA	145.89	437.67
7060	6 MJ 90 C153 USA		2	EA	177.80	355.60
7070	6 EBAA 1106DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	18	EA	57.87	1,041.66
7090	6 MJ ACC SET L/GLAND EPDM USA		1	EA	98.93	98.93
7100	6" CI ADJ EQPT FLOOR DRAIN 22 13 19.13, 2.3		3	EA	PTF	PTF
7120	1055-66 6 AC/DIXAC/DI CPLG		3	EA	17.22	51.66
7130	---					
7140						
7150	**AIR LINE**					
7160	**18 - BA - 316SS**					
7170	**FROM 18" 316SS YARD CON**					
7180	**TO 18" SIDE OF 48X30X42 SO TEE**					
7190	**M12 TO M-17**					
7200						
7210	**18" 316SS PIPING BY OTHERS**					
7220	18" SS DEPEND-O-LOK VIC CPLG		6	EA	23,582.85	141,497.10
7230	18" 316SS FLG DISM JT REST DOM 316SS B&N EPDM GASKET		3	EA	3,758.31	11,274.93
7260	18 FLG HP BFV EMO USA BFV-4015-16,17 & 18 AIR SERVICE		3	EA	QBO	QBO
7290	18 B8M 316SS FLG BNW KIT L/GSKT	L/GSKT	16	EA	990.55	15,848.80
7300	18X1/8 FF GARLOCK GYLON3500 150#	150#	16	EA	535.00	8,560.00
7310	---					
7320						
7330	**VENT PIPING**					
7340	**6"- VE - CS**					
7350	**AT FILTERS**					
7360	**M12 TO M-17**					
7370						
7380	**CS PIPE, FITTINGS, & FAB**					
7390	**BY OTHERS**					
7400						
7410	12X12 SS SCREEN 16 MESH		3	EA	400.00	1,200.00
7420	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	6	EA	54.15	324.90
7430	6X1/8 FLG FF EPDM GASKET		6	EA	7.24	43.44
7440						
7450	---					
7460						
7470	**LOX STORAGE - CW TANK**					
7480	**4" - PRW - DIP**					
7490	**FROM YARD CONN**					
7500	**TO CHILLED WATER TANK**					
7510	**M-22, M23, M-26**					
7520						
7530	4 HDSS PR350 DI PIPE		20	FT	49.55	991.00
7540	4 TYTON JT RUBBER EPDM GASKET		1	EA	12.34	12.34
7550	4 MJ L/P SLV C153 USA		1	EA	104.86	104.86
7560	4 MJ 90 C153 USA		1	EA	113.06	113.06
7570	4 FLGXPE DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	622.64	622.64
7580	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	4	EA	45.91	183.64
7600						
7610	**EXPOSED TO TANK**					

7620	4 FLG BALL VLV HLO USA BV1 BV-6114		1	EA	6,890.96	6,890.96
7650	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	463.50	463.50
7660	4 FLG SOLENOID VALVE BY OSS		1	EA	QBO	QBO
7680	4 FLGXFLG DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	584.60	584.60
7690	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
7700	4 FLGXFLG DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	584.60	584.60
7710	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
7720	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	8	EA	29.30	234.40
7730	4X1/8 EPDM FLG GSKT FF		8	EA	4.30	34.40
7740	----------					
7750						
7760	**LOX STORAGE - CW TANK**					
7770	**4" - CWR - DIP**					
7780	**FROM YARD CONN**					
7790	**TO CHILLED WATER TANK**					
7800	**M-22, M23, M-26**					
7810						
7820	4 HDSS PR350 DI PIPE EPDM		20	FT	49.55	991.00
7840	4 TYTON JT RUBBER EPDM GASKET		1	EA	12.34	12.34
7850	4 MJ L/P SLV C153 USA		1	EA	104.86	104.86
7860	4 MJ 90 C153 USA		1	EA	113.06	113.06
7870	4 FLGXPE DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	622.64	622.64
7880	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	4	EA	45.91	183.64
7900						
7910	**EXPOSED TO TANK**					
7920	4 FLG BFV HWO USA BFV-6111 WATER SERVICE		1	EA	1,066.67	1,066.67
7950	4 FLGXFLG DI PIPE PR 4'6" PRIMED USA	PRIMED USA	1	EA	675.41	675.41
7960	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
7970	4 FLGXFLG DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	584.60	584.60
7980	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
7990	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	6	EA	29.30	175.80
8000	4X1/8 EPDM FLG GSKT FF		6	EA	4.30	25.80
8010	----------					
8020						
8030	**LOX STORAGE - CW TANK**					
8040	**4" - OVF - DIP**					
8050	**FROM CW TANK**					
8060	**TO YARD CONN**					
8070	**M-22, M23, M-26**					
8080						
8090	4 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	554.32	554.32
8100	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
8110	4 FLGXPE DI PIPE PR 8' PRIMED USA	PRIMED USA	1	EA	683.19	683.19
8120	4 FLG BALL VLV HLO USA BV1 BV-6113		1	EA	6,890.96	6,890.96
8150	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
8160	4 FLGXPE DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	380.46	380.46
8170	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	6	EA	29.30	175.80
8180	4X1/8 EPDM FLG GSKT FF		6	EA	4.30	25.80
8190						
8200	**BURIED TO YARD**					
8210	4 C900 DR18 PVC PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	40	FT	7.55	302.00
8230	4 MJ 90 C153 USA		1	EA	113.06	113.06
8240	4 MJ TEE C153 USA		1	EA	150.45	150.45
8250	4 MJ 45 C153 USA		1	EA	93.92	93.92

8260	4 MJ L/P SLV C153 USA		2	EA	104.86	209.72
8270	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	2	EA	45.91	91.82
8290	4 EBAA 2004PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	9	EA	52.18	469.62
8310	----------					
8320						
8330	**LOX STORAGE - CW TANK**					
8340	**4" - CWS - DIP**					
8350	**FROM CW TANK**					
8360	**TO CHILLER CONNECTION**					
8370	**M-22, M23, M-26**					
8380						
8390	**EXPOSED AT TANK**					
8400	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	463.50	463.50
8410	4 FLG BFV HWO USA BFV-6112 WATER SERVICE		1	EA	1,066.67	1,066.67
8440	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	463.50	463.50
8450	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
8460	4 FLGXPE DI PIPE PR 4' PRIMED USA	PRIMED USA	1	EA	441.00	441.00
8470	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	5	EA	29.30	146.50
8480	4X1/8 EPDM FLG GSKT FF		5	EA	4.30	21.50
8490						
8500	**BURIED TO CHILLERS**					
8510	4 HDSS PR350 DI PIPE EPDM		20	FT	49.55	991.00
8530	4 TYTON JT RUBBER EPDM GASKET		1	EA	12.34	12.34
8540	4 MJ 90 C153 USA		3	EA	113.06	339.18
8550	4 MJ TEE C153 USA		1	EA	150.45	150.45
8560	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	9	EA	45.91	413.19
8580						
8590	**EXPOSED AT CHILLERS**					
8600	4 FLGXPE DI PIPE PR 5'6" PRIMED USA	PRIMED USA	2	EA	531.82	1,063.64
8610	4 FLG 90 C110 PR USA		2	EA	277.18	554.36
8620	4 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	2	EA	554.32	1,108.64
8630	4 FLG BFV HWO USA BFV-6150-7 BFV-6150-8 WATER SERVICE		2	EA	1,066.67	2,133.34
8670	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	2	EA	463.50	927.00
8680	4X3 FLG RED C110 PR USA		2	EA	258.04	516.08
8690	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	10	EA	29.30	293.00
8700	4X1/8 EPDM FLG GSKT FF		10	EA	4.30	43.00
8710	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	2	EA	14.65	29.30
8720	3X1/8 FLG FF EPDM GASKET		2	EA	3.93	7.86
8730	----------					
8740						
8750	**LOX STORAGE - CHILLERS**					
8760	**4" - CWS - DIP**					
8770	**FROM CHILLERS**					
8780	**TO YARD CONN**					
8790	**M-22, M23, M-26**					
8800						
8810	**EXPOSED AT CHILLERS**					
8820	4X3 FLG RED C110 PR USA		2	EA	258.04	516.08
8830	4 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	2	EA	493.78	987.56
8840	4 FLG BFV HWO USA BFV-6151-7 BFV-6151-8 WATER SERVICE		2	EA	1,066.67	2,133.34
8880	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	2	EA	463.50	927.00

8890	4 FLG 90 C110 PR USA		2	EA	277.18	554.36
8900	4 FLGXPE DI PIPE PR 5'6" PRIMED USA	PRIMED USA	2	EA	531.82	1,063.64
8910	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	10	EA	29.30	293.00
8920	4X1/8 EPDM FLG GSKT FF		10	EA	4.30	43.00
8930	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	2	EA	14.65	29.30
8940	3X1/8 FLG FF EPDM GASKET		2	EA	3.93	7.86
8950						
8960	**BURIED TO YARD CONN**					
8970	4 HDSS PR350 DI PIPE EPDM		40	FT	49.55	1,982.00
8990	4 TYTON JT RUBBER EPDM GASKET		2	EA	12.34	24.68
9000	4 MJ 90 C153 USA		2	EA	113.06	226.12
9010	4 MJ TEE C153 USA		2	EA	150.45	300.90
9020	4 MJ CAP C153 USA		1	EA	53.80	53.80
9030	4 MJ L/P SLV C153 USA		1	EA	104.86	104.86
9040	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	13	EA	45.91	596.83
9060	----------					
9070						
9080	**LOX STORAGE - VAPORIZER**					
9090	**4" - OX - SS**					
9100	**FROM VAPORIZERS**					
9110	**TO YARD CONN**					
9120	**M-22, M23, M-26**					
9130						
9140	**SST PIPE, FITTINGS, & FAB**					
9150	**BY OTHERS**					
9160						
9170	**VALVES & PIPING BETWEEN TANK**					
9180	**& VAPORIZERS BY OSS**					
9190	4 B8M 316SS FLG BNW KIT L/GSKT		12	EA	177.78	2,133.36
9200	4X1/8 FLG FF VITON GASKET 150#		12	EA	22.47	269.64
9210	----------					
9220						
9230	**OZONE GENERATION - OXYGEN**					
9240	**4" - OX - SS**					
9250	**FROM YARD CONNECTION**					
9260	**TO OZONE GENERATOR 5**					
9270	**M-22, M24, M-25, M-27A**					
9280						
9290	**SST PIPE, FITTINGS, & FAB**					
9300	**BY OTHERS**					
9310						
9320	**VALVES & EQUPT BY OSS**					
9330	4 B8M 316SS FLG BNW KIT L/GSKT		16	EA	177.78	2,844.48
9340	4X1/8 FLG FF VITON GASKET 150#		16	EA	22.47	359.52
9350	----------					
9360						
9370	**OZONE GENERATION - OZONE**					
9380	**4" - OZ - SS**					
9390	**FROM OZONE GENERATOR 5**					
9400	**TO OZONE CONTACTOR**					
9410	**M-22, M24, M-25, M-27A**					
9420						
9430	4 FLG HP BFV HWO USA 316SS CONSTRUCTION FOR OZONE SERVICE BFV-6065-5A BFV-6065-5D BFV-6065-5E BFV-6065-5H		4	EA	QBO	QBO
9500	4 FLG HP BFV EMO USA 316SS CONSTRUCTION FOR OZONE SERVICE - O/C BFV-6065-5C BFV-6065-5G		2	EA	QBO	QBO

9550	4 SS DBL DOOR CHECK VLV USA		2	EA	PTF	PTF
	DDCV1					
	CV-6065-5A					
	CV-6065-5B					
9590	1" 316SS THRD BALL VALVE		4	EA	QBO	QBO
	FOR OZONE SERVICE					
9610	4 B8M 316SS FLG BNW KIT L/GSKT		14	EA	177.78	2,488.92
9620	4X1/8 FLG FF VITON GASKET 150#		14	EA	22.47	314.58
9630	4 B8M 316SS FLG BNW KIT L/GSKT		2	EA	177.78	355.56
	STUD SET FOR DD CHK VLV					
9650	4X1/8 FLG FF VITON GASKET 150#		4	EA	22.47	89.88
9660	----------					
9670						
9680	**OZONE GENERATION - CW SUPPLY**					
9690	**4" - CWS - DIP**					
9700	**FROM YARD CONN**					
9710	**TO OZONE GENERATOR 5**					
9720	**M-22, M24, M-25, M-27A**					
9730						
9740	4 FLGXWCXPE DI 5' C/L USA		1	EA	628.78	628.78
9750	4 FLGXFLG DI PIPE PR 4' PRIMED USA	PRIMED USA	1	EA	645.14	645.14
9760	4X3 FLG RED C110 PR USA		1	EA	258.04	258.04
9770	3 FLG 90 C110 PR USA		1	EA	277.18	277.18
9780	3 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	654.96	654.96
9790	3 FLG 90 C110 PR USA		1	EA	277.18	277.18
9800	3 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	463.50	463.50
9810	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	2	EA	29.30	58.60
9820	4X1/8 EPDM FLG GSKT FF		2	EA	4.30	8.60
9830	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	5	EA	14.65	73.25
9840	3X1/8 FLG FF EPDM GASKET		5	EA	3.93	19.65
9850						
9860	**1" CWS FROM OZ GEN TO POWER**					
9870	**UNIT**					
9880	1X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	6.92	276.80
9890	1 WROT COPPER MALE ADAPTER		7	EA	11.13	77.91
9900	1 WROT COPPER 90 BEND CXC		6	EA	6.83	40.98
9910	1 BRASS BALL VALVE NO LEAD		2	EA	21.93	43.86
9920	1" THRD AIR RELEASE VALVE		1	EA	PTF	PTF
	ARV-6091-5					
9940	----------					
9950						
9960	**OZONE GENERATION - CW RETURN**					
9970	**4" - CWR - DIP**					
9980	**FROM OZONE GENERATOR**					
9990	**TO YARD CONN**					
10000	**M-22, M24, M-25, M-27A**					
10010						
10020	3 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	463.50	463.50
10030	3 FLG 90 C110 PR USA		1	EA	277.18	277.18
10040	3 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	654.96	654.96
10050	3 FLG 90 C110 PR USA		1	EA	277.18	277.18
10060	4X3 FLG RED C110 PR USA		1	EA	258.04	258.04
10070	4 FLGXFLG DI PIPE PR 4' PRIMED USA	PRIMED USA	1	EA	645.14	645.14
10080	4 FLGXWCXPE DI 5' C/L USA		1	EA	628.78	628.78
10090	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	2	EA	29.30	58.60
10100	4X1/8 EPDM FLG GSKT FF		2	EA	4.30	8.60
10110	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	5	EA	14.65	73.25
10120	3X1/8 FLG FF EPDM GASKET		5	EA	3.93	19.65
10130						
10140	**1" CWR FROM POWER UNIT**					
10150	**TO OZONE GEN**					
10160	1X20 HARD L COPPER IMP PER FOOT	PER FOOT	43.84	FT	6.92	303.37
10170	1 WROT COPPER MALE ADAPTER		6	EA	11.13	66.78
10180	1 WROT COPPER 90 BEND CXC		6	EA	6.83	40.98
10190	1 BRASS BALL VALVE NO LEAD		2	EA	21.93	43.86

Internal Use Only

10200	----------					
10210						
10220	**SOLIDS DEWATERING BLDG 1**					
10230	**THICKENED SLUDGE**					
10240	**6" - TS - DIP**					
10250	**FROM NEW VENTURI MIXING**					
10260	**TO NEW BELT FILTER PRESSES**					
10270	**M-28, M-29, M-30, M-31**					
10280						
10290	6 FLG 90 C110 PR USA		4	EA	340.10	1,360.40
10300	6 FLG POLYMER INJECTION RING		4	EA	QBO	QBO
	BY OTHERS					
10320	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	4	EA	594.41	2,377.64
10330	6 FLG 90 C110 PR USA		4	EA	340.10	1,360.40
10340	6 FLG VENTURI MIXING VALVE		4	EA	QBO	QBO
	BY OTHERS					
10360	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	4	EA	666.41	2,665.64
10370	6" FLG SFA EXP JOINT		4	EA	1,902.79	7,611.16
	EPDM/EPDM					
	316SS BACKING RING					
	316SS ROD HARNESS					
	GENERAL RUBBER 1101					
10420	6 FLGXFLG DI PIPE PR 4'6" PRIMED USA	PRIMED USA	4	EA	846.41	3,385.64
10430	6 FLG 90 C110 PR USA		4	EA	340.10	1,360.40
10440	6 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	4	EA	594.41	2,377.64
10450	6 FLG 45 C110 PR USA		4	EA	299.98	1,199.92
10460	6 FLGXFLG DI PIPE PR 13'6" PRIMED USA	PRIMED USA	4	EA	1,494.41	5,977.64
10470	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	4	EA	666.41	2,665.64
10480	6 FLGXFLG DI PIPE PR 12' PRIMED USA	PRIMED USA	4	EA	1,386.41	5,545.64
10490	6 FLG 90 C110 PR USA		4	EA	340.10	1,360.40
10500	6 FLGXFLG DI PIPE PR 9'6" PRIMED USA	PRIMED USA	4	EA	1,206.41	4,825.64
10510	6 FLG 90 C110 PR USA		4	EA	340.10	1,360.40
10520	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	4	EA	594.41	2,377.64
10530	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	76	EA	54.15	4,115.40
10540	6X1/8 FLG FF EPDM GASKET		76	EA	7.24	550.24
10550						
10560	**2-1/2" PRW TO BFP**					
10570	2-1/2X20 HARD L COPPER IMP PER FOOT	PER FOOT	80	FT	30.59	2,447.20
10580	2-1/2 WROT COPPER 90 BEND		19	EA	52.34	994.46
10590	2-1/2 WROT COPPER MALE ADAPTER		60	EA	110.79	6,647.40
10600	2-1/2 BRASS BALL VALVE NO LEAD		8	EA	202.46	1,619.68
10610	2-1/2 BRZ THRD Y-STRAINER		4	EA	5,947.76	23,791.04
10620	1-1/2 SOLENOID VALVE THREADED		4	EA	931.58	3,726.32
	BRASS, 2-WAY, N0					
	SV-5050-1					
	SV-5050-2					
	SV-5050-3					
	SV-5050-4					
10680	2-1/2 THRD BRZ PRESS RED VALVE		4	EA	PTF	PTF
	BPV-5050-1					
	BPV-5050-2					
	BPV-5050-3					
	BPV-5050-4					
10730	2-1/2 THRD BRZ GLOBE VLV W/EMO		4	EA	PTF	PTF
	OPEN/CLOSE					
	GLV-5050-1					
	GLV-5050-2					
	GLV-5050-3					
	GLV-5050-4					
10790	----------					
10800						
10810	**SOLIDS DEWATERING BLDG 2**					
10820	**THICKENED SLUDGE**					
10830	**6" - TS - DIP**					
10840	**FROM NEW VENTURI MIXING**					
10850	**TO NEW BFP 5 & 6**					
10860	**M-28, M-32, M-33, M-34, M-35**					
10870						

Internal Use Only

10880	6 FLG 90 C110 PR USA		2	EA	340.10	680.20
10890	6 FLG POLYMER INJECTION RING		2	EA	QBO	QBO
	BY OTHERS					
10910	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	2	EA	594.41	1,188.82
10920	6 FLG 90 C110 PR USA		2	EA	340.10	680.20
10930	6 FLG VENTURI MIXING VALVE		2	EA	QBO	QBO
	BY OTHERS					
10950	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	2	EA	666.41	1,332.82
10960	6" FLG SFA EXP JOINT		2	EA	1,902.79	3,805.58
	EPDM/EPDM					
	316SS BACKING RING					
	316SS ROD HARNESS					
	GENERAL RUBBER 1101					
11010	6 FLGXFLG DI PIPE PR 4'6" PRIMED USA	PRIMED USA	2	EA	846.41	1,692.82
11020	6 FLG 90 C110 PR USA		2	EA	340.10	680.20
11030	6 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	2	EA	594.41	1,188.82
11040	6 FLG 45 C110 PR USA		2	EA	299.98	599.96
11050	6 FLGXFLG DI PIPE PR 13'6" PRIMED USA	PRIMED USA	2	EA	1,494.41	2,988.82
11060	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	2	EA	666.41	1,332.82
11070	6 FLGXFLG DI PIPE PR 12' PRIMED USA	PRIMED USA	2	EA	1,386.41	2,772.82
11080	6 FLG 90 C110 PR USA		2	EA	340.10	680.20
11090	6 FLGXFLG DI PIPE PR 9'6" PRIMED USA	PRIMED USA	2	EA	1,206.41	2,412.82
11100	6 FLG 90 C110 PR USA		2	EA	340.10	680.20
11110	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	2	EA	594.41	1,188.82
11120	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	38	EA	54.15	2,057.70
11130	6X1/8 FLG FF EPDM GASKET		38	EA	7.24	275.12
11140	----------					
11150						
11160	**SOLIDS DEWATERING BLDG 2**					
11170	**THICKENED SLUDGE**					
11180	**6" - TS - DIP**					
11190	**FROM YARD CONN**					
11200	**TO NEW BFP 7**					
11210	**M-28, M-32, M-33, M-34, M-35**					
11220						
11230	6 MJ L/P SLV C153 USA		1	EA	155.92	155.92
11240	6 MJ 90 C153 USA		1	EA	177.80	177.80
11250	6 FLGXPE DI PIPE PR 10' PRIMED USA	PRIMED USA	1	EA	976.50	976.50
11260	6 EBAA 1106DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA	W/EBAA SEAL GSKT ACC USA	4	EA	57.87	231.48
	EPDM					
11280						
11290	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
11300	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	594.41	594.41
11310	6 FLG POLYMER INJECTION RING		1	EA	QBO	QBO
	BY OTHERS					
11330	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
11340	6 FLG VENTURI MIXING VALVE		1	EA	QBO	QBO
	BY OTHERS					
11360	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	1	EA	666.41	666.41
11370	6" FLG SFA EXP JOINT		1	EA	1,902.79	1,902.79
	EPDM/EPDM					
	316SS BACKING RING					
	316SS ROD HARNESS					
	GENERAL RUBBER 1101					
11420	6 FLGXFLG DI PIPE PR 4'6" PRIMED USA	PRIMED USA	1	EA	846.41	846.41
11430	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
11440	6 FLGXFLG DI PIPE PR 15' PRIMED USA	PRIMED USA	1	EA	1,602.41	1,602.41
11450	6 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	1	EA	666.41	666.41
11460	6 FLGXFLG DI PIPE PR 12' PRIMED USA	PRIMED USA	1	EA	1,386.41	1,386.41
11470	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
11480	6 FLGXFLG DI PIPE PR 9'6" PRIMED USA	PRIMED USA	1	EA	1,206.41	1,206.41
11490	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
11500	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	594.41	594.41
11510	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	17	EA	54.15	920.55
11520	6X1/8 FLG FF EPDM GASKET		17	EA	7.24	123.08
11530	----------					
11540						

11550	**SOLIDS DEWATERING BLDG 2**					
11560	**PROCESS WATER**					
11570	**3" - PRW - COPPER**					
11580	**FROM EXISTING PRW**					
11590	**TO WASHWATER BOOSTER & BFP**					
11600	**M-28, M-32, M-33, M-34, M-35**					
11610						
11620	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
11630	6X3 FLG RED C110 PR USA		1	EA	475.95	475.95
11640	3 FLG GATE VLV HWO USA		1	EA	674.70	674.70
	RW, NRS					
11660	3 BRZ COMP FLG F/COP SW		2	EA	1,310.84	2,621.68
11670	3X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	42.72	1,708.80
11680	3 WROT COPPER MALE ADAPTER		10	EA	137.92	1,379.20
11690	3 WROT COPPER 90 BEND CXC		7	EA	74.40	520.80
11700	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	3	EA	54.15	162.45
11710	6X1/8 FLG FF EPDM GASKET		3	EA	7.24	21.72
11720	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	3	EA	14.65	43.95
11730	3X1/8 FLG FF EPDM GASKET		3	EA	3.93	11.79
11740						
11750	**2-1/2" PRW TO BFP**					
11760	2-1/2X20 HARD L COPPER IMP PER FOOT	PER FOOT	60	FT	30.59	1,835.40
11770	2-1/2 BRZ COMP FLG F/COP SW		6	EA	1,260.90	7,565.40
11780	2-1/2 WROT COPPER 90 BEND		11	EA	52.34	575.74
11790	2-1/2 WROT COPPER MALE ADAPTER		36	EA	110.79	3,988.44
11800	2-1/2 WROT COPPER TEE		12	EA	93.28	1,119.36
11810	2-1/2 BRASS BALL VALVE NO LEAD		6	EA	202.46	1,214.76
11820	2-1/2 BRZ THRD Y-STRAINER		3	EA	5,947.76	17,843.28
11830	2-1/2 SOLENOID VALVE THREADED		3	EA	2,239.48	6,718.44
	BRASS, 2-WAY, N0					
	SV-5050-5					
	SV-5050-6					
	SV-5050-7					
11880	2-1/2 THRD BRZ PRESS RED VALVE		3	EA	PTF	PTF
	BPV-5050-5					
	BPV-5050-6					
	BPV-5050-7					
11920	2-1/2 THRD BRZ GLOBE VLV W/EMO		12	EA	PTF	PTF
	OPEN/CLOSE					
	GLV-5050-5					
	GLV-5050-6					
	GLV-5050-7					
11970	3 A307B BLK BOLT & NUT KIT L/GSKT W/4 5/8X3 B&N	L/GSKT W/4 5/8X3 B&N	6	EA	14.65	87.90
11980	3X1/8 FLG FF EPDM GASKET		6	EA	3.93	23.58
11990	----------					
12000						
12010	**SOLIDS DEWATERING BLDG 2**					
12020	**FILTER PRESS DRAIN**					
12030	**10" - FLT - DIP**					
12040	**FROM BFP 7 SUMP**					
12050	**TO YARD DRAIN CONNECTION**					
12060	**M-28, M-32, M-33, M-34, M-35**					
12070						
12080	10 HDSS PR350 DI PIPE		60	FT	58.41	3,504.60
	EPDM					
12100	10 TYTON JT RUBBER EPDM GASKET		3	EA	13.43	40.29
12110	10 MJ 45 C153 USA		3	EA	298.16	894.48
12120	10 MJ WYE C153 USA		1	EA	944.59	944.59
12130	10 MJ CAP C153 USA		1	EA	162.30	162.30
12140	10 EBAA 1110DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA	W/EBAA SEAL GSKT ACC USA	10	EA	110.39	1,103.90
	EPDM					
12160	----------					
12170						
12180	**SOLIDS DEWATERING BLDG 2**					
12190	**POLYMER ADDITION**					

Internal Use Only

	4" - TSDP/PLW - PVC/CU					
	FROM POLYMER PMP SUCTION					
	TO BFP 7					
	M-28, M-32, M-33, M-34, M-36					
	4 PVC SCH80 PIPE SWB 20'		20	FT	7.86	157.20
	2 PVC SCH80 PIPE SWB 20'		260	FT	2.63	683.80
	4 PVC S80 CPLG HXH 829-040		1	EA	21.22	21.22
	4 PVC S80 SW CAP 847-040		1	EA	42.98	42.98
	4X2 PVC S80 TEE HXH 801-420		2	EA	34.36	68.72
	2 PVC S80 90 HXH 806-020		18	EA	4.82	86.76
	2X2 PVC S80 TEE HXHXH 801-020		2	EA	17.16	34.32
	2 PVC S80 SW CAP 847-020		1	EA	10.68	10.68
	2 PVC SCH80 T/U BALL VLV EPDM		5	EA	228.82	1,144.10
	3" PRW TO POLYMER PUMP					
	3X20 HARD L COPPER IMP PER FOOT	PER FOOT	20	FT	42.72	854.40
	3 WROT COPPER TEE CXCXC		3	EA	134.10	402.30
	3 WROT COPPER CAP		1	EA	52.78	52.78
	3 WROT COPPER MALE ADAPTER		4	EA	137.92	551.68
	3 BRASS BALL VALVE NO LEAD		2	EA	210.00	420.00

	SOLIDS DEWATERING BLDG 2					
	TRUCK LOADING STATION					
	1-1/2" - DR - PVC					
	FROM BELT CONVEYORS					
	TO COLLECTION PIT					
	M-37, I-29					
	1-1/2 PVC SCH80 PIPE SWB 20'		60	FT	1.92	115.20
	1-1/2 PVC S80 MALE ADP 836-015		2	EA	9.16	18.32
	1-1/2 PVC S80 90 HXH 806-015		8	EA	3.99	31.92

	SOLIDS DEWATERING BLDG 2					
	GRAVITY THICKENER PUMP ST.					
	8" - TS - DIP					
	FROM CONN TO EX. TEE					
	TO PUMP SUCTION					
	M-38, M-39, I-26					
	8 FLGXFLG DI PIPE PR 6' PRIMED USA	PRIMED USA	1	EA	1,405.64	1,405.64
	8 FLG TEE C110 PR USA		1	EA	1,189.86	1,189.86
	8X6 FLG RED C110 PR USA		1	EA	619.10	619.10
	6 FLG PLUG VLV HWO USA PV-5060-1		1	EA	2,930.34	2,930.34
	6 FLG CHECK VLV L/W USA CV-5601-1		1	EA	11,782.42	11,782.42
	6 FLG TEE CI C110 PR USA		1	EA	615.45	615.45
	6 BLIND FLG DI USA		1	EA	144.06	144.06
	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
	6 FLGXPE DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	472.50	472.50
	8 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	902.46	902.46
	8 FLG PLUG VLV HWO USA PV-5035-1C		1	EA	3,825.85	3,825.85
	8 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	902.46	902.46
	8" FLG DISM JT REST DOM FBE COATING STD B&N EPDM GASKET		1	EA	1,158.74	1,158.74
	8 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	952.78	952.78
	8 FLG TEE C110 PR USA		1	EA	1,189.86	1,189.86
	8X3 FLG RED C110 PR USA		1	EA	594.48	594.48
	8 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	952.78	952.78
	8 FLG 90 C110 PR USA		1	EA	617.28	617.28
	8 FLGXGRV DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	589.10	589.10

12870	8 VIC CPLG F/DI STYLE 31 "E" GSKT STD B&N EPDM GASKET	GSKT	1	EA	301.72	301.72
12900	8 FLGXGRV DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	589.10	589.10
12910	3 B8M 316SS FLG BNW KIT L/GSKT		1	EA	88.91	88.91
12920	3X1/8 FLG FF EPDM GASKET		1	EA	3.93	3.93
12930	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	6	EA	54.15	324.90
12940	6X1/8 FLG FF EPDM GASKET		6	EA	7.24	43.44
12950	8 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/2 B&N	L/GSKT W/8 3/4X3-1/2 B&N	14	EA	54.15	758.10
12960	8X1/8 FLG FF EPDM GASKET		14	EA	8.77	122.78
12970	----------					
12980						
12990	**SOLIDS DEWATERING BLDG 2**					
13000	**GRAVITY THICKENER PUMP ST.**					
13010	**8" - TS - DIP**					
13020	**FROM PUMP DISCHARGE**					
13030	**TO YARD CONNECTION**					
13040	**M-38, M-39, I-26**					
13050						
13060	8 FLG TEE C110 PR USA		1	EA	1,189.86	1,189.86
13070	8X3 FLG RED C110 PR USA		1	EA	594.48	594.48
13080	3 FLG CHECK VLV L/W USA CV-5030-2C		1	EA	8,836.53	8,836.53
13100	8 FLGXGRV DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	639.41	639.41
13110	8 VIC CPLG F/DI STYLE 31 "E" GSKT STD B&N EPDM GASKET	GSKT	1	EA	301.72	301.72
13140	8 FLGXGRV DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	639.41	639.41
13150	8X6 FLG RED C110 PR USA		1	EA	619.10	619.10
13160	6 FLG CHECK VLV L/W USA CV-5030-1C		1	EA	11,782.42	11,782.42
13180	6 FLG PLUG VLV HWO USA PV-5030-1C		1	EA	2,930.34	2,930.34
13200	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
13210	6 FLG PLUG VLV EMO USA PV-5035-7 OPEN/CLOSE		1	EA	13,042.70	13,042.70
13240	6 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	630.41	630.41
13250	6X4 FLG RED C110 PR USA		1	EA	475.95	475.95
13260	4 FLG MAG FLOW METER BY OTHERS		1	EA	QBO	QBO
13280	4 FLGXGRV DI PIPE PR 0'6" PRIMED USA	PRIMED USA	2	EA	315.82	631.64
13290	4 VIC CPLG F/DI STYLE 31 "E" GSKT STD B&N EPDM GASKET	GSKT	1	EA	139.22	139.22
13320	6X4 FLG RED C110 PR USA		1	EA	475.95	475.95
13330	6 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	630.41	630.41
13340	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
13350	6 FLGXPE DI PIPE PR 4'6" PRIMED USA	PRIMED USA	1	EA	580.50	580.50
13360	3 B8M 316SS FLG BNW KIT L/GSKT		3	EA	88.91	266.73
13370	3X1/8 FLG FF EPDM GASKET		3	EA	3.93	11.79
13380	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	3	EA	29.30	87.90
13390	4X1/8 EPDM FLG GSKT FF		3	EA	4.30	12.90
13400	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	9	EA	54.15	487.35
13410	6X1/8 FLG FF EPDM GASKET		9	EA	7.24	65.16
13420	8 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/2 B&N	L/GSKT W/8 3/4X3-1/2 B&N	4	EA	54.15	216.60
13430	8X1/8 FLG FF EPDM GASKET		4	EA	8.77	35.08
13440	----------					
13450						
13460	**SOLIDS DEWATERING BLDG 2**					
13470	**GRAVITY THICKENER PUMP ST.**					
13480	**6" - TS - DIP**					
13490	**FROM PUMP DISCHARGE TEE**					
13500	**TO BYPASS HEADER**					

13510	**M-38, M-39, I-26**					
13520						
13530	6 FLGXFLG DI PIPE PR 1'6" PRIMED USA	PRIMED USA	1	EA	630.41	630.41
13540	6 FLG PLUG VLV HWO USA PV-5060-4		1	EA	2,930.34	2,930.34
13560	6 FLGXFLG DI PIPE PR 3' PRIMED USA	PRIMED USA	1	EA	738.41	738.41
13570	6 FLG 90 C110 PR USA		1	EA	340.10	340.10
13580	6 FLGXFLG DI PIPE PR 7' PRIMED USA	PRIMED USA	1	EA	1,026.41	1,026.41
13590	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
13600	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	8	EA	54.15	433.20
13610	6X1/8 FLG FF EPDM GASKET		8	EA	7.24	57.92
13620	---					
13630						
13640	**SOLIDS DEWATERING BLDG 2**					
13650	**GRAVITY THICKENER PUMP ST.**					
13660	**6" - PRW - DIP**					
13670	**FROM PUMP SUCTION BYPASS**					
13680	**TO YARD CONN**					
13690	**M-38, M-39, I-26**					
13700						
13710	6 PVC C900 DR18 PIPE 20' GSKT PC235 EPDM	PC235	60	FT	15.44	926.40
13730	2 PVC SCH80 PIPE SWB 20'		60	FT	2.63	157.80
13740	6 MJ L/P SLV C153 USA		1	EA	155.92	155.92
13750	6 MJ 90 C153 USA		1	EA	177.80	177.80
13760	6 MJ TEE C153 USA		1	EA	255.30	255.30
13770	6X2 MJ TAPT CAP C153 USA		1	EA	133.12	133.12
13780	2 PVC S80 MALE ADPT MIPTXH 836-020	836-020	1	EA	13.25	13.25
13790	2 PVC S80 90 HXH 806-020		2	EA	4.82	9.64
13800	6 EBAA 2006PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	8	EA	66.56	532.48
13820	6 BELL RESTRAINER F/C900 1506		2	EA	61.92	123.84
13830						
13840	**1" PRW**					
13850	1X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	6.92	276.80
13860	1 WROT COPPER MALE ADAPTER		9	EA	11.13	100.17
13870	1 WROT COPPER 90 BEND CXC		3	EA	6.83	20.49
13880	1 WROT COPPER TEE CXCXC (I)		1	EA	15.30	15.30
13890	1 BRASS BALL VALVE NO LEAD		2	EA	21.93	43.86
13900	1 SOLENOID VALVE THREADED BRASS, 2-WAY, N0 SV-5030-7		1	EA	614.48	614.48
13930	1 THRD BRZ PRESS RED VALVE PRV-5030-3		1	EA	PTF	PTF
13950	1 BRZ THRD Y-STRAINER		1	EA	51.79	51.79
13960	F1700-4NL 1 CORP STOP MIPXFIP NO LEAD	NO LEAD	2	EA	68.28	136.56
13970	202NS-0663 RM 6X1IP NYL SAD 6.00-6.63 OD NYLON DBL SS STRAP 6.63X1IP	6.00-6.63 OD NYLON DBL SS	2	EA	146.06	292.12
13980	---					
13990						
14000	**SOLIDS DEWATERING BLDG 2**					
14010	**GRAVITY THICKENER PUMP ST.**					
14020	**4" - DR - PVC**					
14030	**FROM PUMP BASE DRAIN**					
14040	**TO CONN TO EX. DR**					
14050	**M-38, M-39, I-26**					
14060						
14070	4 C900 DR18 PVC PIPE 20' GRN GREEN GSKT PC235 EPDM	GREEN GSKT PC235	20	FT	7.55	151.00
14090	4 MJ 90 C153 USA		2	EA	113.06	226.12
14100	4 MJ WYE C153 USA		1	EA	232.51	232.51
14110	4 MJ L/P SLV C153 USA		1	EA	104.86	104.86
14120	4 EBAA 2004PEC MEGALUG F/PVC C900/IPS W/EBAA SEAL GSKT ACC USA EPDM	C900/IPS W/EBAA SEAL GSKT ACC	9	EA	52.18	469.62

14140	4" CI ADJ EQPT FLOOR DRAIN		1	EA	PTF	PTF
	22 13 19.13, 2.3					
14160	4" CI CLEANOUT W/ BRASS PLUG		1	EA	PTF	PTF
	22 13 19, 2.2, B					
14180	1055-44 4 AC/DIXAC/DI CPLG		2	EA	7.68	15.36
14190	----------					
14200						
14210	**GRAVITY THINKENER MIXING**					
14220	**20" - INF - DIP**					
14230	**FROM FIRST FLG ABV GRD**					
14240	**TO CONN TO EX. BASE 90**					
14250	**M-39B**					
14260						
14270	20 FLG L/R 90 C110 USA		1	EA	9,218.86	9,218.86
14280	20 FLG PLUG VLV HWO USA		1	EA	20,953.94	20,953.94
	PV-??					
14300	20" FLG DISM JT REST DOM		1	EA	3,979.00	3,979.00
	FBE COATING					
	STD B&N					
	EPDM GASKET					
14340	20 FLGXFLG DI PIPE PR 6' PRIMED USA	PRIMED USA	1	EA	6,126.14	6,126.14
14350	20 FLG MAG FLOW METER		1	EA	QBO	QBO
	BY OTHERS					
14370	20 FLGXFLG DI PIPE PR 2'6" PRIMED USA	PRIMED USA	1	EA	5,003.60	5,003.60
14380	20X4 FLG TEE C110 PR USA		1	EA	8,166.91	8,166.91
14390	24X20 FLG ECC RED C110 PR USA		1	EA	7,116.51	7,116.51
	W/ 1" TOL FOR POLY INJ.					
14410	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	1	EA	29.30	29.30
14420	4X1/8 EPDM FLG GSKT FF		1	EA	4.30	4.30
14430	20 A307B BLK BOLT & NUT KIT L/GSKT W/20 1-1/8X5 B&N	L/GSKT W/20 1-1/8X5 B&N	8	EA	294.28	2,354.24
14440	20X1/8 FLG FF EPDM GASKET		8	EA	37.78	302.24
14450	24 A307B BLK BOLT & NUT KIT L/GSKT W/20 1-1/4X5-1/2 B&N	L/GSKT W/20 1-1/4X5-1/2 B&N	1	EA	387.24	387.24
14460	24X1/8 FLG FF EPDM GASKET		1	EA	49.33	49.33
14470	----------					
14480						
14490	**COAGULANT BUILDING**					
14500	**6" - PRW - DIP**					
14510	**FROM YARD CONN**					
14520	**TO CONN TO FAP PMPS, VOL FEED**					
14530	**MIXING TANKS & FEED PUMPS**					
14540	**M-40, M-41, I-15, I-16**					
14550						
14560	6 HDSS CL50 PR350 DI PIPE		20	FT	37.03	740.60
	EPDM					
14580	6 TYTON JT RUBBER EPDM GASKET		1	EA	72.33	72.33
14590	6 MJ 90 C153 USA		1	EA	177.80	177.80
14600	6 FLGXPE DI PIPE PR 11'6" PRIMED USA	PRIMED USA	1	EA	1,084.50	1,084.50
14610	6 EBAA 1106DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA	W/EBAA SEAL GSKT ACC USA	2	EA	57.87	115.74
	EPDM					
14630						
14640	6X1-1/2 TAPT BLIND FLG DI USA		1	EA	329.16	329.16
14650	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
14660	6 FLGXFLG DI PIPE PR 7'6" PRIMED USA	PRIMED USA	1	EA	1,062.41	1,062.41
14670	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
14680	6X1-1/2 TAPT BLIND FLG DI USA		1	EA	329.16	329.16
14690	6 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	594.41	594.41
14700	6 FLG TEE C110 PR USA		1	EA	615.45	615.45
14710	6X1-1/2 TAPT BLIND FLG DI USA		1	EA	329.16	329.16
14720	6X3 TAPT BLIND FLG CI USA		1	EA	269.59	269.59
14730	6 A307B BLK BOLT & NUT KIT L/GSKT W/8 3/4X3-1/4 B&N	L/GSKT W/8 3/4X3-1/4 B&N	9	EA	54.15	487.35
14740	6X1/8 FLG FF EPDM GASKET		9	EA	7.24	65.16
14750						
14760	**3" AND UNDER PRW**					
14770	3X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	42.72	1,708.80

14780	2X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	20.94	837.60
14790	1-1/2X20 HARD L COPPER IMP PER FOOT	PER FOOT	60	FT	13.38	802.80
14800	1X20 HARD L COPPER IMP PER FOOT	PER FOOT	20	FT	6.92	138.40
14810	3 BRZ COMP FLG F/COP SW		1	EA	1,310.84	1,310.84
14820	3 WROT COPPER MALE ADAPTER		7	EA	137.92	965.44
14830	3 WROT COPPER 90 BEND CXC		2	EA	74.40	148.80
14840	3 WROT COPPER TEE CXCXC		1	EA	134.10	134.10
14850	3X1-1/2 WROT COPPER TEE CXCXC		3	EA	112.65	337.95
14860	3X1-1/2 WROT COPPER REDUCER		2	EA	112.65	225.30
14870	2 WROT COPPER 90 BEND CXC		15	EA	28.72	430.80
14880	2 WROT COPPER TEE CXCXC		3	EA	50.69	152.07
14890	2 WROT COPPER MALE ADAPTER		25	EA	31.69	792.25
14900	1-1/2 WROT CXC 90 BEND		10	EA	15.76	157.60
14910	1-1/2 WROT COPPER MALE ADAPTER		28	EA	18.73	524.44
14920	1-1/2 WROT COPPER TEE CXCXC		2	EA	31.88	63.76
14930	1-1/2X1 WROT CXC RED COUPLING		5	EA	14.09	70.45
14940	1 WROT COPPER MALE ADAPTER		5	EA	11.13	55.65
14950	1-1/2 BRASS BALL VALVE NO LEAD		6	EA	48.80	292.80
14960	1-1/2 BRZ THRD Y-STRAINER		2	EA	97.46	194.92
14970	1-1/2 THRD BRZ PRESS REG VALVE PREGV-7005-A		1	EA	PTF	PTF
14990	1-1/2 THRD BRZ PRESS RED VALVE PRV-8000-1		1	EA	PTF	PTF
15010	1-1/2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0		2	EA	931.58	1,863.16
15030	1-1/2 THRD GATE VLV W/ PNU USA OPEN/CLOSE - PNUEMATIC GV-7005-3		1	EA	PTF	PTF
15060	2 BRASS BALL VALVE NO LEAD		3	EA	67.99	203.97
15070	2 THRD BRZ PRESS REG VALVE PREGV-7000-A		1	EA	PTF	PTF
15090	2 BRZ THRD Y-STRAINER		1	EA	156.56	156.56
15100	2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0 SV-7000-5 SV-7000-5A		2	EA	1,569.74	3,139.48
15140	2 THRD GATE VLV HWO USA GV-7000-5A GV-7000-5B GV-7000-6A GV-7000-6B		4	EA	464.10	1,856.40
15190	3 BRASS BALL VALVE NO LEAD		1	EA	210.00	210.00
15200	3 BRZ THRD Y-STRAINER		1	EA	7,847.73	7,847.73
15210	3 THRD BRZ BACK PRESS VALVE BPRV-7040-A		1	EA	PTF	PTF
15230						
15240	**EMERGENCY SHOWERS**					
15250	1-1/4X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	10.55	422.00
15260	1-1/4 WROT COPPER CPLG NO STOP CXC	CXC	3	EA	7.88	23.64
15270	1-1/4 WROT COPPER MALE ADPT		9	EA	15.98	143.82
15280	1-1/4BRASS BALL VALVE NO LEAD		3	EA	40.36	121.08
15290	HAWS 8330 COMBO DRENCH SHOWER		3	EA	2,886.00	8,658.00
15300	HAWS 9001 ALARM & LIGHT ATTCH		3	EA	1,994.25	5,982.75
15310	---					
15320						
15330	**DRY CHEMICAL FEED BLDG 3**					
15340	**4" - PRW - DIP**					
15350	**FROM YARD CONN**					
15360	**TO LIME SLURRY TANKS & SLAKER**					
15370	**M-43, M-44, M-45, M-46**					
15380						
15390	4 HDSS PR350 DI PIPE EPDM		20	FT	49.55	991.00
15410	4 TYTON JT RUBBER EPDM GASKET		1	EA	12.34	12.34
15420	4 MJ 90 C153 USA		1	EA	113.06	113.06
15430	4 FLGXPE DI PIPE PR 15' PRIMED USA	PRIMED USA	1	EA	1,107.00	1,107.00
15440	4 EBAA 1104DEC MEGALUG F/DIP W/EBAA SEAL GSKT ACC USA EPDM	W/EBAA SEAL GSKT ACC USA	2	EA	45.91	91.82

15460						
15470	**EXPOSED TO CONNECTIONS**					
15480	4 FLG 90 C110 PR USA		1	EA	277.18	277.18
15490	4 FLGXFLG DI PIPE PR 2' PRIMED USA	PRIMED USA	1	EA	524.05	524.05
15500	4 FLG 45 C110 PR USA		1	EA	443.12	443.12
15510	4 FLGXFLG DI PIPE PR 1' PRIMED USA	PRIMED USA	1	EA	463.50	463.50
15520	4 FLG 45 C110 PR USA		1	EA	443.12	443.12
15530	4 FLGXFLG DI PIPE PR 0'6" PRIMED USA	PRIMED USA	1	EA	463.50	463.50
15540	4 FLG TEE C110 PR USA		1	EA	331.89	331.89
15550	4X1-1/2 TAPT BLIND FLG DI USA		1	EA	269.89	269.89
15560	4X2 TAPT BLIND FLG DI USA		1	EA	133.12	133.12
15570	4 A307B BLK BOLT & NUT KIT L/GSKT W/8 5/8X3 B&N	L/GSKT W/8 5/8X3 B&N	9	EA	29.30	263.70
15580	4X1/8 EPDM FLG GSKT FF		9	EA	4.30	38.70
15590						
15600	**2" AND UNDER PRW**					
15610	2X20 HARD L COPPER IMP PER FOOT	PER FOOT	60	FT	20.94	1,256.40
15620	1-1/2X20 HARD L COPPER IMP PER FOOT	PER FOOT	80	FT	13.38	1,070.40
15630	2 WROT COPPER 90 BEND CXC		5	EA	28.72	143.60
15640	2 WROT COPPER TEE CXCXC		4	EA	50.69	202.76
15650	2X1/2 WROT COPPER RED CXC		2	EA	39.48	78.96
15660	2 WROT COPPER MALE ADAPTER		10	EA	31.69	316.90
15670	1-1/2 WROT CXC 90 BEND		17	EA	15.76	267.92
15680	1-1/2 WROT COPPER MALE ADAPTER		92	EA	18.73	1,723.16
15690	1-1/2 WROT COPPER TEE CXCXC		11	EA	31.88	350.68
15700	2 THRD GATE VLV HWO USA GV-7521-3A GV-7521-4A		3	EA	464.10	1,392.30
15730	2 THRD GATE VLV W/ EMO USA GV-7526-3		1	EA	PTF	PTF
15750	1-1/2 THRD GATE VLV W/ EMO USA GV-7532-3 GV-7532-4		2	EA	PTF	PTF
15780	1-1/2 THRD GATE VLV HWO USA GV-7522-3B GV-7522-4B		2	EA	376.25	752.50
15810	1-1/2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0 SV-7531-3 SV-7531-4		2	EA	931.58	1,863.16
15850	1-1/2 THRD MAG FLOW METER BY OTHERS		2	EA	QBO	QBO
15870	LEG T-5500WNL 1-1/2 BRZ BALL VLV FIPT 314-267 NO LEAD	VLV FIPT 314-267 NO LEAD	16	EA	218.58	3,497.28
15880	1-1/2 BRZ THRD Y-STRAINER		4	EA	97.46	389.84
15890	1-1/2" BRASS CHECK VALVE		4	EA	47.15	188.60
15900	1-1/2 THRD BRZ PRESS REG VALVE PREGV-7540-5 PREGV-7540-6 PREGV-7540-7 PREGV-7540-8		4	EA	PTF	PTF
15950	1-1/2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0 SV-7540-5 SV-7540-6 SV-7540-7 SV-7540-8		4	EA	931.58	3,726.32
16010						
16020	**EMERGENCY SHOWERS**					
16030	1-1/4X20 HARD L COPPER IMP PER FOOT	PER FOOT	20	FT	10.55	211.00
16040	1-1/4 WROT COPPER CPLG NO STOP CXC	CXC	1	EA	7.88	7.88
16050	1-1/4 WROT COPPER MALE ADPT		3	EA	15.98	47.94
16060	B11-555WNL 1-1/4 BALL CURB FIPT (NO LEAD)	FIPT (NO LEAD)	1	EA	187.31	187.31
16070	HAWS 8330 COMBO DRENCH SHOWER		1	EA	2,886.00	2,886.00
16080	HAWS 9001 ALARM & LIGHT ATTCH		1	EA	1,994.25	1,994.25
16090	----------					
16100						
16110	**SOUTH SYSTEM CHEM STORAGE**					
16120	**2" - DR - S80 PVC**					

16130	**FROM CONTAINMENT SUMP**					
16140	**TO YARD DRAIN CONN**					
16150	**M-47, M-48**					
16160						
16170	2 PVC SCH80 PIPE SWB 20'		20	FT	2.63	52.60
16180	2 PVC S80 90 HXH 806-020		1	EA	4.82	4.82
16190	2X2 PVC S80 TEE HXHXH 801-020		1	EA	17.16	17.16
16200	2 PVC S80 MALE ADPT MIPTXH 836-020	836-020	2	EA	13.25	26.50
16210	2 THRD GATE VLV 2" OP NUT USA RW, NRS		1	EA	464.10	464.10
16230	5-1/4 VB LID M/SEWER USA		1	EA	24.36	24.36
16240	6850-60 26T TOP SECT THRD USA		1	EA	149.48	149.48
16250	6850-24B 24" CI BOTTOM SEC USA THREADED DOMESTIC BELL BOTTOM	THREADED DOMESTIC BELL BOTTOM	1	EA	108.51	108.51
16260	#60 VLV BOX EXT (5.25")		1	EA	114.05	114.05
16270	4' VLV STEM EXT W/CR & SS (CENTER RING AND SET SCREW)	(CENTER RING AND SET SCREW)	1	EA	711.50	711.50
16280	WAGER 3" BRASS TAG		1	EA	21.43	21.43
16290	----------					
16300						
16310	**SOUTH SYSTEM CHEM STORAGE**					
16320	**2-1/2" - PW - S80 PVC**					
16330	**FROM YARD CONN**					
16340	**TO EMERGENCY SHOWERS**					
16350	**M-47, M-48**					
16360						
16370	2-1/2 PVC SCH80 PIPE SWB		80	FT	4.00	320.00
16380	1-1/4 PVC SCH80 PIPE SWB 20'		20	FT	1.92	38.40
16390	2-1/2 PVC S80 90 HXH 806-025		5	EA	11.28	56.40
16400	2-1/2 PVC S80 TEE HXH 801-025		2	EA	18.65	37.30
16410	2-1/2 PVC S80 SW CAP 847-025		2	EA	21.78	43.56
16420	2-1/2 X 1-1/4 PVC S80 RED CPLG		2	EA	51.00	102.00
16430	1-1/4 PVC S80 MALE ADPT HXMI 836-012	836-012	6	EA	6.38	38.28
16440	1-1/4 BRASS BALL VALVE NO LEAD		2	EA	40.36	80.72
16450	HAWS 8330 COMBO DRENCH SHOWER		2	EA	2,886.00	5,772.00
16460	HAWS 9001 ALARM & LIGHT ATTCH		2	EA	1,994.25	3,988.50
16470	----------					
16480						
16490	**SODIUM HYOCHLORITE - EX. & 3RD**					
16500	**2" - DR - S80 PVC**					
16510	**FROM CONTAINMENT SUMP**					
16520	**TO YARD DRAIN CONN**					
16530	**M-49, M-50**					
16540						
16550	2 PVC SCH80 PIPE SWB 20'		20	FT	2.63	52.60
16560	2 PVC S80 90 HXH 806-020		1	EA	4.82	4.82
16570	2X2 PVC S80 TEE HXHXH 801-020		1	EA	17.16	17.16
16580	2 PVC S80 MALE ADPT MIPTXH 836-020	836-020	2	EA	13.25	26.50
16590	2 THRD GATE VLV 2" OP NUT USA RW, NRS		1	EA	464.10	464.10
16610	5-1/4 VB LID M/SEWER USA		1	EA	24.36	24.36
16620	6850-60 26T TOP SECT THRD USA		1	EA	149.48	149.48
16630	6850-24B 24" CI BOTTOM SEC USA THREADED DOMESTIC BELL BOTTOM	THREADED DOMESTIC BELL BOTTOM	1	EA	108.51	108.51
16640	#60 VLV BOX EXT (5.25")		1	EA	114.05	114.05
16650	4' VLV STEM EXT W/CR & SS (CENTER RING AND SET SCREW)	(CENTER RING AND SET SCREW)	1	EA	711.50	711.50
16660	WAGER 3" BRASS TAG		1	EA	21.43	21.43
16670	----------					
16680						
16690	**SODIUM HYOCHLORITE - EX. & 3RD**					
16700	**2-1/2" - PW - S80 PVC**					
16710	**FROM YARD CONN**					
16720	**TO EMERGENCY SHOWERS**					
16730	**M-49, M-50**					
16740						
16750	2-1/2 PVC SCH80 PIPE SWB		40	FT	4.00	160.00
16760	1-1/4 PVC SCH80 PIPE SWB 20'		20	FT	1.92	38.40
16770	2-1/2 PVC S80 90 HXH 806-025		3	EA	11.28	33.84

16780	2-1/2 PVC S80 TEE HXH 801-025		1	EA	18.65	18.65
16790	2-1/2 PVC S80 SW CAP 847-025		1	EA	21.78	21.78
16800	2-1/2 X 1-1/4 PVC S80 RED CPLG		1	EA	51.00	51.00
16810	1-1/4 PVC S80 MALE ADPT HXMI 836-012	836-012	3	EA	6.38	19.14
16820	1-1/4 BRASS BALL VALVE NO LEAD		1	EA	40.36	40.36
16830	HAWS 8330 COMBO DRENCH SHOWER		1	EA	2,886.00	2,886.00
16840	HAWS 9001 ALARM & LIGHT ATTCH		1	EA	1,994.25	1,994.25
16850	----------					
16860						
16870	**DRY CHEM FEED BLDG 1**					
16880	**1-1/2" - PRW - COPPER**					
16890	**FROM CONN TO EX. PRW**					
16900	**TO MICRSAND PUMP**					
16910	**M-51, M-52**					
16920						
16930	2X20 HARD L COPPER IMP PER FOOT	PER FOOT	20	FT	20.94	418.80
16940	1-1/2X20 HARD L COPPER IMP PER FOOT	PER FOOT	20	FT	13.38	267.60
16950	2 WROT COPPER TEE CXCXC		2	EA	50.69	101.38
16960	2 WROT COPPER 90 BEND CXC		1	EA	28.72	28.72
16970	2X1/2 WROT COPPER RED CXC		2	EA	39.48	78.96
16980	1-1/2 WROT CXC 90 BEND		6	EA	15.76	94.56
16990	1-1/2 WROT COPPER MALE ADAPTER		22	EA	18.73	412.06
17000	1-1/2 WROT COPPER TEE CXCXC		2	EA	31.88	63.76
17010	1-1/2 SOLENOID VALVE THREADED BRASS, 2-WAY, N0 SV-7835-5 SV-7830-5		2	EA	931.58	1,863.16
17050	1-1/2 BRASS BALL VALVE NO LEAD		5	EA	48.80	244.00
17060	1-1/2" BRASS CHECK VALVE CHV-7835-5 CHV-7830-5		2	EA	47.15	94.30
17090	1-1/2 THRD BRZ PRESS REG VALVE PREGV-7830-5		1	EA	PTF	PTF
17110	----------					
17120						
17130	**DRY CHEM FEED BLDG 1**					
17140	**2" - PRW - COPPER**					
17150	**FROM CONN TO EX. PRW**					
17160	**TO LIME SLURRY PUMP**					
17170	**M-51, M-52**					
17180						
17190	2X20 HARD L COPPER IMP PER FOOT	PER FOOT	40	FT	20.94	837.60
17200	4 FLG CROSS C110 PR USA		1	EA	743.10	743.10
17210	4X2 TAPT BLIND FLG DI PR USA		1	EA	133.12	133.12
17220	2 WROT COPPER 90 BEND CXC		6	EA	28.72	172.32
17230	2 WROT COPPER TEE CXCXC		1	EA	50.69	50.69
17240	2 PVC S80 MALE ADPT MIPTXH 836-020	836-020	6	EA	13.25	79.50
17250	2" BRASS CHECK VALVE CHV-7540-9B		1	EA	57.15	57.15
17270	2" THRD PINCH VALVE PCHV-7540-9I		1	EA	PTF	PTF
17290	2" FIPTXMALE CAMLOK 316SS		1	EA	43.60	43.60
17300	2" CAMLOK FEM DUST CAP 316SS		1	EA	72.63	72.63
17310	2X6 316SS NIPPLE		2	EA	20.95	41.90
17320	2" 316SS BALL VALVE		1	EA	659.85	659.85

Internal Use Only

Supply Mechanical Equipment

200.40 00 12 Supply Mechanical Equipment	COMBO	OPCC		CEJCO		C&V		Arroyo		MTS		COMBO	SELECTED
	$ 3,067,676.18		$ 2,757,425.50		$ 73,446.58		$ 282,266.91		$1,559,485.31		$ 379,117.47		$ 3,067,676.18
Contact:													
Phone:													
Email:													
Submittals:					MOYNO								
Delivery:													
Package Scope:													
Is Minority:													
Packa Area ection sment Item Description	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount	QTY	Total Amount
200.40 00 12 Supply Mechanical Equipment	2,442,605		2,294,858		64,375		257,778		1,414,188		0		2,442,605
40-05-51 Slide Gates	314,970		314,970		0		0		0		0		314,970
43-23-00 Pumps	827,360		679,863		0		257778		277250		0		827,360
015 High Rate Flocculation/Sedimentation - Unit 5	25,063		25,063		0		0		0		0		25,063
015.432300.81.00 Microsand Recirculation Pumps	25,063		25,063		0		0		0		0		25,063
015 High Rate Flocculation/Sedimentation - Unit 5 Total	25,063		25,063		0		0		0		0		25,063
050 Chemical Systems	694,525		438,618		0		170,000		277,250		0		694,525
050.432300.81.00 Micro Sand Slurry Feed Pump P-783	175,756		175,756		0		0		0		0		175,756
050.432300.81.10 Coagulant Aid Polymer Transfer Pu	170,000		71,519		0		170,000		0		0		170,000
050.432300.81.20 Lime Slurry Feed Pump #9 P-7540-0	71,519		71,519		0		0		0		0		71,519
050.432300.81.30 Sulfuric Acid Pumps P-7210-9/10 (I-	277,250		119,825		0		0		277,250		0		277,250
050 Chemical Systems Total	694,525		438,618		0		170,000		277,250		0		694,525
067 Belt Filter Press Feed Pump	107,773		216,182		0		87778		0		0		107,773
067.432300.81.00 Thickened Sludge Feed Pump - P50	107,773		216,182		0		87,778		0		0		107,773
067 Belt Filter Press Feed Pump Total	107,773		216,182		0		87778		0		0		107,773
43-23-00 Pumps Total	827,360		679,863		0		257778		277250		0		827,360
46-30-00 Chemical Feed Systems & Equipment	1,300,275		1,300,025		64,375		0		1,136,938		0		1,300,275
010 Ozone Generation Building 3	21,625		21,625		0		0		0		0		21,625
010.463000.81.02 Air Compressor Unit	21,625		21,625		0		0		0		0		21,625
010 Ozone Generation Building 3 Total	21,625		21,625		0		0		0		0		21,625
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Ski	468,438		225,588		0		0		468,438		0		468,438
051.463000.81.00 Sodium Hypochlorite Skids P-7610-	468,438		225,588		0		0		468,438		0		468,438
051 Sodium Hypochlorite Storage 3rd Tank & New Pump Ski	468,438		225,588		0		0		468,438		0		468,438
054 Coagulant Aid Polymer Building	302,438		737,288		0		0		302,438		0		302,438
054.463000.81.00 Coagulant Aid Dry Polymer Feed Hc	302,438		737,288		0		0		302,438		0		302,438
054 Coagulant Aid Polymer Building Total	302,438		737,288		0		0		302,438		0		302,438
056 Sodium Hydroxide - South	19,075		62,725		19,075		0		0		0		19,075
056.463000.81.00 Sodium Hydroxide NaOH Recirculat	19,075		62,725		19,075		0	NO BID	0		0		19,075
056 Sodium Hydroxide - South Total	19,075		62,725		19,075		0		0		0		19,075
057 Ferric Sulfate - North System Chemical storage	122,638		122,638		0		0		0		0		122,638
057.463000.81.00 Ferric Sulfate Pump Skids P-7310-7/8	122,638		122,638		0		0		0		0		122,638
057 Ferric Sulfate - North System Chemical storage Total	122,638		122,638		0		0		0		0		122,638
070 Solids Dewatering	366,063		130,163		45,300		0		366,063		0		366,063
070.463000.81.00 Polymer Pump Skids	366,063		130,163		45,300		0		366,063		0		366,063
070 Solids Dewatering Total	366,063		130,163		45,300		0		366,063		0		366,063
46-30-00 Chemical Feed Systems & Equipment Total	1,300,275		1,300,025		64,375		0		1,136,938		0		1,300,275
46-41-00.000 MIXING EQUIPMENT	326,881		408,500		0		0		0		326,881		326,881
017 Ozone Contactor Tank	326,881		408,500		0		0		0		326,881		326,881
017.464100.81.00 Submersible Mixers	326,881		0		0		0		0		326,881		326,881
46-41-23.000.1-1-050 Submersible Mixer, 50	326,881	4.00 ea	408,500								326,881		326,881
Warranty													
Warranty													
120 Day Hold													
017.464100.81.00 Submersible Mixers Total	326,881		0		0		0		0		326,881		326,881
017 Ozone Contactor Tank Total	326,881		0		0		0		0		326,881		326,881
46-41-00.000 MIXING EQUIPMENT Total	326,881		0		0		0		0		326,881		326,881
Standard Warranty	2,405										2,405		2,405
Extended Warranty	2,972										2,972		2,972
120 Day Hold	7,548										7,548		7,548
Shipping	19,120				2,700				10,000		6,420		19,120
ESCALATION TO NTP													
SUBTOTAL	2,801,531		2,703,358		67,075		257,778		1,424,188		346,226		2,801,531
BOND Cost	$ 56,030.62	2.00%	$ 54,067.17	2.00%	$ 1,341.49	2.00%	$ 5,155.56	2.00%	$ 28,483.75	2.00%	$ 6,924.52	2.00%	$ 56,030.62
SALES TAX	$ 210,114.81		Inc.	7.50%	$ 5,030.59	7.50%	$ 19,333.35	7.50%	$ 106,814.06	7.50%	$ 25,966.95	7.50%	$ 210,114.81
OTHER			Inc.										
TOTAL	$ 3,067,676.18		$ 2,757,425.50		$ 73,446.58		$ 282,266.91		$1,559,485.31		$ 379,117.47		$ 3,067,676.18

43 23 57 Progressing Cavity Pumps

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price	
1	Belt Filter Press Feed Pump as specified (P-5030-7)	1	EA	$ 87,778.00	$ 87,778.00	
3	Supplier Bond for 100% of the value of the Purchase Order	1	LS	$ 3,511.12	$ 3,511.12	4%
				Sub-Total:	$ 91,289.12	
				Freight:	$ included	
				Taxes:	$ 5,477.34	6%
				Total Value:	$ 96,766.46	
				Hold Bid for 60 Days Beyond Bid Date	$ 96,766.46	
				Hold Bid for 90 Days Beyond Bid Date	$101,604.90	
				Hold Bid for 120 Days Beyond Bid Date	$101,604.90	
				Extended Warranty Thru July 1, 2028	$ included	

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.
- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.

- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:
- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Textura Construction Payment Management program.

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has included all necessary costs and fees associated with the use of the Textura	_____	_____	_____	$ _____

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

program as stipulated in Exhibit H - Invoicing Instructions.

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: January 2027
- After Receipt of Order (ARO) drawings will be submitted for approval by: 10 Weeks

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by: TBD
- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: January 2027

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination $

7. WARRANTY

	YES	NO	If No, provide the cost to include this requirement

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

A. Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028 _____ _____ $ _____

8. DOCUMENTATION

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes (6) copies of all operation and maintenance manuals.	_____	_____	_____	$ _____
B. Confirm your pricing includes (6) copies of all submittals.	_____	_____	_____	$ _____

9. EQUIPMENT / MATERIAL INFORMATION

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.	_____	_____	_____	$ _____
B. Confirm your pricing includes all shop finish painting / coating as applicable.	_____	_____	_____	$ _____
C. Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.	_____	_____	_____	$ _____
*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.				
D. Confirm your pricing includes all special tools as applicable.	_____	_____	_____	$ _____
E. Confirm your pricing includes all factory testing per the specifications as applicable.	_____	_____	_____	$ _____
F. Confirm your pricing includes all oil, grease, and lubricants as applicable.	_____	_____	_____	$ _____

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

G. Confirm your pricing includes space heaters for motors as applicable. _____ _____ _____ $ _____

H. Equipment Manufacturer(s) _____

10. FIELD SERVICES

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.				$
Number of trips				
Number of total days on-site				
B. Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable				$
Number of trips				
Number of total days on-site				

11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.				$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C Confirm your pricing includes compliance with FAC 255.0993				$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)	____	____	____	$ ____
B. Confirm you have provided the Surety Prequalification Letter.	____	____	____	

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	**Do Not Agree**
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	____	____

If you DO NOT AGREE, state reasons for not being able to comply.

_____

_____

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

B. Confirm your company is registered at SAMS.gov.

	YES	NO
B. Confirm your company is registered at SAMS.gov.		

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

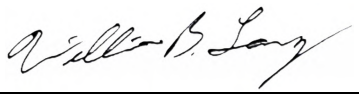
OTHER ITEMS

Section	Description	Date
	N/A	

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

1. SIGNATURE

By: 

(Signature of person authorized to sign)

Printed Name: Brandon Lang, P.E.
Title: Regional Sales Manager
Company Name: Carter & VerPlanck, a DXP Company
Address: 4910 W Cypress Street
Tampa, FL 33607

Phone: (813) 481-5200
Email: blang@cviwater.com

DXP | Carter & VerPlanck
4910 W Cypress St.
Tampa, FL 33607

Office 813-287-0709
www.cviwater.com
www.dxpe.com

QUOTE

TO: CDM Smith **DATE:** 12/19/2024

ATTN: Mahendra Balkaranmk **RE:** TBW Surface WTP Expansion

WE ARE PLEASED TO QUOTE YOU ON THE FOLLOWING MATERIAL FOR ACCEPTANCE WITHIN 30 DAYS

Tampa Bay Surface Water Treatment Plant Expansion

I. Progressing Cavity Pumps (Belt Filter Press Feed Pump)

- Section 43 23 57
- Manufactured by Netzsch

Product:		Content	nominal	minimum	maximum
Name / Composition			Thickened Sludge		
Product temperature	assumed	°F		55	70
Specific gravity	assumed		1		
Particle size	assumed	in	0.1		
pH value	assumed			5	8
Solids content (w/w)	assumed	%TS	5		
Dynamic viscosity	assumed	cP		1	100
Abrasive	assumed		Low		

"Materials of construction are only recommended based on the information provided. Customer needs to verify materials will be compatible with the process fluid or application."

Application Details:		Content	nominal		at 60Hz
Flow rate (Q)	approx.	GPM	200		231
Differential pressure		Ft	50		50
Suction pressure	assumed	Ft	Flooded		Flooded
Discharge pressure	approx.	Ft	50		50
Pump operating speed	approx.	RPM	230		266
Sliding velocity	approx.	ft./s	4.6		5.3
Frequency	approx.	Hz	52		60
Running power required at drive shaft	approx.	HP	5.01		5.8
Running torque	approx.	ft-lbf	114.3		114.3
Starting power required at drive shaft	approx.	HP	11.3		
Starting torque	approx.	ft-lbf	223.5		

Assembly Specification	Installation:	Horizontal

General operating conditions	
Installation area	Inside
Ambient Temperature	Approx. 20°C / 70 F
Humidity	up to 75%
Application type	Continuous operation
Operating hours per day	16 - 24
Service voltage	3ph, 60hz, 230/460V

Painting	Coating system	NETZSCH System 1
	Pump Color	RAL7031 (blue grey)/NCS3555B60G (teal)

Operating and Maintenance Instructions
Standard documentation in accordance with the 98/37/EG Machinery Directive.
Request the Operating and Maintenance at https://www.netzschusa.com/distributors/OM.html

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Pump: NM076SY01L07K.2

Picture is for reference only and may not be exact model specified

Characteristics and benefits of the FSIP® Advanced pump:
Featuring rotor and stator servicing in place
Two piece drivetrain to disconnect rotor and stator
Features large FSIP servicing cover (window)
Two large inspection ports 180° apart
4 different stator - rotor geometries available for most sizes
Low Maintenance expenses

General Characteristics	
name plate on the pump	in English (Stainless steel)
pump tag(s)	P-5030-7
direction of rotation	To the left, counter clockwise(as viewed from drive end)

Bearing Housing	Cast Iron 0.6025 / EN-GJL-250

Pump Housing / End Connection	
Housing Material	Cast Iron 0.6025 / EN-GJL-250
Housing Design	Split Housing
Housing Connection Position	Vertically Upwards (as viewed from drive end)
Function of Housing Connection	Suction Connection
Function of End Connection	Discharge Connection
Housing Connection Design	Standard
Nom. Dia. & Pressure of Housing Connection	6" 125# FF ANSI Flange per ASME 16.5B
End Connection design	Cast Iron 0.6025 / EN-GJL-250
Nom. Dia. & Pressure of End Connection	6" 125# FF ANSI Flange per ASME 16.5B
Housing Seals	FKM

Shaft Seal	
Design	Single mechanical seal
Shaft seal type	Netzsch uNS-100
Shaft seal materials	SiC v SiC faces, Viton Elastomers, 316SS hardware - Q1Q1VGG

Rotating Parts	
Extension shaft Material	Stainless Steel SAE 420
Coupling Rod Material	SAE 316 Stainless Steel
Coupling Rod Design	FSIP Split Two Piece

Joints	
Joint type	Double Sealed Gear Joint
Joint sealing material	Buna/SAE 316 Stainless Steel
Joint lubrication	Mineral Oil

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Rotor	
Rotor material	Alloy Steel SAE 4140, hard chrome plated
Rotor Size	Standard
Temperature range	32-84°F

Stator	
Stator material	NEMOLAST® S61L / S62L (Buna)

"Materials of construction are only recommended based on the information provided. Customer needs to verify materials will be compatible with the process fluid or application."

Drive	
Motor	
Manufacturer	WEG
Type	01518ET3ER254TC-W22
Modifications	E-80: NC Winding Thermostats B-230: External AEGIS SGR
Speed min/max (rpm)	88/1750
Power (HP)	15
Frequency (Hz)	60
Frame size	254TC
Voltage (V)	230/460
Poles/phase	4/3
Protection/insulation	TEFC/F
Gear reducer	
Manufacturer	Nord
Type	SK872.1-250TC
Output speed min/max (rpm)	14/266
Ratio	6.57

"Please be aware that any VFD's used in conjunction with these pumps must be constant torque."

Baseplate:	Carbon Steel SAE 1020 - C Channel Design		Coupling: Rotex or Equal
Arrangement	Inline		
Options	☑ 4" Grout Holes	☐ Anchor bolts	☐ Casters and handle bar
	☐ Lifting lugs	☑ 1" Drip Rim w/ 3/4" NPT drain plug	☐ Anchor Bolt Holes w/ Details

Approximate Weights – (lbs.)	
Bareshaft Pump	480
Complete Assembly	1490

Additional Documentation	Testing: Non-Witnessed	
Mill certificates confirming hardness of rotors and stators.	Standard Factory Test	☑
	Hydrostatic Test	☑
	Run Test	☐
	Performance Test Type IV, Lvl A	☑
	Other: _____	☐

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Pos.	Description	Quantity
0010	NETZSCH NEMO® Progressing Cavity Pump FSIP® design model NM076SY01L07K.2 with a 15 HP motor and reducer mounted inline on a structural steel baseplate as per the technical.	1
0011	Discharge Pressure Monitoring: 6" ONYX PSW annular isolation ring in carbon steel/acetyl/buna construction with factory dual-mounted Wika pressure gauge and United Electric NEMA 4X SPDT high switch.	1
0012	Suction Pressure Monitoring: 6" ONYX PSW annular isolation ring in carbon steel/acetyl/buna construction with factory dual-mounted Wika compound gauge and United Electric NEMA 4X SPDT low switch.	1
SP-0010	Spare Parts Set: Mechancical Seal uNS-100 (1), Housing Gaskets/O-Rings Set (1), Rotor K 4140/VCP (1), Stator Buna (1), Gear Joint Rebuild Kit (2)	1
0020	**Shipping and Insurance to Florida	

Delivery Time After Submittal Approval: 24-26 Weeks

Payment Terms: 30% at receipt of PO, 20% at submission of approval documents, 20% at release for manufacturing, 20% payment received 10 days prior to shipment, and 10% 30 days net after shipment

Submittal Lead Time: 4 - 6 Weeks

Optional Price Adders:

Dry Run Protection: By installing a thermal protection device to monitor the operating temperature of the stator. (Probe shipped mounted in stator and controller shipped loose)

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Delivery shipping and payment conditions:

Delivery:
The listed lead time is based on the specific design requirements, current inventory, or standard manufacturing lead times. All pumps are subject to prior sale. Please consult factory at the time of order to obtain a lead time.

Shipping:

Total Gross Weight (lbs.) for all pumps offered:	1725 lbs.
Shipping Terms: EXW Exton, PA	
Est. transit time:	4 working days

***Note: If customer schedules and arranges his own Shipping, shipping details to be provided at time of order.*

Offer validity:	January 11, 2025
Payment conditions:	30% at receipt of PO, 20% at submission of approval documents, 20% at release for manufacturing, 20% payment received 10 days prior to shipment, and 10% 30 days net after shipment

Warranty and Terms of Sale:
For a period of 12 months from the date of shipment, or transfer of ownership, NETZSCH Pumps USA provides a warranty against defective materials or improper workmanship. This quotation is limited to NETZSCH Pumps USA terms and condition of sale. No other terms and conditions will be accepted.

For information concerning our Terms and Conditions of Sale, and complete warranty information for NETZSCH Equipment and Accessory Items (Motors, Reducers, etc.)
please review our current Terms and Conditions of Sale by clicking this link.

We trust our offer is of interest and look forward to discussing this with you in the near future.

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ENGINEERING TOMORROW Danfoss

FC-202 AQUA Series Custom Drive Panel: Qty. 1 – 15 HP (CT) 460V NEMA 4X VFD Unit (Belt Filter Press Feed Pump)

FC-202 AQUA Custom Panel / 15 HP / 380 - 480 Volt / 3-Phase / 60Hz

FLA = 21.0 Amps
Overload = 150% (High Overload)
65kA Short Circuit Current Rating

Panel consisting of:

Enclosure: NEMA 4X 304 Stainless Steel w/ side-mount AC Unit (304 SS, T-stat controlled)
Approximate Dimensions: 48" H x 48" W x 12" D Wall-Mount
Approximate Weight: 460 lbs.
Main Circuit Breaker with Thru-Door Handle Mechanism (Padlockable)
Fused Control Power Transformer
5% Input Line Reactor
3-Contactor Full-Voltage Bypass with NEMA-rated contactors
Surge Protective Device
Output DV/DT Filter
Space Heater
Keypad (behind N4X poly window kit) and 30mm Operators (HOA Switch, Normal/Bypass Switch, Manual/Auto Bypass Switch, E-Stop PB, Start PB, Stop PB, Reset PB, Speed Pot, Elapsed Time Meter, Power on PL, VFD Ready PL, VFD Run PL, VFD Fault PL, Bypass Run PL, Bypass Overload PL, Trip PL, Off PL, High Motor Temp PL, High Pressure PL, No Flow PL, High Discharge PL, Pressure PK) on Door.
Control Circuit to Include the Functional Intent of that shown on Plan Sheet E-31.

Danfoss VFD: FC-202P15KT4E21H2XGC7XXSXXXXANBXCXXXXD1
Communication: Modbus RTU (embedded)
Communication: Ethernet IP (Factory-installed option card)
MCB-101 General Purpose I/O Card (Factory-installed option card)
Real-Time Clock with Battery Back-up
3C3 Conformal Coated Boards
Integral RFI A2 Filter
VFD has built-in dual 5% DC-Link reactors, providing harmonic mitigation equivalent to 5% AC line reactor.
Frame Size: B1

Spare Parts:
Two (2) control fuses of each size & type used.
Two (2) pilot lights of each color & type used.

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Additional Services as Specified:

Spare Part:
VFD Input Fuses: 176F8952 per pack of 3 x 1
Shipping x 1
72 Month Onsite Warranty
- 15HP DTPW272 x 1

Start-up at time of installation: x 1
Training at time of start-up: x 1

Comments:
26 29 23 2.2; 2.8B – Proposing 6-Pulse VFD Design with 5% Line Reactor only. Harmonic Study will be included with Submittal Package.
26 29 23 2.5 – Proposing NEMA 4X brushed-finish stainless steel enclosure with AC unit only. No sun shields are included. Wall-Mount enclosure includes a minimum 12" Width Conduit Entry Area at bottom.

Exceptions:
Exception to all plans and specs not received.
Pan Sheet I-26 (Coord C-1) – Exception to Receiving "Open/Close" Remote Command. Proposed Elementary Diagram on Plan Sheet E-31 does not identify any open and/or close functionality. Requires clarification – total exception at present.
26 29 23 1.4-1.6; 2.12H; 2.13 – Danfoss Standard Submittals, Drawings, Name plates & Production Tests are included only. No Seismic Certification or analysis is included. Harmonic Study can be included at time of submittal.
26 29 23 2.10D – Proposing 3-Contactor Full-Voltage Bypass with NEMA Rated Contactors only. No VFD Isolation Switch or barriers are included.
26 29 23 2.11A – Proposing door-mount operators as identified in this quote only.
26 29 23 2.11A8; 2.11D – Proposing these indicators/displays available through door-mounted keypad only.
26 29 23 2.11D – No SCADA System interface is included with this quote. Not identified on drawings. Not included.
26 29 23 2.12I – Proposing VFD Unit with no pump or motor protection device interface included. None identified in inquiry or shown on plan drawings.
26 29 23 3.1; 3.2; 3.3; 3.7; 3.8 – Examination, Installation, Identification, Cleaning & Attachments are not included in this quote – to be provided by others.
26 29 23 3.4 – Field Quality Control is not included in this quote – to be provided by others.
29 23 3.5 - Standard Danfoss Start-up Services are included only in this quote.

Standard Start-up Services include:
a. Verification that the drive is complete, undamaged, and properly installed.
b. Confirmation of proper product match to application, protection from environment and installation requirements to cooling.
c. Verification of proper wiring to the drive including line, load and control connections, wire routing, shielding, and grounding.
d. Inspection of field connections to the product to make sure they are properly tightened, and internal connections are inspected to ensure they have not loosened during transportation and handling.

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e. Adjustment of drive parameters for motor and load characteristics.
f. Drive programming for the application.
g. Setting of the internal time clock (if so equipped).
h. Verification of drive functionality including proper motor rotation, phase balance at the drive output and response to field control systems.

QUOTE IS VALID TILL: See bid form

$ See Bid Form
NET LOT PLUS TAX

Price includes freight. Sales Tax is not included.
Feed Pump
Submittal Delivery: Approximately 4 to 6 weeks from executed purchase order.
Equipment Delivery: Approximately 24 to 26 weeks after release to production.
VFDs:
Submittal Delivery: Approximately 3 to 4 weeks from executed purchase order.
Equipment Delivery: Approximately 20 to 24 weeks after release to production.

Please Note:

1. We *do not include sales tax,* **pressure gauges, anchor bolts,** wire cable, conduit, piping, installation, hook-up, field testing, control panels or any other accessories or other ancillary items which are not specifically called out in this scope of supply.
2. Under no circumstances will Carter & VerPlanck, a DXP company or its suppliers be liable for any incidental, consequential, liquidated, special or late delivery damages whatsoever.
3. Payment terms are 100% net 30 days from delivery with approved credit. Our prices based upon *no retainage.*
4. Retainage shall only apply to the cost of goods and services. Sales tax per invoice must be paid in full, no retainage allowed.
5. Pricing is based upon Carter & VerPlanck, a DXP company and the manufacturer's Standard Terms and Conditions of Sales. Copies of these documents are attached herewith for your review and reference. *No other terms or conditions of sale will apply unless accepted in writing by an officer of the company.*

TERMS: 100% Net 30 days after invoice date

-WITH CREDIT APPROVAL

QUOTATION DOES NOT INCLUDE ANY SALES OR USE TAX
PAYABLE UNDER ANY STATE OF FEDERAL STATUE

CARTER & VERPLANCK, A DXP COMPANY

BY *Brandon Lang, P.E.*

blang@cviwater.com
cell: 813-481-5200

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TERMS & CONDITIONS OF SALE

1) Neither Carter & VerPlanck, a DXP company nor the manufacturer(s) will be liable for damages of any kind, whether direct, consequential, incidental, special or liquidated.

2) The quoted price may include systems or components from more than one vendor. Carter & VerPlanck, a DXP company, will provide separate prices for individual systems or components upon request, although the total price of all items quoted may vary as a result.

3) Price does not include any gauges, gauge cocks, tools, lubricants, installation, anchor bolts, spare parts, start-up service or other items not specifically called out herein.

4) Price does not include any motor starters, controls, or power factor correction devices other than as specifically called out herein.

5) THE WARRANTY EXTENDED BY THE MANUFACTURER(S) IS IN LIEU OF ALL OTHER OBLIGATIONS, LIABILITIES OR WARRANTIES OF MERCHANTABILITY, FITNESS OR OTHERWISE, EITHER EXPRESS OR IMPLIED, BY FACT OR BY LAW, AND STATES OUR ENTIRE AND EXCLUSIVE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM OF DAMAGES IN CONNECTION WITH THE SALE OR FURNISHING OF GOODS OR PARTS, THEIR DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATION. WE FURTHER SPECIFICALLY EXCLUDE ANY EXPRESS OR IMPLIED WARRANTIES REFERENCE UNDER FLORIDA STATUTE #718.203. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

6) **NOT INCLUDED:** Unless specifically set forth in the scope of the quotation, this offer **does not** include:
- start-up assistance or field services
- interconnecting wiring and/or conduit
- installation labor
- installation supervision
- motor control equipment
- motor starters or contactors
- power distribution equipment
- miscellaneous mechanical and mounting hardware

7) **FREIGHT:**
A) All prices are F.O.B. factory or suppliers' shipping point with freight prepaid and included to the jobsite.
B) Title and Risk of Loss passes to CONSIGNEE AT SHIPPING POINT.
SELLER prepays freight charges.
SELLER bears freight charges.
CONSIGNEE must file claims for loss or damage, (if any).
C) Seller will not consider any claim for damage or shortage unless it is noted on the bill of lading at time of receipt. It is the responsibility of the CONSIGNEE to verify that all items contained on the bill of lading are received prior to accepting shipment.

8) **TAXES:**
The prices quoted are exclusive of, and Purchaser shall pay and make all returns for, any Federal, State, or local sales, use, transfer, or similar taxes applicable to the equipment and material once the same have been delivered as provided herein.

9) **VALIDITY OF PRICING:**
The prices stated herein are contingent upon receipt of a firm order, or letter of intent, in an acceptable form from Purchaser within 30 days from the date of this offer, and Purchaser's willingness to accept delivery when the factory is prepared to ship. If a responsive firm order is not received by the above date, Seller shall have the right to withdraw this quotation and to revise the prices and shipping dates provided herein.

10) **PAYMENT TERMS:**
Seller's payment terms are that all invoices are due and payable within thirty (30) days of the date thereof with approved credit. Interest on the unpaid balance at the rate of 11/2% per month, or the maximum permitted by law, whichever is less will be added to all outstanding invoices which are not paid within 30 days. **Our price is based on no retainage.**

11) **DELIVERY:**
The shipping dates provided herein are based on Seller's current information as to availability of material and components and our best estimate as to dates on which we will be able to ship. These dates are subject to revision or postponement because of unavailability of material and components or because of events beyond our control.

If Purchaser requests postponement of previously agreed to shipping date(s), Seller may invoice the Purchaser, or then require payment for all of such equipment and material as is then ready for shipment; and, from and after the date that such equipment and material or any portion thereof is ready for shipment, any expenses or other charges incurred by Seller in regards to the same shall be at Purchaser's expense and Purchaser shall promptly pay any invoice rendered by Seller in regard thereto.

12) **SERVICE:**
No start-up assistance or field services are included unless specifically called out in our offering. If so included, the Seller will furnish Field Service Engineer(s) as described in our proposal, at the time of start-up, to inspect the completed system, to advise in regard to placing the system in initial

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operation and to instruct operating personnel on the proper use of the equipment and material. The proper installation, start-up and operation of the system and any further changes to be made in the system, responsibility for servicing, and all labor costs thereof, shall be the responsibility, under the control and at the risk of the Purchaser. At the time start-up service is requested we ask you to be **completely** prepared, including where and as appropriate, the availability of power, water, flow, access, etc. so that start-up may proceed as anticipated. Any return trips to the site or additional time required as a result of failure to be so prepared, will be charged to the customer at the prevailing demand service rate.

If service additional to that provided for therein is required, Seller, if available, shall furnish at the expense of the Purchaser, competent service engineers at Seller's then prevailing rates, plus travel and living expenses, to assist in additional service in regard to the equipment and material or in regard to equipment furnished by Purchaser. All charges in connection with such service shall be billed by the Seller and shall be due and bear interest at the Company's normal payment terms unless Seller shall require other payment terms and conditions.

13) **GENERAL:**
The descriptions, terms and conditions contained in this Proposal and the terms and conditions contained in the Manufacturer's Standard Terms attached hereto, which are incorporated herein by reference, constitute the quotation of the Seller. To the extent that the descriptions, terms and conditions contained in the Proposal are inconsistent with the Manufacturer's Standard Terms, the Manufacturer's Standard Terms are modified by this Description.

14) No order shall be deemed accepted by the Manufacturer until the Purchaser is notified of its acceptance by the Manufacturer. Carter & VerPlanck, a DXP company, is not an agent or employee of the Manufacturer(s) and is not authorized to accept orders in its (their) behalf.

15) Any suit or proceeding brought by Purchaser to enforce this agreement, to resolve any dispute over its terms, or to sue for damages for its breach shall be brought only in a state or federal court of appropriate jurisdiction in Hillsborough County, Florida. Purchaser expressly waives any objection that venue in Hillsborough County is inconvenient or improper.

16) In any suit or proceeding brought to enforce this agreement, to resolve any dispute over its terms, or to sue for damages for its breach, the prevailing party shall recover a reasonable attorneys' fee in addition to costs of suit.

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price
1	Belt Filter Press Feed Pump as specified (P-5030-7)	1	EA	$ 18,068.00	$ 19,668.00
3	Supplier Bond for 100% of the value of the Purchase Order	1	LS	$	$ not avalible at the time of quote
				Sub-Total:	$ 19,668.00
				Freight:	$ 700.00
				Taxes:	$ 1,475.10
				Total Value:	$ 21,843.1
				Hold Bid for 60 Days Beyond Bid Date	$ budgetary
				Hold Bid for 90 Days Beyond Bid Date	$ budgetary
				Hold Bid for 120 Days Beyond Bid Date	$ budgetary
				Extended Warranty Thru July 1, 2028	$ budgetary

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.
- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with

scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.

- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:
- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Textura Construction Payment Management program.

	YES	NO	N/A	If No, provide the cost to include this requirement
A. The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has included all necessary costs and fees associated with the use of the Textura	NA			$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

program as stipulated in Exhibit H - Invoicing Instructions. NA

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: January 2027
- After Receipt of Order (ARO) drawings will be submitted for approval by: 10 Weeks

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by: TBD
- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: January 2027

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination $ 700.00 (budgetary)

7. WARRANTY

	YES	NO	If No, provide the cost to include this requirement

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

A.	Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028		x	$ Budgetary

8. DOCUMENTATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes (6) copies of all operation and maintenance manuals.		x		$ budgetary
B.	Confirm your pricing includes (6) copies of all submittals.		x		$ budgetary

9. EQUIPMENT / MATERIAL INFORMATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.		x		$ budgetary
B.	Confirm your pricing includes all shop finish painting / coating as applicable.	x			$
C.	Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.			N/A	$
	*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.				
D.	Confirm your pricing includes all special tools as applicable.			N/A	$
E.	Confirm your pricing includes all factory testing per the specifications as applicable.		x		$ budgetary
F.	Confirm your pricing includes all oil, grease, and lubricants as applicable.		x		$ budgetary

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

G. Confirm your pricing includes space heaters for motors as applicable. ____ ____ N/A $ ____

H. Equipment Manufacturer(s) National Oilwell Varco, LP

10. FIELD SERVICES

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.	x			$
Number of trips				1
Number of total days on-site				1
B. Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable			N/A	$
Number of trips				
Number of total days on-site				

11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.			N/A	$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C Confirm your pricing includes compliance with FAC 255.0993			N/A	$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)			N/A	$
B. Confirm you have provided the Surety Prequalification Letter.			N/A	

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	**Do Not Agree**
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	x	

If you DO NOT AGREE, state reasons for not being able to comply.

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

	YES	NO
B. Confirm your company is registered at SAMS.gov.		x

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

OTHER ITEMS

Section	Description	Date
	N/A	

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 43 23 57 Progressing Cavity Pump

1. SIGNATURE

By: Wil Haynes
(Signature of person authorized to sign)

Printed Name: Wil Haynes
Title: Project Coordinator
Company Name: National Oilwell Varco, LP C/O Carl Eric Johnson
Address: 1725-Q MacLeod Drive
Lawrenceville, GA 30043

Phone: 678-421-8279
Email: whaynes@cejco.com

CARL ERIC JOHNSON INC-EMAIL ONLY
DO NOT MAIL-AMALTO
1725 MACLEOD DR STE Q
LAWRENCEVILLE Georgia United States 30043-7874

Budgetary Price

Quote Prepared By : NOV
Customer Contact : Jobi Matthew
Phone : 678-377-3100
Email : jmathew@cejco.com

Line	Part Number	Description	UOM	Lead Time (Working Weeks)	Qty	Price Each	Extended Price
1	Z39AC11RMB E EZstrip Pump fitted with 7.5 kW / 10 HP Close Coupled Gearbox and Motor	EZSTRIP_PACKAGE for PC Pump listed in Section 432357	EA	15	1	$18,068.00	$18,068.00
2	Estimated Freight						$ 700.00
3	Each Field Service Day is for (8) hours, or part thereof, including travel time, for jobsite service consisting of installation inspection, field testing observation, start-up, and/or Owner personnel training. Please allow 10 days' notice to schedule field services.						$ 1,600.00 /day
	Total in USD (Excluding Applicable Taxes)						**$20,368.00**

Customer Name	**: CARL ERIC JOHNSON INC-EMAIL ONLY**	**Quote Number**	**: QUO-171156-V8M7S5**
Customer Ref.	**:**	**Quote Date**	**: 12 December 2024**

Application Data

Pumped Product	: 5% DS	SG	: 1.0
		Product Temperature	: 20.0 deg C
Capacity	: 200.0 US GPM	Viscosity	: 264.0 cP
Suction Pressure	: 0.0 ft H2O	pH	: 7.0
Discharge Pressure	: 50.0 ft H2O	Solid Percentage	: 0.0
Differential Pressure	: 50.0 ft H2O	Solid Size	: 0.0 mm (Hard) : 0.0 mm (Soft)

Actual Performance Data

Capacity	Speed	Frequency		
190.57 US GPM	271.0 rpm	60 Hz	NPSHr	: 2.31 m
			Absorbed Power	: 6.23 kW / 8.35 HP

Variation of above information may affect pump duty point, drive power / rpm or selected pump materials.

Pump Construction Details

Product Line	: EZstrip	Max Solid Handling	: 18 MM (Hard) / 56 MM (Soft)
Pump Model	: Z39AC11RMB E	Rotation	: Suction On Gland
No. Stage	: 1	Suc. Chamber Handing	: Vertical
Rotor Mark	: Mark 1	Pump Option	: No Options Required
Drive Mech	: Connecting Rod	Inlet Port	: 8 IN ANSI
Joint Type	: Pin Joint	Outlet Port	: 8 IN ANSI
Drive Coupling	: Close Coupled Gearbox and Motor	Paint Finish	: Standard Two-Pack Epoxy Paint- RAL 5005 Blue

Sealing

Shaft Size	: 85 mm (3.35 IN)
Sealing Type (Materials)	: Mechanical Seal (SIC/SIC/Vit)

Materials

Casing Parts	: Cast Iron
Stator	: Nitrile
Rotating Parts	: Code 1 - Alloy Steel HCP

Drive Specification

Installed Power	: 10 HP	Insulation Class	: F
Starting Method	: DOL 3 PH	Enclosure	: TEFC
Gearbox Mfg.	: NORD	Efficiency Class	: Premium Efficient
Model	: SK42FVL	Duty	: Severe Duty
Frame Size	: IEC N/A - NEMA 210TC	IP Rating	: IP55
Gearbox Speed (Ratio)	: 271.0 rpm (6.19 : 1)	Area Classification	: -
Gearbox Mounting	: B5	Explosion Rating (Gbox)	: -
Motor Mfg.	: WEG	Explosion Rating (Motor)	: -
Motor Mounting	: B14	Terminal Box Orien.	:
Motor Speed	: 1750.0 rpm	Force Ventilation	: N
Orientation	:	Thermostats	: -
Electricity Supply	: 208/230/460V / 3 PH - 60 Hz	Thermistors	: N
		Anti-Condensation	: N
		Tropical Protection	: -
		Drip Cover	: -

Baseplate		Traceability Requirements	
Baseplate Type (Material)	: Close Coupled Base - Mild Steel	Traceability	: Not Required

Accessories	
Dry Run Protection	: Probe & 110V Control Unit
Suc. Protection Device	: Suction Ashcroft Pressure Assembly: GaugeSwitch and Iso-Ring; Vacum-15 PSI; Carbon Steel Casing (Assembly Matches Pump Flange Size)
Dis. Protection Device	: Ashcroft Pressure Assembly: GaugeSwitch and Iso-Ring; 0-100 PSI; Carbon Steel Casing (Assembly Matches Pump Flange Size)
Other Accessories	: Spool Pieces - None

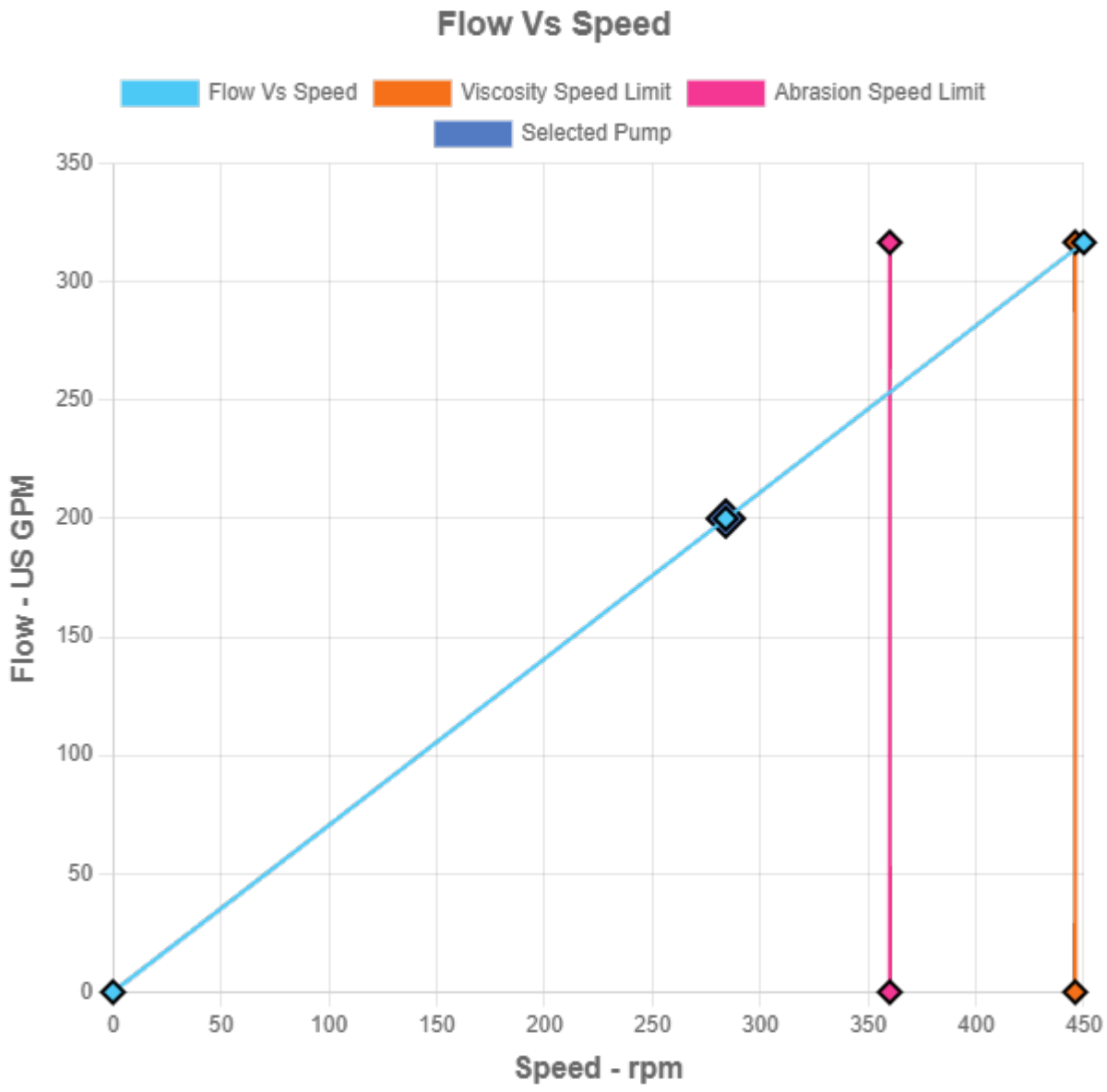
Non-Standard Options	
Non-standard Options	: Stator Drilled For Dry Run Protection

Testing & Certificates	
Testing	: Standard Hydrostatic Test

Documentation	
Documents	: Standard Submittal Package

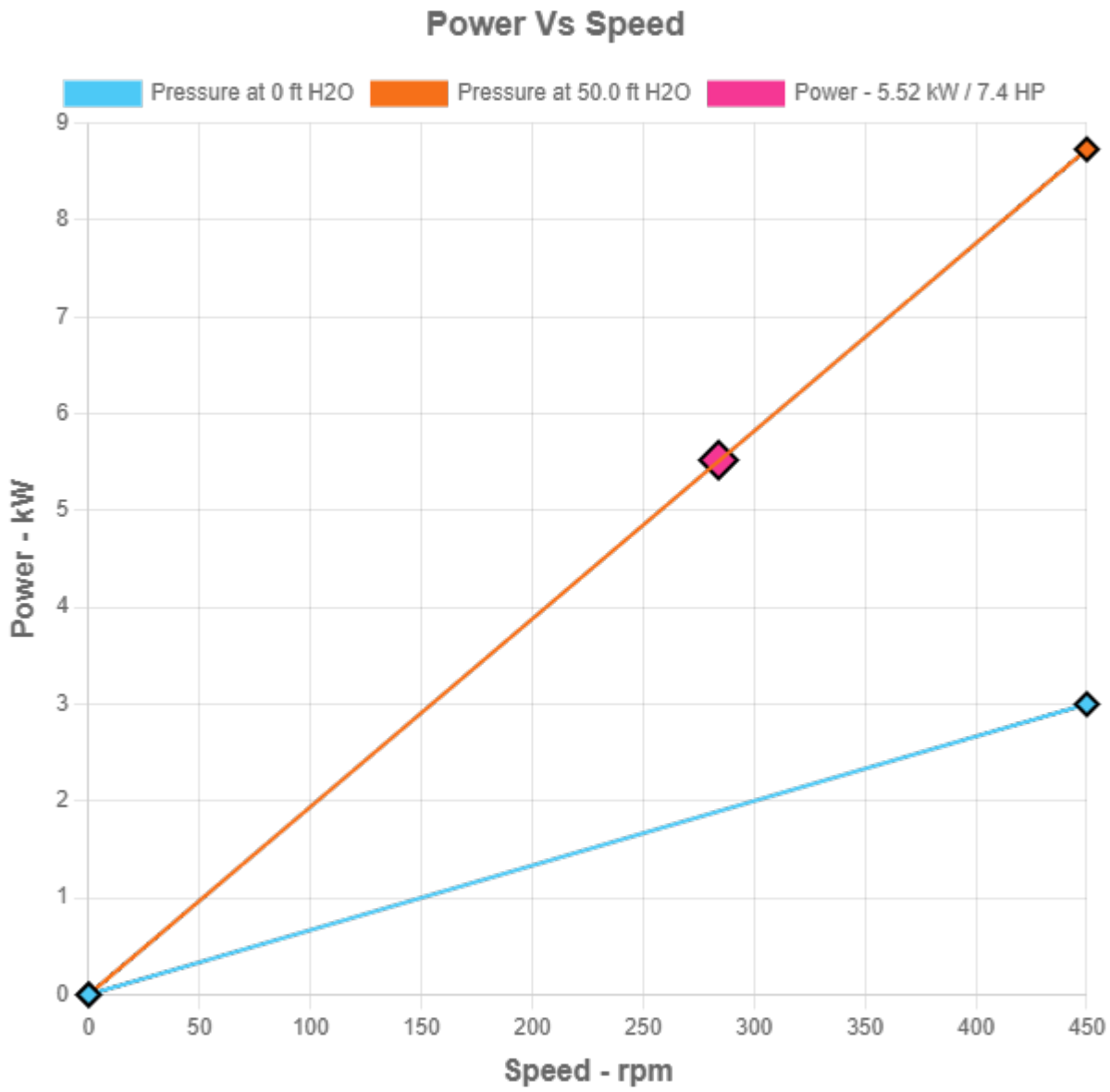
Pump Model : Z39AC11RMB E (Line Number : 1.0)

Inputs		
Pumped Product : 5% DS Product Temperature : 20.0 deg C	Capacity : 200.0 US GPM Differential Pressure : 50.0 ft H2O	Solids Percentage : 0.0 Viscosity : 264.0 cP
Results		
Speed : 271.0 rpm Actual Capacity : 190.57 US GPM	Start Torque : 480.83 Nm / 354.64 ft-lb Running Torque : 185.36 Nm	NPSHr : 2.31 m Absorbed Power : 6.23 kW / 8.35 HP



E MoynoRFQ@nov.com
https://www.nov.com/fms

NATIONAL OILWELL VARCO, L.P.
8017 Breen Road
Houston 77064,
USA ABN 77 004 449 478



E MoynoRFQ@nov.com
https://www.nov.com/fms

NATIONAL OILWELL VARCO, L.P.
8017 Breen Road
Houston 77064,
USA ABN 77 004 449 478

EZstrip™ Transfer Pump

The patented split coupling provides a quick and easy way to disassemble and maintain a progressing cavity pump in place.

Typical Applications

- Domestic and industrial effluent
- Hydrated lime slurry
- Sludge
- Shear sensitive latex emulsion
- Milk curds, sauces, fruit juices
- Industrial chemicals and detergents
- Starch slurries
- Coating clays, gypsum and silicate
- Paper stocks
- Agricultural slurries
- Saltwater Disposal Truck Offloading

Capacity

- Up to 225 m^3/hr (*991 US gpm*)

Pressure

- Up to 12 bar (*174 psi*)

Temperature

- -10° C to 100° C (*14°F up to 212°F*)

Features and Benefits

Maintain-in-Place
Quickly and safely remove the full drive train including rotor, stator, shaft, rod, and seal in minutes without physical electrical disconnection.

EZstrip Access covers– provide 360° access to coupling rod and drive shaft for easy inspection.

The smooth profile Positive Torque Split Coupling Rod alleviates potential ragging issues, and reduces maintenance and assembly times.

Tie-bar-free design. EZstator clamps lock the stator securely into place. This further reduces stator removal time by over 50% and improves the safety of common maintenance operations.

Captive support foot. The fixed support foot and stator clamp assembly further aids rotor and stator removal.

Materials of Construction
Available in cast iron or stainless steel with a choice of rotor and stator materials to suit individual applications.

No Special Tools Required
Pump requires only a wrench and an allen key to maintain.

No De-Rating Required
Operational parameters unaffected since design has no effect on flow and pressure.

Eliminate Dismantling Lengths
Suction and discharge ports remain connected to the pipe work. Easily upgrade from any model PC pump, or retrofit an existing EZstrip™ pump model.

Interchangeability
Compatible with new pumps or retrofitted into existing Compact C and B-Range installations.

Drive Train Assembly
Pre-assembled drive trains available to support faster reassembly times.

46 33 42 Diaphragm-Type Pumps

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price
1	Sodium Hypochlorite Metering Pumps & Control Panels as specified (P-7610-8, P-7610-9, P-7610-10, P-7610-11)	4	EA	$ $115,000	$ $460,000
2	Control Panels as specified (CP-7610-8, CP-7610-9, CP-7610-10, CP-7610-11)	4	EA	$ included in above complete skid price	
3	Supplier Bond for 100% of the value of the Purchase Order	1	LS	$	$ 500
				Sub-Total:	$ $460,500
				Freight:	$ $5,000
				TBD (sales tax unless exempt) Taxes:	$
				Total Value:	$ 465,500
				Hold Bid for 60 Days Beyond Bid Date	$
				Hold Bid for 90 Days Beyond Bid Date	$
				Hold Bid for 120 Days Beyond Bid Date	$
				Extended Warranty Thru July 1, 2028	$ included

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.
- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:
- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Textura Construction Payment Management program.

	YES	NO	N/A	If No, provide the cost to include this requirement
A. The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has	XX			$

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions. xx

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: January 2027
- After Receipt of Order (ARO) drawings will be submitted for approval by: 10 Weeks

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by: TBD
- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: January 2027

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination $ $5000
typical shipping terms are FOB Factory

7. WARRANTY

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

		YES	NO	If No, provide the cost to include this requirement
A.	Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028	xx		$

8. DOCUMENTATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes (6) copies of all operation and maintenance manuals.	xx			$
B.	Confirm your pricing includes (6) copies of all submittals.	xx			$

9. EQUIPMENT / MATERIAL INFORMATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.		xx	xx	$ by installer
B.	Confirm your pricing includes all shop finish painting / coating as applicable.	xx			$
C.	Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.	xx			$
	*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.				
D.	Confirm your pricing includes all special tools as applicable.	xx			$
E.	Confirm your pricing includes all factory testing per the specifications as applicable.	xx			$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

F. Confirm your pricing includes all oil, grease, and lubricants as applicable. — xx — $
G. Confirm your pricing includes space heaters for motors as applicable. — xx — $ motor specification not provided at this time.

H. Equipment Manufacturer(s): Pulsafeeder, Inc, Rochester, NY

10. FIELD SERVICES

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.		xx		$ 6000
Number of trips				
Number of total days on-site				
B. Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable		xx		$ 6000
Number of trips				
Number of total days on-site				

this is negotiable based on final requirements and along with gear pump section.

11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.	xx - to extent possible. Pulsafeeder engages in global sourcing of componentry, but pumps and skids are assembled in our USA facility.			$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C Confirm your pricing includes compliance with FAC 255.0993			xx	$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)	xx			$
B. Confirm you have provided the Surety Prequalification Letter.		xx		

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value
NONE			

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	xx - only in the case of p.o. award	

If you DO NOT AGREE, state reasons for not being able to comply.

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

B. Confirm your company is registered at SAMS.gov.

	YES	NO
B.		XX

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

OTHER ITEMS

Section	Description	Date
	N/A	

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 42 Diaphragm-Type Metering Pump

1. SIGNATURE

By: Valerie A Sutton
(Signature of person authorized to sign)

Printed Name: Valerie Sutton
Title: Regional Sales Manager
Company Name: Pulsafeeder, Inc.
Address: 2883 Brighton Henrietta TL Rd
Rochester NY 14623

Phone: 585-292-8000
Email: vsutton@Idexcorp.com

2883 Brighton Henrietta TL Rd.
Rochester, NY 14623
585-292-8000
www.pulsafeeder.com

27101 Airport Rd
Punta Gorda, FL 33982
800-333-6677

Date: 12/17/2024

Quote #: SQIO004023-2 diaphragm pump skids

To: CDM Smith
Attention: Mahendra Balkaran
CC: Don Demoy, Arroyo Process Equipment

Subject: Tampa Bay Water, Surface Water Treatment Plant
60% design budget
Section 46 33 42 Diaphragm-Type Metering pumps

Pulsafeeder is pleased to provide the following quotation for simplex metering pump skidded systems as described herein:

Scope of Supply:

- Four (4) Fully Integrated Simplex Feed and Control Skids with individual single suction and single discharge outlet. System will dose 12.5% Sodium Hypochlorite Acid at a rate of 310 GPH@150 PSIG. The piping, fittings and accessories will be 1.5" solvent welded schedule 80 PVC with Viton Elastomers. Each skid package includes a shipped loose local control panel with VFD speed controller for remote mounting on the containment area wall. Field wiring shall be supplied by others.
    - Note 1: All ball valves will be vented
    - Note 2: Components in contact with chemicals will be certified according to NSF 61 and NSF 372.

All Mechanical and Electrical Engineering

- Mechanical Design and Layout-Solid Works Parametric Modelling Software
- Electrical Design and Layout of On-Board Local Control Panel
- Drawing Package – Mechanical and Electrical General Arrangements, Mechanical P&IDs and Wiring Schematics.
- Submission of Standard Approval Package including key component cutsheets

All Electrical and Mechanical Labor

- Frame Assembly
- Pipe and Component Mounting
- Accessory Installation and Set Point Calibrations
- NSF Documentation Bundle
- Free Supply Management
- Functional and Hydrostatic Testing
- Completion of Mechanical / Electrical Inspections and Quality Control Checklists
- Factory Acceptance Testing and Documentation
- Tag Installation (Tag Spec and Identifications Supplied by Others)
- Three Mechanical and Electrical Submittal Revisions and Drawing Modifications.
- As Built P&IDs and General Arrangements
- Photographic / QC Video Record for Archive
- Packaging for Domestic Ground Shipment

1.0 Simplex Feed and Control Skid with Pulsafeeder Pump Model part number: 7660-S-E (QTY.4)

The following scope defines the components comprising this system. The piping, fittings and accessories will be 1.5" Solvent and provided in be Schedule 80 PVC with Viton Elastomers. Each skid includes an on-board local control panel with VFD speed controller. All ball valves will be vented. Specific commercial terms are defined in section 2.0.

1.1 Skid Base and Frame

- One (1) FRP I-beam with PVC top deck 72"x 60" with local FRP Control Panel mounting frame
- One (1) Pump Riser
- One (1) 20" FRP bracket
- Seven (7) 6" FRP brackets
- One (1) Lot Hastelloy C mounting hardware and PVC pipe clamps
- One (1) Skid Mounted FRP Terminal Enclosure to accommodate field wiring of remote-control panel.

1.2 Metering Pumps and Motors – Supplied by Pulsafeeder (QTY. 4)

- One (1) 7660-S-E in PVC with Teflon diaphragm 2”/150# flanges.
- Pump complete with a Degas valve to mitigate gas binding.
- Flow 315 GPH @ 150psi
- VFD Speed Control: 4-20ma input/output signal
- Motor: 5HP, Inverter Duty Motor, 230/460V, 3PH, 184TC, TENV (Baldor #IDNM3665T)

1.3 Pump Suction Assembly – One (1) Lot 1.5” PVC Pipe and Fittings

- One (1) 1.5” TU PVC Viton Ball Valve – Inlet
- One (1) 10,000 ML PVC Graduated Calibration Cylinder
- One (1) 1.5” TU PVC Viton Ball Valve - Calibration Cylinder Isolation
- One (1) 1.5" TU PVC Viton Ball Valve Bleed / Drain
- One (1) Lot 1.5” PVC Pipe and fittings

1.4 Pump Discharge Assembly – One (1) Lot 1.5” PVC Pipe and Fittings

- One (1) PVC Pressure Relief Valve (Piped to Pump Suction)
- One (1) 160ci PVC / Viton Pulsation Dampener
- One (1) 1.5" TU PVC Ball Valve – Bleed / Drain
- One (1) Ashcroft 1279 pressure gauge with PVC Guard and Pressure Switch (0-160 PSI)
- One (1) 1.5" TU PVC Ball Valve – Pressure Gauge Isolation
- One (1) 1.5" PVC Back Pressure Valve
- One (1) 1.5" TU PVC Viton Ball Valve – Outlet

1.5 Local Control Panel – 480Vac 3 phase Supply Power (Shipped Loose for off skid mounting. Note: Exceptions Taken: Light Fixture and Power Receptacle. All work is performed in accordance with UL 508A.)

- One (1) Nema 4x FRP Enclosure (Elected to use FRP as permitted in Section 406717 – Industrial Enclosures)
- One (1) Three Phase Disconnect
- One (1) Voltage Vision Three Phase Power Indicator
- One (1) ABB 480vac In / Out 5HP Variable Speed Drive
- One (1) Lot LED Indicator Lights: Full size, 30 mm, oiltight, LED type with push to test function
- One (1) Lot Lens and Panel Operators- 30MM AB Components- Heavy duty, full size, 30 mm, oiltight, NEMA A600 contact rating.
- One (1) Control Transformer
- Three (3) Pilot Lights (Alarm- Amber) (Pump Running- Red) (Degas Power-Blue)
- One (1) Reset Push Button
- One (1) Three Position Switch (Pump Run On Red / Off Green)
- One (1) Start / Stop Push Button
- One (1) Hypo Degas power circuit for pump (White)
- One (1) Set Circuit Breakers / Timer and Socket
- One (1) Set Relays - 3 Pole Double Throw
- One (1) Set Relays - 2 Pole Double Throw
- One (1) Fusing Holder and Fuse
- One (1) Lot Wire Way and Cover
- One (1) Lot Terminal Blocks
- One (1) Lot Wire Cables, Labels etc.
- One (1) Lot individual engraved faceplates indicating functionality.

2.0 Pricing: Based on 60% Spec

Section	Qty	Description	Price Each	Total
1.0	4	Fully Integrated Simplex Feed and Control Skids with individual single suction and single discharge outlet. System will dose 12.5% Sodium Hypochlorite at a rate of 310 GPH@150 PSIG. The piping, fittings and accessories will be 1.5" solvent welded schedule 80 PVC with Viton Elastomers. Each skid package includes a shipped loose local control panel with VFD speed controller for remote mounting on the containment area wall. Field wiring shall be supplied by others. Note 1: All ball valves will be vented Note 2: Components in contact with chemicals will be certified according to NSF 61 and NSF 372. Note 3: Spare Parts for all four units included Note 4: Extended Warranty Included Note 5: Guaranteed Maximum Price Firm until 1/1/27	$ 115,000	$ 460,000

2.1 Deliverables: FOB Roselle IL

- Drawings for Approval: Ten (10) weeks following the Receipt of Order
- Shipment: 10-12 weeks after Approval of Drawings and Receipt of Free Supplied Items
- Pricing based on 60% Design. Built in escalation to account for delivery date.
- Note: Projected Delivery to the jobsite: January 2027.
- Extended Warranty Period: Five years from date of Substantial Completion. 2027-2031 (See warranty description Section 8.0.

2.2 Milestone Payment Schedule (Net 30 days after invoicing)

- 20% Submittal
- 20% Approval / Release to Fabrication
- 55% Upon Completion
- 5% Final Documentation

- Any items not shown in the above detail under the Scope of Supply, defining sections or other attachments to this proposal, are excluded.
- Uncrating, installation, inter-skid wiring and start-up is by others
- Field wiring from skid/system to components not mounted within the boundaries of the skid are by others.
- This quotation is prepared independent of any pre-existing project specifications and is not offered, partly or wholly compliant with any such documents and/or requirements.
- Pricing excludes any applicable taxes or transportation/delivery costs.
- This offer does not include any agreement to liquidated damages.
- The following components are not included in this proposal pricing:
    - Interconnecting piping from tanks to skids and from skids to point of injection
    - Interconnecting wiring to/from skids and remote terminations
    - Any storage tank or container not specifically noted within the scope of supply
    - Installation manpower and/or tools
    - Injection quills or spray nozzles
- Allowances for seismic force and lateral force calculations are not included in this offering. Special structural & design criteria calculations (seismic, wind, snow, ice, etc.) are not included in our estimate. The provided systems are compact with low center of gravity and are of proven design arrangements.
- Materials of construction are as delineated within each skid scope section.
- Noise testing is not included with this offering. The only noise emitting components of the offered systems are motors and metering pumps. All pumps and motors are small and provide operating db well below industry threshold limits.
- Installation: All systems will be fabricated, and factory configured to minimize the need for field start-up requirements. Installation services are not included with this offer. If required, field start-up services will be offered at an additional cost in a separate quote.
- All equipment and services provided by EquipSolutions and manufacturers will be suitable per application with attention to the principals, but not the verbatim details in all cases, of the industrial codes referenced in any Purchaser specifications or RFQ (i.e. NEMA, ASTM, UL, CSA, CE, etc.).
- EquipSolutions is a certified UL electrical panel shop, however EquipSolution's discretion on other such issues shall be per EquipSolution's experience with similar applications and projects and will be in accordance with EquipSolution's standards for quality and function.
- All equipment components, including but not limited to mechanical structure and hardware; plumbing pipe, tubing, fittings, and instruments; flow, pressure, level, and temperature sensors; tanks, pumps, and motors; and VFDs, SCRs, controllers, PLCs, displays, electrical parts; etc., used in the system design and construction will be of EquipSolutions vendors with a history of reliability in similar applications and projects. In general, EquipSolutions utilizes industry standard and brand name instruments, pumps, motors, electrical components, etc., but reserves the right to use other equivalents, unless such manufacturers or models are specifically stated in the EquipSolutions quote, proposal, or RFQ response.
- All wetted components will be chosen by EquipSolutions to be compatible with the specific chemicals named for the process if known and communicated to EquipSolutions, unless requested differently in Purchaser specifications or RFQ. This includes tanks, skid bases, plumbing, instruments, pumps, etc. Special attention will be paid to gaskets, seats, and seals. This effort will provide the highest quality system for this specific application and limit any need for unexpected maintenance and safety issues.
- Customer to confirm material of compatibility with specified products.

3.0 Terms and Conditions: See Milestone Payment Schedule.

- Net 30 days after shipment
- Shipment of goods will be FOB Origin, unless otherwise expressly agreed to in writing.
- The risk of loss or damage to the goods will pass from skid supplier to the Purchase Order issuer upon departure from the skid supplier facility.
- Skid supplier will not be liable for any loss, damage, or delay arising from late delivery.
- Skid Supplier will not pay any costs for delivery and insurance associated with delivery unless specified in writing.
- Skid Supplier is not responsible for filing and pursuing claims with carriers for delay, loss, or damage in transit.
- Skid Supplier will provide assistance as may be necessary to pursue claim on carriers so long as the Buyer has notified EquipSolutions and the carriers in writing immediately after loss or damage is discovered on receipt of goods and lodges a claim for compensation on the carrier within seven (7) days of the date of receipt of the goods.

4.0 Commercial Offer

- This offering is based on the parameters as specified in the Scope of Supply in this proposal. Any significant changes to prevailing market conditions or other unforeseeable circumstances such as social disruptions or tariff implications may result in the need to adjust components, design, pricing and delivery.
- We have attempted to capture appropriate escalation to prices to accommodate the maximum price request budget through 2027.
- Pre-Release: To maintain pricing through a protracted delivery schedule, owner pre-release for ordering of components that are of known market pricing escalation may be required. Cut sheets for such components will be submitted for review prior to ordering.
- Storage Charges: Storage is available if required after the defined systems are constructed and ready for shipment. Storage charges for the defined skids will be billed at a negotiated monthly rate following the first 30 days of storage.

5.0 Confidentiality

- The scope designs and recommendations presented in this proposal are the work product of Pulsafeeder, Inc. and are provided solely with the understanding and Customer agreement that the information contained in this document is submitted for evaluation by Customer only. Customer agrees not to reveal its contents except to those in Customer's organization necessary for evaluation. Copies of this document may not be made without the prior written consent of Pulsafeeder. If the preceding is not acceptable to the Customer, this document shall be returned to Pulsafeeder.

6.0 Clarifications

- Quoted systems are not intended for use in hazardous area classifications.
- Design modifications beyond the scope presented above will require a new quotation.
- Uncrating, installation, inter-skid wiring and start-up is by others.
- Field wiring from skid/system to components not mounted within the boundaries of the skid are by others.
- Any items not shown in the above detail under the Scope of Supply, defining sections or other attachments to this proposal, are excluded.
- This quotation is prepared based on the 60% Design specifications. Any deviation to this design voids pricing commitment defined within. Price and scope revision will be required once further design is achieved.
- Pricing excludes any applicable taxes.
- This offer does not include any agreement to liquidated damages.
- The following components are not included in this proposal pricing:
  - Interconnecting piping from tanks to skids and from skids to point of injection.
  - Interconnecting wiring to/from skids and remote terminations or wall mounted panels
  - Any storage tank or container not specifically noted within the scope of supply.
  - Installation manpower and/or tools

- Allowances for seismic force and lateral force calculations are not included in this offering.
- Special structural & design criteria calculations (seismic, wind, snow, ice, etc.) are not included in our estimate.
- The provided systems are compact with low center of gravity and are of proven design arrangements.
- All system piping is quoted as outlined in the system scope sections and on the provided P&I's.
- Materials of construction are as delineated within each skid scope section.
- Noise testing is not included with this offering. The only noise emitting components of the offered systems are motors and metering pumps. All pumps and motors are small and provide operating db well below industry threshold limits.
- Installation: All systems will be fabricated, and factory configured to minimize the need for field start-up requirements.
- All equipment and services provided by skid supplier and manufacturers will be suitable per application with attention to the principals, but not the verbatim details in all cases, of the industrial codes referenced in any Purchaser specifications or RFQ (i.e. NEMA, ASTM, UL, CSA, CE, etc.). Skid supplier is a certified UL electrical panel shop, however skid supplier's discretion on other such issues shall be per skid supplier's experience with similar applications and projects and will be in accordance with EquipSolution's standards for quality and function.
- All equipment components, including but not limited to mechanical structure and hardware; plumbing pipe, tubing, fittings, and instruments; flow, pressure, level, and temperature sensors; tanks, pumps, and motors; and VFDs, SCRs, controllers, PLCs, displays, electrical parts; etc., used in the system design and construction will be of skid supplier's vendors with a history of reliability in similar applications and projects.
- All wetted components will be chosen by manufacturer to be compatible with the specific chemicals named for the process, if known and communicated to manufacturer, unless requested differently in Purchaser specifications or RFQ. This includes tanks, skid bases, plumbing, instruments, pumps, etc. Special attention will be paid to gaskets, seats, and seals. This effort will provide the highest quality system for this specific application and limit any need for unexpected maintenance and safety issues.
- Customer to confirm material of compatibility with specified products.

7.0 Validity:

- This quotation, pricing and delivery schedule is valid for 120 days from date of proposal.

8.0 Warranty:

- Skid supplier warrants integrated chemical metering and control systems of its fabrication and bearing its identification to be free from defects in workmanship and material for a period of Two-years (twenty-four months) from date of delivery from the factory under normal use and service.
- In coordination with Pulsafeeder, Skid supplier's liability under this warranty shall be limited to replacement or repair, F.O.B. Roselle, Illinois of any defective equipment or part which, having been returned to skid supplier, transportation charges prepaid, has been inspected and determined by skid supplier to be defective. Consumable components are expendable and are not covered by any warranty. Individual components integral to the system such as controllers, pumps, valves, fittings, gauges etc. will carry the manufacturer's published warranty.
- This warranty shall be deemed void if installation, commissioning, operation and maintenance procedures are not strictly adhered to.

9.0 Other Terms and Conditions per Pulsafeeder's standard terms and conditions document attached

Thank you for the opportunity to bid this project. Should any questions or concerns arise, please do not hestitate to contact us.

Best Regards,
Valerie Sutton - Regional Sales Manager
Pulsafeeder, Inc.
2883 Brighton Henrietta TL Rd.
Rochester, NY 14623
vsutton@idexcorp.com

TERMS & CONDITIONS

1. AGREEMENT – The contract of sale resulting from Seller's documentation together with these terms and conditions ("Contract") constitutes the entire agreement between the parties hereto, except as modified in writing signed by both the Seller and Purchaser. The Seller is Pulsafeeder, Inc. and the Purchaser is identified in the Contract. Any terms in a purchase order, irrespective of their materiality, which are either different from or additional to Seller's conditions of sale, are objected to and are excluded unless the Seller expressly agrees in writing to such terms. Execution of such forms by Seller to accommodate Purchaser's procurement or accounting procedures or to evidence agreed upon change orders shall not be construed as assent to Purchaser's terms. Acceptance of the goods shipped shall constitute assent to Seller's conditions of sale. This Contract shall be binding upon Purchaser and Seller, and on their successors and assigns.
2. PROPOSAL OR QUOTATION – A proposal shall not become binding upon Seller until it has been executed and returned by Purchaser. An oral quotation shall not be considered an offer: only a written confirmation thereof incorporating Seller's terms and conditions shall constitute an offer.
3. CREDIT – Credit terms of payment must have the approval of Seller's Credit Department and must be specified in writing on Seller's invoice or in the Contract. If Purchaser's credit is found by Seller to be unsatisfactory, Seller may rescind or terminate this Contract. If at any time during the term of this Contract Purchaser's financial responsibility becomes impaired or unsatisfactory to Seller, Seller reserves the right to stop shipment on notification to Purchaser, project owner and surely with a demand for payment in advance or at time of delivery for future deliveries or to require other security satisfactory to Seller and in the absence thereof, to cancel the unfilled portion of the Contract. Seller will notify Purchaser promptly of its decision to stop shipments and give an advance notice to the extent this is possible. In the absence of credit terms, sales are for cash.
4. PAYMENT – Specific terms of payment for this order shall be identified and appended hereto. Purchaser agrees to make payment at Seller's location specified in this Contract in lawful money of the United States. Purchaser further agrees to make all payments when due to Seller in accordance with the agreed terms of payment in this Contract without reference to Purchasers agreement with or payments by the owner and with no right of retention.
5. INTEREST AND COSTS – Purchaser agrees to pay interest at 1.5% per month (to the extent permitted by law) on all delinquent balances if and when assessed by Seller, and any attorney's fees or court costs arising out of and made necessary in collection of its obligation to Seller created by this Contract.
7. TAXES – Any federal, state or local tax assessment, fee, duty or charge hereafter imposed on or measured by the products purchased hereunder shall be for Purchaser's account unless Purchaser furnishes Seller an acceptable exemption certificate from such tax, fee, duty, or charge prior to shipment.
8. FORCE MAJEURE – Seller shall make delivery in accordance with the terms of this Contract or within a reasonable time in the absence of any commitment, but Seller shall not be liable for delays or defaults in delivery caused by floods, fires storms, or other acts of God, by war or act of public enemy (or civil disturbance),strikes, lockouts, shortages of labor or raw materials and supplies (including fuel) or production facilities, transportation service or equipment shortages or failures, action of any governmental authority or other conditions beyond Seller's reasonable control.
9. CANCELLATION – If Purchaser desires to cancel or change any portion of this Contract, he must make such request in writing to Seller. Seller may, in its sole discretion, accept or reject any such request. If accepted, the Purchaser nonetheless must take delivery and make payment to Seller for all material manufactured and in process of manufacture at time of notice, and all special materials ordered at time of notice and for which Seller must take delivery, unless otherwise agreed by Seller in writing. All such materials must be removed from Seller's premises within 30 days after payment and payment will be due at time of notice. Seller also reserves the right to make a cancellation charge in the event of cancellation by the Purchaser of an order placed in Seller's shipping schedule and acknowledged by Seller.
10. INSPECTION AND TESTING – Seller's standard specifications and tests apply to all order. All charges for inspection or tests not regularly furnished are for Purchaser's account and subject to prior negotiation. All inspections hall be conducted at Seller's plant, and failure of Purchaser to avail himself of inspection privileges shall be deemed a waiver of such privileges.

11. INSPECTION/SHIPPING DELAYS – Notwithstanding anything to the contrary in a purchase order, quotation, order acknowledgment or any other form or document exchanged by Purchaser and Pulsafeeder:
    a. If Purchaser does not conduct the Product inspections at Seller's plant within two (2) weeks of Pulsafeeder providing notice to Purchaser that the Products are ready and available for inspection, the inspection rights are waived, the Products are deemed approved and Purchaser may ship the Products and invoice Purchaser for any outstanding amounts due. In addition, if shipment is delayed as a result of Purchaser's failure to conduct the inspection within such two (2) week period, Pulsafeeder shall be entitled to retain or recover from Purchaser, and Purchaser shall pay to Pulsafeeder, a storage and handling fee equal to 0.2% per day of the purchase order value for each day the shipment is delayed, with a maximum storage and handling fee of 10.0% of the purchase order value.
    b. Unless shipping instructions are provided in the Purchase Order, Purchaser shall provide shipping instructions to Pulsafeeder within two (2) weeks of Pulsafeeder providing notice to Purchaser that the Products are ready and available for inspection. If Purchaser fails to provide shipping instructions in the Purchase Order or within such two (2) week period, upon the expiration of such two (2) week period, Pulsafeeder may invoice Purchaser for such Products, the Products shall be deemed purchased on such date and all risk of loss and damage shall pass to Purchaser. In addition, Pulsafeeder shall be entitled to retain or recover from Purchaser, and Purchaser shall pay to Pulsafeeder, a storage and handling fee equal to 0.2% per day of the purchase order value for each day the shipment is delayed, with a maximum storage and handling fee of 10.0% of the purchase order value.
12. CHANGES – Notwithstanding anything to the contrary in a purchase order, quotation, order acknowledgment or any other form or document exchanged by Purchaser and Pulsafeeder:
    a. Once a purchase order has been released to manufacturing, no changes or reductions may be made without the written consent and approval of Pulsafeeder.
    b. Any request by Purchaser to change or reduce a purchase order must be made in writing.
    c. Upon receipt of a change request, Pulsafeeder shall advise Purchaser of any cost, charges, fees (including third party vendor cancellation fees incurred by Pulsafeeder) in connection with such change. Purchaser shall promptly pay such charges.
13. PRICES – Prices are subject to being adjusted due to extraordinary market conditions. As used herein, "extraordinary market conditions" means any increase in the cost of materials caused by changes in the market or for any other reason that is outside of Seller's control such as tariffs, surcharges, increased logistics costs and fluctuations in currency and raw materials, which results in a price increase of the Product price set forth in a contract, quote, purchase order or order acknowledgment. Prices are subject to change without notice. Orders based on published prices and accepted for scheduled shipment will be invoiced at Seller's applicable price in effect on the scheduled date of shipment, unless otherwise specifically noted on the order acknowledgment. All prices will be in accordance with applicable government regulations. Orders specifying palletizing or special packaging will involve special charges.
14. DELAYS – All orders are accepted subject to Seller's ability to make delivery at the. time and in the quantities specified, and Seller shall not be liable for damages for failure to make partial or complete shipment or for any delay in making shipments. Purchaser shall be liable for any added expenses incurred by Seller because of Purchaser's delay in furnishing requested information to Seller, delay resulting from order changes by Purchaser, or delay in unloading shipments at delivery point.
15. SHIPMENT – Seller will select method of shipment and routing when transportation charges are for account Seller. When shipping instructions are specified by the Purchaser, all costs will be for the account of the Purchaser. The foregoing includes, but is not limited to, carrier charges for notification prior to delivery, demurrage, delay in unloading, diversion, or reconsignment.
16. TITLE – Title to products transfers upon delivery to Purchaser at FCA Pulsafeeder, Rochester, New York. On receipt of title, Purchaser is then responsible for proper protection of product, placement, compliance with all regulations and ordinances, and will indemnify Seller against all claims for personal injuries or property damage arising from the storage, use or handling of such products.
17. IN TRANSIT CLAIMS – Claims for damage or shortage in transit must be made against the carrier by the owner of the shipment according to the FCA terms of the Contract. Purchaser has the responsibility to inspect shipments before or during unloading to identify any such damage or shortage and see that appropriate notation is made on the delivery tickets or an inspection report furnished by the local agent of the carrier in order to support a claim.

18. CLAIMS – Notice of Claims against Seller hereunder for any reason, must be made to Seller in writing promptly after discovery and within any applicable warranty period. Failure to give such notice to Seller shall constitute a waiver by Purchaser of any right later to assert such a claim.
19. RETURNS – Returned goods shall be accepted for credit only if in salable condition and only with evidence of Seller's prior written consent. Seller will assess charges for freight both ways and any costs necessary to restore such goods to the regular plant inventory. The amount of credit given will depend further upon the degree of salability of products accepted in opinion of Seller.
20. WARRANTY – LIMITATION OF LIABILITY. Seller warrants title to each individual product sold under this Contract and further warrants for a period of one (1) year from date of shipment, but only to the extent and limit of the purchase price paid for such individual product, that such product conforms to the specifications set forth in the Contract and is free from defects in material and workmanship under normal service and use for which it was designed. Seller's sole obligation and Purchaser's exclusive remedy under this warranty shall be limited to one of the following, as selected by Seller: delivering to Purchaser a replacement for any product or part thereof determined by Seller to be defective, repairing such product or part or refunding the purchase price (or an equitable portion thereof) paid for such product or part by Purchaser. SELLER MAKES NO WARRANTY OF FITNESS OR MERCHANTABILITY, AND NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OPERATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED SHALL EXIST IN CONNECTION WITH SELLER'S PRODUCTS OR ANY SALE OR USE THEROF. Purchaser must notify Seller promptly and within the warranty period of any claim under this warranty. Seller's warranty extends only to the first purchaser of a product from Seller or Seller's authorized distributor. All goods not manufactured by Seller are warranted only to the extent of the warranties of the original manufacturer. Seller disclaims any liability arising from tort, including strict liability, and Seller further disclaims any liability (whether arising under this or any other provision of this Contract or otherwise) for any costs (including costs of removal or replacement), liabilities, lost profits, loss of good will or any other general, special, incidental or consequential damages incurred by Purchaser in connection with the Contract or any product purchased there under.
21. LAW – This order shall be governed by and shall be construed by the law of the State of New York.
22. GOVERNMENTAL REGULATIONS – Seller warrants that no code, law regulation or ordinance of the United States, a state or any other governmental authority or agency or any applicable Executive Order has been violated in the manufacture or sale of the items covered by this Agreement and warrants that the equipment, supplies, and/or articles covered thereby conform with all such requirements.
23. NUCLEAR FINANCIAL PROTECTION – Purchaser agrees to procure and maintain, as available to it, nuclear energy liability insurance, in a form of policy approved by the Nuclear Regulatory Commission, and protection, as available, against liability for nuclear incidents not covered by such insurance through an indemnity agreement, as provided in Section 170 of the Atomic Energy Act of 1954, as amended, or any succeeding comparable statutory provision, and the regulations there under. Such financial protection shall be effective prior to the time any equipment purchased from us is used or installed at or in connection with any nuclear facility and shall cover us as an insured party. To the extent that such financial protection is not suitable to Purchaser. Purchaser agrees to use its best efforts to cause such financial protection to be obtained by eligible parties. We will cooperate with Purchaser and representatives of the nuclear energy insurance syndicates in complying with the underwriting requirements and with those insurance recommendations which may be mutually agreed upon. Notwithstanding any representations or warranties made by us elsewhere in these conditions of sale, we shall not be responsible for any bodily injury or property damage liability or another public liability for any nuclear incidents, whether or not in respect of or arising in connection with use or installation of our equipment at any nuclear facility or in connection with any such facility. Purchaser hereby assumes any liability which otherwise be imposed upon us and agrees to indemnify us and hold harmless from any such liability and costs or expenses in connection therewith.

46 33 44 Peristaltic Pumps

46 33 50 Spur Gear Metering Pumps

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price
1	Sulfuric Acid Metering Pumps (P-7210-9, P-7210-10) as specified.	2	EA	$	$ N/A
2	Sulfuric Acid Metering Pump Control Panels (CP-7210-9, CP-7210-10) as specified.	2	EA	$	$ N/A
3	Sodium Hydroxide Metering Pumps (P-7910-9) as specified.	1	EA	$ 10,637.00	$ 10,637.00
4	Coagulation Aid Pumps (P-7040-13, P-7040-14, P-7040-15) as specified including equipment shown in vendor supply box on P&ID.	3	EA	$ 9,581.00	$ 28,743.00
5	Coagulation Aid Pump Control Panels (CP-7040-13, CP-7040-14, CP-7040-15) as specified.	3	EA	$ 3,527.00	$ 10,581.00
6	Filter Aid Pumps (P-8040-7, P-8040-8) as specified including equipment shown in vendor supply box on P&ID.	2	EA	$ 3,488.00	$ 6,976.00
7	Filter Aid Pump Control Panels (CP-8040-7, CP-8040-8) as specified.	2	EA	$ 3,036.00	$ 6,072.00
8	Polymer Transfer Pumps (P-7050-1, P-7050-2) as specified.	2	EA	$ 9,581.00	$ 19,162.00
9	Polymer Transfer Pump Control Panels (CP-7050-1, CP-7050-2) as specified.	2	EA	$ 3,527.00	$ 7,054.00
10	Dewatering Polymer Pumps (P-8140-14, P-8140-15) as specified including equipment shown in vendor supply box on P&ID.	2	EA	$ 9,581.00	$ 19,162.00
11	Dewatering Polymer Pump Control Panels (CP-8140-14, CP-8140-15) as specified.	2	EA	$ 3,527.00	$ 7,054.00
12	Supplier Bond for 100% of the value of the Purchase Order.	1	LS	$	$ budgitary
				Sub-Total:	$ 115,441.00
				Freight:	$ 2,200.00
				Taxes:	$ 8,658.08
				Total Value:	$
				Hold Bid for 60 Days Beyond Bid Date	$ 126,299.08

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

Hold Bid for 90 Days Beyond Bid Date	$
Hold Bid for 120 Days Beyond Bid Date	$
Extended Warranty Thru July 1, 2028	$

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.
- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.
- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Textura Construction Payment Management program.

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.		x		$

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: January 2027
- After Receipt of Order (ARO) drawings will be submitted for approval by: 10 Weeks

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by: TBD
- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: January 2027

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination $ 2,200.00 (budgetary)

7. WARRANTY

		YES	NO	If No, provide the cost to include this requirement
A.	Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028			$ budgetary

8. DOCUMENTATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes (6) copies of all operation and maintenance manuals.		x		$ budgetary
B.	Confirm your pricing includes (6) copies of all submittals.		x		$ budgetary

9. EQUIPMENT / MATERIAL INFORMATION

	YES	NO	N/A	If No, provide the cost to include this requirement

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

A.	Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.		x		$ budgetary
B.	Confirm your pricing includes all shop finish painting / coating as applicable.		x		$ budgetary
C.	Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.		x		$ budgetary
	*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.				
D.	Confirm your pricing includes all special tools as applicable.		x		$ budgetary
E.	Confirm your pricing includes all factory testing per the specifications as applicable.		x		$ budgetary
F.	Confirm your pricing includes all oil, grease, and lubricants as applicable.		x		$ budgetary
G.	Confirm your pricing includes space heaters for motors as applicable.		x		$ budgetary
H.	Equipment Manufacturer(s)	Liquiflo			

10. FIELD SERVICES

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.		x		$ 1,600.00
	Number of trips				
	Number of total days on-site				
B.	Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable			x	$
	Number of trips				
	Number of total days on-site				

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

11. DOMESTIC PREFERENCE

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.		x		$ budgetary
B.	Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C	Confirm your pricing includes compliance with FAC 255.0993		x		$ budgetary

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)		x		$ budgetary
B.	Confirm you have provided the Surety Prequalification Letter.				

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	x	

If you DO NOT AGREE, state reasons for not being able to comply.

_____

_____

_____

_____

_____

_____

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

	YES	NO
B. Confirm your company is registered at SAMS.gov.		x

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

OTHER ITEMS

Section	Description	Date
	N/A	

1. SIGNATURE

By: Wil Haynes
(Signature of person authorized to sign)

Printed Name: Wil Haynes
Title: Project Coordinator
Company Name: Carl Eric Johnson
Address: 1725-Q MacLeod Drive
Lawrenceville, GA 30043

Phone: 678-421-8279
Email: whaynes@cejco.com

Date: December 12, 2024

Quote No. Section 463348 Budgetary Quote

Project: TBW Project No. CIP 01014
Tampa Bay Water / Veolia Regional Surface WTP Expansion
Tampa, Florida

To: Mahendra Balkaran
CDM Smith
Office: 804.377.2283
balkaranmk@cdmsmith.com

Item	Pump Tag No.	Service	Description	Qty	Unit Price	Total Price
1	P-7910-9	Sodium Hydroxide	PUMP MODEL CODE: H12RL1PEEU020067 MOTOR PART NUMBER: WM-00712ET3E254TC-W22 Painted Carbon Steel Baseplate	1	$ 10,637.00	$ 10,637.00
2	P-7040-13, P-7040-14, and P-7040-15	Coagulation Aid Polymer	PUMP MODEL CODE: H12FL6PEEU020065-9T MOTOR PART NUMBER: WM-00712ET3E254TC-W22 Painted Carbon Steel Baseplate	3	$ 9,581.00	$ 28,743.00
3	P-8040-7 and P-8040-8	Filter Aid Polymer	PUMP MODEL CODE: H5RS68EEU020000-9T MOTOR PART NUMBER: WM-00712ET3E254TC-W22 Painted Carbon Steel Baseplate	2	$ 3,488.00	$ 6,976.00
4	P-7050-1 and P-7050-2	Cationic Polymer	PUMP MODEL CODE: H12FL6PEEU020065-9T MOTOR PART NUMBER: WM-00712ET3E254TC-W22 Painted Carbon Steel Baseplate	2	$ 9,581.00	$ 19,162.00
5	P-8140-14 and P-8140-15	Dewatering Polymer	PUMP MODEL CODE: H12FL6PEEU020065-9T MOTOR PART NUMBER: WM-00712ET3E254TC-W22 Painted Carbon Steel Baseplate	2	$ 9,581.00	$ 19,162.00

We appreciate your interest in the LiquiFlo Pump, the opportunity of providing BUDGETARY pricing and look forward to working with you on this project.

We request the opportunity of reviewing completed preliminary specifications. This additional step could save time and expense associated with issuing addenda at bid time.
If you have any additional questions, or require any additional information, please let us know. We appreciate your consideration of our proposal and look forward to the opportunity to work with you further on this project.

Sincerely,
Jobi Mathew

HOME OFFICE:
1725-Q MacLeod Drive
Lawrenceville, GA 30043
Phone: 678-377-3100
Cell: 678-371-1973
Website: www.cejco.com

Local CEJCO Sales Engineer
Clifford M. Allen
Office: (800) 737-2235
Mobile: (813) 952-4423
callen@cejco.com

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price
1	Sulfuric Acid Metering Pumps (P-7210-9, P-7210-10) as specified.	2	EA	$ 133,000	$ 266,000
2	Sulfuric Acid Metering Pump Control Panels (CP-7210-9, CP-7210-10) as specified.	2	EA	$ included in above skid price	$
3	Sodium Hydroxide Metering Pumps (P-7910-9) as specified.	1	EA	$ no bid - Pulsafeeder not specified as acceptable for this service.	$
4	Coagulation Aid Pumps (P-7040-13, P-7040-14, P-7040-15) as specified including equipment shown in vendor supply box on P&ID.	3	EA	$ 98,000	$ 294,000
5	Coagulation Aid Pump Control Panels (CP-7040-13, CP-7040-14, CP-7040-15) as specified.	3	EA	$ included in above skid price	$
6	Filter Aid Pumps (P-8040-7, P-8040-8) as specified including equipment shown in vendor supply box on P&ID.	2	EA	$ 78,000	$ 156,000
7	Filter Aid Pump Control Panels (CP-8040-7, CP-8040-8) as specified.	2	EA	$ included in above skid price	$
8	Polymer Transfer Pumps (P-7050-1, P-7050-2) as specified.	2	EA	$ 85,000	$ 170,000
9	Polymer Transfer Pump Control Panels (CP-7050-1, CP-7050-2) as specified.	2	EA	$ included in above skid price	$
10	Dewatering Polymer Pumps (P-8140-14, P-8140-15) as specified including equipment shown in vendor supply box on P&ID.	2	EA	$ 98,000	$ 196,000
11	Dewatering Polymer Pump Control Panels (CP-8140-14, CP-8140-15) as specified.	2	EA	$ included in above skid price	$
12	Supplier Bond for 100% of the value of the Purchase Order.	1	LS	$	$ 1500
				Sub-Total:	$ 1,083,500
				Freight:	$ 5,000
				Taxes: TBD local sales tax unless exempt	$
				Total Value:	$ 1,088,500
				Hold Bid for 60 Days Beyond Bid Date	$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

Hold Bid for 90 Days Beyond Bid Date	$
Hold Bid for 120 Days Beyond Bid Date	$
Extended Warranty Thru July 1, 2028	$ included

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.
- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.
- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Textura Construction Payment Management program.

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.	xx			$

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: January 2027
- After Receipt of Order (ARO) drawings will be submitted for approval by: 10 Weeks

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by: TBD
- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: January 2027

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination $ 5000

7. WARRANTY

		YES	NO	If No, provide the cost to include this requirement
A.	Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028	xx		$

8. DOCUMENTATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes (6) copies of all operation and maintenance manuals.	xx			$
B.	Confirm your pricing includes (6) copies of all submittals.	xx			$

9. EQUIPMENT / MATERIAL INFORMATION

	YES	NO	N/A	If No, provide the cost to include this requirement

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

A. Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.		xx	xx	$ by installer
B. Confirm your pricing includes all shop finish painting / coating as applicable.	xx			$
C. Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.	xx			$
*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.				
D. Confirm your pricing includes all special tools as applicable.	xx			$
E. Confirm your pricing includes all factory testing per the specifications as applicable.	xx			$
F. Confirm your pricing includes all oil, grease, and lubricants as applicable.			xx	$
G. Confirm your pricing includes space heaters for motors as applicable.			xx	$ motor specification not provided at this time.

H. Equipment Manufacturer(s) Pulsafeeder, Inc. Rochester, NY

10. FIELD SERVICES

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.		xx		$ 6000
Number of trips				
Number of total days on-site				
B. Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable		xx		this is negotiable based on final requirements and along with diaphragm gear pump section $ 6000
Number of trips				
Number of total days on-site				

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

11. DOMESTIC PREFERENCE

	YES	NO	N/A	If No, provide the cost to include this requirement
A. Confirm your pricing includes compliance with the Buy America, Buy American and/or American Iron and Steel Act as required.	xx - to extent possible. Pulsafeeder engages in global sourcing componentry, but pumps and skids are assembled in our USA facility			$
B. Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C Confirm your pricing includes compliance with FAC 255.0993			xx	$

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

	YES	NO	N/A	If No, provide the cost to include this requirement
A. For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)	xx			$
B. Confirm you have provided the Surety Prequalification Letter.		xx		

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value
NONE			

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	xx - only in case of p.o. award	

If you DO NOT AGREE, state reasons for not being able to comply.

_____

_____

_____

_____

_____

_____

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

B. Confirm your company is registered at SAMS.gov.

	YES	NO
B.		xx

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Package # / Title: 46 33 50 Spur Gear Metering Pumps

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

OTHER ITEMS

Section	Description	Date
	N/A	

1. SIGNATURE

By: Valerie A Sutton
(Signature of person authorized to sign)

Printed Name: Valerie Sutton
Title: Regional Sales Manager
Company Name: Pulsafeeder, Inc.
Address: 2883 Brighton Henrietta TL Rd
Rochester, NY 14623
Phone: 585-292-8000
Email: vsutton@idexcorp.com

46 41 26 Vertical Shaft Mixers

REQUEST FOR QUOTATION

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: September 3rd 2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

BID FORM

1. REQUIRED TO BE INCLUDED WITH YOUR QUOTATION

The following documents are to be included in or returned as part of your quotation. Incomplete bid packages may be considered non-responsive and disregarded by CDM Constructors Inc. and/or the Client.

a. THIS completed and signed Bid Form.
b. Detailed Technical quotation
c. Completed and signed Supplier/Subcontractor Representations and Certifications Document (Refer to Exhibit H) Not provided for us to review. We will review alongside order placement.
d. Completed and signed Non-Collusion Affidavit (Refer to Exhibit H) Not provided for us to review. We will review alongside order placement.
e. Current Certificate of Insurance evidencing coverage, endorsements and limits are required herein (as applicable). Will be provided after order placement.
f. Equipment / Material Pricing form completed and signed.
g. Proposed schedule, provided on the Equipment / Material Pricing form.
h. Supplier Bond in the amount of 100% of the Purchase Order value shall be provided by the Seller at time of award.
i. Surety Prequalification Letter Will be provided after order placement.
j. Dun and Bradstreet number and rating. Financial statements if your D&B ratings is less 3A2.
k. Confirmation of SAMS.gov registration We are registered.
l. Confirmation to **American Iron and Steel** provisions. Confirmed.

2. PURCHASE ORDER ACCEPTANCE

a. BIDDER agrees that the Purchase Order will be governed by and completed as set forth by all requirements, terms and conditions, and documents attached and/or referenced by this Request for Quotation.

	Agree	Do Not Agree
I have reviewed the entirety of this Request for Quotation (including Terms and Conditions) and have no objections to the contents within.		X

If you DO NOT AGREE, state specific exceptions, clarifications and assumptions (including Terms and Conditions).

Please see proposed 'One-Page Terms Deviations' regarding terms and conditions, and Quote 315692239 for technical clarifications and exceptions.

REQUEST FOR QUOTATION

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: September 3rd 2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

Please note that exceptions to the Terms and Conditions may render your quotation non-responsive.

3. ADDENDA

The Bidder has received, reviewed and incorporated the following Addenda into the quoted scope and cost.

Addenda No.:	R1	Date:	10/06/2024
Addenda No.:		Date:	
Addenda No.:		Date:	
Addenda No.:		Date:	

4. CONFIRMATION OF PRICING

Bidder confirms they will supply/perform the scope of work in accordance with all requirements of this Request for Quotation and in accordance with the price as defined in the Equipment / Material Price form.
Bidder also confirms the pricing stated herein is "Firm" and NOT subject to price escalation.

5. CONFIRMATION OF SCHEDULE

Bidder confirms they will supply/perform the scope of work in accordance with all requirements of this Request for Quotation and in accordance with the schedule as defined in the Equipment / Material Price form.

6. SUB-TIER SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE (Yes / No)	% based on Total PO value
n/a			

7. USE OF TEXTURA

REQUEST FOR QUOTATION

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: September 3rd 2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

Bidder confirms they have read, understands and agrees that all invoicing shall be completed through the use of the Textura Construction Payment Management program. Bidder has included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.

8. BIDDER CONTACT INFORMATION

Communications with Bidder concerning this quotation shall be addressed to:

Wade Wood - Manufacturer's Rep
321.299.2395
wwood@mts-florida.com

9. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

	Agree	Do Not Agree
I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher.	X	

If you DO NOT AGREE, state reasons for not being able to comply.

10. REQUIREMENTS AND EXECUTIVE ORDERS

The Bidder executes this quotation as and confirming the following:

a. Consider federal, state and local laws, ordinances, and any other rules and regulations that may in any manner affect the Bidder's response, including but not limited to: Executive Orders 11625, 11246, as amended, 12138 and 12432.

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

1. EQUIPMENT AND MATERIAL

The Seller shall provide the following equipment / material inclusive of any and all ancillary components to meet the requirements as stated in the attached and/or referenced specifications, drawings, and Order documents.

Bid Item	Description	Qty	UM	Unit Price	Total Price
1	Vertical Shaft Mixers MX-3410-1, MX-3410-2, MX-3440-1, MX-3440-2	1	LS	$	$ 326,881
2	Warranty	1	LS	$	$ 2,405
3	Supplier Bond for 100% of the value of the Purchase Order	1	LS	$	$ 19,490
				Sub-Total:	$ 348,776
				Freight:	$ 6,420
				Taxes:	$ 22,229
				Total Value:	$ 377,425
				Hold Bid for 60 Days Beyond Bid Date	$ 0
				Hold Bid for 90 Days Beyond Bid Date	$ 0
				Hold Bid for 120 Days Beyond Bid Date	$ 7,548
				Extended Warranty Thru July 1, 2028	$ 2,972

2. SHIP TO LOCATION

CDM Constructors Inc.
2301 Regional Water Lane
Tampa, FL 33619
Attention: Steve Solters
PH: 321.436.5625
Email: solterssm@cdmsmith.com

3. SCOPE OF WORK CLARIFICATIONS

- The Goods supplied herein shall be a complete system and shall include all associated materials, instruments, parts, equipment, subsystems, and manufacturer's services for installation, testing, start-up, commissioning, training, and warranties, all as further defined in this Purchase Order.

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

- Provide manufacturer services by a qualified representative, to complete required inspection, testing, training, commissioning and functional test reports for all equipment supplied with scope of work. At a minimum manufacturer shall certify the installation is correct prior to startup and be present when the equipment is utilized for the first time.
- The Goods supplied herein shall be furnished in accordance with final submittals and shop drawings developed, furnished, and approved under this Order. Where called for in the specs, provide all shop testing and vibration or structural analysis as required prior to shipping to the site.
- Submit Operation and Maintenance manuals for equipment furnished. Submit Testing, Training plans, and Service Reports for the equipment furnished and Startup/Commissioning plans for equipment furnished.
-

4. PAYMENT MILESTONES

The following payment milestones are being requested. Payment terms shall be in accordance with the Standard Purchase Order Terms and Conditions.

- Net 42 days from receipt of acceptable invoice and in accordance with the invoicing instructions in the Purchase Order Standard Terms and Conditions. The seller shall submit invoices in accordance with the following payment milestones:
- 20% of the Order value upon approved submittal shop drawings and product data.
- 70% of the Order value upon delivery of all components for a complete system.
- 10% of the Order value upon successful Manufacturers witnessed startup/commissioning including receipt of Manufacturers COPI Form and completion of Performance Testing, Owner Training, spare parts and tools.

Payment terms to be mutually negotiated and agreed upon between both parties at time of order.

Textura Construction Payment Management program.

	YES	NO	N/A	If No, provide the cost to include this requirement
A. The Seller confirms they have read, understands and agrees that all invoicing shall be completed using the Textura Construction Payment Management program. Seller has	X			$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

included all necessary costs and fees associated with the use of the Textura program as stipulated in Exhibit H - Invoicing Instructions.

5. PROJECT SCHEDULE REQUIREMENTS

The project schedule requirements applicable to this package are as follows and/or attached herein. The Equipment / Material shall be delivered on or before the below listed Required on Site Date.

- Required on Site Date: May 29th, 2026
- After Receipt of Order (ARO) drawings will be submitted for approval by: February 14th, 2025

Submittals will be issued 6 weeks after order acceptance.

Seller shall submit the following approval drawings and submittals in accordance with all requirements specified herein by no later than the dates shown above.

- After Receipt of Approved Drawings (ARAD) Seller shall fabricate and ship all components of the complete system by:

Shipment will be 18 weeks after approval and release to manufacture.

- All components of the complete system shall deliver to the Jobsite (FCA Destination) by: May 29th, 2026

All deliveries shall be coordinated with CCI site supervisor. 4 weeks' notice required for items requiring critical/heavy lifting and 1 week notice is required prior to all other deliveries.
Deliveries shall be grouped into as few shipments as possible

6. FREIGHT

Provide a firm freight rate FCA Destination: $ 6,420

7. WARRANTY

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

		YES	NO	If No, provide the cost to include this requirement
A.	Confirm your proposal includes, as noted in the Standard Terms and Conditions, section 10 - Warranties, the warranty period for this order shall be one (1) year from delivery or the beneficial use of the goods, whichever is later, not to exceed twenty four (24) months from shipment.	X		$
	Confirm your proposal includes pricing to supply an extended warranty thru July 1, 2028	X		$

8. DOCUMENTATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes (6) copies of all operation and maintenance manuals.	X			$
B.	Confirm your pricing includes (6) copies of all submittals.	X			$

9. EQUIPMENT / MATERIAL INFORMATION

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes all embeds, anchor bolts, and fasteners as applicable.		X		$
B.	Confirm your pricing includes all shop finish painting / coating as applicable.	X			$
C.	Confirm your pricing includes all spare parts per the specifications and shipped in a separate container as applicable.	X			$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

*- If spare parts listed as manufacturer's recommended, attach a list of proposed spare parts.

D.	Confirm your pricing includes all special tools as applicable.			X	$
E.	Confirm your pricing includes all factory testing per the specifications as applicable.	X			$
F.	Confirm your pricing includes all oil, grease, and lubricants as applicable.		X		$
G.	Confirm your pricing includes space heaters for motors as applicable.		X		$
H.	Equipment Manufacturer(s)	SPX Flow			

10. FIELD SERVICES

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes all installation checkout, start-up assistance and operator training as applicable.	X			$
	Number of trips				
	Number of total days on-site				
B.	Confirm your pricing includes all field services, field testing, performance / acceptance demonstrations per the specifications as applicable	X			$
	Number of trips				4 trips for 4 total days on-site
	Number of total days on-site				

11. DOMESTIC PREFERENCE

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	Confirm your pricing includes compliance with the Buy America, Buy	X			$

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

	American and/or American Iron and Steel Act as required.	X			
B.	Confirm you have or will provide certifications, as required, demonstrating compliance to these requirements.				
C	Confirm your pricing includes compliance with FAC 255.0993	X			$

12. WAGE DETERMINATION-NA

13. SUPPLIER BOND

		YES	NO	N/A	If No, provide the cost to include this requirement
A.	For Orders greater than $100,000, confirm your pricing includes providing a Supplier Bond as required by CDM Smith. (Refer to Exhibit J)	X			$
B.	Confirm you have provided the Surety Prequalification Letter.		No sample form was included. We are able to provide however if template is provided to us.		

14. SUB-TIER SUPPLIERS / SUBCONTRACTORS

Bidder intends to utilize the following sub-suppliers. If none, please state None.

Proposed Sub-supplier	Work to be performed	MWBE	% based on Total
n/a			

15. EQUAL BUSINESS OPPORTUNITY PROGRAM-N/A

16. VIRTUAL DESIGN AND CONSTRUCTION (VDC)

Agree **Do Not Agree**

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

I will comply with CCI's VDC requirements to supply shop drawings including in 2D and 3D suitable for inclusion into the overall 3D design model to ensure coordination with the overall design. Shop drawings shall be LOD 400 or higher. [X]

If you DO NOT AGREE, state reasons for not being able to comply.

_____
_____
_____
_____
_____
_____

17. RESPONSIBILITY DETERMINATION (DEBARRED, INELIGIBLE, SUSPENDED)

A. By signing below, the Seller certifies that the company and/or any of its Principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

B. Confirm your company is registered at SAMS.gov.

	YES	NO
B.	[X]	

18. PLANS AND SPECIFICATIONS

PROJECT SPECIFICATIONS

Section	Description	Date
	Located in SmartBid	
	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

PROJECT DRAWINGS

Section	Description	Date
	Located in SmartBid	

EQUIPMENT / MATERIAL PRICE

Project: Surface Water Treatment Plant Expansion CIP-01014
Owner: Tampa Bay Water
Client: Veolia North America
Date: 08.30.2024
Package # / Title: 46 41 24 Vertical Shaft Mixers & Flocculators

	Surface Water Treatment Plant Components of the Tampa Bay Regional Water Treatment Plant	August 2024

OTHER ITEMS

Section	Description	Date
	N/A	

1. SIGNATURE

By: _____
(Signature of person authorized to sign)

Printed Name: Austin Bashline
Title: Environmental Business Development Manager - Americas
Company Name: SPX FLOW US, LLC
Address: 135 Mt Read Blvd
Rochester, NY 14611

Phone: 717-679-7161
Email: austin.bashline@spxflow.com

b. Study and carefully correlate the Bidder's observations and responses with the RFP Documents.

c. Notify CDM Constructors Inc., of all conflicts, errors and discrepancies, if any, in the RFP document submitted. Bidder by and through the submission of their Quotation, agree that they shall be held responsible for having therefore familiarized themselves with the nature and extent of the requirements in the RFP Documents.

d. The following are incorporated by reference:
The requirements of Executive Order 11246, as amended, and the applicable regulations contained in 41 C.F.R. Parts 60-1 through 60-60; 29 U.S.C. Section 793 and the applicable regulations contained in 41 C.F.R. Part 60-741; 38 U.S.C. Section 4212 and the applicable regulations contained in 41 C.F.R. Part 60-250 and/or 60-300; and 29 C.F.R. Part 471 Appendix A to Subpart A.

11. SIGNATURE

By: _____
(Signature of person authorized to sign)
Printed Name: _____
Title: _____
Company Name: _____
Address: _____
_____
_____
Phone: _____
Email: _____

SPXFLOW

Lightnin
Plenty
Philadelphia

Attention:
CDM Smith

Date: 10/17/2024

Project Name: Tampa Bay Water Surface Water Plant Expansion – Section 46 41 24

Quote Number: 315692239

Proposal Summary

Primary Solution

Item	Size/Description/Scope of Supply	Lead Time (Business Days)*	Price	Qty.	Sub Total
1	Lightnin Mixer Model 74QP7.5 **Tag:** Pre-Ozone (MX-3410-1/2)	90	$72,546	2	$145,093
2	Lightnin Mixer Model 74QP5 **Tag:** Post-Ozone (MX-3440-1/2)	90	$64,950	2	$129,899
3	Lightnin 69.0" A510E **Tag:** Pre-Ozone Spare Set of Impeller Blades	25	$16,600	1	$25,539
4	Lightnin 64.0" A510E **Tag:** Post-Ozone Spare Set of Impeller Blades	25	$12,823	1	$12,823
5	834164PSP: 74/84 MIXER FIXER KIT	20	$2,132	1	$2,132
6	FIELD SERVICE: 4 trips for 4 total days on-site	20	$20,333	1	$20,333
7	Extended Warranty - 12 months from Startup NTE 24 months from shipment	n/a	$2,405	1	$2,405
9	Tax - State (6%) & Local Tax ($50) - Materials Only	n/a	$22,229	1	$22,229
10	Supply Bond (through 02/25/2026)	n/a	$19,490	1	$19,490
				Sub Total	$371,005
				Freight and Handling	$6,420
				Total (US Dollars)	$377,425

Optional Price Adders

Item	Size/Description/Scope of Supply	Lead Time (Business Days)*	Price	Qty.	Sub Total
11	Extended Warranty Adder Until July 1, 2028 (based on delivery 02/25/2026)	n/a	$2,972.00	1	$2,972.00
12	Add Space Heaters to all Motors	n/a	$3,645.00	1	$3,645.00
13	Initial Fill of Gearbox Oil - 289208PSP: 5 GAL SPX GEAR REDUCER SYNTHETIC OIL ISO 320	35	$971.57	8	$7,772.56

Note: Minimum value of an order must be $200. Add additional items or the difference will be added.

***Lead time is dependent on when order and/or approvals are accepted (as applicable).**

Commercial Terms / Terms of Delivery

Note: In the absence of any specifications, we reserve the right to review any additional requirements and amend our offer accordingly

Commercial Terms
Unless otherwise expressly agreed to in writing by SPX FLOW, this quote and any resulting order shall be governed solely and exclusively by the SPX FLOW Standard Terms and Conditions of Sale attached hereto (and also available at 'http://www.spxflow.com/terms-conditions'). SPX FLOW hereby expressly rejects the applicability of any and all terms and conditions of Buyer.

Approval Drawing Lead Time:	6 Weeks
Completed Order Shipment in (ARO/ADA):	18 Weeks After Drawing Approval
Delivery Terms*:	FOB Destination
Freight Terms:	Freight Allowed
Terms of Payment:	Milestone Payment Terms
Quote Expiration Date:	11/16/2024

Estimated lead times quoted are based on current production capacity, are subject to stock materials remaining unsold and will be calculated from receipt of clear and actionable order (approval time -if any - is excluded)

Tariffs

The quoted price has been based on the cost of materials and components (**"Materials"**) at the date of this proposal. If, due to the imposition of any tariffs (regardless of the country imposing said tariffs), the cost to SPX FLOW of performing its obligations under any Order arising from this proposal increases between the date of this proposal and the date of Order, the quoted price shall be increased.

Such increase shall be determined by SPX FLOW taking into account the applicable tariff imposed on Material(s) as at the date of the Order.

Supply Chain and Operational Disruptions

Due to prevailing market conditions, it is difficult for SPX FLOW and its sub-suppliers to ascertain cost and delivery time with certainty. As such, all prices and dates for execution/delivery are quoted by SPX FLOW based on the costs and availability of materials and labor at the date of quotation. If the actual cost to SPX FLOW of executing the order increases by more than 5% between the date of the quotation and the date of completion of the order, such increase shall be added to the price of the order. SPX FLOW may also demonstrate such increase by applying a price index chosen by SPX FLOW in good faith and applied to all or part of the price. Further, SPX FLOW shall not be responsible for any delays beyond its reasonable control due to a shortage/lack of availability of materials (including increased lead times by its sub-suppliers), staff shortages or transportation disruptions.

Supplemental Terms and Conditions

The following terms and conditions supplement SPX FLOW's Standard Terms and Conditions of Sale (2 Nov. 2017) for all orders for Lightnin, Philadelphia, Plenty, Stelzer, and Uutechnic branded products. To the extent there is any conflict between the following terms and SPX FLOW's Standard Terms and Conditions of Sale, the following terms shall govern.

- All orders over one hundred thousand dollars ($100,000 USD) or the local currency equivalent shall be subject to the following milestone invoicing terms:
  (1) twenty percent (20%) at the time of order acceptance;
  (2) forty percent (40%) upon the later of:
  (a) sixty (60) business days after order acceptance; or
  (b) for orders having approval drawings, ten (10) business days after acceptance of approval drawings; and
  (3) forty percent (40%) upon shipment.
- After order acceptance, any change to the scope of a quotation or to the design of a product or part thereof may be subject to a change order. The change order will be quoted to the Buyer within ten (10) business days of receipt of the change request.
- Acceptance of approval drawings, if applicable, shall occur within twenty (20) business days of drawing issuance or in accordance with the schedule set forth in SPX FLOW's order acceptance. If acceptance of approval drawings does not occur within the specified period, SPX FLOW may: (i) extend the shipment date by an amount of time determined in SPX FLOW's sole discretion; and/or (ii) requote the order.
- Any extension of the shipment schedule caused by the Buyer, including, but not limited to, failure to arrange transport or not providing a confirmed delivery location, will be subject to a storage charge to be determined in SPX FLOW's sole discretion and quoted to the Buyer at least ten (10) business days prior to taking effect.

Order Placement

Please Address Purchase Order To:

For Lightnin Mixers:
SPX Flow US, LLC
135 Mt Read Blvd
Rochester, NY 14611

For Philadelphia and Plenty Mixers:
Philadelphia Mixing Solutions, LLC
1221 East Main Street
Palmyra, PA, 17078

Thank You,
Matt Fiegl
Sr. Application Engineer

Clarifications/Exceptions

Document	Section No.	Comment/Exception
General	N/A	The following items are NOT included in our pricing or scope of supply: tanks, baffles, mixer support bridges or structures, sub-base plates, platforms, walkways; structural steam beam or channel supports; handrails; grating; lubricants; motor controls or starters; wiring; conduit or other electrical components; anchorage or hold down hardware; bridge or platform designs or recommendations; installation, state or local taxes; field or touch-up painting; and rubber field patch kits.
Section 46 41 24	1.2.B 1.3.A 1.4.B.3 2.9.A 2.10.A	Sections 055000.16, 460513, 460548, 013100, 011000, 400593.23, and 099010 were not provided to us and we take exception to their requirements. Motor requirements were based off of Section 230513 (for HVAC equipment).
	1.4.C.3	There were no process requirements provided in the specification other than specifying mechanical details of the mixer (impeller type, diameter, and mixer RPM). LTN will provide general mixer performance calculations for power draw, g-value, tip speed, and impeller primary pumping rate.
	1.4.C.4	Our standard IOM manual will be provided which will include parts bubble diagrams and list of the mixer.
	1.5.D	Our standard Outline Installation Drawing (OID) will be provided, which will not be to scale in order to best display the mixer and the corresponding dimensions and details.
	1.5.D.4	EXCEPTION. Mixer supports are not within our scope of supply, and are to be by others.
	1.5.E	LTN standard welding procedures, practices/standards, and quality/inspection will be followed.
	1.5.F	EXCEPTION – These requirements are vague and unclear on what is being requested. No tests will be done for this project, and there will no witnessing by a qualified testing agency. We can provide the following: • Propeller Rating: In accordance with the mixer performance calculations/data provided for 1.4.C.3, the impeller power number, flow number, and power draw will be provided. No tests will be done. • Motor Rating: Motor vendor's standard data package will be provided. • Motor & Cable Insulation test for defects: Exception to cable insulation tests as cables/wiring is not in our scope of supply, and is to be by others. Motor insulation will not be tested by LTN, and will undergo the motor vendor's standard quality/testing. Motors will undergo a no-load spin test along with the gearbox as per our standard testing. • Vibration & Rotation Tests: Vibration of the gearbox will be tested & recorded in the factory during our standard no-load spin test. Rotation direction will also be tested during this factory test, and will also be checked after installation in the field.
	1.6.B	Baffles are not included in our scope of supply, and are to be by others. LTN will provide general baffle details.
	1.6.C	We will provide calculations for power draw (no PE stamp), g-value (no PE stamp), bearing life (no PE stamp), and seismic anchorage calculations (with PE stamp). We will not provide calculations for thrust as the weight of the wetted parts exceeds the upward thrust from the impeller and mixer mounting loads will be provided. We will no provide calculations for blade configuration as these details (number of blades, off-bottom location, etc.) are specified within this section.
	1.6.D	Exception – supports and access walkways are not in our scope of supply and are to be by others.
	1.6.D.3	We will provide anchor/seismic calculations, and this will be the only calculation that is PE stamped.
	1.8.B	No special tools are required for maintenance – standard mechanics type tools will suffice. No tools are included in our scope of supply, and are to be by others.
	1.8.C.3	• Our scope for the spare impeller is just the impeller blades, plus the blade to hub hardware. The impeller hub is not included. • Shaft sleeves are not applicable to our mixer design and are not being provided.
	2.2.A 2.3.D 2.5.A 3.2.B	• Secondary baseplates for the top of the 12.5' x 12.5' basins are not included in our scope for either design nor supply, as this is not a typical item we supply or design. • Mixer mounting hardware and/or anchor bolts are not included in our scope of supply, and are to be by others.
	2.3.A 2.7.D	Mixers feature a standard 3-bladed 32° angled thin blade hydrofoil design, which is similar to the specified "SC3" impeller. This impeller type is not anti-ragging.
	2.6.3.d.2	Our scope of supply is a mixer gearbox design that meets the requirements of 2.6.3.d.1. We are not providing a "quill" gearbox. This type of gearbox can be quoted for a price and lead time adder upon request, although this is a relatively light mixing application and we do not recommend a quill.
	2.6.5.a	The mixer pedestal stand features a standard integral small baseplate that is suitable for mounting to either anchors in concrete, or to metal beams or sub-baseplates (by others).

Section 46 41 24	2.7.C.5	EXCEPTION – We are designing a mixer to meet the requirements of 2.7.C.1 (8,000 psi or less shaft nominal shear stress).
	2.10 & Section 099679	Mixers will be finish painted with Lightnin's standard shop coating process & quality control system, which is suitable for industrial and environmental applications, and consists of: Surface Preparation: SSPC SP-6 Primer: SW Green Kem-Flash Ultra Bond Epoxy Ester Primer (1.5-2 mils) 1st Coat: SW Green Fast Production High Solids Enamel (1.0-1.3 mils) 2nd Coat: SW Green Fast Production High Solids Enamel (1.0-1.3 mils) Color: LIGHTNIN Green Motor: Per Motor vendor's standard paint. Wetted Parts/Guards (S/S): Not Painted
	3.3.C	There are no water horsepower requirements specified within this mixer section. Mixers will be tested for power draw that does not exceed motor nameplate HP. We reserve the right to require additional specific power testing if poor power supply in the field is suspected to cause suspect power draw measurements.
	3.3.G.1	No full scale (dry or wet) testing of the mixers will be done in the factory – this is to be done in the field.
Bid Form	1.c	The 'Supplier/Sub-Contractor Representations and Certifications' document, nor exhibit H, was not provided to us and could not be reviewed or signed. We will be glad to review alongside a mutually acceptable purchase order being placed with us.
	1.d	The 'Non-Collusion Affidavit' document, nor exhibit H, was not provided to us and could not be reviewed or signed. We will be glad to review alongside a mutually acceptable purchase order being placed with us.
	1.e	Certificates of Insurance will be provided after successful order placement with us.
	1.i	A surety prequalification letter is not available to be provided with the bid, however we can provide one after successful order placement with us.
	1.j	A company/banking info sheet and W-9 is being provided. Other information may be able to be provided upon request after successful order placement with us.
	1.k	Our registration is currently inactive, though we will investigate what is required to re-activate it if necessary.
	2.a	We are providing our bid with SPX Flow's standard terms and conditions, or as otherwise mutually negotiated and agreed upon between both parties.
Bid Form - Pricing	3	Instruments are not included in our scope of supply.
	4	We are quoting per SPX Flow's standard payment terms, or as otherwise mutually negotiated and agreed upon between both parties.
	4.a	We do not know the cost of accessing this software, and it is not included in our scope of supply, however we are open to including this if we can know more.
	5	Drawings: We are quoting that we will be able to provide submittal drawings within 4-6 weeks after acceptance of a mutually approved purchase order. We can achieve this date for submittals providing that a final, negotiated and agreed upon purchase order is accepted by us 4-6 weeks before this date.
	9.A	Our scope of supply does not include embeds, anchor bolts, or mounting hardware – this is to be by others.
	9.D	No tools, special or otherwise, are included in our scope. No special tools are required.
	9.F	Our scope of supply does not include lubrication. An adder is provided for us to provide this.
	9.G	Our base scope of supply does not include motor space heaters as this is not specified in the mixer spec section, and the referenced motor spec section was not available/not provided. An adder is provided for us to provide this.
Section 01 33 00	1.7.G.7	LTN standard welding procedures, practices/standards, and quality/inspection will be followed.
Section 01 78 23	1.10.E.4	Disassembly/reassembly/repair instructions are not able to be provided for the gearbox or motor.
Section 017900	1.3.A.1 1.4.A 1.10	Supply, operation, etc. of video recording equipment is not included in our scope of supply, and is to be by others.
Section 055000	2.2.B 2.2.C	LTN standard hardware will be provided.

Primary Solutions

Process Summary Information 1, Lightnin Mixer Model 74QP7.5, Tag : Pre-Ozone (MX-3410-1/2)

Vessel Dimensions and Shape

Tank Type:	Rectangular	Nozzle/Beam Height:	6 in
Tank Dimensions (W X L):	150 X 150 in	Nozzle to Mounting Location:	0 in
Straight Side:	271.68 in	Overall Height:	277.68 in
Tank Top Shape:	Open	Tank Bottom Shape:	Flat

Baffles

Number of Baffles:	4	Baffle Width:	14.11 in
Off Wall:	4.7 in	Baffle Length:	271.68 in

Process Information

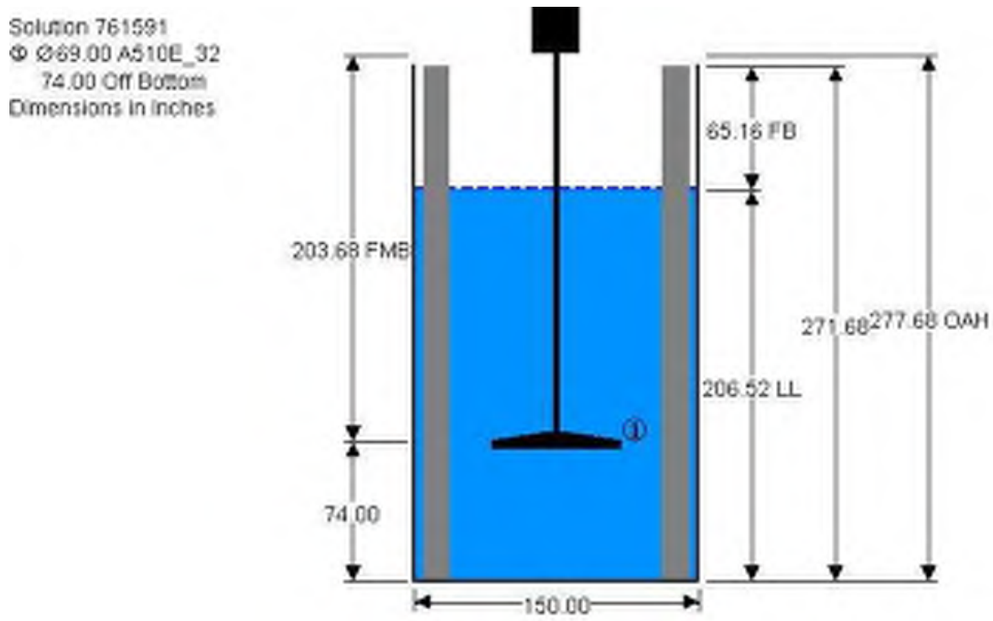
Market:	Water Wastewater Treatment	Application:	Equalization - No Solids - Wastewater Treat.
Operating Temperature:	68 °F	Design Liquid Level:	206.52 in
Operating Pressure:	0 lbs/in² (g)	Mixed Volume:	20,100 gal

Fluids

Design Process Viscosity:	1 cP	Design Specific Gravity:	1

Solids

Design Particle Size:	0 cP	Solids Specific Gravity:	0
Slurry SG:	1		



Product Details

Item	Size/Description/Scope of Supply	Lead Time (Business Days)*	Price	Qty.	Sub Total
1	Lightnin Mixer Model 74QP7.5 **Tag:** Pre-Ozone (MX-3410-1/2)	90	$96,728.55	2	$193,457.10

MOTOR/DRIVE SPECIFICATIONS	
Motor Power	7.5 HP
Special Motor	IEEE-841, with Temp Detectors
Motor Type	C-Face
Motor Specification	Level 4/RFQ to Lightnin
Motor Frame Type	NEMA
Number of Poles	6 Pole
Nominal Input Speed (RPM)	1200.0 RPM
Motor Frequency	60.0 Hz
Motor Voltage	460 V
Motor Manufacturer	Baldor
Motor Frame Size	254TC
Motor Duty	Severe Duty
Motor Efficiency	Premium Efficiency
Enclosure	TEFC
Service Factor	1.15
Furnished By	Lightnin
Mounted By	Lightnin
Motor Mounting	Motor Pedestal
High Speed Coupling	Sure-Flex
MACHINE/SEALING SPECIFICATIONS	
Gear Reduction Ratio	25.63
Gearbox Reduction	Double
Q Mounting Option	Pedestal
Pedestal Mount	Yes
Nominal Operating Speed (RPM)	45.0 RPM
Operating Speed	Constant
SHAFT SPECIFICATIONS	
Shaft Diameter	3.5 inches
Shaft Length (FMB)	203.68 inches
Wetted Parts Material	316ss
Shaft Rotation	Clockwise
IMPELLER SPECIFICATIONS	
Impeller Quantity	1.0
Impeller 1	Lower, 69.0 inches A510E with 32 degree Tip Chord Angle with Stabilizer
Impeller 1 Attachment	Welded to Shaft
OTHER DATA	
Area Classification	Safe Area
End User Language	English
CE Certified	No
Drawing(s)	partial list: L-17738, L-16270

Item	Size/Description/Scope of Supply	Lead Time (Business Days)*	Price	Qty.	Sub Total
1	Lightnin Mixer Model 74QP7.5 **Tag:** Pre-Ozone (MX-3410-1/2)	90	$96,728.55	2	$193,457.10

Process Summary Information 2, Lightnin Mixer Model 74QP5, Tag : Post-Ozone (MX-3440-1/2)

Vessel Dimensions and Shape

Tank Type:	Rectangular	Nozzle/Beam Height:	6 in
Tank Dimensions (W X L):	150 X 150 in	Nozzle to Mounting Location:	0 in
Straight Side:	264 in	Overall Height:	270 in
Tank Top Shape:	Open	Tank Bottom Shape:	Flat

Baffles

Number of Baffles:	4	Baffle Width:	14.11 in
Off Wall:	4.7 in	Baffle Length:	264 in

Process Information

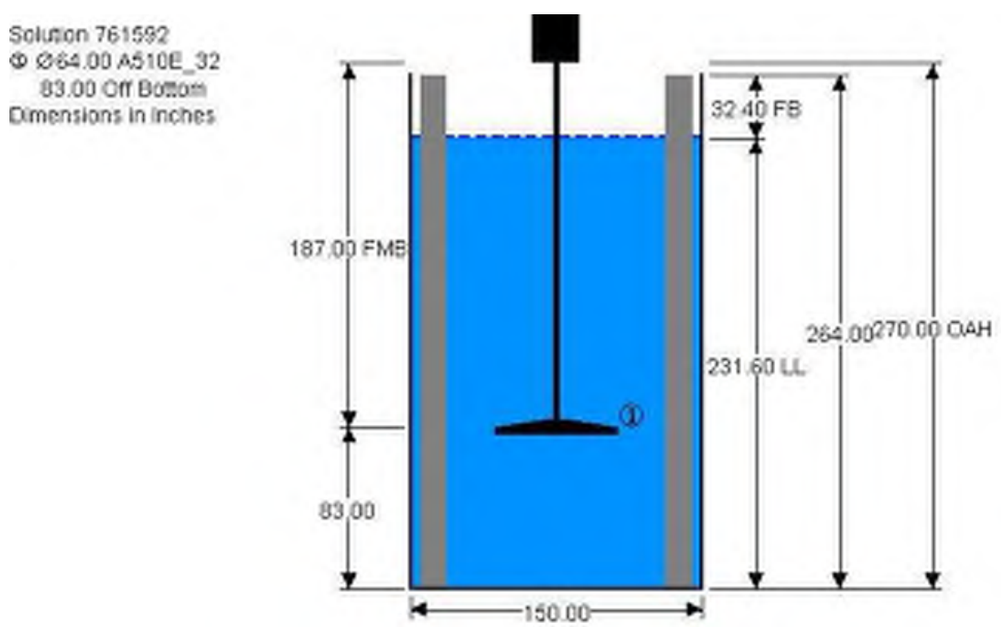
Market:	Water Wastewater Treatment	Application:	Equalization - No Solids - Wastewater Treat.
Operating Temperature:	68 °F	Design Liquid Level:	231.6 in
Operating Pressure:	0 lbs/in² (g)	Mixed Volume:	22,600 gal

Fluids

Design Process Viscosity:	1 cP	Design Specific Gravity:	1

Solids

Design Particle Size:	0 cP	Solids Specific Gravity:	0
Slurry SG:	1		



Product Details

Item	Size/Description/Scope of Supply	Lead Time (Business Days)*	Price	Qty.	Sub Total
2	Lightnin Mixer Model 74QP5 **Tag:** Post-Ozone (MX-3440-1/2)	90	$86,599.65	2	$173,199.30

MOTOR/DRIVE SPECIFICATIONS	
Motor Power	5.0 HP
Special Motor	IEEE-841 with temp detectors
Motor Type	C-Face
Motor Specification	Level 4/RFQ to Lightnin
Motor Frame Type	NEMA
Number of Poles	6 Pole
Nominal Input Speed (RPM)	1200.0 RPM
Motor Frequency	60.0 Hz
Motor Voltage	460 V
Motor Manufacturer	Baldor
Motor Frame Size	215TC
Motor Duty	Severe Duty
Motor Efficiency	Premium Efficiency
Enclosure	TEFC
Service Factor	1.15
Furnished By	Lightnin
Mounted By	Lightnin
Motor Mounting	Motor Pedestal
High Speed Coupling	Sure-Flex
MACHINE/SEALING SPECIFICATIONS	
Gear Reduction Ratio	25.63
Gearbox Reduction	Double
Q Mounting Option	Pedestal
Pedestal Mount	Yes
Nominal Operating Speed (RPM)	45.0 RPM
Operating Speed	Constant
SHAFT SPECIFICATIONS	
Shaft Diameter	3.0 inches
Shaft Length (FMB)	187.0 inches
Wetted Parts Material	316ss
Shaft Rotation	Clockwise
IMPELLER SPECIFICATIONS	
Impeller Quantity	1.0
Impeller 1	Lower, 64.0 inches A510E with 32 degree Tip Chord Angle with Stabilizer
Impeller 1 Attachment	Welded to Shaft
OTHER DATA	
Area Classification	Safe Area
End User Language	English
CE Certified	No
Drawing(s)	partial list: L-17738, L-16270

LIGHTNIN 70 / 80 SERIES MIXER DRIVES

Gearbox Casing
The cast ductile iron gear housing has been optimised for maximum strength and stiffness with minimum weight.

Gears
Available in both double and triple reduction versions the gearbox is designed in accordance with the latest AGMA standards. The use of precision ground, case carburised, helical gears combined with match lapped case carburised spiral bevel final reduction gears which spread the load evenly, produces a quiet reliable unit with an efficiency in excess of 97%.

A change gear facility enables the gear ratio to be quickly and easily changed allowing inexpensive modifications to be made to the output speed to meet future process changes.

Bearings
All bearings in the gearbox have a B-10 life greater than 20,000 hours. The output shaft bearings are selected for an average life expectancy in excess of 100,000 hours under continuous full load conditions.

This ensures maximum durability and a long service life between overhauls to minimise downtime for maintenance purposes.

Lubrication
Splash lubrication of all internal parts provides efficient, trouble free operation without the need for additional pumps and piping.

Each gearbox is equipped with a dipstick for monitoring oil level.

Drywell
An oil dam arrangement on the gearbox output shaft ensures that oil cannot leak down the output shaft, even if the output shaft lip seal fails.

Motor Mounting
Standard IEC & NEMA horizontal flange mounted electric motors are accommodated, supported on a substantial cast bell housing which mounts directly onto the speed reducer to ensure consistent alignment of the high speed coupling.

Motor Coupling
A flexible high-speed coupling is used to connect the electric motor to the speed reducer input shaft in order to dampen out torsional vibrations and optimise gear drive and motor life.

Guards
The flexible high speed motor coupling is fully encased by the Bell Housing.

Bearing member openings have metal mesh guards for ease of inspection while the machine is in operation.

Mounting Options
A comprehensive range of mounting options is available including open tank, Lip seals, single and double mechanical seals.

EU Certification
All units in the Lightnin 70 / 80 Series Range carry the CE mark in accordance with European Community Legislation and are ATEX certified where appropriate.

In line with our policy of continued product development unit specifications are subject to change without notice.

These Terms and Conditions of Sale ("Terms") shall govern all quotations, orders and contracts for the sale of goods and services of SPX FLOW to Buyer. These Terms supersede and exclude any prior written or oral agreement, understanding, representation or promise, and any pre-printed or standard terms and conditions contained in Buyer's request for quote, purchase order, invoice, order acknowledgement, contract or other similar document. These Terms may not be amended, supplemented, changed or modified except by concurrent or subsequent written agreement, signed by an authorized representative of SPX FLOW and Buyer. SPX FLOW's acknowledgement of Buyer's order shall not constitute acceptance of any terms and conditions contained therein, regardless of how such terms and conditions may be prefaced or described.

1. DEFINITIONS: "SPX FLOW" means the SPX FLOW, Inc. entity named in the order which is providing the goods and/or services. "Buyer" means the company who accepted SPX FLOW's offer or is named in the order.

2. PRICES: Unless otherwise mutually agreed to in writing, prices are net, Free Carrier (INCOTERM 2010) SPX FLOW facility. Stenographic, clerical and mathematical errors are subject to correction. Prices are exclusive of expenses related to special packaging or procedures to cover unique circumstances of shipment or storage unless specifically noted. Until acceptance of order on these Terms, quoted prices are subject to change.

3. DELIVERY AND PERFORMANCE: Unless otherwise specifically agreed in writing by the parties, all goods shall be delivered Free Carrier (INCOTERM 2010) SPX FLOW facility. Title shall pass to the Buyer upon delivery, or upon payment in full, whatever is later, provided that the only rights that SPX FLOW retains in relation to title are those enabling recovery of the goods in the event of Buyer's default on payment. Dates for the furnishing of services and/or delivery or shipment of goods are approximate only and are subject to change, and SPX FLOW shall use commercially reasonable efforts to meet such dates; provided, however, that SPX FLOW shall not be liable in damages or otherwise, nor shall Buyer be relieved of its performance hereunder, because of SPX FLOW's failure to meet them. If liquidated damages or a penalty have been agreed for delay, such liquidated damages or penalty shall only become due if the delay is solely due to the fault of SPX FLOW, the Buyer suffers damage due to this delay, and the Buyer has notified SPX FLOW in writing after the expiry of the time during which delivery could have been reasonably expected. Unless specifically agreed otherwise, it shall be calculated based on the value of the delayed part of the delivery, and the aggregate liability of SPX FLOW for all liquidated damages/penalties shall be limited to 5% of the total order value. Such liquidated damages/penalty shall be the Buyer's sole remedy and SPX FLOW's sole liability in case of delay. For the avoidance of doubt, if the order is subject to the laws of the Netherlands, "liquidated damages" or "penalty" shall mean a contractual penalty which is meant to be a compensation for damages. Additionally, SPX FLOW shall not be liable, directly or indirectly, for any delay in or failure to perform caused by carriers or suppliers; labor difficulties, shortages, strikes or stoppages of any sort; difficulty in obtaining materials; Buyer requested order changes; fires, floods, storms, accidents, or acts of God; any statute, sanction, injunction or other governmental restraint or prohibition or political unrest; or other causes beyond SPX FLOW's reasonable control. In the event of any such delay, the date of delivery shall be extended for a length of time at least equal to the period of the delay. All goods for which SPX FLOW does not receive notice of rejection for within seven (7) days after receipt, will be deemed accepted.

4. SHORTAGE, DAMAGE, ERRORS IN SHIPMENT: SPX FLOW's responsibility ceases upon making the goods available for pickup at SPX FLOW's facility. Buyer shall note receipt for goods that are not in accordance with bill of lading or express receipt and Buyer shall make claim against such carrier for any shortage, damage or discrepancy in the shipment promptly. Partial and transshipments are allowed.

5. TAXES: The quotation and order price excludes all assessments, taxes, levies and charges of whatsoever nature present or future, due or becoming due. This exemption shall include but not be limited to value added tax, income tax, withholding tax, profits tax, turnover tax, goods and services tax and any other consumption or environmental taxes applicable, tax payable on the income of expatriate employees, port dues, import and custom duties on the components and services and all export duties payable on the repatriation of any SPX FLOW components at the end of an order, where applicable. On the basis that an order is tax exclusive SPX FLOW reserve the right to invoice by way of an addition to such order price, such taxes as may be applicable under the relevant jurisdiction's tax regulations, together with SPX FLOW's external costs of dealing with these taxes.

6. CREDIT AND PAYMENT: Unless otherwise agreed in writing by SPX FLOW, payment of goods shall be net thirty (30) days, in the currency of the country of SPX FLOW. For orders in excess of two hundred and fifty thousand dollars ($250,000 USD) or the local equivalent payment terms shall be as follows: (a) twenty percent (20%) down payment, (b) forty percent (40%) upon SPX FLOW's purchase of raw materials/components, and (c) forty percent (40%) at the time of delivery. Down payment shall be due within five (5) of SPX FLOW's acceptance of the order, with the remaining two payments being net thirty (30) days. Prorated payments shall become due with partial shipments, and Buyer shall not be entitled to any retention or holdback; provided, however, if SPX FLOW agrees in writing to a retention or holdback, SPX FLOW may provide such retention or holdback in the form of a bond, letter of credit or bank guarantee in no event to extend more than thirty (30) days beyond expiry of the warranty period. SPX FLOW retains all remedies for Buyer's insolvency including, but not limited to, the right to stop delivery, reclaim any goods delivered, or withhold delivery except for cash. Failure to pay invoices at maturity date, at SPX FLOW's election, makes all subsequent invoices immediately due and payable and SPX FLOW may withhold all subsequent deliveries until the full account is settled and SPX FLOW shall not, in such event, be liable for non-performance of contract in whole or in part. Buyer agrees to pay, without formal notice, one and one-half percent (1.5%) per month of the amount not paid when due, or, if such rate is in excess of applicable governing law, Buyer agrees to pay the maximum permitted rate. No deduction, whether by way of set-off, counterclaim or otherwise, shall be made by Buyer. If prerequisites for any payment (such as delivery, completion or formal acceptance) cannot be satisfied due to Buyer's breach, such payment shall nevertheless become due and payable at the time agreed to and SPX FLOW's further right to seek damages shall remain unaffected.

7. CANCELLATIONS AND CHANGES: All orders are binding upon acceptance. In the event that SPX FLOW, in its sole discretion, agrees to cancellation of an order by Buyer, Buyer shall be liable for a cancellation charge equal to the greater of (i) twenty-five percent (25%) of the purchase price and (ii) any loss or cost incurred by SPX FLOW, including, but not limited to, cost of materials, labor, engineering, reconditioning and a reasonable profit margin. Buyer is responsible for all reasonable storage, insurance, and all other expenses incurred by SPX FLOW as a result of Buyer's cancellations and/or changes. No changes to the specification or the order are accepted without the prior written consent of both parties. In the event Buyer requests a change, SPX FLOW will provide a quotation to Buyer within a reasonable time of no less than ten (10) working days detailing the corresponding change in delivery, price, materials, and similar. SPX FLOW shall not be obligated to implement the requested change until the quotation is agreed by the parties.

8. LIMITED WARRANTY: Unless otherwise mutually agreed to in writing, (a) SPX FLOW goods, auxiliaries and parts thereof are warranted to the Buyer against defective workmanship and material for a period of twelve (12) months from date of installation or eighteen (18) months from date of delivery, whichever expires first, and (b) SPX FLOW services are warranted to Buyer to have been performed in a workmanlike manner for a period of ninety (90) days from the date of performance. If the goods or services do not conform to the warranty stated above, then as Buyer's sole remedy, SPX FLOW shall, at SPX FLOW's option, either repair or replace the defective goods or re-perform defective services. If Buyer makes a warranty claim to SPX FLOW and no actual defect is subsequently found, Buyer shall reimburse SPX FLOW for all reasonable costs which SPX FLOW incurs in connection with the alleged defect. Third party goods furnished by SPX FLOW will be repaired or replaced as Buyer's sole remedy, but only to the extent provided in and honored by the original manufacturer's warranty. Unless otherwise agreed to in writing, SPX FLOW shall not be liable for breach of warranty or otherwise in any manner whatsoever for: (i) normal wear and tear; (ii) corrosion, abrasion or erosion; (iii) any good or services which, following delivery or performance by SPX FLOW, has been subjected to accident, abuse, misapplication, improper repair, alteration (including modifications or repairs by Buyer, the end customer or third parties other than SPX FLOW), improper installation or maintenance, neglect, or excessive operating conditions; (iv) defects resulting from Buyer's specifications or designs or those of Buyer's contractors or subcontractors other than SPX FLOW; or (v) defects resulting from the manufacture, distribution, promotion or sale of Buyer's products; (vi) damage resulting from the combination, operation or use with equipment, products, hardware, software, firmware, systems or data not provided by SPX FLOW, if such damage or harm would have been avoided in the absence of such combination, operation or use; or (vii) Buyer's use of the goods in any manner inconsistent with SPX FLOW's written materials regarding the use of such product. In addition, the foregoing warranty shall not include any labor, dismantling, re-installation, transportation or access costs, or other expense associated with the repair or replacement of SPX FLOW goods. THE WARRANTIES CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE WARRANTIES AVAILABLE TO BUYER AND SPX FLOW HEREBY DISCLAIMS ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ANY PERFORMANCE OR PROCESS OUTCOME DESIRED BY THE BUYER AND NOT SPECIFICALLY AGREED TO BY SPX FLOW. THE FOREGOING REPAIR, REPLACEMENT AND REPERFORMANCE OBLIGATIONS STATE SPX FLOW'S ENTIRE AND EXCLUSIVE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM IN CONNECTION WITH THE SALE AND FURNISHING OF SERVICES, GOODS OR PARTS, THEIR DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATIONS.

9. INTELLECTUAL PROPERTY: In the event of a successful infringement claim by a third party, at SPX FLOW's option, SPX FLOW shall either (i) modify the goods sold hereunder so that they perform comparable functions without infringement, (ii) obtain a royalty-free license for Buyer to continue using the infringing goods or (iii) refund to Buyer the then-depreciated fair market value of the infringing component. SPX FLOW shall have no obligation under this Article to the extent a claim is based upon (a) the combination, operation or use of the goods with equipment, products, hardware, software, systems or data that was not provided by SPX FLOW, if such infringement would have been avoided in the absence of such combination, operation or use, or (b) Buyer's use of the product in any manner inconsistent with SPX FLOW's written materials regarding the use of such product or (c) infringement resulting from Buyer's specifications or designs or those of Buyer's contractors or subcontractors other than SPX FLOW. This Section

states SPX FLOW's entire liability and Buyer's exclusive remedy with respect to any actual or alleged infringement arising from the use of the goods or services sold hereunder or any part thereof and is subject to the other limitations contained in these Terms.

10. LIMITATION OF LIABILITY: NOTWITHSTANDING ANYTHING TO THE CONTRARY SET FORTH HEREIN: (A) IN NO EVENT SHALL SPX FLOW BE LIABLE FOR ANY EXEMPLARY, PUNITIVE, INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES WHATSOEVER (COLLECTIVELY DEFINED AS "CONSEQUENTIAL DAMAGES"), WHETHER FORESEEABLE OR NOT, INCLUDING WITHOUT LIMITATION, THIRD PARTY CHARGES AND COSTS, LOST PROFITS (WHETHER DIRECT OR INDIRECT), PRODUCT, PRODUCTION, BUSINESS OR BUSINESS OPPORTUNITY, REGARDLESS OF THE CAUSE, INCLUDING WITHOUT LIMITATION, THE NEGLIGENT ACTS OR OMISSIONS, BREACH OF CONTRACT, WARRANTY (EXPRESS OR IMPLIED) OR DUTY (STATUTORY OR OTHERWISE) OR STRICT LIABILITY OF SPX FLOW GROUP OR ANY OTHER THEORY OF LEGAL LIABILITY; AND (B) SPX FLOW'S AGGREGATE LIABILITY ARISING FROM OR IN CONNECTION WITH ALL ORDERS AND CONTRACTS FOR GOODS AND SERVICES UNDER THESE TERMS SHALL (SAVE FOR LIABILITIES WHICH CANNOT BE LIMITED BY APPLICATION OF LAW) NOT EXCEED THE CONTRACT PRICE FOR THE GOODS AND/OR SERVICES FOR WHICH LIABILITY IS CLAIMED. ANY ACTION FOR BREACH OF CONTRACT BY BUYER MUST BE COMMENCED WITHIN 30 DAYS OF THE EXPIRY OF THE WARRANTY PERIOD. BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL AGREEMENTS MADE WITH THIRD PARTIES THAT ARE OUTSIDE THE SCOPE OF THESE TERMS AND WHICH ARE CONTRARY TO THE LIMITATIONS OF LIABILITY AND/OR WARRANTY INCLUDED HEREIN.

11. GOODS FOR EXPORT: Buyer acknowledges that the goods may be subject to export restrictions, and that Buyer will comply with all such applicable laws and regulations. If the goods are intended for export, Buyer shall designate country of destination on its order. In the event that Buyer purchases goods for export without so notifying SPX FLOW, SPX FLOW reserves the right to cancel the order at no penalty or liability for breach in the event that SPX FLOW objects to the ultimate destination of the goods. Buyer will have sole liability and shall defend, indemnify and release SPX FLOW for any loss or damage (including without limitation, claims of governmental authorities) arising from the export or import of such goods, including, without limitation, those related to packaging, labeling, marking, warranty, contents, use, or documentation of the goods. Buyer has sole responsibility for obtaining any required export licenses. Buyer will not take, and will not solicit SPX FLOW to take, any action which would violate any anti-boycott or any export or import statutes or regulations applicable to the order, of any governmental authorities, and shall defend, indemnify, and reimburse SPX FLOW for any loss or damage arising out of or related to such actions. To the extent SPX FLOW is required to obtain an export license for any goods: (1) SPX FLOW obligation to fulfill an order with goods requiring such a license will be directly subject to the granting of the license; (2) SPX FLOW will use commercially reasonable effort to obtain such license; (3) Buyer shall make available all necessary information and documentation required for SPX FLOW to obtain such license; and (4) Buyer shall reimburse SPX FLOW for its reasonable expenses incurred in connection with obtaining such license.

12. PROPRIETARY INFORMATION: SPX FLOW shall retain title to all engineering and production prints, drawings, technical data, and other intellectual property, information and documents that relate to the goods or services sold to Buyer. All such information and documents disclosed or delivered by SPX FLOW to Buyer: (i) are to be deemed proprietary to SPX FLOW; (ii) shall not be disclosed to any third party for any reason without the express prior written consent of SPX FLOW; and (iii) shall be used by Buyer solely for the purpose of inspection, installation, use and maintenance of the goods and services sold to Buyer under these Terms.

13. APPLICABLE LAW; VENUE; DISPUTE RESOLUTION: For sales of goods sold or to be delivered or services to be performed within the United States: The rights and duties of the parties hereunder shall be governed by the laws of the State of North Carolina, United States of America, excluding its conflicts law and choice of laws principles. Any action or proceeding with respect to any dispute or controversy involving or arising out of this order, at SPX FLOW's sole discretion, (i) shall be brought in any State court in Mecklenburg County, North Carolina or the Federal courts of the Western District of North Carolina, United States of America, and Buyer and SPX FLOW submit to and accept generally and unconditionally the jurisdiction of those courts with respect to such party's person and property, or (ii) shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Rules, which award shall be final and binding on the parties and may be entered and enforced in any court having jurisdiction. Buyer and SPX FLOW hereby irrevocably waive any objection to the laying of venue of any action or proceeding in the above-described courts. For sales of goods sold or to be delivered or services to be performed outside of the United States: The rights and duties of the parties hereunder shall be governed by and construed in accordance with the law of the jurisdiction of the SPX FLOW entity providing the goods or services for this order. The United Nations Convention on Contracts for the International Sale of Goods and the conflict rules of international private law shall not apply. Any action or proceeding with respect to any dispute or controversy involving or arising out of this order, at SPX FLOW's sole discretion, (i) shall be brought in any competent court of the jurisdiction in which the SPX FLOW entity providing the goods or services is located, or (ii) shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules, with English serving as the language of the arbitration proceeding and award. Notwithstanding any other limitations contained in these Terms, SPX FLOW reserves the right to initiate proceedings in any court of competent jurisdiction, and Buyer shall indemnify SPX FLOW for all costs, fees and expenses (including reasonable attorneys' fees) SPX FLOW incurs in connection with enforcing its rights pursuant to this order.

14. RESALE: Buyer further agrees that upon resale of the goods, it will include in the contract for resale provisions which limit recoveries against SPX FLOW in accordance with these Terms. If Buyer fails to include such provisions in any such contract for resale, (a) SPX FLOW may reject Buyer's order related to such contract for resale, and (b) Buyer shall indemnify, defend and hold harmless SPX FLOW against any claim, liability, loss, cost, damage, or expense (including reasonable attorneys' fees) arising out of or resulting from such failure.

15. BUYER CAUSED DELAYS; WAIVER OF RIGHTS: If Buyer fails to perform any of its obligations under an order, SPX FLOW shall be entitled to suspend its performance under the order until such time as Buyer performs such obligations, and any dates for the delivery of goods or performance of services shall be extended for an amount of time determined in SPX FLOW's discretion.

Delays caused by Buyer which prevent SPX FLOW from achieving the original order performance requirements includes but is not limited to: (a) the construction of buildings, structures or other parts of the site within which SPX FLOW's goods are to be located; (b) changes in scope of an order introduced by Buyer; (c) completion of approvals, consents or delivery of critical information by Buyer beyond the periods provided in an order; (d) any specified site facilities and working conditions not being maintained by Buyer; (e) failure of Buyer to arrange carriage of the goods under an order, where Buyer has such obligation, or any other inability or refusal of Buyer to accept delivery in accordance with order delivery dates; (f) delays in obtaining customs clearance (where applicable) of the order deliveries; and (g) delay by Buyer in providing any required security to SPX FLOW in the form of a letter of credit, bank guarantee or otherwise. In the event of such Buyer delays, SPX FLOW shall in addition to an extension of remaining milestones, be entitled to an increase in the total order price to reflect the increase in cost to SPX FLOW directly caused by Buyer delays. Additionally, SPX FLOW shall be entitled to submit invoices for any order milestone for which completion has been frustrated due to Buyer delays. Such invoices shall be paid within 30 days of the date of SPX FLOW's invoice.

Any engineering, technical or other submittal drawings submitted by SPX FLOW to Buyer which are not expressly rejected in writing within ten (10) business days of Buyer's receipt, will be deemed accepted by Buyer. Buyer's right to conduct any agreed upon pre-shipment inspections (i) which Buyer does not schedule within ten (10) business days of receipt of notice of readiness to inspect from SPX FLOW or (ii) which Buyer delays for more than ten (10) business days from the date originally scheduled, will be waived, so long as SPX FLOW certifies in writing that the goods successfully passed SPX FLOW's standard pre-shipment inspection. Where Buyer delays taking shipment of any goods or otherwise fails to engage or otherwise dispatch a freight forwarder or transit company within ten (10) business days of notification that the goods are ready to ship, SPX FLOW shall be entitled to change the delivery term to Ex Works (INCOTERM 2010) SPX FLOW facility.

16. NO OTHER CONTRACT PROVISIONS; OTHER: No dealer, broker, branch manager, agent, employee or representative of SPX FLOW has any power or authority except to take orders for SPX FLOW goods or services and to submit the same to SPX FLOW for SPX FLOW's approval and acceptance on the terms herein or rejection. There are no representations, agreements, obligations, or conditions, expressed or implied, statutory or otherwise, relating to the subject matter hereof, other than contained herein. For the avoidance of doubt and not in limitation of the foregoing, SPX FLOW shall not be bound by the terms of any contract between Buyer and any third party or other flow down provisions, regardless of whether Buyer notifies SPX FLOW of such terms unless SPX FLOW expressly agrees to be bound by such terms in writing by an authorized representative of SPX FLOW. If any provision hereof is invalid or not enforceable under applicable law, the remaining provisions shall remain in full force and effect.

SPX FLOW reserves the right to transfer or assign its obligations, rights and responsibilities hereunder, so long as such successor or assign agrees to these Terms. Any assignment of Buyer's rights hereunder without SPX FLOW's consent (which shall not be unreasonably withheld) shall be void. SPX FLOW's failure to require Buyer's performance of any of these Terms shall not serve as a waiver of or diminish SPX FLOW's rights to require strict performance of these Terms.

SPXFLOW®

One-Page Terms Deviations

Let's get to work!

Thank you for your interest in doing business with us. We will **accept your terms and conditions**, but there are a few **essential terms we need to incorporate** even though they may vary from yours. Why? This allows us to get to work quickly on fulfilling your order without the headache of lengthy contract negotiations.

The terms below will apply to your order and take precedence (legal speak for these terms rule!): ⓘ[1]

DELAY - WE PAY LIQUIDATED DAMAGES (LDs) ⓘ[2]

- For delays solely due to a reason within our control, we pay LDs of 0.5% of the price of the delayed goods/services per week with a maximum of 5% of the order price.
- Termination for delay: Permitted once maximum LDs are reached.
- LDs are the only damages/costs to be paid by us for delay.

DEFECTS - WE PROVIDE WARRANTY ⓘ[3]

- Warranty period: 12 months from start-up but not more than 18 months from delivery/service.
- To the extent possible, we will always first be given the opportunity to remedy a defect on our own.
- **Exclusions:** Wear & tear, alterations, improper use, insufficient maintenance. All dismantling, transport, access & reinstallation costs are excluded from our warranty.
- Any warranty for fitness for a particular purpose shall be **limited** to purposes, if any, expressly stated in the order.

INTELLECTUAL PROPERTY (IP) - WE GIVE NECESSARY LICENSE ⓘ[4]

- You will own your IP & we will own ours and anything we supply and/or develop under the order will be ours but we will give you a non-exclusive license to operate and maintain the goods.

DAMAGES – WE ASSUME LIABILITY ⓘ[5]

- Our liability to each other for all claims however arising out of the contract (including indemnity) shall be **limited** to 100% of the order price.
- Neither of us will be liable to the other for loss of profit, loss of product, loss of use, down time costs, product recall costs, or exemplary, incidental, indirect, special or consequential loss.
- Liability will not be limited or excluded for gross negligence, willful misconduct, death or personal injury due to negligence, and charges payable by you as specified in the order.
- We will only indemnify you from and against claims to the extent they are directly caused by our negligence or willful misconduct.

INSURANCE – WE TAKE OUT POLICIES ⓘ[6]

- We will only take out insurance as required by law, and in addition policies with the following limits per occurrence & annual aggregate: Commercial General - 2.5million USD; Employer's Liability - 1million USD; Automobile - 1million USD.
- We will provide insurance certificates to you upon request, but not provide policies.
- Any requirements of additional insured status and waivers of subrogation are excluded.

Good to go? Sign here ›	Signature:		Date:	
DocuSign? ⓘ[7] Let us know. We can do this.	Name:		Company: (chop)	
	Order details: ⓘ[8]			

Or: Click here to copy and paste the text into your PO. ⓘ[9]

Explanations

Below are the explanation which are also shown when pointing the mouse on the ⓘ symbols in the document. These explanations are provided to clarify the reasons of SPXFLOW to propose these clauses and shall have not form part of the agreed terms and conditions.

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[1] PRECEDENCE – We appreciate that some of the issues raised may not be covered in your purchasing terms or may not be applicable to the individual order. Thank you for your understanding that in the interest of time, we are applying a one-size-fits all approach.

[2] DELAY – It is SPXFLOW's aspiration to meet the agreed timelines. However, sometimes, things do go wrong, also for us, and we are unable to meet your expectations. To provide you with a clear and easy to administer remedy, and to avoid an unreasonable impact on our business, we propose pre-defined liquidates damages, an approach we consider standard in the industries we operate in. Only once the agreed maximum LDs are reached can we accept a termination of the order.

[3] DEFECTS – Despite up-to-date manufacturing and quality assurance processes, in rare cases, defects do occur. It is important for us that under normal circumstances, we are given the opportunity to fix the defect.

[4] INTELLECTUAL PROPERTY – It is the knowledge about our products and manufacturing processes that our business is build on. It is therefore crucial for us to protect this IP and we have to retain it. What we grant to our customers is a license to use the IP

[5] DAMAGES – If things go wrong on our side and a damage or loss occurs, we will take responsibility. However, in line with industry standards and to keep our liability reasonable in relation to the benefit we receive under an order and the extent we can control the amount of any damage, we seek to agree the outlined limitations of liability.

[6] INSURANCE – SPXFLOW maintains a comprehensive insurance program. However, in some cases, our insurance program does not fully align with insurances requested in the purchasing terms of our customers. As we cannot sign up to provide insurance which we do not have, we have listed the insurance we see frequently requested and aligned it with our insurance program.

[7] DOCUSIGN – DocuSign is an electronic signature solution which is widely used, including by SPXFLOW. Instead of printing, signing, scanning and emailing the document, we will be happy to provide the document for signing via DocuSign. You will then receive a link to the document, login to your DocuSign account (you can set one up for free), and sign the document with a simple click.

[8] ORDER DETAILS – Please make clear to which order this document belongs. If the order has been issued already, you may enter the PO date and number. If there is no PO yet, you may refer to SPXFLOW's proposal/quotation number, or simply enter a description of the goods/services.

[9] PO COPY AND PASTE – Sometimes it may be easier or preferred to include the agreed wording directly into a PO document. To make this easier, we are providing the text of this document online on a webpage from where it can be easily copied and pasted into any document.

Bond

Hagaman, Ryan C.

From: Balkaran, Mahendra K.
Sent: Wednesday, February 12, 2025 1:49 PM
To: Hagaman, Ryan C.; Andraos, Elias; Solters, Stephen
Subject: FW: Bond Quote - TBW/VNA

See below…

Thanks,
Mahendra Balkaran

CDM Smith
Office: 804.377.2283

From: Malkowski, Kaitlyn <Kaitlyn.Malkowski@wtwco.com>
Sent: Wednesday, February 12, 2025 1:48 PM
To: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>; Lucas, Lisa <lucasl@cdmsmith.com>; Baechle, Mark <Mark.Baechle@wtwco.com>
Subject: RE: Bond Quote - TBW/VNA

Thank you for confirming. The premium estimate based on the provided information is $809,366.00.

Please let me know if you need anything else!

Thanks,

Kaitlyn Malkowski
Senior Associate – Client Service and Delivery
CA License # 4314788

WTW
Willis Towers Watson Northeast Inc.
d/b/a Willis Towers Watson Northeast Insurance Services, Inc.
1900 Market Street, Floor 8 | Philadelphia, PA 19103
CA License # 0441679

Mobile: +1 267-593-6398

kaitlyn.malkowski@wtwco.com
www.wtwco.com

Follow WTW on social media

From: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Sent: Wednesday, February 12, 2025 6:57 AM
To: Malkowski, Kaitlyn <Kaitlyn.Malkowski@wtwco.com>; Lucas, Lisa <lucasl@cdmsmith.com>; Baechle, Mark <Mark.Baechle@wtwco.com>
Subject: RE: Bond Quote - TBW/VNA

50 Months

Thanks,

Mahendra Balkaran

CDM Smith
Office: 804.377.2283

From: Malkowski, Kaitlyn <Kaitlyn.Malkowski@wtwco.com>
Sent: Tuesday, February 11, 2025 4:13 PM
To: Lucas, Lisa <lucasl@cdmsmith.com>; Baechle, Mark <Mark.Baechle@wtwco.com>
Cc: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Subject: RE: Bond Quote - TBW/VNA

Hi Lisa,

Can you confirm the completion time in months or days? This will give us a more accurate estimate of the time surcharge.

Thanks,

Kaitlyn Malkowski
Senior Associate – Client Service and Delivery
CA License # 4314788

WTW
Willis Towers Watson Northeast Inc.
d/b/a Willis Towers Watson Northeast Insurance Services, Inc.
1900 Market Street, Floor 8 | Philadelphia, PA 19103
CA License # 0441679

Mobile: +1 267-593-6398

kaitlyn.malkowski@wtwco.com
www.wtwco.com

Follow WTW on social media

From: Lucas, Lisa <lucasl@cdmsmith.com>
Sent: Friday, February 7, 2025 4:17 PM
To: Malkowski, Kaitlyn <Kaitlyn.Malkowski@wtwco.com>; Baechle, Mark <Mark.Baechle@wtwco.com>
Cc: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Subject: Bond Quote - TBW/VNA

Hello Kaitlyn, attached please find request for a bond quote for Phase 2 of the Veolia Tampa Bay Water project. We have not received a contract yet for phase 2 but were hoping we could get a quote with the information provided on the P&P Bond form.
Also as a reference is the phase 1 service agreement.

Please let us know if we can provide any additional information for the quote. I've included Mahendra on this email to respond to any question you may have as well.

Thank you!

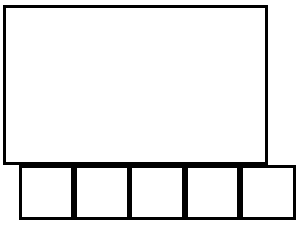
Best Regards,
Lisa Lucas
Lead Construction Proj. Administrator | Office Leader
CDM Constructors Inc. | 555 17th St. Ste 500, Denver CO 80202

Tel: 303.383.2454 | lucasl@cdmsmith.com

From: Balkaran, Mahendra K. <balkaranmk@cdmsmith.com>
Sent: Friday, February 7, 2025 10:00 AM
To: Lucas, Lisa <lucasl@cdmsmith.com>
Subject: Bond Quote - TBW/VNA

Mahendra Balkaran, PE*, PMP
Lead Preconstruction Specialist

*FL
CDM Smith
2104 Laburnum Ave, Suite 230
Richmond, VA 23227
Email: balkaranmk@cdmsmith.com
Office: 804.377.2283
cdmsmith.com



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Surface Water Treatment Plant Expansion – Construction Phase Services

Agenda Item C.2
March 17, 2025

Maribel Medina, P.E., PMP
Planning & Projects Director
Tampa Bay Water

Meeting the Region's Growing Water Needs

- Complete by end of 2028
- Increases supply by up to 12.5 million gallons per day
- Progressive design-build using Veolia's contract

Completed and Upcoming Milestones

Completed

- Basis of design report
- 60% design
- Early equipment purchases
- Value engineering
- Guaranteed maximum price for construction phase services

Upcoming

- Complete design
  - August 2025
- Start construction
  - September 2025
- Substantial completion
  - January 2028
- Final completion
  - April 2028

Project Costs

Design Phase

$36,003,766

- Owner's engineer
- Engineering design services
- Early equipment purchases

Construction Phase

$145,137,058

- Engineering services during construction
- Construction, equipment and material
- Owner's allowance & contingencies

Total

$181,140,825

Recommendation

- Approve the negotiated agreement amendment 2025-18 with Veolia Water North America Operating Services, LLC for Construction Services of the Surface Water Treatment Plant Expansion Project, in the amount of $145,137,058.80, inclusive of $8,176,439.28 of Owner's Allowance.

TAMPA BAY WATER

Questions?

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM D.1

DATE: March 3, 2025

TO: Board of Directors

FROM: Charles H. Carden, General Manager

SUBJECT: Member Government Report - City of St. Petersburg - *Presentation*

SUMMARY

City of St. Petersburg utility staff will provide a presentation on its water supply system and current topics of interest.

SUGGESTED ACTION

Receive Presentation.

COST/FUNDING SOURCE

N/A

DISCUSSION

Each member government utility is given the opportunity to present its current water operations and any other topics of interest on a rotational basis. A member of the St. Petersburg Utility staff will present on behalf of the city.

D.1 Member Government Report - City of St. Petersburg Presentation

ST. PETERSBURG WATER RESOUCES DEPARTMENT

TAMPA BAY WATER BOARD MEETING

March 17, 2025

John E. Palenchar, Director

st.petersburg
www.stpete.org

OUTLINE

- System Overview
- Current Projects
- Future Projects

The Water Journey | St. Pete, FL - YouTube

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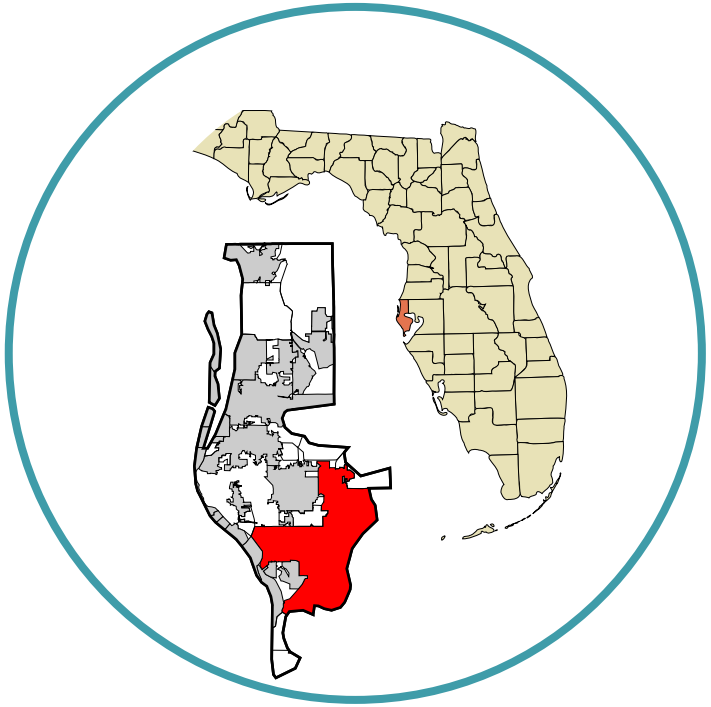
www.stpete.org

- ✓System Overview
- Current Projects
- Future Projects

SYSTEM OVERVIEW

Service Area

- St. Petersburg, South Pasadena, Gulfport, and portions of Pinellas County
- Approximately 95,000 Accounts
- Served population over 367,000
- Fiscal Year 2025 Budget
  - Operating $47M
  - Capital Program $20M



St. Petersburg is the largest City in Pinellas County.

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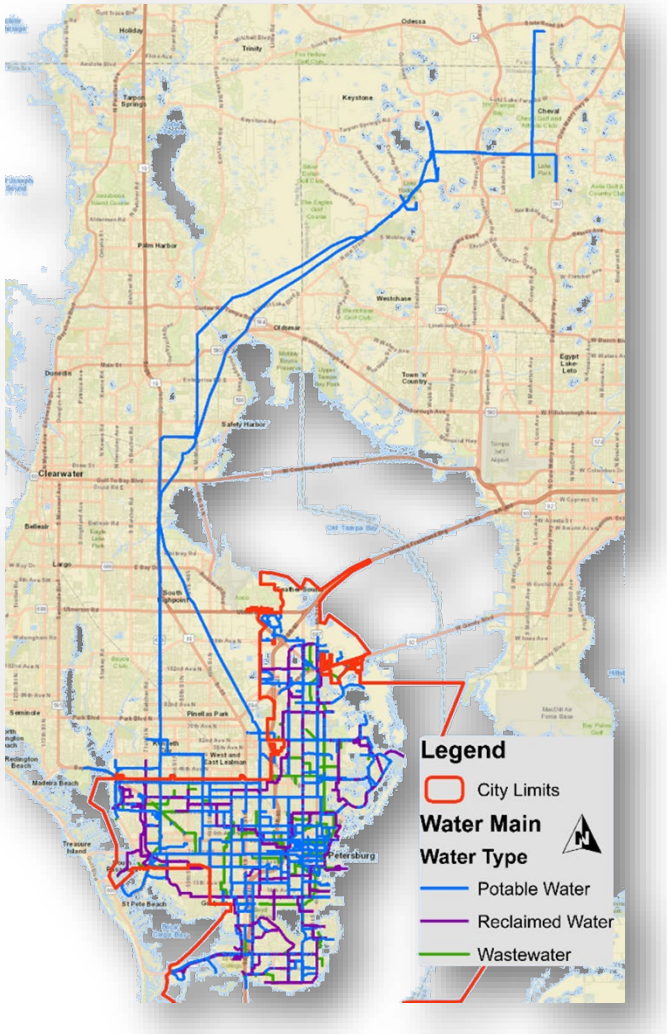
- ✓System Overview
- Current Projects
- Future Projects

SYSTEM OVERVIEW

- 1 Treatment Facility – Cosme
  28 MGD Average Demand
- 2 Master Pump Stations
  Oberly – 24 MG Storage
  Washington Terrace - 15 MG Storage
- Over 1,500 Miles Of Distribution System Piping



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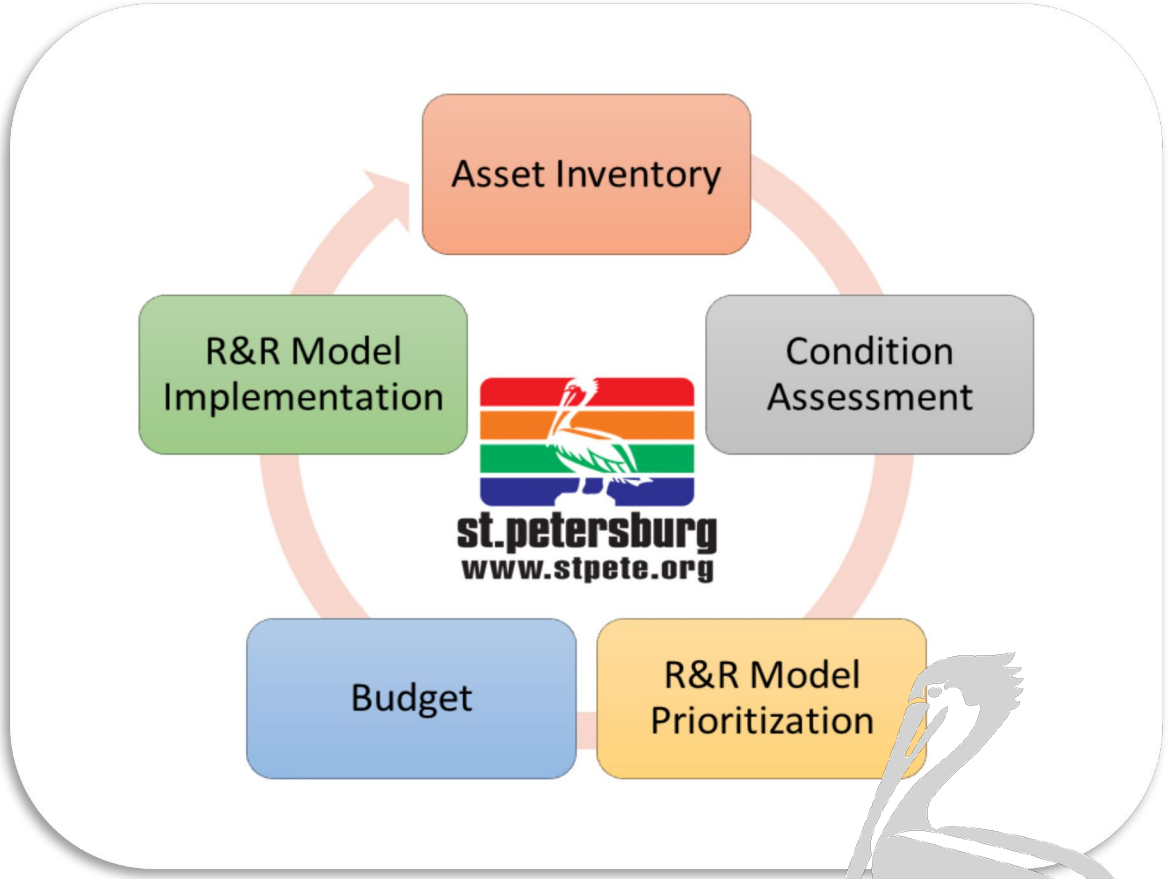
- ✓ Current Projects
- Future Projects

CURRENT PROJECTS

- **Pumping, Transmission, and Storage Facilities Plan**

Evaluation of the capacity model.



- Project timeline:
  - Design 2024 - 2025
  - Construction NA
- Project cost:
  - Design $420,000
  - Construction NA

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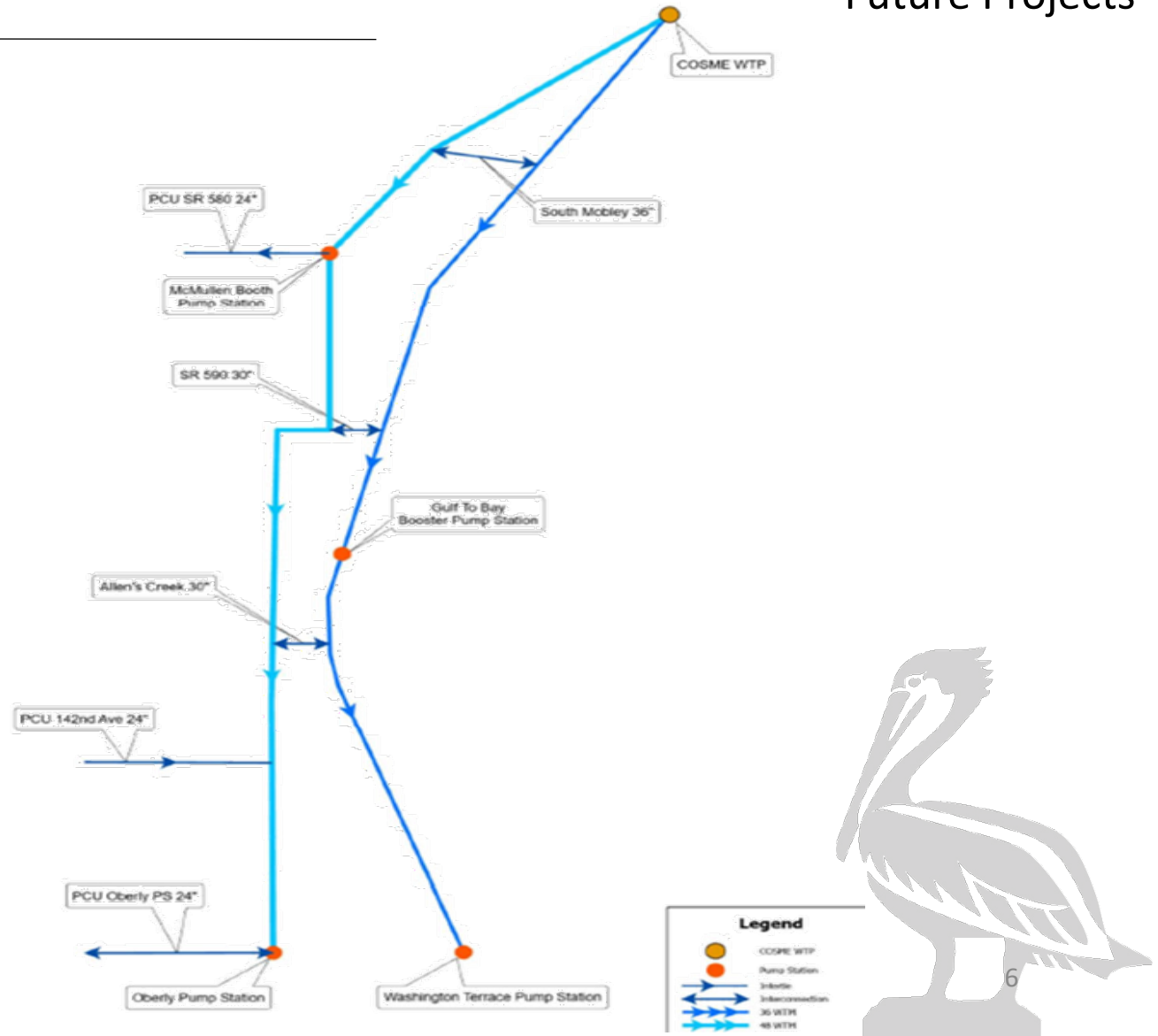
- ✓Current Projects
- Future Projects

CURRENT PROJECTS

- **Transmission Main Intertie Evaluation**

Evaluation of the capacity interties and modeling.

- Project timeline:
  - Design 2024 - 2025
  - Construction TBD
- Project cost:
  - Design $410,000
  - Construction TBD



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- ✓Current Projects
- Future Projects

CURRENT PROJECTS

- **Lake Tarpon Canal Transmission Main Replacement**

Subaqueous replacement of the existing aerial crossing of the 48-inch water main over the Lake Tarpon Canal in Oldsmar and Safety Harbor.

- Project timeline:
  - Design 2020 – 2023
  - Construction 2024 – 2025
- Project cost:
  - Design $1.3M
  - Construction $16M

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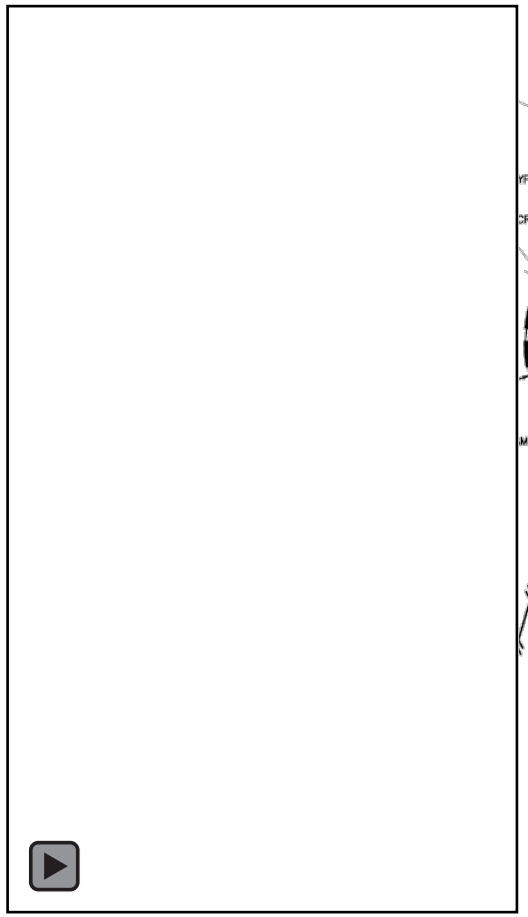
- ✓Current Projects
- Future Projects

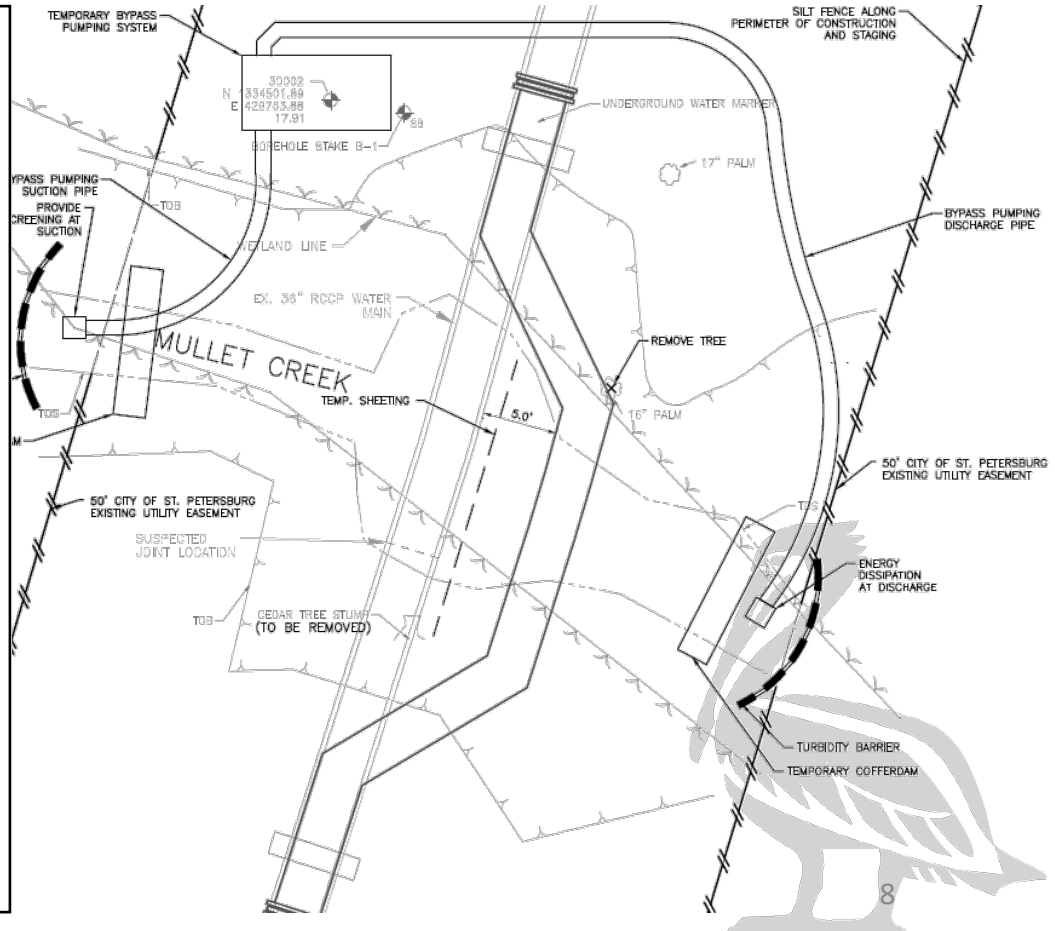
CURRENT PROJECTS

- **Aqueous Creek Crossings in Safety Harbor**

Redo exposed 36” transmission mains in creeks.

- Project timeline:
  - Design 2024 - 2025
  - Construction 2025 - 2026
- Project cost:
  - Design $230,000
  - Construction $2.0M





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- ✓System Overview
- ✓Current Projects
- Future Projects

CURRENT PROJECTS

- **Pressure relief plate repairs**

Swan Drive, 66th Street, and South Mobely Road.

- Project timeline:
  - Design NA
  - Construction 2024 - 2025
- Project cost:
  - Design NA
  - Construction $240,000

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- ✓ Current Projects
- ✓ Future Projects

FUTURE PROJECTS

- **48” and 36” Condition Assessment.**

Targeted internal and external inspection of the 48” circa 1960’s and 36” circa 1930’s water transmission mains.

- Project timeline:
  - Design 2025 -2027
  - Construction TBD
- Project cost:
  - Design $2.2M (preliminary)
  - Construction TBD

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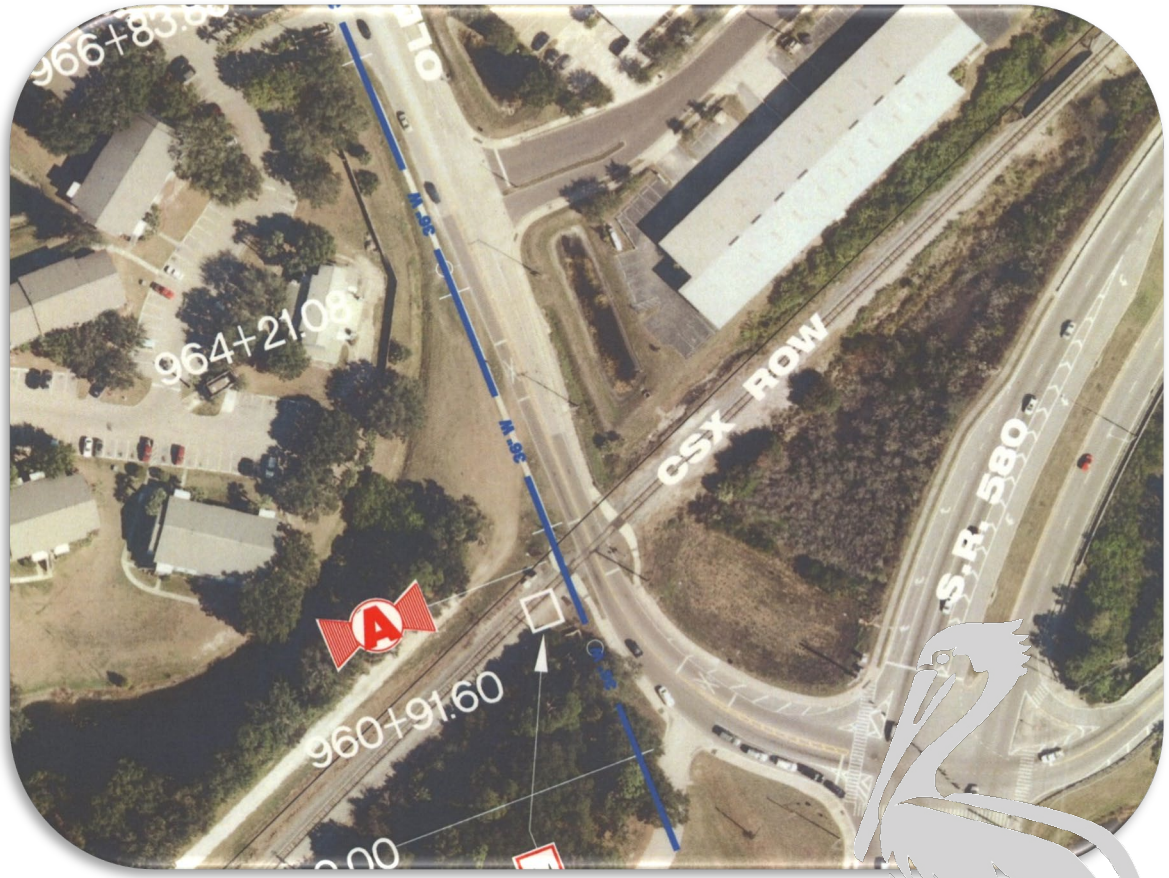
- ✓ System Overview
- ✓ Current Projects
- ✓ Future Projects

FUTURE PROJECTS

- **Forest Lake Roadway Relocation.**

Relocate pipe to accommodate a road widening and drainage projects .

- Project timeline:
  - Design 2025
  - Construction 2027 – 2028
- Project cost:
  - Design $400,000
  - Construction $5M (TBD)



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- ✓System Overview
- ✓Current Projects
- ✓Future Projects

FUTURE PROJECTS

- **Automated Metering Infrastructure (AMI).**

Pilot completed with 250 accounts. Successful with current billing system. About 25% of the meters installed are AMI ready.

- Project timeline:
  - Design 2024 -2025
  - Construction 2025 – 2028
- Project cost:
  - Design $ 1.5M (preliminary)
  - Construction $ 38M (preliminary)

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TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM D.2

DATE: February 28, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Maribel Medina, Planning and Projects Director

SUBJECT: Long-term Master Water Plan Feasibility Program and Developmental Alternatives Study Status Report - *Presentation*

SUMMARY

The 2023 Long-term Master Water Plan was approved by the Board of Directors in November 2023. This item provides an update on the on-going feasibility studies and the Developmental Alternatives Study.

SUGGESTED ACTION

Receive Status Report and Presentation.

COST/FUNDING SOURCE

N/A

DISCUSSION

In November 2023 the Board of Directors (Board) approved the 2023 Long-term Master Water Plan (2023 Plan). The 2023 Plan included several recommendations including further study of seven top-ranked water supply projects to meet the region's future water supply needs and the initiation of the Developmental Alternatives study. The seven projects that will be further studied (if needed) include:

- **Eastern Pasco Wellfield:** This project will evaluate a new brackish and/or fresh groundwater wellfield located in northeast Pasco County with an estimated yield of 9 million gallons per day (mgd).
- **Consolidated Water Use Permit Increase:** This project consists of increasing the permitted capacity of the existing Consolidated Water Use Permit by an estimated 10 mgd.
- **Tampa Bay Seawater Desalination Expansion:** The expansion of the existing Desalination Plant has an estimated yield of 11 mgd and considers expansion with either seawater or brackish groundwater. The study will evaluate the expansion with brackish groundwater only as the seawater expansion was evaluated in 2021.
- **North Pinellas Surface Water Treatment Plant and Reservoir:** This concept has an estimated yield of 4 mgd and includes a new surface water treatment plant and reservoir withdrawing water from the outfall canal downstream of Lake Tarpon.
- **Surface Water Treatment Plant at the C.W. Bill Young Regional Reservoir:** This project has an estimated yield of 6 mgd and consists of a new surface water treatment plant at the existing C.W. Bill Young Regional Reservoir using increased withdrawals from the Alafia River.
- **South Hillsborough Surface Water Treatment Plant and Reservoir:** This project has an estimated yield of 4 mgd and consists of a new surface water treatment plant and reservoir withdrawing water from the Little Manatee River and Bull Frog Creek.
- **South Hillsborough Wellfield:** This project consists of a new wellfield in Southern Hillsborough County via aquifer recharge with an estimated yield of 6 mgd. This concept does not require additional study as it was evaluated in 2021.

The projects requiring studies have been grouped into two projects due to scope similarities. Below is a summary of each project, work completed to date, and future activities.

<u>Feasibility Study for New Groundwater Sources (Project No. 11022):</u>

This feasibility study project includes three groundwater source short-listed projects including:

- Eastern Pasco Wellfield
- Consolidated Water Use Permit Increase
- Tampa Bay Seawater Desalination Expansion with Brackish water

Work Completed to Date:

- Submitted the aquifer performance test plan to the Southwest Florida Water Management District for review and approval for the Eastern Pasco Wellfield.
- Submitted and received approval of the gopher tortoise relocation permit for the Eastern Pasco Wellfield test well site.
- Submitted permit application to Pasco County's site development services for the Eastern Pasco Wellfield Feasibility Study test well site.
- Developed bid documents for construction services for the Eastern Pasco Wellfield.
- Developed public outreach materials for the Eastern Pasco Wellfield.
- Compiled regional wetland monitoring data from the Southwest Florida Water Management

District, St. Johns River Water Management District, Orlando Utilities Commission and others to support the Consolidated Water Use Permit Increase Study.

Work in Progress:

- Advertise for test well construction services for the Eastern Pasco Wellfield.

Upcoming Work:

- Meet with the Southwest Florida Water Management District to discuss the aquifer performance test plan for the Eastern Pasco Wellfield.
- Coordinate with the Southwest Florida Water Management District to discuss the recovery assessment approach as part of the Consolidated Water Use Permit Increase Study.
- Issue notice to proceed to Huss Drilling piggyback contract to perform the corehole for the Eastern Pasco Wellfield.

Feasibility Study for Surface Water Sources (Project No. 11025):

This feasibility study project includes three surface water source short-listed projects including:

- North Pinellas Surface Water Treatment Plant and Reservoir
- Surface Water Treatment Plant at the C.W. Bill Young Regional Reservoir
- South Hillsborough Surface Water Treatment Plant and Reservoir

Work Completed to Date:

- Provided a presentation on the Surface Water Feasibility Studies as well as the proposed Alafia water use permit increase to the Agency on Bay and Coastal Management Natural Resources/Environmental Impact Review Committee.

Work in Progress:

- Conduct regulatory review, collect and analyze data.

Upcoming Work:

- Provide presentations on the Surface Water Feasibility Studies as well as the proposed Alafia water use permit increase to key stakeholder groups.
- Analyze hydraulic model to identify areas of limited and excess capacity.

Overall Feasibility Program and Water Selection Schedule

- Complete Feasibility Studies: *September 2024 through April 2027*
- Initiate the Water Supply Selection Process: *June 2026 through October 2027*
- Select the next water supply configuration: *November 2027*

Developmental Alternatives-Phase 1 (Project No. 11021)

Developmental Alternatives are water supply options that may require sophisticated technologies, which do not have a current regulatory framework for permitting, or that require more long-term analysis and study. As technology advances and processes develop, these alternatives may become more cost-

effective or permitting uncertainties may be resolved. This first phase includes defining the goals and objectives of the study, identifying potential water supply concepts, engaging member governments to confirm availability of reclaimed water as potential water supply option, and workshops with the members.

Work Completed to Date:

- Held kick-off meeting with members utility directors.
- Received member governments reclaimed water availability questionnaire responses.
- Held in-person workshop with member governments utility directors to review questionnaire responses.

Upcoming Work:

- Brainstorming workshop with member governments utility directors and technical experts to develop project concepts: Summer *2025*

BACKGROUND

Tampa Bay Water is the sole and exclusive wholesale water provider to its six Member Governments and has the unequivocal obligation to meet the Quality Water needs of all Member Governments. Tampa Bay Water's 2023 Long-term Master Water Plan, approved at the November 2023 Board meeting, documents how Tampa Bay Water meets its unequivocal obligation to provide Quality Water to meet all Member Government demands through the 2043 planning horizon.

The 2023 Plan identifies when new supplies will need to be built by considering demand forecasts, water shortage mitigation strategies and demand management and what to build by identifying and evaluating new water supply projects, optimization of existing assets, where to deliver and how, and public input.

The 2023 Plan made several recommendations including further study of seven top-ranked water supply projects to meet the region's future water supply needs and to initiate the Developmental Alternatives Study. Once the seven project feasibility studies are completed these projects will be evaluated using Board approved criteria to develop a recommendation for the selection and construction timing of one or more projects. The Developmental Alternatives Study recommended projects concepts may be added to future Long-term Master Water Plans for further evaluation.

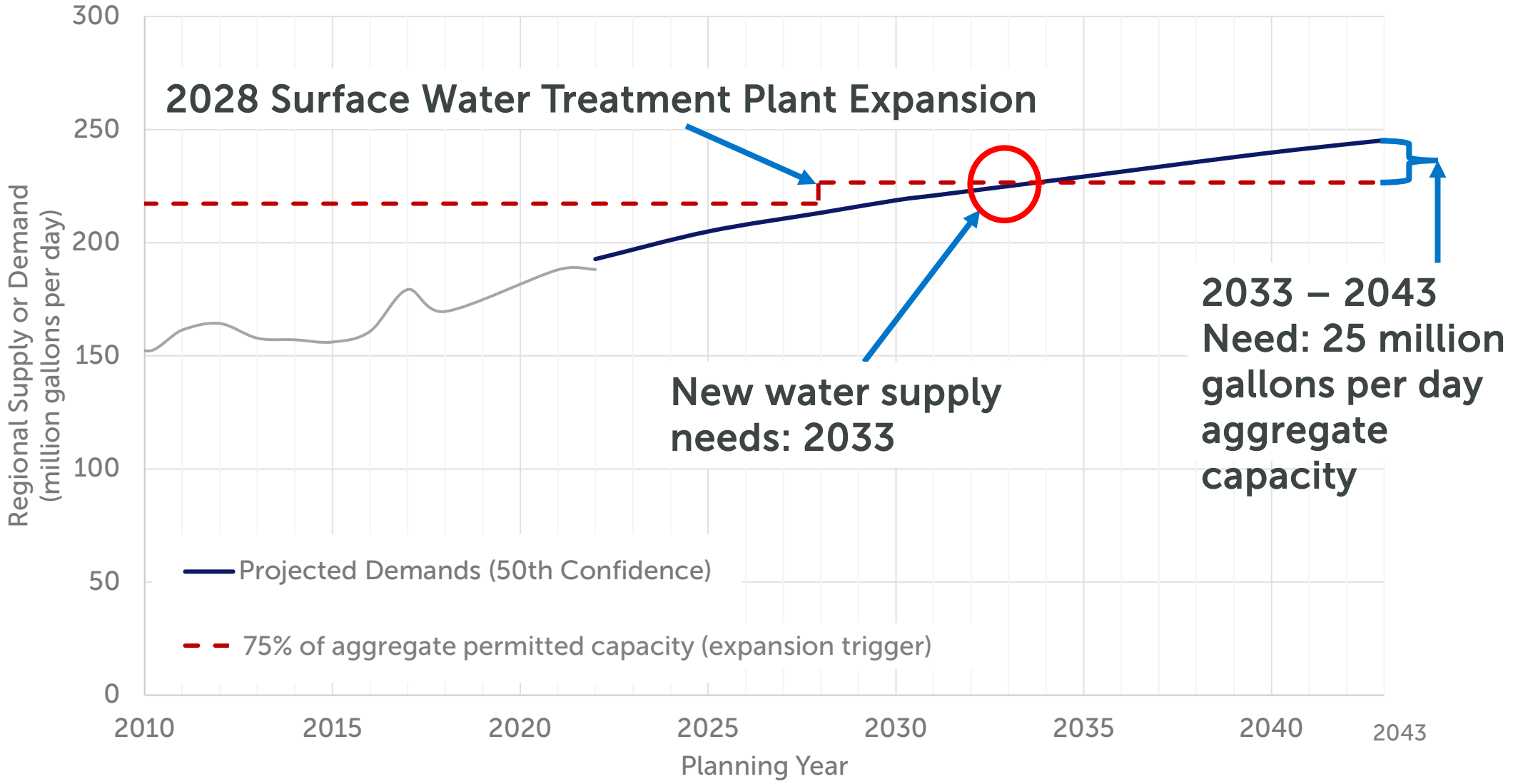
D.2 Long-term Master Water Plan Feasibility Study Program Update Presentation

Long-term Master Water Plan Feasibility Program

Agenda Item D.2
March 17, 2025

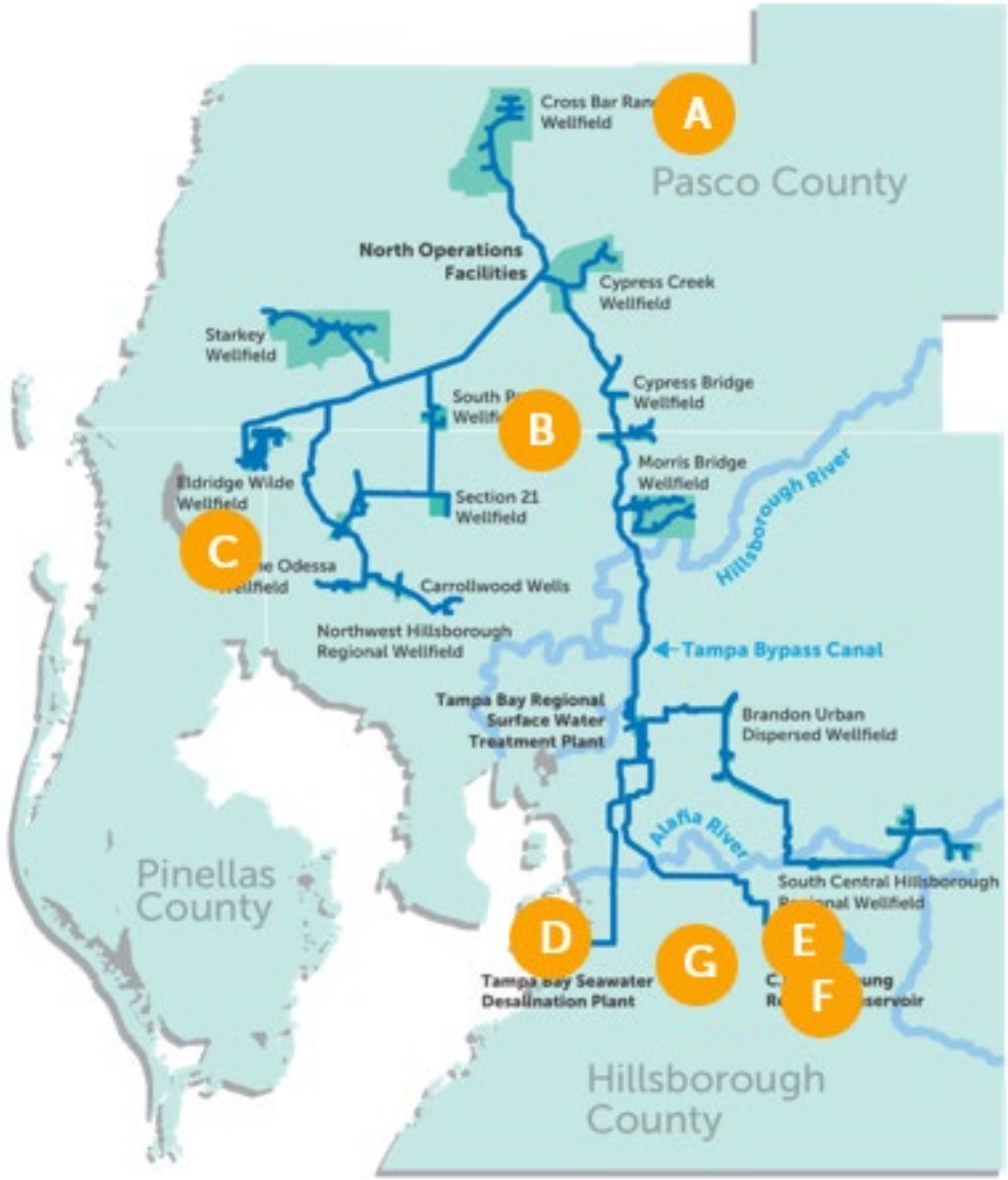
Danielle Keirsey, PMP
Senior Project Manager
Tampa Bay Water

Meeting the Region's 2033 Water Needs



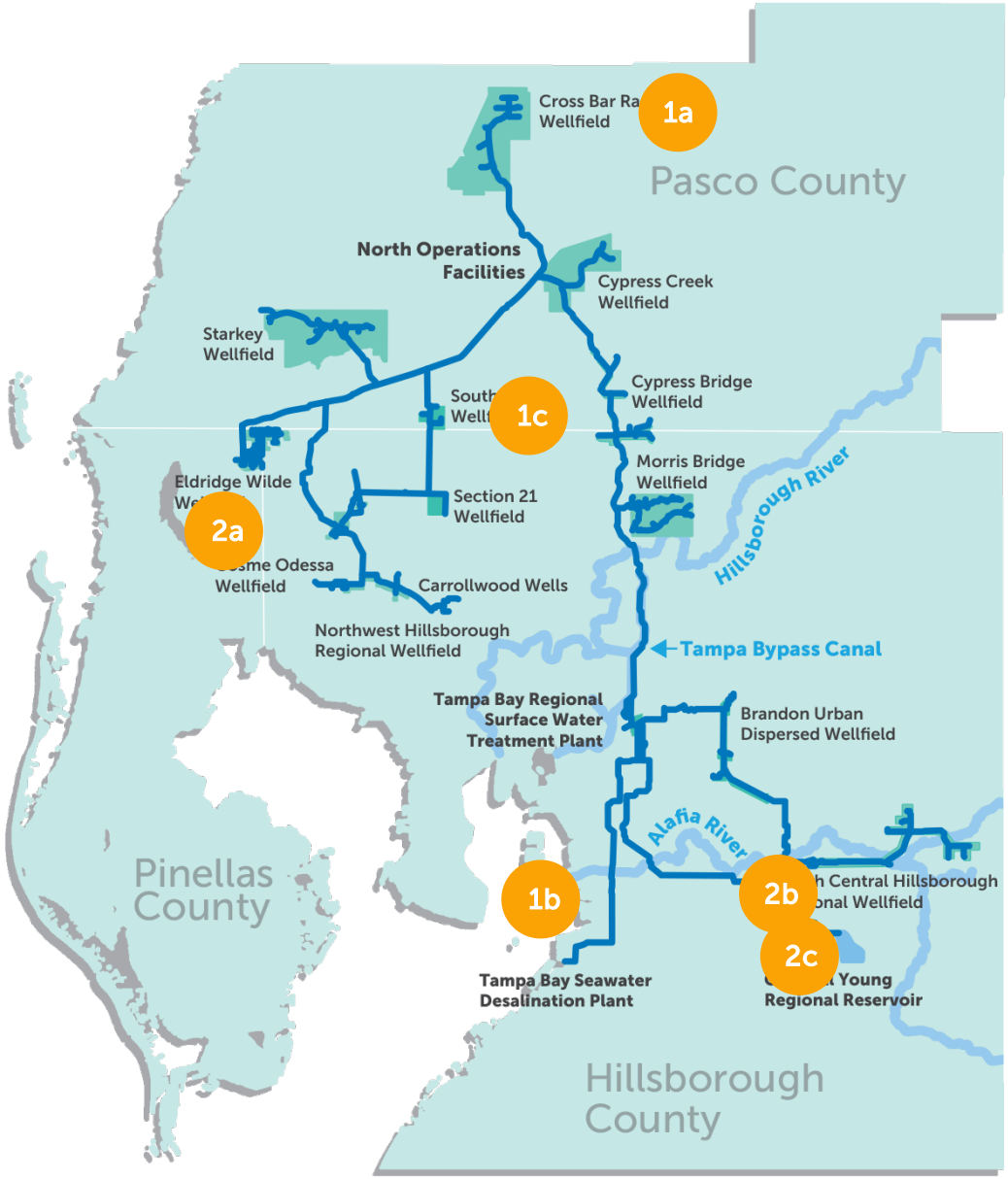
Short-list Project Concepts

A. Eastern Pasco Wellfield
B. Consolidated Water Use Permit Increase
C. North Pinellas Surface Water Treatment Plant and Reservoir
D. Desalination Plant Expansion
E. Surface Water Treatment Plant at C.W. Bill Young Regional Reservoir via Alafia withdrawals
F. South Hillsborough Surface Water Treatment Plant and Reservoir
G. South Hillsborough Wellfield



Feasibility Program

1. Feasibility study for new groundwater sources
   a) Eastern Pasco Wellfield
   b) Desalination Plant Expansion with Brackish
   c) Consolidated Water Use Permit Increase
2. Feasibility study for surface water sources
   a) North Pinellas Surface Water Treatment Plant and Reservoir
   b) C.W. Bill Young Regional Reservoir Surface Water Treatment Plant
   c) New South Hillsborough Surface Water Treatment Plant and Reservoir



Feasibility Program Studies

Goals:

- Determine overall feasibility
- Refine yield
  - Normal conditions
  - Sustainable
- Refine costs
- Collaborate with residents

Tasks:

- Hydrologic, hydraulic and hydrogeologic modeling
- Test wells
- Water quality sampling
- Environmental assessments
- Public engagement

Estimated duration is two years, starting in 2024.

Feasibility Study for New Groundwater Sources

Completed Tasks

- Awarded professional services contract
- Completed preliminary hydrologic modeling
- Public engagement activities

Ongoing Tasks/Upcoming

- Continue public outreach
- Begin preliminary impact analysis modeling
- Coordinate with the Southwest Florida Water Management District

Eastern Pasco Wellfield

Completed

- Negotiated temporary construction easement
- Developed plans and specifications
- Developed aquifer performance test
- Submitted site permits
- Public engagement

Ongoing/Upcoming

- Mobilize and clear site
- Construct core hole
- Advertise well drilling contract
- Continue public outreach efforts

Feasibility Study for Surface Water Sources

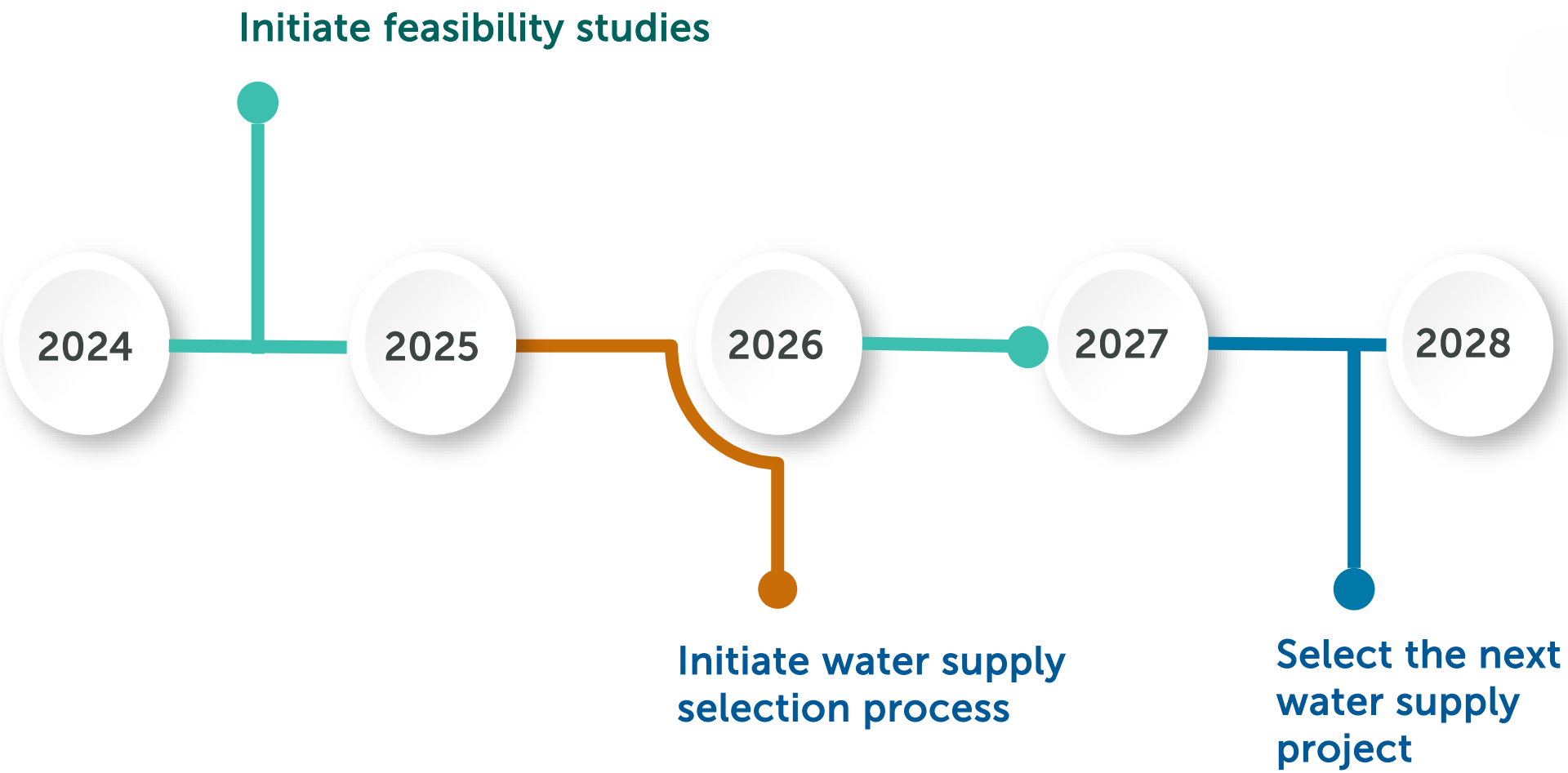
Completed

- Awarded professional services contract
- Conducted public outreach with key stakeholders

Ongoing/ Upcom ing

- Develop water quality database and sampling plans
- Coordinate with the District
- Continue public outreach efforts

Feasibility Program and New Water Supply Selection Timeline



TAMPA BAY WATER

Questions?

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM D.3

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Warren Hogg, Chief Science Officer

SUBJECT: Water Quality Update - *Presentation*

SUMMARY

The Water Quality Update summarizes agency water quality compliance and studies through February 2025 and member government distribution system performance through January 2025. This item summarizes the results of continuing PFAS sampling, the progress on developing recommendations for potential PFAS treatment where necessary, and an updated prioritization schedule for potential removal of Total Organic Carbon at Regional System Facilities.

SUGGESTED ACTION

Receive Presentation.

COST/FUNDING SOURCE

N/A

DISCUSSION

The agency monitors regional system water quality at member government regional delivery locations identified in the Comprehensive Regional Water Quality Monitoring Plan approved by the Florida Department of Environmental Protection (FDEP). Data are reported in accordance with the Master Water Supply Contract (Exhibit D) water quality compliance samples and state and federal

requirements. **The agency is in compliance with state/federal drinking water standards for reported parameters during this period.**

Exhibit D Water Quality Compliance

Exhibit D requirements were met for reported parameters and locations during this period.

Future Water Quality Treatment to Comply with PFAS National Primary Drinking Water Regulations

Carollo Engineers performed a Regional Water Quality Study (Study) to assess the technical feasibility and conceptual costs of treatment to reduce total organic carbon (TOC) and other water quality parameters per Board direction. In February 2023, Utility Directors requested information on how EPA's (then) anticipated PFAS MCLs and data from UCMR5 sampling events could potentially affect TOC treatment technology selection, estimated costs, scheduling of priority treatment locations, and uniform rate projections. Some Utility Directors also requested consideration of a compressed implementation schedule for treatment.

The Environmental Protection Agency (EPA) final Maximum Contaminant Limits (MCLs) for six polyfluoroalkyl substances (PFAS) have been adopted and became effective in June 2024; compliance with the new MCLs is required by April 2029. These MCLs affect the Regional Water Quality Study recommendations. The agency retained Carollo Engineers to update the Regional Water Quality Study (Study Update) to address the need for PFAS treatment at all locations that are above or near the EPA's MCLs to ensure the water delivered to the members meets the new PFAS drinking water regulations. The Study Update considers the new PFAS MCLs, the agency's quarterly and supplemental PFAS data, and treatability benchtop studies (to assess PFAS removal in combination with TOC reduction).

The implementation schedule presented in the Study, which was based primarily on TOC treatment location priorities, will shift to PFAS treatment location priorities in order to satisfy the new federal and state drinking water requirements. This will change the prioritization and timing of new treatment systems, which could also affect Uniform Rate projections. Each re-prioritized PFAS treatment location will require granular activated carbon or ion exchange treatment system conceptual design modifications, updated capital and operations and maintenance estimated costs, and revised Uniform Rate projections that account for other Capital Improvements Program projects. Additional sampling and analysis, and further PFAS treatability studies including pilot studies, will continue to be performed to confirm the level of required PFAS treatment as part of the design and implementation of additional treatment systems.

PFAS treatment will be likely be recommended at select locations later this year after discussions with member utility directors and staff. An evaluation of the potential implementation planning and financial effects of accelerating the schedule for TOC and other water quality treatment at the 14 regional locations identified in the Study (i.e., reducing three phases to two phases and completing the work in less than the recommended 15-year period) will be discussed with utility directors in scheduled meetings starting in March 2025.

Regional Free Chlorine Maintenance Evaluation

Staff activities on a supplemental water quality characterization program involving TOC species that indicates potential changes in biological stability, and more frequent chloramines decay testing will resume in 2025. This monitoring is intended for potential early detection of water chemistry and biology changes in transmission mains that may be the cause for accelerated chloramines decay observed during summer months. An online flow cytometer continues to be evaluated for use to continuously measure the size and number of bacteria to anticipate changes in advance of traditional water quality test methods. The program goal is to use these data to develop interim operational strategies that could lessen the effects of seasonal chloramines decay until TOC reduction treatment can be implemented, if approved by the Board, per the Regional Water Quality Study Update recommendations. Data are presented and discussed at Water Quality Working Group/Operations Coordination Committee meetings.

Red Tide

Staff continues to review monitoring performed by others to remain current on red tide conditions in Tampa Bay. Red tide conditions have not been reported in the vicinity of the desalination plant intake structure. The desalination plant is currently online.

Water Quality Working Group/Operations Coordination Committee

A Water Quality Working Group/Operations Coordination Committee (WQWG/OCC) meeting was held on February 13, 2025. Discussion topics included Tampa Bay Water regional system performance and project status reviews (described above). Member governments submitted their distribution system performance data that are provided in the attached graphs and Tables 1-4. The graphs show, by member government for February 2024 through January 2025, the total number of received complaints, the total distribution system water flushed (by volume), and the water distribution system water flushed (percent of total water delivered).

BACKGROUND

Fifth Unregulated Contaminant Monitoring Rule (UCMR5) Supplemental Data Collection

Finished water monitoring of 29 PFAS and lithium, which is required by the EPA under the Unregulated Contaminant Monitoring Rule Round 5 (UCMR5), began in the Tampa Bay region in January 2023 and ended in April 2024. Member utilities were required to sample their finished water for four consecutive quarters and Tampa Bay Water concurrently sampled all of our active regional delivery locations to member utilities. Results for Tampa Bay Water's four UCMR5-related sampling events were presented to the Board in July 2024.

Tampa Bay Water identified one PFAS, perfluorooctane sulfonate (PFOS), at an annual average concentration slightly above the EPA's MCL based on these quarterly sampling events. This occurred at

one of the agency's two delivery locations to the Hillsborough County Lithia Water Treatment Plant (WTP). All agency UCMR5-related quarterly PFAS data have been posted to the Tampa Bay Water web site. Tampa Bay Water collected monthly supplemental samples for PFAS beginning in July 2024 to capture data during a typical rainy season that could not be obtained during the quarterly sampling because of drought conditions. These subsequent monthly supplemental sampling through December 2024 continued to show slightly higher PFOS and PFOA concentrations compared to the earlier findings.

Based on the analyses of quarterly UCMR5 samples and the supplemental samples through December 2024, Tampa Bay Water has identified PFOS at running annual average concentrations slightly greater than EPA's MCL at the agency's Hillsborough County Lithia and Central WTPs and equal to the EPA's MCL at the agency's delivery location to the Pasco County Lake Bridge Connection. Most recent data for January 2025 identified slightly lower but comparable PFOS and PFOA concentrations. Tampa Bay Water is nearing completion of evaluating the need for PFAS treatment of the water delivered to the Lithia and Central WTPs and Lake Bridge Connection as described in the Regional Water Quality Study discussion in this agenda item. Other PFAS running annual average concentrations at these and other agency delivery locations, which were sampled and analyzed by Tampa Bay Water, continued to be less than the EPA's MCLs or at non-detectable levels.

Monthly supplemental PFAS sampling will continue in 2025 at regional delivery locations for the Hillsborough County Lithia and Central WTPs, the Pasco County Lake Bridge Connection, and the City of Tampa Morris Bridge WTP when the City requests regional water delivery. This supplemental sampling will provide more data points for PFAS treatment decision-making. All available PFAS sampling data collected since July 2023 will be considered in PFAS conceptual treatment designs, cost estimations, and development of recommendations for treatment decision-making to be presented to the Board later this year.

In addition to PFOS, EPA established MCLs for five other PFAS. None of these five PFAS were identified by the Tampa Bay Water Laboratory at annual average concentrations greater than the EPA MCLs at regional system delivery locations or member distribution system locations during the UCMR5 quarterly sampling study and supplemental monthly sampling events to date. It is important to note the EPA MCLs for PFAS are based on running annual averages like most drinking water compliance requirements. A running annual average is calculated using drinking water quality concentrations from the most recent 12 months of analytical data.

Mosaic Lake Wales Facility

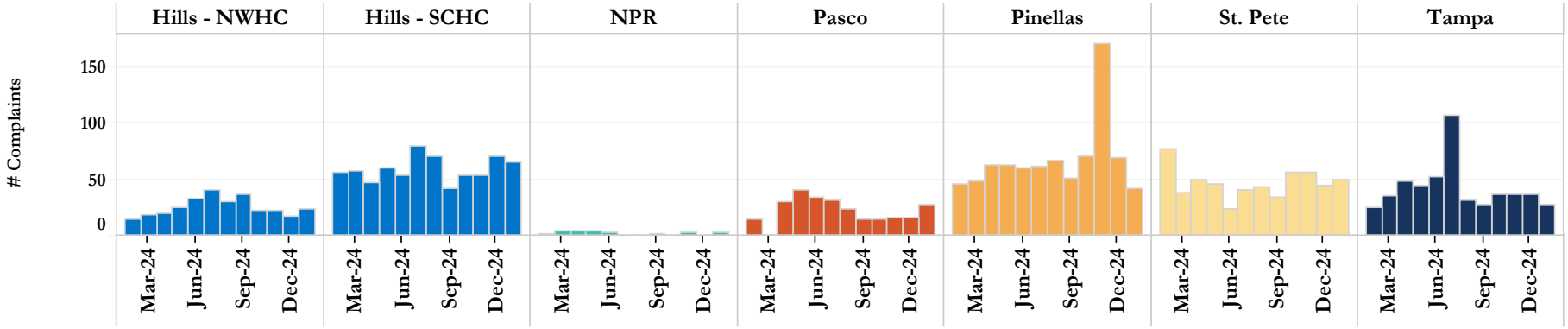
Staff continues to monitor Mosaic's ongoing grouting activities under a gypsum stack section at their Lake Wales facility in conformance with FDEP reviews and directives. This remedial work is located within the zone of capture of a continuously-operating, groundwater recovery well that is designed to keep groundwater beneath the gypsum stack on the Mosaic property. Based on this and other information provided by Mosaic to date and Tampa Bay Water staff's knowledge of the regional conditions following the gypsum stack water release at this location in August 2016, no water quality

impacts are anticipated on Tampa Bay Water supplies.

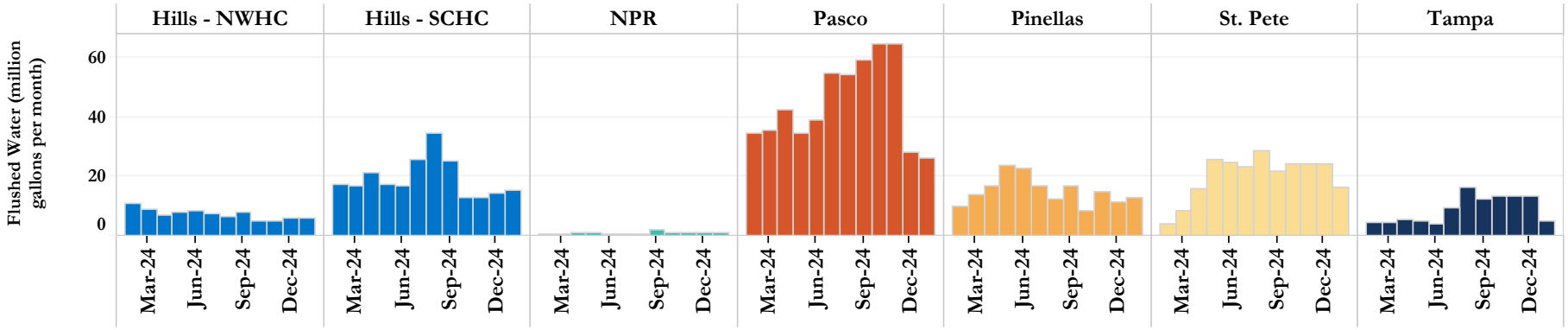
Attachments (2)

Water Quality Exhibits
Water Quality Working Group - Operations Coordination Committee - Meeting Minutes
D.3 Water Quality Update Presentation

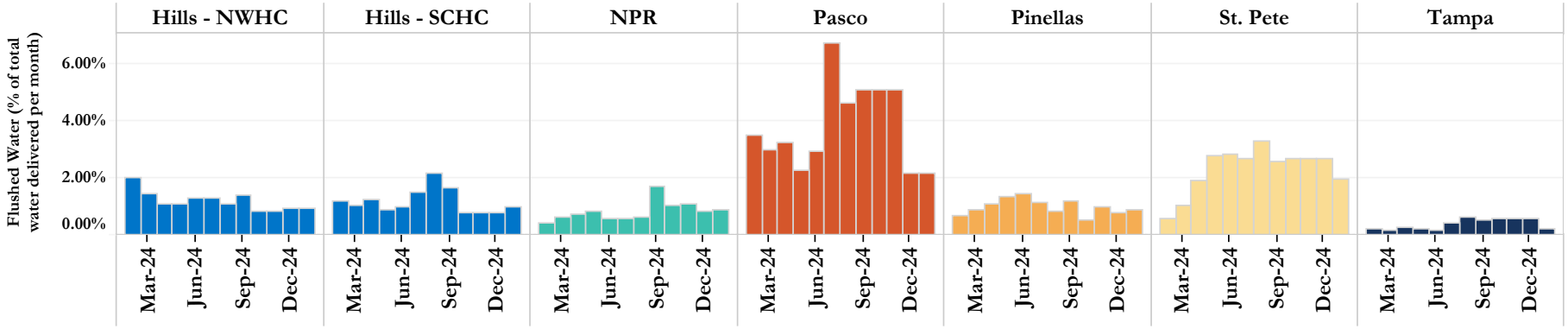
Customer Water Quality Complaints by Member Government (data not normalized for population served)



Distribution System Flushed Water (million gallons per month, data not normalized for production)



Distribution System Flushed Water (% of total water delivered per month)



* Water loss of greater than 10% on an annual basis requires a Water Audit be submitted to the Southwest Florida Water Management District.

Table 1. Customer Water Quality Complaints by Member Government
[Data not normalized for population served]

Year	Member	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024	Hills - NWHC	20	15	18	19	25	33	41	30	36	22	22	17
	Hills - SCHC	54	56	57	47	60	53	79	71	42	53	53	70
	NPR	1	1	4	4	4	2	0	0	1	0	2	0
	Pasco	28	15	0	30	41	34	31	24	15	15	16	16
	Pinellas	40	46	48	62	62	60	61	67	51	71	171	69
	St. Pete	39	77	38	50	46	24	41	43	34	56	56	44
	Tampa	28	25	35	48	45	52	107	31	27	36	36	36
2023	Hills - NWHC	22	8	19	31	13	8	18	24	22	17	20	20
	Hills - SCHC	57	67	81	96	99	90	68	71	89	77	69	39
	NPR	2	1	4	2	0	4	1	1	1	1	1	0
	Pasco	15	18	31	24	21	20	28	27	40	29	20	20
	Pinellas	40	50	44	65	69	67	97	66	54	77	37	44
	St. Pete	63	58	78	55	68	68	57	47	45	49	32	46
	Tampa	48	31	38	62	45	33	40	46	39	37	21	7
2022	Hills - NWHC	22	8	16	17	24	15	14	17	15	14	16	9
	Hills - SCHC	52	42	62	62	87	82	68	72	57	59	37	39
	NPR	3	4	3	3	3	0	2	1	1	3	0	0
	Pasco	8	25	30	28	13	20	12	18	14	20	15	12
	Pinellas	48	35	52	48	57	49	41	63	47	52	37	43
	St. Pete	37	38	53	48	42	51	55	71	67	63	59	68
	Tampa	31	38	38	43	43	0	0	0	0	0	0	0
2021	Hills - NWHC	20	17	28	31	20	27	28	23	22	28	33	27
	Hills - SCHC	48	80	90	54	196	84	51	49	98	62	63	40
	NPR	1	4	4	1	0	1	2	3	0	1	1	0
	Pasco	19	13	16	12	21	16	17	24	20	18	10	19
	Pinellas	29	54	36	65	59	51	69	74	52	68	74	77
	St. Pete	54	43	47	36	49	52	48	38	43	40	42	55
	Tampa	34	39	45	54	63	44	26	36	32	32	29	28

Table 2. Distribution System Flushed Water (million gallons per month) [Data not normalized for production]

Year	Member	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024	Hills - NWHC	8.24	10.90	8.92	6.82	8.06	8.15	7.55	6.25	7.67	4.91	4.91	5.86
	Hills - SCHC	17.85	17.05	16.74	21.00	17.24	17.01	25.67	34.50	25.30	12.80	12.80	14.45
	NPR	0.47	0.39	0.63	0.77	0.97	0.63	0.64	0.66	1.77	1.10	1.10	0.83
	Pasco	55.41	34.70	35.71	42.38	34.68	39.03	54.77	54.17	58.98	64.85	64.86	28.18
	Pinellas	14.73	9.63	13.75	16.86	23.65	22.79	16.76	12.51	16.65	8.15	14.61	11.57
	St. Pete	10.35	4.12	8.59	15.68	25.89	24.48	22.99	28.47	21.55	24.24	24.24	24.24
	Tampa	5.27	4.47	4.48	5.55	4.86	4.06	9.48	16.10	12.36	13.19	13.19	13.19
2023	Hills - NWHC	7.28	7.40	9.88	6.20	9.12	10.42	7.77	10.69	8.21	10.23	10.38	8.53
	Hills - SCHC	18.15	20.35	45.91	15.82	18.90	15.78	13.13	13.53	11.87	13.41	12.55	13.80
	NPR	1.05	0.91	0.72	0.39	0.39	0.79	0.67	0.39	0.39	0.39	0.67	0.71
	Pasco	26.12	26.06	27.25	26.51	25.26	37.55	36.30	53.67	40.62	49.95	62.71	50.84
	Pinellas	7.24	6.32	7.36	14.13	18.17	12.09	16.76	25.70	50.71	30.54	23.07	15.76
	St. Pete	14.16	13.18	21.34	8.14	17.91	24.18	20.86	19.45	21.65	23.61	31.61	29.81
	Tampa	5.75	3.43	3.69	2.57	6.94	12.09	5.56	6.66	8.30	11.80	5.00	0.08
2022	Hills - NWHC	9.03	3.30	9.04	9.60	21.61	12.16	44.41	32.55	10.01	15.53	7.13	7.40
	Hills - SCHC	25.66	14.48	14.64	26.83	26.62	31.72	17.65	26.55	27.23	21.62	25.10	20.71
	NPR	0.91	1.11	1.06	1.03	1.07	1.06	1.06	1.05	1.11	1.12	1.03	1.13
	Pasco	18.90	15.80	14.89	17.83	18.07	23.89	31.83	39.17	39.50	40.02	39.15	37.82
	Pinellas	5.78	4.85	6.61	6.96	11.57	10.30	15.76	18.09	13.07	12.01	8.25	12.82
	St. Pete	15.19	17.23	16.48	17.58	14.80	15.01	21.10	32.62	36.28	52.00	31.71	35.15
	Tampa	3.11	4.22	4.91	4.82	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	Hills - NWHC	10.67	13.14	12.83	11.23	10.61	10.25	8.10	7.58	6.13	11.84	9.26	4.93
	Hills - SCHC	15.94	22.26	16.93	14.54	7.49	14.15	22.74	17.27	14.92	12.26	29.20	14.24
	NPR	0.84	0.84	0.79	0.79	0.84	0.79	1.12	1.13	1.15	0.83	0.96	1.12
	Pasco	42.81	32.76	33.03	26.86	28.69	31.31	32.23	37.73	33.00	31.50	21.50	19.60
	Pinellas	10.50	9.30	11.90	11.90	11.90	10.40	11.10	13.01	10.62	8.20	6.37	6.56
	St. Pete	5.86	3.87	5.26	7.42	7.71	9.31	6.76	7.30	10.62	13.29	7.99	13.85
	Tampa	3.07	3.15	3.40	3.15	3.50	3.20	4.68	16.15	11.11	4.55	3.36	3.33

Table 3. Distribution System Flushed Water (% of total water delivered per month)

Year	Member	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024	Hills - NWHC	1.45%	1.99%	1.46%	1.06%	1.08%	1.27%	1.28%	1.06%	1.37%	0.85%	0.85%	0.92%
	Hills - SCHC	1.21%	1.19%	1.04%	1.24%	0.86%	0.97%	1.47%	2.14%	1.63%	0.77%	0.77%	0.79%
	NPR	0.45%	0.40%	0.59%	0.72%	0.80%	0.56%	0.59%	0.62%	1.71%	1.03%	1.08%	0.80%
	Pasco	5.35%	3.49%	2.97%	3.23%	2.24%	2.91%	6.75%	4.60%	5.07%	5.10%	5.10%	2.18%
	Pinellas	0.99%	0.68%	0.88%	1.08%	1.36%	1.44%	1.13%	0.84%	1.16%	0.53%	0.95%	0.77%
	St. Pete	1.26%	0.54%	1.02%	1.89%	2.77%	2.84%	2.68%	3.27%	2.59%	2.68%	2.68%	2.68%
	Tampa	0.20%	0.19%	0.17%	0.23%	0.18%	0.17%	0.39%	0.61%	0.50%	0.56%	0.56%	0.56%
2023	Hills - NWHC	1.17%	1.20%	1.34%	0.84%	1.22%	1.57%	1.15%	1.59%	1.24%	1.45%	1.56%	1.42%
	Hills - SCHC	1.18%	1.35%	2.44%	0.84%	0.97%	0.91%	0.73%	0.74%	0.69%	0.74%	0.73%	0.89%
	NPR	1.00%	0.91%	0.63%	0.34%	0.35%	0.76%	0.60%	0.35%	0.35%	0.29%	0.53%	0.62%
	Pasco	2.42%	2.57%	2.14%	2.06%	1.91%	3.29%	3.03%	5.05%	3.26%	3.85%	5.08%	4.36%
	Pinellas	0.49%	0.45%	0.56%	0.84%	1.10%	0.80%	1.05%	1.63%	3.27%	1.86%	1.48%	1.04%
	St. Pete	1.69%	1.70%	2.37%	0.91%	1.98%	2.84%	2.35%	2.20%	2.46%	2.61%	3.69%	3.56%
	Tampa	0.22%	0.14%	0.14%	0.10%	0.25%	0.47%	0.21%	0.26%	0.33%	0.43%	0.20%	0.00%
2022	Hills - NWHC	1.38%	0.53%	1.34%	1.41%	3.10%	1.83%	6.86%	4.92%	1.73%	2.27%	1.19%	1.16%
	Hills - SCHC	1.70%	1.02%	0.92%	1.67%	1.56%	2.58%	1.14%	1.63%	1.94%	1.29%	1.60%	1.32%
	NPR	0.86%	1.13%	0.98%	0.96%	0.92%	0.90%	0.96%	0.97%	1.09%	1.01%	0.99%	1.09%
	Pasco	1.89%	1.58%	1.31%	1.56%	1.42%	2.11%	2.86%	4.00%	4.21%	3.31%	3.68%	4.34%
	Pinellas	0.39%	0.35%	0.42%	0.46%	0.76%	0.67%	1.05%	1.20%	0.95%	0.78%	0.58%	0.88%
	St. Pete	1.87%	2.30%	1.95%	2.13%	1.68%	1.82%	2.43%	3.68%	4.44%	5.76%	3.73%	4.13%
	Tampa	0.11%	0.17%	0.16%	0.16%	0.20%							
2021	Hills - NWHC	1.66%	2.25%	1.86%	1.68%	1.26%	1.56%	1.31%	1.19%	1.03%	1.66%	1.44%	0.72%
	Hills - SCHC	1.11%	1.76%	1.06%	0.94%	0.39%	0.95%	1.59%	1.16%	1.10%	0.75%	1.98%	0.91%
	NPR	0.81%	0.88%	0.72%	0.73%	0.67%	0.73%	1.04%	1.04%	1.12%	0.76%	0.93%	1.05%
	Pasco	4.07%	3.46%	2.84%	2.40%	1.98%	2.84%	3.16%	3.70%	3.44%	2.74%	2.12%	1.78%
	Pinellas	0.71%	0.70%	0.74%	0.77%	0.67%	0.66%	0.75%	0.90%	0.78%	0.52%	0.45%	0.44%
	St. Pete	0.74%	0.54%	0.64%	0.93%	0.85%	1.13%	0.82%	0.87%	1.40%	1.64%	1.05%	1.70%
	Tampa	0.10%	0.12%	0.11%	0.10%	0.10%	0.10%	0.15%	0.53%	0.40%	0.14%	0.11%	0.11%

Table 4. Regional Total Coliform Rule Compliance (Percent Positive Samples)

Year	Member	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024	Hills - NWHC	0.00%	0.75%	0.00%	1.47%	0.00%	0.00%	0.75%	0.75%	0.75%	0.00%	0.00%	0.00%
	Hills - SCHC	0.00%	0.00%	2.56%	0.00%	0.89%	2.14%	0.88%	0.45%	0.00%	0.00%	0.00%	0.88%
	NPR	0.00%	0.00%	0.00%	0.00%	2.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Pasco	0.00%	0.00%	0.00%	0.00%	0.64%	0.64%	0.00%	1.06%	0.54%	0.54%	0.54%	0.54%
	Pinellas	0.00%	0.47%	0.00%	0.47%	0.00%	3.03%	0.00%	1.80%	0.93%	0.00%	0.00%	0.00%
	St. Pete	0.55%	0.55%	1.08%	1.08%	0.55%	0.55%	0.55%	0.55%	0.00%	0.00%	0.00%	0.00%
	Tampa	0.00%	0.00%	0.81%	0.00%	0.00%	0.00%	0.41%	0.00%	0.00%	0.80%	0.80%	0.00%
2023	Hills - NWHC	0.00%	0.00%	0.00%	0.00%	0.75%	0.00%	1.47%	0.75%	2.16%	0.00%	0.00%	0.75%
	Hills - SCHC	0.00%	0.00%	0.89%	0.00%	1.32%	0.00%	0.45%	0.45%	0.45%	1.32%	0.45%	0.89%
	NPR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.27%	0.00%	0.00%	0.00%	0.00%
	Pasco	0.64%	0.64%	0.64%	0.00%	0.64%	0.64%	0.63%	1.26%	0.64%	1.23%	0.64%	0.00%
	Pinellas	0.00%	0.00%	0.47%	0.47%	0.93%	1.80%	0.00%	0.47%	0.00%	0.48%	0.00%	0.47%
	St. Pete	0.00%	1.08%	0.55%	0.00%	0.00%	1.08%	2.56%	0.55%	0.00%	0.00%	0.55%	0.00%
	Tampa	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.20%	0.41%	0.00%	0.00%	0.00%
2022	Hills - NWHC	0.00%	0.00%	0.00%	0.00%	0.75%	0.00%	0.00%	1.47%	1.47%	1.47%	0.00%	0.00%
	Hills - SCHC	0.89%	1.32%	2.95%	0.00%	0.00%	1.75%	0.00%	1.73%	0.89%	0.00%	0.45%	0.00%
	NPR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Pasco	0.00%	0.00%	0.00%	0.00%	0.64%	0.00%	0.00%	1.85%	0.00%	2.99%	0.00%	0.00%
	Pinellas	0.00%	0.47%	0.93%	0.47%	0.00%	0.47%	0.93%	0.93%	0.47%	0.00%	0.93%	0.47%
	St. Pete	0.00%	0.55%	0.00%	0.00%	0.00%	0.00%	1.08%	1.08%	0.55%	0.00%	0.55%	0.00%
	Tampa	0.00%	0.00%	0.00%	0.00%	0.00%							
2021	Hills - NWHC	0.00%	0.00%	0.00%	1.50%	1.47%	0.75%	2.16%	0.00%	1.47%	0.00%	0.00%	0.00%
	Hills - SCHC	0.00%	0.00%	0.00%	1.73%	1.75%	0.45%	0.89%	0.00%	0.45%	1.32%	0.89%	0.89%
	NPR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Pasco	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.26%	2.42%	1.85%	0.00%	0.64%	0.00%
	Pinellas	0.47%	0.47%	0.00%	0.47%	0.00%	0.00%	1.80%	0.00%	2.22%	0.93%	0.47%	0.00%
	St. Pete	0.00%	0.55%	0.00%	0.00%	0.00%	0.00%	0.55%	0.00%	0.55%	0.00%	0.00%	1.06%
	Tampa	0.00%	0.00%	0.41%	0.00%	0.00%	0.00%	0.00%	0.81%	0.00%	0.00%	0.41%	0.00%

Meeting Minutes

Water Quality Working Group/ Operations Coordination Committee

February 13, 2025 – Microsoft Teams Meeting

HANDOUTS - sent by email prior to meeting

a. Member Government monthly data

b. February 2025 WQWG-OCC Agenda Packet

A. WATER DELIVERY

1. SYSTEM UPDATES

a. Surface Waters

i. RSWTP – Operating at 90 MG through February with supply coming from the Alafia River, Tampa Bypass Canal and the Reservoir.

ii. The Reservoir – 14.5 BG – nearly full.

iii. Desal – Currently down for maintenance, expected to return to service next week. Had been operating at about 11.5 MGD.

b. Groundwater –All wellfields are operational and available pending system demands, which have been between 180-190 MGD. Ground storage tanks inspections are underway, with three of four tanks completed.

c. Transmission Mains – good water quality continues with very low nitrites throughout the system.

2. UPDATES FROM MEMBER GOVERNMENTS

a. **Hillsborough County**

i. January 2025 TCR Reporting North Service Area – 1 TCP out of 133 samples – 0.75%

ii. January 2025 TCR Reporting South Service Area – 2 TCP out of 223 samples – 0.90%

iii. January 2025 Complaint Report North Service Area – 24 complaints: mostly pressure and color

iv. January 2025 Complaint Report South Service Area – 65 complaints: mostly color, odor and pressure

v. January 2025 Flushing Report North Service Area – 5.70 MG (0.80 MG from auto flushers)

vi. January 2025 Flushing Report South Service Area – 15.50 MG (4.80 MG from auto flushers)

vii. January 2025 Total Delivered Water Report North Service Area – 610.35 MG, 0.9 % flushed

viii. January 2025 Total Delivered Water Report South Service Area – 1,600.00 MG, 1.0% flushed

b. **City of New Port Richey**

i. January 2025 TCR Reporting – 0 TCP out of 42 samples – 0%

ii. January 2025 Complaint Report – two complaints, cloudy water

iii. January 2025 Flushing Report – 0.871 MG (0.630 MG from auto flushers)

iv. January 2025 Total Delivered Water Report – 100.05 MG, 0.87% flushed

c. **Pinellas County**

i. January 2025 TCR Reporting – 0 TCP out of 210 samples – 0%

ii. January 2025 Complaint Report – 42 complaints; mostly premise issues and rusty water

iii. January 2025 Flushing Report – 12.98 MG (7.51 MG from auto flushers)

iv. January 2025 Total Delivered Water Report – 1,453.04 MG, 0.89% flushed

d. **Pasco County**

i. January 2025 TCR Reporting – 1 TCP out of 186 samples – 0.54%

ii. January 2025 Complaint Report – 27 complaints; mostly odor and color

iii. January 2025 Flushing Report – 26.37 MG (21.95 MG from auto flushers)

iv. January 2025 Total Delivered Water Report – 1,212.50 MG, 2.17% flushed

v. Pasco plans a free chlorine maintenance event from March 10 – 28 in the north section of their distribution system.

e. **City of St. Petersburg**

i. January 2025 TCR Reporting – 0 TCP out of 180 samples – 0%

ii. January 2025 Complaint Report – 49 complaints; mostly premise issues

iii. January 2025 Flushing Report – 16.25 MG (14.97 MG from auto flushers)

iv. January 2025 Total Delivered Water Report – 822.68 MG, 1.98% flushed

f. **City of Tampa**

i. January 2025 TCR Reporting – 1 TCP out of 243 samples – 0.41%

ii. January 2025 Complaint Report – 28 complaints; mostly pressure and color

iii. January 2025 Flushing Report – 4.82 MG (3.35 MG from auto flushers)

iv. January 2025 Total Delivered Water Report – 2,409.28 MG, 0.20% flushed

v. Tampa reported over 60 boil water notices issued due to water main breaks in January.

B. WATER QUALITY MONITORING/TREATMENT

1. EXHIBIT D PERFORMANCE

- Exhibit D performance met requirements at all locations for January 2025.

2. PFAS SUPPLEMENTAL SAMPLING

a. Tampa Bay Water continues to collect monthly supplemental PFAS samples at regional delivery locations that had PFOS concentrations slightly above or near the EPA's MCL.

b. January samples were collected late in the month and results are still being processed.

c. As there are no new data to report, the RAA results below are for September 2024 through December 2024.

i. Regional water delivery to Hillsborough County's Lithia WTP – PFOS annual average concentration increased from 4.9 ppt in August 2024 to 5.8 ppt in December 2024.

ii. Regional water delivery to Hillsborough County's Central WTP – PFOS annual average concentration increased from 4.0 ppt in August 2024 to 4.4 ppt in December 2024.

iii. Regional water delivery to Pasco County's Lake Bridge Connection – PFOS annual average concentration increased from 3.7 ppt in August 2024 to 4.0 ppt in December 2024.

d. The December results show a slight increase from the August 2024 RAA, and continue to support our PFAS treatability focus on waters delivered from the Regional Surface WTP and the BUD wells.

3. **PFAS TREATABILITY AND REGIONAL WATER QUALITY STUDY UPDATE**

a. Tampa Bay Water is reviewing Carollo Engineers Regional Water Quality Study Update preliminary draft report that includes the PFAS bench top treatability studies, updated conceptual designs, estimated costs, and implementation plan recommendations.

b. Tampa Bay Water met with each member utility the week of January 21-24 to review the original Regional Water Quality Study (TOC Treatment) and discussed PFAS characterization and treatability data in a little more detail than what we do here in the WQWG meetings.

c. The draft report is expected to be distributed in early March, with follow up meetings scheduled with each member utility to review the report the week of March 10th.

d. Board action will only be requested when all members agree with the recommended treatment technologies and locations presented in the final report.

C. OTHER TOPICS

EPA is reviewing the PFAS MCLs that were promulgated in April 2024. This is being done in response to a lawsuit filed in June 2024 by the AWWA and Association of Metropolitan Water Agencies (AMWA).

a. On February 7, 2025 the D.C. Circuit Court granted EPA's petition for a 60-day stay on the litigation to allow the new administration to review and consider potential changes to the PFAS MCLs.

b. Given the ongoing legal proceedings and change in administration, it is possible EPA may revise the PFAS drinking water MCLs. The EPA's possible change in direction should be known by April 8, 2025.

c. Any changes would depend on the outcome of the legal challenges and the agency's assessment of the scientific evidence, cost analysis, and regulatory requirements.

d. At the end of the 60-day stay period April 8, 2025), the EPA's direction on the PFAS MCLs matter will likely be known.

e. Tampa Bay Water will continue to monitor these developments and provide updates at future meetings.

D. FUTURE MEETINGS

Next WQWG-OCC Meeting is online March 13th at 1:30 p.m.

WQWG-OCC February 2025 Meeting Attendees

Ray Harmon, Hillsborough County
Luke Mulford, Hillsborough County
Chris Wetz, Hillsborough County
Nick Tremblay, Hillsborough County
David Lundberg, Hillsborough County
Zemberial Strong, Hillsborough County
Greg Wikholm, City of New Port Richey
Colin Eichenmuller, New Port Richey
Paula Lashuay, City of Tampa
Karen Lewis, Pasco County
Kevin Jenkins, Pasco County
Candia Mulhern, Pasco County
Stephanie Summerbell, Pasco County
Mike Ward, Pasco County
Mike Avila, Pasco County
Antonio Alvarez, Pasco County
Bina Nayak, Pinellas County
Wendy Tifft, Pinellas County
Trevor Bridge, Pinellas County
Haxhi Muharemi, Pinellas County
Royce Rarick, Pinellas County
Clifton Long, City of St. Petersburg
Jim Kramer, City of St. Petersburg
Eric Lynch, City of St. Petersburg
Lauren Tersen, City of St. Petersburg
John Stanley, City of St. Petersburg
John Clausen, City of St. Petersburg
Evelyn Dooley, Tampa Bay Water
Jack Thornburgh, Tampa Bay Water
Mike Gilliam, Tampa Bay Water
Laila Martin, Tampa Bay Water
Steve Fleischacker, Tampa Bay Water
Stephen Cantin, Tampa Bay Wate
Phil Matthews, Tampa Bay Water
Shawn Jones, Tampa Bay Water
Chris Owen, Hazen and Sawyer
Tim Smith, Sundt

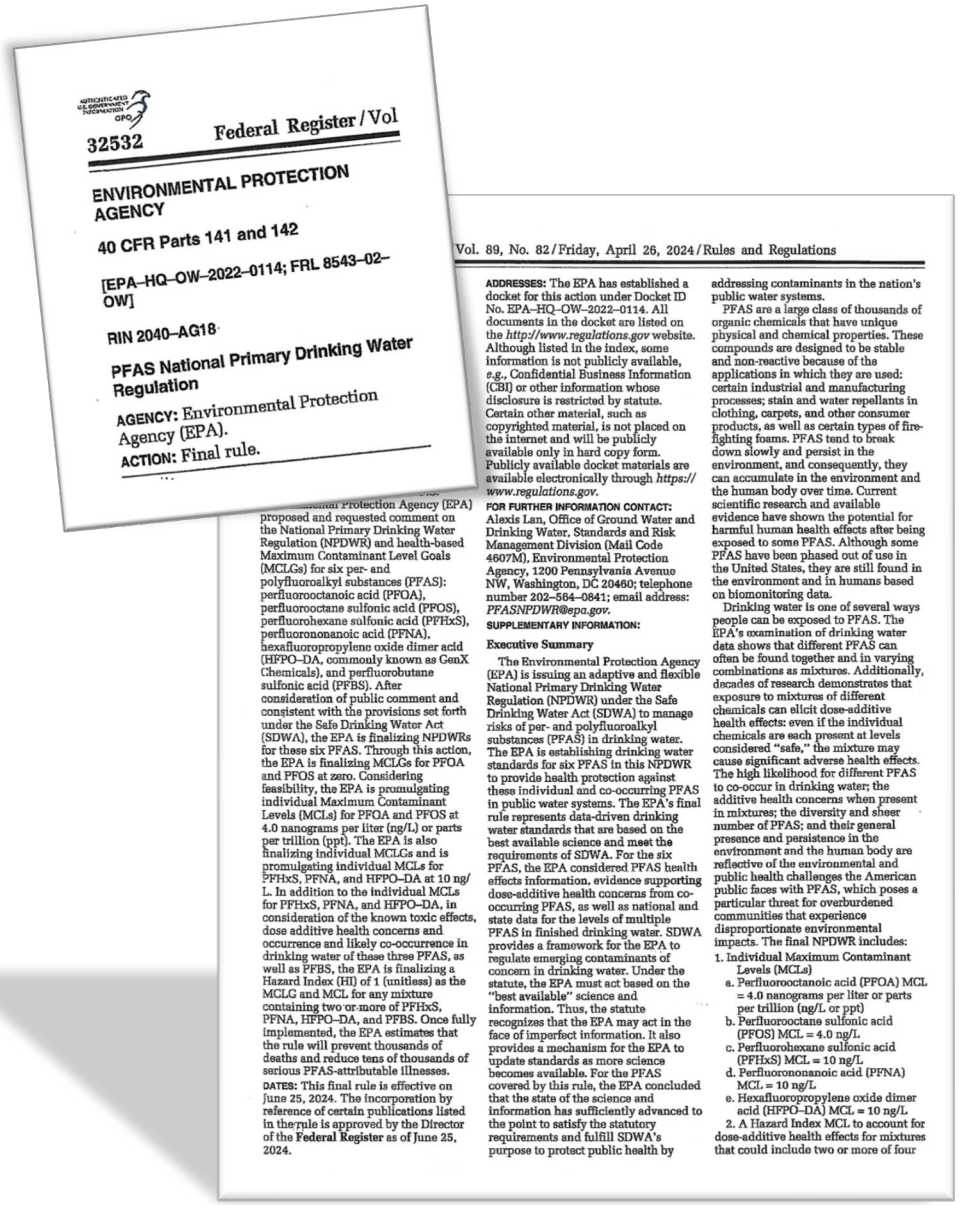
Water Quality Update

Agenda Item D.3
March 17, 2025

Stephen J. Fleischacker, P.E., BCEE
Water Quality Services Senior Manager
Tampa Bay Water

EPA's New PFAS Rule

- PFAS National Primary Drinking Water Regulations
- Finalized in April 2024
- Limits established for 6 PFAS
  - PFOS = 4.0 parts per trillion
  - PFOA = 4.0 parts per trillion
  - Others
- Compliance by April 2029



32532 Federal Register / Vol

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 141 and 142

[EPA–HQ–OW–2022–0114; FRL 8543–02–OW]

RIN 2040–AG18

PFAS National Primary Drinking Water Regulation

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

Vol. 89, No. 82 / Friday, April 26, 2024 / Rules and Regulations

ADDRESSES: The EPA has established a docket for this action under Docket ID No. EPA–HQ–OW–2022–0114. All documents in the docket are listed on the *http://www.regulations.gov* website. Although listed in the index, some information is not publicly available, *e.g.*, Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the internet and will be publicly available only in hard copy form. Publicly available docket materials are available electronically through *https://www.regulations.gov*.

FOR FURTHER INFORMATION CONTACT: Alexis Lan, Office of Ground Water and Drinking Water, Standards and Risk Management Division (Mail Code 4607M), Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington, DC 20460; telephone number 202–564–0841; email address: *PFASNPDWR@epa.gov*.

SUPPLEMENTARY INFORMATION:

Executive Summary

The Environmental Protection Agency (EPA) is issuing an adaptive and flexible National Primary Drinking Water Regulation (NPDWR) under the Safe Drinking Water Act (SDWA) to manage risks of per- and polyfluoroalkyl substances (PFAS) in drinking water. The EPA is establishing drinking water standards for six PFAS in this NPDWR to provide health protection against these individual and co-occurring PFAS in public water systems. The EPA's final rule represents data-driven drinking water standards that are based on the best available science and meet the requirements of SDWA. For the six PFAS, the EPA considered PFAS health effects information, evidence supporting dose-additive health concerns from co-occurring PFAS, as well as national and state data for the levels of multiple PFAS in finished drinking water. SDWA provides a framework for the EPA to regulate emerging contaminants of concern in drinking water. Under the statute, the EPA must act based on the "best available" science and information. Thus, the statute recognizes that the EPA may act in the face of imperfect information. It also provides a mechanism for the EPA to update standards as more science becomes available. For the PFAS covered by this rule, the EPA concluded that the state of the science and information has sufficiently advanced to the point to satisfy the statutory requirements and fulfill SDWA's purpose to protect public health by addressing contaminants in the nation's public water systems.

PFAS are a large class of thousands of organic chemicals that have unique physical and chemical properties. These compounds are designed to be stable and non-reactive because of the applications in which they are used: certain industrial and manufacturing processes; stain and water repellants in clothing, carpets, and other consumer products, as well as certain types of fire-fighting foams. PFAS tend to break down slowly and persist in the environment, and consequently, they can accumulate in the environment and the human body over time. Current scientific research and available evidence have shown the potential for harmful human health effects after being exposed to some PFAS. Although some PFAS have been phased out of use in the United States, they are still found in the environment and in humans based on biomonitoring data.

Drinking water is one of several ways people can be exposed to PFAS. The EPA's examination of drinking water data shows that different PFAS can often be found together and in varying combinations as mixtures. Additionally, decades of research demonstrates that exposure to mixtures of different chemicals can elicit dose-additive health effects: even if the individual chemicals are each present at levels considered "safe," the mixture may cause significant adverse health effects. The high likelihood for different PFAS to co-occur in drinking water; the additive health concerns when present in mixtures; the diversity and sheer number of PFAS; and their general presence and persistence in the environment and the human body are reflective of the environmental and public health challenges the American public faces with PFAS, which poses a particular threat for overburdened communities that experience disproportionate environmental impacts. The final NPDWR includes:

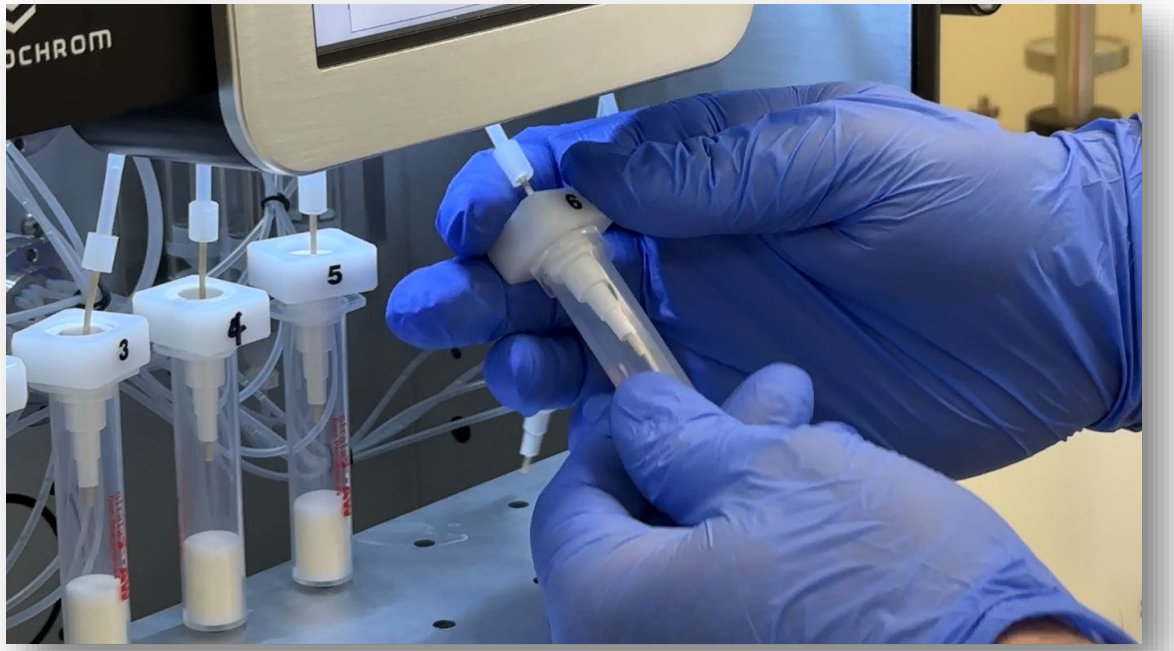
1. Individual Maximum Contaminant Levels (MCLs)
   a. Perfluorooctanoic acid (PFOA) MCL = 4.0 nanograms per liter or parts per trillion (ng/L or ppt)
   b. Perfluorooctane sulfonic acid (PFOS) MCL = 4.0 ng/L
   c. Perfluorohexane sulfonic acid (PFHxS) MCL = 10 ng/L
   d. Perfluorononanoic acid (PFNA) MCL = 10 ng/L
   e. Hexafluoropropylene oxide dimer acid (HFPO–DA) MCL = 10 ng/L
2. A Hazard Index MCL to account for dose-additive health effects for mixtures that could include two or more of four

...National Protection Agency (EPA) proposed and requested comment on the National Primary Drinking Water Regulation (NPDWR) and health-based Maximum Contaminant Level Goals (MCLGs) for six per- and polyfluoroalkyl substances (PFAS): perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), perfluorohexane sulfonic acid (PFHxS), perfluorononanoic acid (PFNA), hexafluoropropylene oxide dimer acid (HFPO–DA, commonly known as GenX Chemicals), and perfluorobutane sulfonic acid (PFBS). After consideration of public comment and consistent with the provisions set forth under the Safe Drinking Water Act (SDWA), the EPA is finalizing NPDWRs for these six PFAS. Through this action, the EPA is finalizing MCLGs for PFOA and PFOS at zero. Considering feasibility, the EPA is promulgating individual Maximum Contaminant Levels (MCLs) for PFOA and PFOS at 4.0 nanograms per liter (ng/L) or parts per trillion (ppt). The EPA is also finalizing individual MCLGs and is promulgating individual MCLs for PFHxS, PFNA, and HFPO–DA at 10 ng/L. In addition to the individual MCLs for PFHxS, PFNA, and HFPO–DA, in consideration of the known toxic effects, dose additive health concerns and occurrence and likely co-occurrence in drinking water of these three PFAS, as well as PFBS, the EPA is finalizing a Hazard Index (HI) of 1 (unitless) as the MCLG and MCL for any mixture containing two or more of PFHxS, PFNA, HFPO–DA, and PFBS. Once fully implemented, the EPA estimates that the rule will prevent thousands of deaths and reduce tens of thousands of serious PFAS-attributable illnesses.

DATES: This final rule is effective on June 25, 2024. The incorporation by reference of certain publications listed in the rule is approved by the Director of the **Federal Register** as of June 25, 2024.

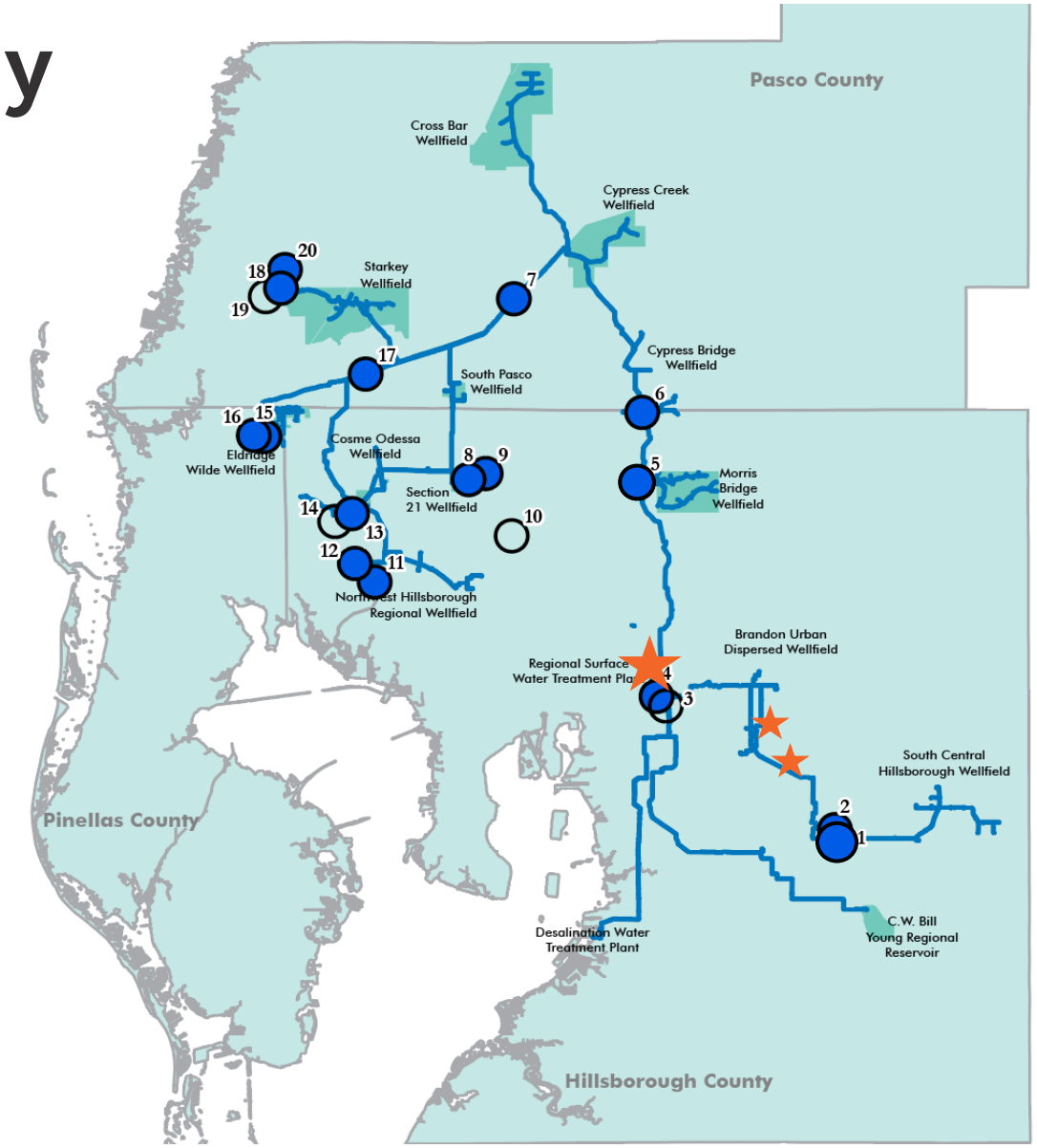
Regional PFAS Studies

- EPA study (2023-2024)
  - Quarterly samples
  - Completed April 2024
- Supplemental PFAS testing
  - Monthly samples
  - Ongoing since July 2024
- PFAS treatability studies
  - Benchtop testing
  - Completed November 2024



PFAS Treatability Study

- Reduce PFOS below 4.0 ppt
  - Regional Surface Water Treatment Plant
  - Brandon Urban Dispersed Wells Water Treatment Plants
- Treatability testing completed
  - Suspended ion exchange (SIX)
  - Granular activated carbon (GAC)
  - Fixed bed ion exchange (FBIX)



Recent Progress

January 2025

- Completed regional water quality study update recommendations
  - Concept designs
  - Cost estimates
  - Implementation priorities

February 2025

- Held technical review sessions with each member utility technical team
- Completed draft technical memorandum report

March 2025

- Distributed draft technical memorandum report to members
- Held draft “walk through” sessions with each member utility technical team

Next Steps

April 2025

- Receive draft technical memorandum report comments
- Hold a joint work session with all member technical teams, if desired

Later 2025

- Hold additional work sessions with member technical teams, if desired
- Finalize technical memorandum report
- Introduce findings and recommendations to the Board
- Seek Board authorization

TAMPA BAY WATER

Questions?

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.1

DATE: March 6, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Division Officers and Directors

SUBJECT: Agency Division Activity Reports for February 2025 - *Receive Report*

SUMMARY

The following is an update on current activities for each Tampa Bay Water Division for the months of February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

The following is an update on current activities for each Tampa Bay Water Division for the month of February 2025.

Business Strategies Division

The Business Strategies Division manages relationships that are critical to the agency's success including with staff, elected officials, member governments, stakeholders and the public. The division oversees the agency's board services, continuous improvement, human resources, legislative affairs, public engagement, safety services and strategic planning functions. The following are major division activities for February.

Continuous Improvement Department

The Continuous Improvement Department is responsible for establishing and implementing continuous improvement programs and projects for the agency and ensuring the safety and security of the agency's employees and assets.

- Business Process Improvement: Held one document writing and four editing and revision workshops for staff, three workshops with departments to identify and prioritize department business processes and processed nine controlled documents.
- Continued to collect data for the American Water Works Association 2025 Benchmarking Survey for 2025 participation; information will be used to update agency benchmarks.
- Improvement Contributors: Conducted twenty-four working group meetings to review various corrective and preventive actions, recommend efficiencies, and document improvements to agency processes.
- American Water Infrastructure Act Recertification: Held one additional workshop with agency staff to complete risk and resiliency assessments for cybersecurity.
- Emergency Management: Revised Incident Command Structure plan at Tampa Bay Water based on feedback from Consultant and Staff.

Human Resources Department

The Human Resources Department is responsible for establishing and administering human resources policies and procedures in accordance with federal, state and local laws and requirements, under the oversight and approval by the agency's general manager and board of directors. In addition, Human Resources is responsible for employee recruitment and retention, benefits administration, employee relations, training and development, employee compensation, workers compensation and oversight of the Employee Appreciation Team.

- Administration: Researched HRIS system; Reviewed and recommended changes to succession planning documentation; Reviewed current trainings for HR Compliance and researched new training for staff; Developed training for leadership meeting.
- Benefits: Completed audit with broker for insurance compliance; Assisted employees with

questions regarding insurances and FRS.
- Recruitment and Hiring: Recruited for Construction Inspector, Construction Project Manager, I&C Technician, Mechanical Technician, Utilities Project Management Manager and Utilities Sr. Project Manager; filled Mechanical Technician position.
- Employee Engagement: Held Annual Chili Cookoff and Tailgating Potluck; Held Heart Health fundraiser; Prepared for Employee Appreciation Day to be held in March.
- Training and Development: Facilitated February leadership meeting; Held training for Operations staff; Launched Q2 online component of the Leadership Development Training for water operations leaders; reviewed VYOND application for training.

Grant Funding and Government Affairs Department

Grant Funding and Government Affairs develops strategic initiatives to advocate for the agency and its members and is responsible for developing and implementing strategic positions and priorities for the Agency's legislative, grant funding and regulatory policy initiatives.

- Attended the FSAWWA bi-weekly legislative meeting to review legislation that may impact Tampa Bay Water or its member governments.
- Traveled to Tallahassee on behalf of Tampa Bay Water to meet with legislators, raise awareness of the agency's mission, and highlight the importance and impact of projects submitted for state appropriations.
- Monitored committee weeks and special sessions for potential implications for Tampa Bay Water.
- Organized and led Tampa Bay Water's bi-weekly legislative update meeting with the General Manager, Chief of Staff, General Counsel, and legislative consultants Corcoran Partners and Jones Walker.
- Submitted two appropriation requests for projects from Tampa Bay Water's CIP priority list for the 2025 Florida Legislative Session.
- Monitored and reviewed newly filed legislation for potential impacts to Tampa Bay Water.

Public Communications Department

The Public Communication Department builds and maintains the agency reputation through various communications tools and methods; provides education, information and outreach on agency projects, programs and policies to stakeholders; and develops and implements critical water supply plans.

- *Project Public Engagement*
    - **South Hillsborough Pipeline –** With Dialogue Public Relations and DJ Public Relations, conducted public meetings for residents/businesses along the pipeline route on Feb. 4, Feb. 6 and Feb. 11 and a virtual public meeting on Feb. 12. Meeting surveys, comments and summaries were compiled after each meeting and posted to the website. On Feb. 26, Tampa Bay Water sent an email to 1,140 people on the project email list informing them that the presentations and meeting summaries are available online. Tampa Bay Water conducted interviews on the project with Fox 13 News and the Tampa Bay Business Journal. The

project team continues to respond to resident inquiries and is currently scheduling meetings with HART, Brandon High School and Kingswood Elementary School to discuss construction. Additionally, the team is preparing to present to Hillsborough County Environmental Lands Acquisition and Protection Program's General Committee on March 31, 2025.

- **Long-term Master Water Plan Feasibility Studies –** With Dialogue Public Relations, prepared an informational direct mail letter and email for Eastern Pasco Wellfield Feasibility Project, which will be mailed in early March. The project team also updated the project fact sheet and frequently asked questions. The team continues to respond to resident inquiries, and on Feb. 18, met by phone with a nearby property owner. For the Surface Water Feasibility Studies, Tampa Bay Water presented to the Agency on Bay and Coastal Management's Natural Resources/ Environmental Impact Review Committee regarding upcoming feasibility studies and the utility's plans to request a modification to the Alafia River Water Use Permit. The team also reached out to Tampa Bay Watch and Tampa Bay Waterkeepers to schedule similar presentations.

- *Public Communications, Outreach and Education:* Hosted four facility tours for 35 guests of the Tampa Bay Regional Surface Water Treatment Plant, Tampa Bay Seawater Desalination Plant and the Cypress Creek Pump Station; Coordinated water quality communications with member government communications staff through monthly Water Quality Communications Working Group meetings; Supported the Tampa Bay Water Wise marketing efforts with public relations strategy to promote multi-family and school facility rebates; Held kickoff meetings with six of the seven organizations awarded mini-grants through the Water Conservation and Protection Mini grant Program; Sponsored and exhibited at the St. Pete Science Festival where over 10,000 people were in attendance; Sponsored the Tampa Bay Water Environmental Stewardship Award at the Pasco Science and Engineering Showcase; Continued implementation of marketing campaign for Tampa Bay Community Water Wise Awards; Created and executed social media content for Tampa Bay Water's 2024 Year in Review, water savings tips, the St. Pete Science Festival, Pasco Science and Engineering Showcase, Tampa Bay Water Wise rebates, agency news, careers and more; Informed and responded to news media requests regarding the Long-term Master Water Plan feasibility study projects and the South Hillsborough Pipeline; Distributed the 2024 Year in Review video; Continued creation of Tampa Bay Water's 2024 Water Quality Report.

- *Employee Communications:* Coordinated, created and distributed monthly employee newsletter; Coordinated, created and distributed digital signage content at facilities across the Agency.

Safety Services Department

Safety Services is responsible for the agency Safety and Security programs.

- Distributed Antenna System (DAS): Installation continued at Lake Bridge.
- Annual Roof/Fall Protection Inspection at Alafia Pump Station completed and passed; camera replacement project at site commenced.

- One incident investigation completed.
- Safety Technicians completed final Maximo training before taking over Emergency shower/Eye Wash station inspections in March.

Planning and Projects Division

The Planning and Projects Division is responsible for the delivery of the Agency's Capital Improvements Program including, design, permitting, and construction of capital projects. Additionally, the Division is responsible for engineering evaluations, surveying, utility conflict management, and real estate management and acquisition. The following are major division activities for February .

Division staff continues to work in the following critical projects/programs. Projects and Programs detailed reports are included in the project specific status reports in this agenda.

- Surface Water Treatment Plant Expansion (Project 01014)
- South Hillsborough Pipeline (Projects 01610/01616)
- Long-term Master Water Plan Feasibility Program and Developmental Alternative (Projects 11020/11021/112022/11025)

Construction

Construction administers capital projects construction contracts to be following the design, permitting, regulatory requirements, property rights, budget, schedule, and all related agreements.

- Construction administers capital projects construction contracts to be following the design, permitting, regulatory requirements, property rights, budget, schedule, and all related agreements.
- Tampa Bay Desalination Facility Intake Connection Improvements – Phase 2 (Project 07033): The four new pumps were set in place. The discharge piping was connected from the pumps to the new aboveground pipeline.
- Cypress Creek Water Treatment Plant Chemical Piping Replacement (Project 50051): Continued installing new underground containment pipe.
- Cypress Creek Pump Station Variable Frequency Drives (Project 50071): A preconstruction meeting was held with the contractor and stakeholders. Construction will extend through the end of 2026 due to long lead time items.
- Cypress Creek Lab Building Transformer Replacement (Project 90600): Holding meetings with the Laboratory and Operations staff to coordinate a shutdown schedule.

Engineering

Engineering conducts limited in-house design; provides capital projects project management services in as-needed basis; conducts engineering studies and assessments; manage Agency design standards and specifications; ensure that all capital projects meet Agency's engineering standards and specifications; and provides quality review of capital projects design completed by outsourced services.

- HSPS Station VFDs (Project 50070): Started preparing Request for Proposal documents with

Purchasing; waiting on a timeline.
Repump Station VFDs (Project 50084): Statement of work, schedule and cost estimates being revised. This project is a result of descoping Project 50070 and deferred for a year or two max.

- Cypress Creek Generators Study (Project 50037): A kick-off meeting was held on January 9th. Coordination with Withlacoochee River Electric Cooperative (WREC) is ongoing and a workshop is being scheduled for March.
- Arc Flash Program Standard Operating Procedure (SOP): An SOP for arc flash calculations, studies, mitigation and equipment labeling is being developed. A status meeting was held on January 28th. Final deliverables will be submitted in the coming months.
- Cosme Water Treatment Plant Yard Piping Improvements (Project 07131): Tampa Bay Water staff have gone through a Value Engineering effort in order to maintain function and lower the cost of the project. The Value Engineered plan has been priced by our As-Needed Contractor (Amici Engineering Contractors), and we intend to proceed with construction in early spring.
- Morris Bridge WF Improvements (Project 50021): Final design package submitted for review in late December. ERP permit exemption received from FDEP, and SWFWMD property coordination is ongoing.
- Source Water Quality and Business Case Evaluation (Project 11026): a Request for Proposals was advertised for professional services selection in December. Proposals due early February.

Planning and Projects

Planning & Projects manages and implements the update of the Agency's Capital Improvements Program, the Long-term Master Water Plan, and the Energy Management Program and other Agency critical plans and reports and provides capital projects project management services. They also are responsible for the development of all processes and procedures for effective project management following project management best practices.

- Capital Improvements Program Update: Currently developing the planned expenditures forecasts for projects to be included in the FYs 2026-2035 CIP Plan.
- Cypress Creek Water Treatment Plant 72-inch Valve (Project 50073): Consultant finalized Basis of Design Report and Opinion of Probable Construction Cost class 2. CMAR completed a 30% cost model, and incorporated comments received. The 60% Design ongoing and it is due mid-February 2025. FDEP permit application submitted.
- Clearwater Administration Building Parking Lot Expansion (Project 01620): The ERP modification was approved by SWFWMD which completes the design phase. As the repairs to the parking garage at the Clearwater Administration Building have been completed, a decision has been made to close the project. This project is currently scheduled to be closed at the May board meeting, pending receipt of final invoices from the design consultant.
- Cross Bar Ranch Wellfield Water Transmission Main-Utility Conflict (Project 07153): Environmental Resource Program (ERP) permit was approved at the February board meeting. ERP will be submitted on or after March 24. Coordination efforts with the Florida Department of Transportation for the easement subordination and construction cost reimbursements are ongoing.
- IT Technology Infrastructure Renewal & Replacement Program (Project 07541): Phase II of the

project is now in effect, which includes the UPS replacements at the Clearwater and Cypress Creek data centers. The UPS replacement at the Cypress Creek IEM began in February. Temporary power was installed in the server room to continue to power equipment that will not be replaced under this project. The new UPS is being installed and being hooked up to the permanent power.

- Lake Bridge Water Treatment Plant-Pump No 4 (Project 07542): Consultant has submitted the 90% phase design for Tampa Bay Water review. Consultant working towards addressing comment incorporation and completion of the 100% design.
- Surface Water Treatment Plant SCADA System Upgrades (Project 06912): Received consultant's Scope of Services for the design phase. Veolia submitted drafted Amendment 17 for Tampa Bay Water's Review. Design services, included in Amendment 17 of Veolia's contract, were approved at the February Board meeting.

Real Estate

Real Estate is responsible for the negotiation and acquisition of property rights for capital projects and supports other departments by verifying that property rights under existing agreements allow proposed projects and other activities. Additionally, it manages existing lease and license agreements, property address changes, verifies taxes due or exemption status annually, and disposes of surplus property.

- South Hillsborough Pipeline (Projects 01610/01616): Held bi-weekly meetings with property acquisition teams. Monthly property status report prepared for Board meetings.
- South Hillsborough Wellfield continued negotiations for agreements with both Hillsborough County ELAPP and Water Resources Department for staging area, well sites and coordination with survey for sketch & descriptions on ELAPP side.
- License Agreement being prepared for environmental permits at TECO Big Bend Facility.
- T-Mobile terminated lease on Northwest Hillsborough Well No. 6. Cell tower removal being coordinated with Legal counsel.

Surveying

Surveying manages the utility conflicts and cathodic protection programs; manages and conducts surveys; manages and maintain record drawings; and maintain and develop computer-aided design (CAD) and geospatial data for the Agency. They also assist with engineering, construction, real estate, and geographic information systems (GIS) activities.

- Agency's Utility Conflicts Program: Ongoing documentation and responses to utility conflicts and creation of new processes meeting Sunshine 811 documentation, guidelines, and software, Florida laws, and coordination with internal and external stakeholders.
- Cypress Creek Transmission Main Review and Impacts: Consolidation of multiple utility conflicts along the Cypress Creek Transmission Main corridor with impact reviews and tasks including surveys of easements, fee simple property, and infrastructure.
- Cypress Bridge Transmission Main: Locating and gathering an inventory of appurtenances to be surveyed from Cypress Creek Pump Station to Cypress Bridge Well 2.

Finance and Administration Division Activity Report

The Finance and Administration Division is responsible for finances, procurement, inventory, risk and vital records. Departments include Finance, Purchasing and Warehouse and Records. The following are major division activities for February .

Finance

Finance manages the budget, payroll, account payables and receivables, capital assets, cash and investments, debt management and financial compliance for the Agency. They also assist with the training and maintenance of the accounting software, Munis.

- Continued working on the fiscal year 2026 budget.
- Completed the fiscal year 2024 annual financial report and submitted it to Department of Financial Services.
- Started working on the fiscal year 2024 popular annual financial report.

Purchasing and Warehouse

Purchasing issues, processes and administers the appropriate solicitations and ensures that all procurement activities are conducted in compliance with statutes, policies and provides best value solutions for the Agency. They also are responsible for the management and accountability of the agency's warehouse and inventory items.

- Purchasing Specialist II attended NIGP Leadership Summit in Chicago, IL
- Purchasing & Warehouse received the Florida Association of Public Procurement Officials Achievement of Excellence in Procurement award.

Administrative Services

Management of board services, including overseeing the monthly board agenda process, legal liaison services that include coordinating activities between staff and general counsel, and management of the agency liability insurance and records programs.

- Participation in committee meetings for writing multiple vehicle policies.
- Review of records warehouse for boxes meeting disposition and overall reorganization of box locations.
- Participation in identification of business processes for the Records department for documenting policies, procedures and/or processes.

Information Technology Department

The Information Technology (IT) department supports Tampa Bay Water's computer, communications, and data systems. IT staff design, build, support, manage, procure, and maintain various technology systems to ensure the ability for staff to accomplish their key objectives and optimize productivity. The

group is responsible for the management and security of the Agency's data, electronic information, and network systems. The department is composed of three core cross-functional teams: Applications, Systems, and SCADA (Supervisory and Control and Data Acquisition). The following are major department activities for February .

Applications

The Applications team supports data and software systems built within various technologies. This includes development, maintenance, and procurement for custom applications, databases and flows, and third-party software including GIS systems.

- Completed scope development for next phase of Data Management Strategy. Project schedule under development
- Began planning activities for replacement of end-of-life GIS software.
- Long Term Deman Forecast System - Completed planned tasks supporting execution of 2025 system run.
- Integrated Hydrological Model – completed enhancements as per project plan.
- Completed special data requests at the request of Continuous Improvement
- Worked with SWFWMD to resolve issues with their new Application Programming Interface (API) used for data reporting.
- Completed project tasks for GIS / Maximo Integration project.
- Attended Asset Management assessment workshops, providing technical input about the agency's asset management system.
- Provided support for modifications to agency's Performance Dashboard

Systems

The Systems team manages Agency's enterprise technology infrastructure encompassing: PCs, computer peripherals, servers, networks, data centers, cloud environments, and telecommunication systems. The team also oversees cybersecurity systems, polices, risk assessments, and vulnerability scanning, including ongoing system patching and backups.

- The Network Uplift project has completed the first phase, physical site surveys. The 2nd phase has begun and detailed network information is being collected. Data collection will run through March and provide input to our future state network architecture.
- The Uninterruptible Power Supply replacement project at our primary data center is underway and planned completion in early March.
- Design for enhanced wireless network security was completed.
- Completed deployment of security video monitoring application for water plant operators at our control centers, enabling addition visibility for operator using agency security cameras.
- Completed significant updates to core network equipment at Clearwater Administration Building.

SCADA

The SCADA (Supervisory and Control and Data Acquisition) system is a mission critical component of Tampa Bay Water managing and monitoring water production facilities both physically and wirelessly connected. The team is responsible for the ongoing development, maintenance, and security of the SCADA system, including managing dedicated hardware, software, networks, and telecommunications.

- Continued development of enhancements for alarm management in the SCADA system.
- Met with cellular communications provider to review updated service offerings that may benefit the agency. Additional information requested and analysis underway.
- Completed multiple modifications and enhancements to SCADA database and graphics at the request of Operations and Maintenance.
- Continued SCADA application software testing in the test environment in preparation for a production upgrade.
- Completed end of life workstation replacement to support SCADA display wall display.
- Provided on-site support for New Port Richey Well 5 addition and made the necessary changes in the SCADA system.
- Completed additional data integrations with our Cybersecurity Operations Center. Increasing visibility and enhancing the monitoring capability of the Cybersecurity Operations Center.
- Participated in the AWIA Cyber Assessment
- Completed additional cellular communication connectivity install at the Eldridge wellfield

Science Division

The Science Division provides water resource technical support for planning, operations, demand management, water quality and regulatory functions of the Agency. The following are major department activities for February 2025.

Systems Decision Support

Addresses the Agency's system-wide decision support needs on a multi-scale time horizon; designs, implements, and maintains water resources optimization tools, integrated hydrological models, risk and reliability analysis tools, water demand management and forecasting programs and models all in support of operational, annual budgeting and long-range planning needs; leads the Agency's effort in climate variability and climate change assessment and adaptation.

- Master Water Supply Modeling: Completed the 35-year daily rainfall stochastic simulation using 1000 rainfall realizations; generation of the 15-minute rainfall data is complete. Staff are conducting a QA/QC review of the data which is needed to support the Master Water Planning modeling projects.
- Integrated Northern Tampa Bay Model: Updating input data sets for the regional groundwater/surface water flow model used in many agency modeling analyses. These data sets include land use changes, evapotranspiration, and pumping of irrigation wells. Staff continue the evaluation of the updated flow and rainfall data (1989-2019) for the INTB gauged river basins to

understand the potential impact of land use changes on streamflow.
- Completed meetings with member government utility directors and staff to present annual demand forecast update results. The budgeted water delivery projection for Fiscal Year 2026 is in alignment with member governments expectations.

Tampa Bay Water Wise

Tampa Bay Water Wise is the agency's water conservation rebate program. The goal is to save up to 3.8 million gallons per day by 2030 and cost-effectively defer the need for equivalent new water supplies.

- The program has saved 754,816 gallons per day from the installation of 27,906 rebated devices between program launch in March 2020 and February 20, 2025. This fiscal year, since October 1, 2024, the program has saved 60,321 gallons per day.
- The working group recently approved a new residential irrigation rebate pilot program to help homeowners save water outdoors. The pilot program will last through this fiscal year and is designed to provide staff with information about the rebate effectiveness so it can be optimized before moving into full implementation.
- The agency will issue a Request for Proposals for the Third-Party Rebate Administrator in March 2025 to solicit proposals from vendors to manage the rebate administration and marketing of the program. Agency staff will seek board approval for the successful bidder's contract before the end of this fiscal year.

Permitting

The Water Use Permitting Department is responsible for the acquisition and renewal of, and compliance with, Agency Water Use Permits including implementation of the Domestic Well Mitigation Program and environmental/hydrologic/hydrobiologic monitoring. Work also includes monitoring and management of wetland impacts associated with construction and/or past operation of Agency facilities and infrastructure and management of lands owned by the Agency to maintain an appropriate natural habitat.

- Completing an updated environmental recovery analysis for the Consolidated Permit wellfields using environmental data through 2023 to support a potential increase to the Consolidated Water Use Permit.
- East Pasco Wellfield Feasibility Study – Supported project team with the test well site permitting and final review of Aquifer Performance Testing Plan.
- Balm Farm Water Use Permit: The Board approved an application at the January meeting for a second permit modification to increase the permit quantity through the transfer of additional groundwater credits from five permits in south Hillsborough County. Coordinating with doner permit holders to simultaneously submit permit applications.
- South-Central Hillsborough Regional Wellfield Water Use Permit: The Board approved an application at the January meeting to increase the permit quantity through the transfer of groundwater credits from two water use permits. Coordinating with doner permit holders to simultaneously submit permit applications.

- Continued preparation of annual compliance reports for 17 agency water use permits.

Environmental/Hydrologic Monitoring

- Continued trail clearing following the 2024 hurricanes using landscape and tree removal contractors. Starkey and Cypress Creek wellfield trails cleared of hurricane tree fall.
- Begin semi-annual rain gauge calibration.
- Developed environmental site augmentation dashboard to check the status of wetland and lake augmentation systems.

Water Quality Services

Water Quality Services is responsible for laboratory testing, water quality compliance reporting, environmental/hydrologic monitoring, source water assessment and protection, and water quality treatment support to operations.

Laboratory

- Completed analytical compliance sampling for monthly drinking water quality samples collected in January 2025, per Exhibit D and state/federal requirements.
- Completed sampling for PFAS in January 2025 at select regional delivery locations, from the Brandon Urban Dispersed Wells, and obtained samples from Hillsborough County for select distribution system entry points for PFAS analyses.
- Continued work on adapting the new Ion Chromatography Mass Spectrometry (IC-MS) instrument to the Windows 11 environment. This IC-MS instrument will be used for monitoring of disinfection byproducts and constituents of emerging concern.
- Laboratory Manager continued cross training senior scientists on quality control tasks to expand data quality reviews in response to increased sampling and analytical workloads.
- Continued work on updating Laboratory Standard Operating Procedures (SOPs) in multiple Laboratory Department Sections.

Source Water Assessment and Protection

- Completed S::CAN advanced water quality instrumentation installation on the Tampa Bypass Canal (TBC) middle and lower pool intakes to provide continuous water quality data to assist in source water selection and improve treatment efficiency at the Regional Surface Water Treatment Plant. Water Production staff now has real-time water quality data available for source water selection/daily operational decision-making. This real-time data will be integrated with the agency's existing Aquarius data platform for longer-term water quality trend analyses.
- The Alafia Mined Lands project is partially funded by the Tampa Bay Estuary Program (TBEP) and the final GIS deliverables and a draft report of findings and recommendations were provided to them for review. TBEP comments were received and are being used to revise the draft report. A final report will be issued upon incorporating their review comments. TBEP will lead future efforts to implement recommendations from the Alafia Mined Lands project final report.

- Replaced data logger equipment on the North Prong Alafia Station, which was damaged during Hurricane Milton. Site data collection has been restored.
- Initiating a project to evaluate options for improving yield reliability of the Regional Surface Water Treatment Plant and surface water supplies under extreme water quality event conditions.

Water Quality Support

- Facilitated the Water Quality Working Group meeting with members on February 13, 2025.
- Completed a review of post-UCMR5/PFAS monthly analytical data collected from agency sampling locations in January 2025.
- Staff reviewed the Carollo Engineers draft technical memorandum report that updated their Regional Water Quality Study (RWQS) concept designs, estimated costs, and implementation plan recommendations based on PFAS bench-scale treatability studies. Carollo Engineers issued a revised draft RWQS Update technical memorandum report on February 28, 2025 that will be reviewed and subsequently shared with member government staffs. Staff is scheduled to meet with member government staffs and walk through the draft RWQS Update during the week of March 10, 2025.
- Completed/submitted the Consumer Confidence Report (CCR) draft data tables to the Florida Department of Environmental Protection (DEP) for their initial review on January 27, 2025. These data tables were approved by DEP and distributed to member utilities to prepare their CCRs on February 19, 2025. The agency's CCR text is currently being prepared and the report will be issued in March 2025.
- Prepared the agency's response to the DEP supplemental information request regarding the Lead Service Line Inventory submittal for the water distribution system serving the Cypress Creek campus. The supplement was submitted on February 11, 2025.

Water Production Division

The Water Production Division is responsible for the operation and maintenance of the agency's water production assets that provide drinking water to the members. Departments within the division include: Buildings & Grounds and Fleet Services, Maintenance Planning & Reliability, and Operations & Maintenance. The following are major division activities and highlights for the month.

- Provided drinking water to meet member government demands in compliance with Exhibit D and Safe Drinking Water Act water quality standards.
- Provided support for the Surface Water Treatment Plant Expansion project and several other active CIP projects.

Buildings & Grounds and Fleet Services

The Buildings & Grounds and Fleet Services team is responsible for maintaining the primary physical plants of each facility, including HVAC systems, roadways, fire safety systems, and roofing and coating systems. The team also takes care of the acquisition and maintenance of fleet vehicles for the entire agency. Highlights from the Buildings, Grounds, and Fleet Services team for the month include:

- Overlayed pavement on 2 miles of the Reservoir Toe Road.
- Cleared additional downed trees in the Eldridge Wilde, Cypress Bridge, Cypress Creek, and Morris Bridge Wellfields.
- Prepared Specs for As Needed Large Pipeline and As Needed Civil Contractor Bidding, delivered to Purchasing for incorporation into the bidding documents.
- As part of a team, replacing the Server UPS Unit at the IEM Building in Cypress Creek due to age, utilizing an as-needed Electrical Contractor.
- Beginning asphalt and concrete repairs at the Clearwater Office Building caused by both age-related issues and by heavy equipment that responded to the parking garage accident in 2021.
- As part of a team, started construction on a job replacing an existing power company-owned 150KVA transformer at the CCPS Lab with a new power feed and transformer that will now be fed from on-site Tampa Bay Water generation assets.

Maintenance Planning & Reliability

The Maintenance Planning & Reliability team is responsible for overseeing the Agency's Asset Management System, including the MAXIMO software and the Renewal and Replacement Program. Highlights from the Maintenance Planning & Reliability team for the month include:

- Asset Labeling – labeling South Central Hillsborough wellfield.
- Asset Tags – prepping files to print 614 tags, printing next month. Created 10 new assets.
- 4 new jobplans created. 3 PM's modified.
- MAXIMO / GIS Integration – Configuration data in final stages.
- EZMAXMobile vendor continuing to program capabilities for offline Operator Logs.

Operations & Maintenance

The Operations & Maintenance team is responsible for ensuring that the Agency's production assets are maintained and operated in a sustainable and resilient manner to fulfill the drinking water needs of the member governments. They provide continuous attention to the system, adjusting to changing conditions and in compliance with permit and environmental recovery constraints. Highlights from the Operations & Maintenance team for the month include:

- The Surface Water Treatment Plant produced an average of 90.00 million gallons per day.
- The Seawater Desalination Facility produced an average of 9.03 million gallons per day.
- As of the end of February 2025, the level in the regional reservoir is 135.98 feet, corresponding to 15.11 billion gallons of storage.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.2

DATE: March 3, 2025

TO: Board of Directors

FROM: Kelly M. Fernandez, General Counsel

SUBJECT: Legal Services Activity Report for February 2025 - *Receive Report*

SUMMARY

The General Counsel Activity Report summarizes the major activities and work effort of the General Counsel and provides an update on the status of ongoing litigation and any other matters being handled by Special Counsel.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

Uniform Rate

DISCUSSION

The General Counsel's Office provides legal services to the Board and agency staff and manages Special Counsel in their representation of Tampa Bay Water. During February 2025, the major activities and work effort for legal services included:

Board of Directors

- Attended the February regular Board meeting and advance briefings with Board members.

Facilities and Property

- Assisted with property acquisition and easement matters related to the South Hillsborough Pipeline project.
- Closed out the final issues related to the Enterprise Road parking garage dispute.

Contracts and Procurement

- Reviewed contracts and contract amendments for commodities, construction, grants, and professional services.
- Continued coordinating with staff on a review and update of procurement forms and procedures.
- Continued work with staff and consultants on contract amendments and documents for Surface Water Treatment Plant Expansion and South Hillsborough Pipeline projects including owner-direct purchases for certain materials and equipment.
- Worked with staff and special counsel on additional reimbursement requests to the surety pertaining to the original contractor's work on the Eldridge-Wilde Wellfield Pumps & Motors Replacement and Underground Powerline Project.

Coordination with Agency Management

- Participated in weekly meetings with the General Manager and Executive Team.
- Continued reviewing and discussing with staff the City of Tampa's water use permit renewal.

Legislative and Grant Funding

- Reviewed initial legislative report and bills of interest.
- Attended legislative team meetings.

Litigation

Tampa Bay Water v. E.I. Dupont de Nemours and Company, et al. Case No. 2:20-cv-1867 RMG, United States District Court for the District of South Carolina, Charleston Division

Counsel: Frazer PLC, Napoli Shkolnik, PLLC, Ventura Law, and Frank Charles Miranda, P.A.

Issue: Complaint for damages pertaining to PFAS and related compounds including counts for strict liability, failure to warn, design defect, negligence, private nuisance, public nuisance, and fraudulent conveyance.

Status: Complaint filed May 14, 2020. Litigation sampling performed and results posted to agency website in April 2023. Submitted agency's supplemental response to fact sheet in August 2023. Judge Gergel issued a Final Approval Order and Judgment for the DuPont settlement on February 26, 2024. On March 29, 2024, a Final Approval Order and Judgment for the 3M settlement was entered. On July 25, 2024, Tampa Bay Water filed its claims for the DuPont and 3M settlements with the assistance of

special counsel for Tampa Bay Water. On August 26, 2024, Tampa Bay Water filed a special needs claim with the assistance of special counsel. During the summer of 2024, settlements were reached with TYCO/Chemguard ($750 million) and BASF ($312,500 million). Claims for these settlements are due April 8, 2025. Agreements have also been reached in the Kidde-Fenwal bankruptcy case, which if approved through both the bankruptcy court and this class action case, will result in $129.2 million to be distributed to the water provider litigations. Claims against other defendants remain pending. The Claims Administrator will begin allocating compensation to all eligible class members once the claims review period has concluded for each settlement. Tampa Bay Water has thus far been awarded approximately 181 million points in both the 3M and Dupont settlements, with the final allocation and monetary award determination anticipated in the early spring.

WPC Industrial Contractors, LLC and Randall Environmental, Inc. v. Tampa Bay Water
Case No. 24-5494-CI, Circuit Court for Pinellas County, Florida

Counsel: GrayRobinson, P.A.

Issue: Complaint for damages alleging Tampa Bay Water breached its contract with WPC Industrial Contractors, LLC and Randall Environmental, Inc. for the Eldridge-Wilde Wellfield Pumps and Motors Replacement Project and the Cypress Trails Property Improvements Project.

Status: Complaint filed in Hillsborough County on October 29, 2024. Motion to Dismiss filed by Tampa Bay Water on November 21, 2024 due to improper venue (Hillsborough County instead of Pinellas County as required by the contract). The case was transferred to Pinellas County on December 19, 2024. An Answer and Affirmative Defenses was filed on behalf of Tampa Bay Water on January 14, 2025. The Board approved the filing of a counterclaim at its January 2025 meeting, and it was filed on February 4, 2025. The Plaintiffs filed a Motion for Leave to File Amended Complaint on February 25, 2025.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.3

DATE: March 3, 2025

TO: Board of Directors

FROM: Kelly M. Fernandez, General Counsel

SUBJECT: Legal Services Budget Report through February 2025 - *Receive Report*

SUMMARY

This item presents the status of the budget for the General Counsel and legal services paid in February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

Uniform Rate/Bond Funds

DISCUSSION

Legal expenditures paid in February 2025 total $25,990.50. These expenditures were associated with general operations activities and appropriately paid for from the uniform rate. In February there were expenditures in the amount of $20,936.90 paid from bond funds for legal services for the South Hillsborough Pipeline. Attached is a spreadsheet showing payments made to each law firm.

Attachments (1)

Legal Expenses_Feb

STATUS OF FY 2025 LEGAL BUDGET - AS OF FEBRUARY 28, 2025							
Law Firm	**Task**	**PO#**	**PO DATE**	**PO Amount**	**Monthly Expenses**	**Expend to Date**	**Remaining PO Balance**
UNIFROM RATE FUNDS							
BUSH GRAZIANO RICE	Employment Law	20250092	10/1/2024	$25,000.00	$382.50	$2,007.40	$22,992.60
BUENAVENTURA LAW	Special Counsel Services	20250372	1/8/2025	$20,000.00	$319.00	$319.00	$19,681.00
GRAY ROBINSON	Admin, Construction, Contracts, Civil Claims, Property, etc.	20250054	10/1/2024	$25,000.00	$291.50	$1,536.50	$23,463.50
NABORS, GIBLIN & NICKERSON	Admin, Construction, Contracts, Civil Claims, Property, etc.	20250019	10/1/2024	$25,000.00	$247.50	$1,809.10	$23,190.90
PERSSON, COHEN, MOONEY,FERNANDEZ	General Counsel Services	20250093	10/1/2024	$136,125.00	$24,750.00	$99,030.45	$37,094.55
UNIFORM RATE TOTALS				**$231,125.00**	**$25,990.50**	**$104,702.45**	**$126,422.55**
BOND FUNDS							
GRAY ROBINSON	Property Acquisition and Eminent Domain	20230399	10/3/2023	$350,000.00	$14,415.00	$160,306.87	$189,693.13
BUENAVENTURA LAW	Property Acquisition and Eminent Domain	20250373	10/1/2024	$75,000.00	$6,521.90	$25,346.08	$49,653.92

Uniform Rate Runds: Total Budget $725,000 Allocted Funds $231,125 Unallocated Funds $493,875
Bond Funds: Total Budget $400,000 Allocted Funds $400,000 Unallocated Funds 0

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.4

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Comprehensive Check List with Delegated Check Approval Items for February 2025 - *Receive Report*

SUMMARY

Attached is a list of all checks and wire transfers written for the month of February 2025. Additional information is provided for checks over $50,000 and for delegated approval items.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

The attached report lists all checks and wire transfers which have been written during the month of February 2025. To provide the Board additional information, a description is included for all delegated approval item payments. Delegated approval items were authorized by the General Manager under his delegated approval authority and are marked “Delegated Approval”.

Items with delegated approval are generally items such as payroll taxes, Florida Retirement System, utilities, and so forth, which are approved by the board in the budget process but for which there is not a

specific approved contract or agenda item.

By policy, the General Manager is authorized to approve all expenditures of $100,000 or less. All contractual obligations or purchase orders issued in excess of $100,000 are approved by the Board through the contract approval, agenda approval, or budget approval processes. The comprehensive check list includes a description for all payments over $50,000 and identifies those items previously approved by the board with “Receive”.

Attachments (1)

2025 FEB CHECK REGISTER

TAMPA BAY WATER

CHECK REGISTER - FEB 2025

CHECK#	CHECK DATE	VENDOR NAME	CHECK AMOUNT	DESCRIPTION	APPROVE/RECEIVE
635498	02/05/2025	AIR MECHANICAL & SERVICE CORP.	7,645.19		
635499	02/05/2025	AIRGAS USA, LLC	63,837.14	CHEMICAL - CARBON DIOXIDE	RECEIVE
635500	02/05/2025	AIRGAS SPECIALTY PRODUCTS, INC.	8,331.13		
635501	02/05/2025	ALLIED UNIVERSAL CORPORATION	45,150.56		
635502	02/05/2025	AUTOMATIONDIRECT.COM, INC.	1,556.00		
635503	02/05/2025	AUTOZONE PARTS, INC.	50.98		
635504	02/05/2025	BLACK & VEATCH CORPORATION	60,764.25	ENG PROJ SHP IPM WORK	RECEIVE
635505	**02/05/2025**	**BRIGHT HOUSE NETWORKS LLC**	**1,274.54**	**UTILITIES - INTERNET**	**DELEGATED APPROVAL**
635506	02/05/2025	AARON CARTER	200.00		
635507	02/05/2025	CDW LLC	25,915.16		
635508	02/05/2025	CLASSIC CONTROLS INC	9,088.85		
635509	**02/05/2025**	**CITY OF CLEARWATER UTILITIES**	**2,757.05**	**UTILITY PAYMENT**	**DELEGATED APPROVAL**
635510	02/05/2025	CUMBEY & FAIR, INC.	22,368.00		
635511	**02/05/2025**	**DUKE ENERGY CORPORATION**	**56,034.94**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635512	02/05/2025	FEDERAL EXPRESS CORPORATION	66.73		
635513	**02/05/2025**	**FRONTIER COMMUNICATIONS**	**308.59**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635514	**02/05/2025**	**FRONTIER COMMUNICATIONS**	**362.29**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635515	**02/05/2025**	**FRONTIER COMMUNICATIONS**	**130.98**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635516	02/05/2025	JEFF GEURINK	401.00		
635517	02/05/2025	GINGER MILLS	1,190.00		
635518	02/05/2025	GSI ENVIRONMENTAL, INC.	838.43		
635519	02/05/2025	GUIDEPOINT SECURITY LLC	8,705.93		
635520	02/05/2025	HAWKINS, INC.	3,103.25		
635521	02/05/2025	HAYS HOLDING CORPORATION	10,224.57		
635522	02/05/2025	ARROW EXTERMINATORS	128.82		
635523	02/05/2025	KLEAR WATER STORE	840.50		
635524	02/05/2025	LHOIST NORTH AMERICA OF ALABAMA, LLC	22,547.31		
635525	02/05/2025	MATHESON TRI-GAS INC.	20,505.57		
635526	02/05/2025	MAULDIN & JENKINS, LLC	35,300.00		
635527	**02/05/2025**	**MICHIGAN STATE DISBURSEMENT UNIT**	**368.51**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635528	02/05/2025	MILLER BUILDING & REPAIR SERVICES, INC.	5,990.00		
635529	02/05/2025	BRIAN NAEYAERT	200.00		
635530	02/05/2025	NEWARK CORPORATION	3,752.78		
635531	02/05/2025	ODYSSEY MANUFACTURING COMPANY	36,702.40		
635532	02/05/2025	PAFF TREE SERVICE, LLC	31,779.00		
635533	02/05/2025	PIPER FIRE PROTECTION, INC.	429.50		
635534	02/05/2025	QUEST ECOLOGY INC	1,320.00		
635535	02/05/2025	REXEL USA, INC.	5,277.62		

TAMPA BAY WATER

CHECK REGISTER - FEB 2025

CHECK#	CHECK DATE	VENDOR NAME	CHECK AMOUNT	DESCRIPTION	APPROVE/RECEIVE
635536	02/05/2025	RICOH USA, INC.	9.90		
635537	02/05/2025	RING POWER CORPORATION	890.01		
635538	02/05/2025	ROYAL RESTORATION LLC	7,336.35		
635539	02/05/2025	SHI INTERNATIONAL CORP	16,133.19		
635540	02/05/2025	SMITH INDUSTRIES INC	1,203.00		
635541	02/05/2025	STANTEC CONSULTING SERVICES, INC.	287,466.00	SHP SEGMENT B ENG PROJ	RECEIVE
635542	**02/05/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**346.15**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635543	**02/05/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**194.28**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635544	**02/05/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**466.79**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635545	02/05/2025	MICHELLE STOM	230.88		
635546	02/05/2025	TAMCO ELECTRIC INC	42,777.00		
635547	**02/05/2025**	**TAMPA ELECTRIC CO**	**976,388.14**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635548	**02/05/2025**	**TAMPA ELECTRIC CO**	**37,530.61**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635549	**02/05/2025**	**TAMPA ELECTRIC CO**	**510.38**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635550	02/05/2025	TK ELEVATOR CORPORATION	1,310.71		
635551	02/05/2025	TYLER TECHNOLOGIES, INC.	800.00		
635552	02/05/2025	U.S. DEPARTMENT OF TREASURY	164.08		
635553	02/05/2025	UNIFIRST CORPORATION	216.40		
635554	02/05/2025	UNIVERSITY OF FLORIDA	12,500.00		
635555	02/05/2025	UNIVERSITY OF CENTRAL FLORIDA	5,089.33		
635556	02/05/2025	V&A CONSULTING ENGINEERING, INC.	9,304.50		
635557	02/05/2025	VEOLIA WATER NORTH AMERICA	937,176.22	SWTP EXPANSION PROJ	RECEIVE
635558	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**3,169.24**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635559	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**8,986.35**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635560	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**12.60**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635561	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**2,493.27**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635562	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**4,126.97**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635563	**02/05/2025**	**VERIZON WIRELESS COMMUNICATIONS LLC**	**9,057.60**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635564	02/05/2025	W W GRAINGER INC	1,118.96		
635565	02/05/2025	WADE-TRIM INC	458,441.70	SO HILLBR POPELINE PROJ	RECEIVE
635566	**02/05/2025**	**WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC.**	**58,518.95**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635567	02/05/2025	XTREMELY CLEAN JANITORIAL SERVICES, LLC.	18,198.51		
WIRE	**02/06/2025**	**FLORIDA DIV OF RETIREMENT CASHIER**	**217,029.21**	**FEDERAL PAYROLL TAX DEPOSIT**	**DELEGATED APPROVAL**
WIRE	**02/07/2025**	**INTERNAL REVENUE SERVICE**	**142,503.96**	**FEDERAL PAYROLL TAX DEPOSIT**	**DELEGATED APPROVAL**
635568	02/12/2025	AIRGAS USA, LLC	18,071.02		
635569	02/12/2025	ALLIANCE FOR WATER EFFICIENCY	4,725.00		
635570	02/12/2025	UNIVERSAL PROTECTION SERVICE LP	392.00		
635571	02/12/2025	AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC	75.00		

TAMPA BAY WATER

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635572	02/12/2025	AMICI ENGINEERING CONTRACTORS, LLC	9,560.00		
635573	02/12/2025	ARCHER WESTERN CONSTRUCTION LLC	3,012,592.62	DESAL INTAKE CONNECTION IMPROVEMENTS PROJ	RECEIVE
635574	02/12/2025	ARCHER WESTERN CONSTRUCTION LLC	69,190.00	CYC BRIDGE WF IMPROVEMENTS PROJ	RECEIVE
635575	02/12/2025	ARDURRA GROUP, INC	859.14		
635576	02/12/2025	BUENAVENTURA LAW, PLLC	6,840.90		
635577	02/12/2025	CARMEUSE LIME & STONE, INC.	1,391.08		
635578	02/12/2025	CDM SMITH INC	7,822.62		
635579	02/12/2025	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	8,697.22		
635580	**02/12/2025**	**DUKE ENERGY CORPORATION**	**19,838.21**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635581	02/12/2025	EARTH RESOURCES, INC.	5,431.80		
635582	02/12/2025	ENVIRONMENTAL SCIENCE ASSOCIATES CORPORATION	1,166.66		
635583	02/12/2025	FEDERAL EXPRESS CORPORATION	54.85		
635584	02/12/2025	FISHER SCIENTIFIC COMPANY LLC	89.24		
635585	02/12/2025	FLORIDA TREE AND PROPERTY MAINTENANCE	17,956.50		
635586	02/12/2025	FRONT LINE POWER LLC	927.00		
635587	**02/12/2025**	**FRONTIER COMMUNICATIONS**	**198.26**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635588	02/12/2025	GARNEY COMPANIES, INC.	759,856.68	SO HILLSB PIPELINE PROJ	RECEIVE
635589	02/12/2025	MIKE GILLIAM	75.00		
635590	02/12/2025	HACH COMPANY	4,029.02		
635591	02/12/2025	JONES WALKER, LLP	6,791.67		
635592	02/12/2025	KAT CONSTRUCTION & MATERIALS, INC.	203,280.05	ELDRIDGE WILDE WF PUMPS & MOTORS REPLACEMENT CONSTRUCTION	RECEIVE
635593	02/12/2025	SUZANNE KRAMER	262.00		
635594	02/12/2025	LOCHER ENVIRONMENTAL TECHNOLOGY LLC	10,399.40		
635595	02/12/2025	MARIBEL MEDINA	225.23		
635596	02/12/2025	NEW DIRECTIONS BEHAVIORAL HEALTH LLC	1,520.00		
635597	02/12/2025	ODYSSEY MANUFACTURING COMPANY	6,261.10		
635598	02/12/2025	OFFICE DEPOT	657.18		
635599	02/12/2025	PCL CONSTRUCTION, INC.	86,194.38	HSPS CHEMICAL PIPING REPLACEMENT CONSTRUCTION PROJ	RECEIVE
635600	02/12/2025	PERSSON, COHEN, MOONEY, FERNANDEZ & JACKSON, P.A.	24,750.00		
635601	02/12/2025	PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS	40,695.98		
635602	02/12/2025	ATLANTA FORKLIFTS INC.	1,145.46		
635603	02/12/2025	RICK RICHARDS, INC.	10,685.00		
635604	02/12/2025	RICOH USA, INC.	660.06		
635605	02/12/2025	RING POWER CORPORATION	3,477.66		
635606	02/12/2025	RS AMERICAS, INC	457.54		
635607	02/12/2025	RYAN HERCO PRODUCTS CORPORATION	464.64		
635608	**02/12/2025**	**TAMPA ELECTRIC CO**	**137,852.74**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635609	02/12/2025	TEMPACO, INC.	2,599.49		

TAMPA BAY WATER

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635610	02/12/2025	UNIFIRST CORPORATION	66.10		
635611	02/12/2025	US WATER-ACCIONA SEAWATER DESLINATION PARTNERS	1,726,397.09	RO TRENCH SUPPOSRTS PROJ	RECEIVE
635612	02/12/2025	V&A CONSULTING ENGINEERING, INC.	1,972.50		
635613	02/12/2025	VANASSE HANGEN BRUSTLIN INC	2,080.00		
635614	02/12/2025	HUI WANG	146.00		
635615	02/12/2025	WASTE MANAGEMENT INC. OF FLORIDA	2,327.74		
635616	02/12/2025	WASTE MANAGEMENT INC. OF FLORIDA	480.85		
635617	02/12/2025	WASTE MANAGEMENT INC. OF FLORIDA	635.67		
635618	02/12/2025	WISE CONSULTING GROUP	9,378.52		
635619	**02/12/2025**	**WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC.**	**23,451.63**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635620	02/12/2025	WORKSCAPES, INC.	4,000.24		
635621	02/19/2025	ACLARIAN LLC	5,752.50		
635622	02/19/2025	ADVANCED ROOFING, INC.	18,374.93		
635623	02/19/2025	AECOM TECHNICAL SERVICES, INC.	190,012.01	GROUNDWATER SOURCE FEASIBILITY STUDY	RECEIVE
635624	02/19/2025	AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS	1,423.12		
635625	02/19/2025	AIR CENTERS OF FLORIDA, INC.	2,089.50		
635626	02/19/2025	AIR MECHANICAL & SERVICE CORP.	18,469.63		
635627	02/19/2025	AIRGAS USA, LLC	65,394.06	CHEMICAL - CARBON DIOXIDE	RECEIVE
635628	02/19/2025	AIRGAS SOUTH, INC.	352.65		
635629	02/19/2025	AIRGAS SPECIALTY PRODUCTS, INC.	20,464.53		
635630	02/19/2025	ALLIED UNIVERSAL CORPORATION	93,101.34	CHEMICAL - SODIUM HYDROXIDE	RECEIVE
635631	02/19/2025	ALLIED UNIVERSAL CORPORATION	65,205.12	CHEMICAL - SODIUM HYDROXIDE	RECEIVE
635632	02/19/2025	ALLIED UNIVERSAL CORPORATION	22,690.58		
635633	02/19/2025	J.C. EHRLICH CO.	256.39		
635634	02/19/2025	AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC	75.00		
635635	02/19/2025	AMERICAN EXPRESS TRAVEL RELATED SERVICES CO INC	3,738.64		
635636	02/19/2025	APPLIED ECOLOGY, INC	10,791.48		
635637	02/19/2025	ARCADIS US INC.	44,081.94		
635638	**02/19/2025**	**AT&T MOBILITY II, LLC**	**72.48**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635639	02/19/2025	AUTOMATIONDIRECT.COM, INC.	876.00		
635640	02/19/2025	BADGER DAYLIGHTING CORP.	7,917.15		
635641	02/19/2025	BLACK & VEATCH CORPORATION	76,778.75	ELDRIDGE WILDE IMPROVEMENTS PROJ & DESAL INTAKE PUMP PROJ	RECEIVE
635642	02/19/2025	HERBERT BOWER	44.80		
635643	02/19/2025	BUSH GRAZIANO RICE & HEARING, P.A.	382.50		
635644	02/19/2025	CARMEUSE LIME & STONE, INC.	201,750.13	CHEMICAL - QUICKLIME	RECEIVE
635645	02/19/2025	CAROLLO ENGINEERS INC	19,258.75		
635646	02/19/2025	CDW LLC	37,533.35		
635647	02/19/2025	CHANDLER ASSET MANAGEMENT, INC.	6,026.55		

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635648	02/19/2025	CHEMICAL SYSTEMS OF ORLANDO, INC.	19,884.00		
635649	02/19/2025	CITY OF CLEARWATER POLICE DEPT	260.00		
635650	02/19/2025	DIALOGUE PUBLIC RELATIONS, LLC	7,824.15		
635651	02/19/2025	ECHOSAT, INC.	46.35		
635652	02/19/2025	ECOHYDROLOGIX LLC	9,618.30		
635653	02/19/2025	ENTERPRISE FM TRUST	63,516.49	VEHICAL PURCHASE & MONTLY VEH MAINT	RECEIVE
635654	02/19/2025	ENVIRONMENTAL SCIENCE ASSOCIATES CORPORATION	123,791.96	HBMP IMPLEMENT, ERP CERTIFICATION & ESA COUNTINUOUS MONITOR	RECEIVE
635655	02/19/2025	EYEMED VISION CARE	1,342.28		
635656	02/19/2025	FEDERAL EXPRESS CORPORATION	46.22		
635657	02/19/2025	FLORIDA DEPT OF STATE	166.88		
635658	02/19/2025	FRONT LINE POWER LLC	1,236.00		
635659	02/19/2025	JOHN H GRANGER MAINTENANCE & CONSTRUCTION, INC.	45,684.89		
635660	02/19/2025	GRAY ROBINSON, P.A.	14,706.50		
635661	02/19/2025	GSI ENVIRONMENTAL, INC.	15,926.59		
635662	02/19/2025	SAM HABIB	2,266.00		
635663	02/19/2025	HACH COMPANY	15,297.15		
635664	02/19/2025	HAWKINS, INC.	8,814.40		
635665	02/19/2025	HAYS HOLDING CORPORATION	26,590.22		
635666	02/19/2025	HAZEN & SAWYER, P.C.	240.00		
635667	02/19/2025	HERC RENTALS, INC.	1,720.00		
635668	**02/19/2025**	**HILLSBOROUGH COUNTY**	**22.37**	**UTILITY PAYMENT**	**DELEGATED APPROVAL**
635669	**02/19/2025**	**HILLSBOROUGH COUNTY**	**23.02**	**UTILITY PAYMENT**	**DELEGATED APPROVAL**
635670	**02/19/2025**	**HILLSBOROUGH COUNTY**	**76.18**	**UTILITY PAYMENT**	**DELEGATED APPROVAL**
635671	02/19/2025	ARROW EXTERMINATORS	266.00		
635672	02/19/2025	INTERPRO SOLUTIONS, LLC	1,600.00		
635673	02/19/2025	JACOBS ENGINEERING GROUP INC	87,525.77	CYC WTP VALVE ENG PROJ & REGIONAL TRANSMISSION SYSTEM EVAL	RECEIVE
635674	02/19/2025	RONALD J KLIMLEY	1,845.00		
635675	02/19/2025	LDM LAWN SERVICE, LLC	1,780.00		
635676	02/19/2025	LHOIST NORTH AMERICA OF ALABAMA, LLC	21,015.98		
635677	02/19/2025	MATHESON TRI-GAS INC.	20,119.24		
635678	02/19/2025	MCMASTER-CARR	128.84		
635679	**02/19/2025**	**MICHIGAN STATE DISBURSEMENT UNIT**	**368.51**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635680	02/19/2025	MONTROSE ENVIRONMENTAL SOLUTIONS, INC.	3,937.50		
635681	02/19/2025	NABORS, GIBLIN, & NICKERSON P.A.	247.50		
635682	02/19/2025	NEW DIRECTIONS BEHAVIORAL HEALTH LLC	1,520.00		
635683	02/19/2025	NEWARK CORPORATION	1,876.39		
635684	02/19/2025	ODYSSEY MANUFACTURING COMPANY	103,551.75	CHEMICAL - SODIUM HYPOCHLORITE	RECEIVE
635685	02/19/2025	ODYSSEY MANUFACTURING COMPANY	43,486.95		

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635686	02/19/2025	OSTI, INC.	1,677.00		
635687	02/19/2025	PAFF TREE SERVICE, LLC	24,948.00		
635688	02/19/2025	LORRAINE PALAZZOLO	69.00		
635689	02/19/2025	PFM ASSET MANAGEMENT LLC	20,000.00		
635690	02/19/2025	PIPER FIRE PROTECTION, INC.	3,009.82		
635691	02/19/2025	PRESIDIO NETWORKED SOLUTIONS INC.	14,814.32		
635692	02/19/2025	PRITCHETT STEINBECK GROUP, INC.	45,656.21		
635693	02/19/2025	QUEST ECOLOGY INC	308.50		
635694	02/19/2025	ATLANTA FORKLIFTS INC.	689.57		
635695	02/19/2025	RING POWER CORPORATION	14,632.92		
635696	02/19/2025	RING POWER CORPORATION	5,243.00		
635697	02/19/2025	RING POWER CORPORATION	749.00		
635698	02/19/2025	ROWLAND (DE), LLC	61,848.73	MORRIS BRG AS NEEDED CIVIL PIPE WORK	RECEIVE
635699	02/19/2025	RS AMERICAS, INC	4,045.82		
635700	02/19/2025	STANTEC CONSULTING SERVICES, INC.	17,208.01		
635701	**02/19/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**466.79**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635702	**02/19/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**194.28**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635703	**02/19/2025**	**STATE OF FLORIDA DISBURSEMENT UNIT**	**346.15**	**CHILD SUPPORT**	**DELEGATED APPROVAL**
635704	02/19/2025	SULPHURIC ACID TRADING CO. INC	141,678.83	CHEMICAL - SULFURIC ACID	RECEIVE
635705	02/19/2025	SANDRO SVRDLIN	92.68		
635706	**02/19/2025**	**CITY OF TAMPA OFFICES**	**21.87**	**UTILITY PAYMENT**	**DELEGATED APPROVAL**
635707	**02/19/2025**	**TAMPA ELECTRIC CO**	**31,898.16**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635708	02/19/2025	MAINZER MANAGEMENT INC	11,877.00		
635709	02/19/2025	THATCHER CHEMICAL OF FLORIDA INC.	105,993.30	CHEMICAL - FERRIC SULFATE	RECEIVE
635710	02/19/2025	THATCHER CHEMICAL OF FLORIDA INC.	100,156.88	CHEMICAL - FERRIC SULFATE	RECEIVE
635711	02/19/2025	THATCHER CHEMICAL OF FLORIDA INC.	25,238.85		
635712	02/19/2025	TUCKER ENTERPRISE SERVICES, INC.	30,450.00		
635713	02/19/2025	U.S. DEPARTMENT OF TREASURY	164.08		
635714	02/19/2025	UNIFIRST CORPORATION	374.52		
635715	02/19/2025	V&A CONSULTING ENGINEERING, INC.	7,407.38		
635716	**02/19/2025**	**VERIZON FLORIDA INC**	**37,010.85**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635717	02/19/2025	VITAL RECORDS HOLDINGS, LLC	921.38		
635718	02/19/2025	W W GRAINGER INC	820.21		
635719	02/19/2025	WILDLANDS CONSERVATION, INC.	1,134.84		
635720	**02/19/2025**	**WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC.**	**81.43**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635721	02/19/2025	WRIGHT EXPRESS CORPORATION	11,637.05		
635722	02/19/2025	WSP USA INC	6,452.50		
WIRE	**02/20/2025**	**BOOKY OREN GLOBAL WATER TECHNOLOGIES LTD.**	**12,464.00**		

TAMPA BAY WATER

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WIRE	**02/21/2025**	**INTERNAL REVENUE SERVICE**	**144,875.75**	**FEDERAL PAYROLL TAX DEPOSIT**	**DELEGATED APPROVAL**
635723	02/26/2025	AGILENT TECHNOLOGIES, INC.	13,112.50		
635724	02/26/2025	AIR MECHANICAL & SERVICE CORP.	4,357.03		
635725	02/26/2025	AIRGAS USA, LLC	47,256.15		
635726	02/26/2025	AIRGAS SPECIALTY PRODUCTS, INC.	16,732.97		
635727	02/26/2025	ALLIED UNIVERSAL CORPORATION	44,043.42		
635728	02/26/2025	FINGER LAKES BUSINESS SERVICES, INC.	84.00		
635729	02/26/2025	APPLIED ECOLOGY, INC	553.64		
635730	02/26/2025	ARCHER WESTERN CONSTRUCTION LLC	197,222.10	DESAL INTAKE CONNECTION IMPROVEMENTS PRJ	RECEIVE
635731	02/26/2025	BADGER DAYLIGHTING CORP.	5,883.91		
635732	02/26/2025	BLACK & VEATCH CORPORATION	340,094.50	CIP INTEGRATED PROGRAM MANAGEMENT PROJECTS	RECEIVE
635733	02/26/2025	CARMEUSE LIME & STONE, INC.	89,431.28	CHEMICAL - QUICKLIME	RECEIVE
635734	02/26/2025	CHEMICAL SYSTEMS OF ORLANDO, INC.	40,230.00		
635735	02/26/2025	CINTAS CORPORATION	960.00		
635736	02/26/2025	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	3,696.46		
635737	02/26/2025	CUMBEY & FAIR, INC.	23,184.00		
635738	02/26/2025	DEWBERRY ENGINEERS, INC	8,042.45		
635739	02/26/2025	THE DOOR WHISPERER LLC	1,755.00		
635740	02/26/2025	EMPLOYEE BENEFITS CORPORATION	279.03		
635741	02/26/2025	ENVIRONMENTAL SCIENCE ASSOCIATES CORPORATION	7,721.74		
635742	02/26/2025	FEDERAL EXPRESS CORPORATION	49.72		
635743	02/26/2025	BLUE CROSS BLUE SHIELD OF FLORIDA	326,812.14	PPO, HMO & NOTHSTEIN MONTH PREM - MARCH 2025	RECEIVE
635744	02/26/2025	FLORIDA DEPT OF MANAGEMENT SERVICES	20,566.28		
635745	**02/26/2025**	**FRONTIER COMMUNICATIONS**	**178.48**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635746	**02/26/2025**	**FRONTIER COMMUNICATIONS**	**168.48**	**UTILITY PAYMENT -COMMUMICATION**	**DELEGATED APPROVAL**
635747	02/26/2025	GENUINE AUTO PARTS/NAPA	19.25		
635748	02/26/2025	GEOPOINT SURVEYING, INC.	4,720.32		
635749	02/26/2025	KATHLEEN GOELZ	91.98		
635750	02/26/2025	JOHN H GRANGER MAINTENANCE & CONSTRUCTION, INC.	7,524.00		
635751	02/26/2025	GRAYBAR ELECTRIC COMPANY INC	2,093.80		
635752	02/26/2025	HACH COMPANY	5,164.95		
635753	02/26/2025	HAWKINS, INC.	5,963.15		
635754	02/26/2025	HAYS HOLDING CORPORATION	13,223.30		
635755	02/26/2025	HAZEN & SAWYER, P.C.	2,930.00		
635756	02/26/2025	TENCARVA MACHINERY COMPANY	6,510.78		
635757	02/26/2025	INFOARMOR, INC.	362.70		
635758	02/26/2025	KAT CONSTRUCTION & MATERIALS, INC.	104,500.00	ELRIDGE WILDE WF PUMPS &MOTORS REPLACEMENT CONST PRJ	RECEIVE
635759	02/26/2025	MATHESON TRI-GAS INC.	33,097.31		

TAMPA BAY WATER

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635760	02/26/2025	MCKIM & CREED PA	14,438.40		
635761	02/26/2025	MILLER BUILDING & REPAIR SERVICES, INC.	195.00		
635762	02/26/2025	ODYSSEY MANUFACTURING COMPANY	101,749.40	CHEMICAL - SODIUM HYPOCHLORITE	RECEIVE
635763	02/26/2025	ODYSSEY MANUFACTURING COMPANY	21,190.30		
635764	02/26/2025	PALMA CEIA LOCK & KEY, INC.	1,868.00		
635765	02/26/2025	PIPER FIRE PROTECTION, INC.	1,486.86		
635766	02/26/2025	PLYMOUTH PLAZA, LLC	7,258.06		
635767	02/26/2025	POLYDYNE INC	1,551.00		
635768	02/26/2025	PRINTER LOGIC INC	5,635.00		
635769	02/26/2025	RICOH USA, INC.	2,920.80		
635770	02/26/2025	RING POWER CORPORATION	18,928.39		
635771	02/26/2025	RS AMERICAS, INC	348.26		
635772	02/26/2025	SMITH INDUSTRIES INC	487.69		
635773	02/26/2025	STANDARD INSURANCE CO	11,662.48		
635774	02/26/2025	STANTEC CONSULTING SERVICES, INC.	288,668.90	SO HILLSB PIPELINE SEGMENT B PRJ	RECEIVE
635775	02/26/2025	SULPHURIC ACID TRADING CO. INC	70,846.92	CHEMICAL - SULFURIC ACID	RECEIVE
635776	02/26/2025	SUNSHINE STATE ONE CALL OF FLORIDA INC	266.05		
635777	02/26/2025	SOUTHWEST FLORIDA WATER MANAGEMENT	600.00		
635778	**02/26/2025**	**TAMPA ELECTRIC CO**	**24,792.83**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635779	**02/26/2025**	**TAMPA ELECTRIC CO**	**78.44**	**ELECTRIC BILL - WELL FIELDS AND PUMPING STATIONS**	**DELEGATED APPROVAL**
635780	02/26/2025	THATCHER CHEMICAL OF FLORIDA INC.	105,716.10	CHEMICAL - FERRIC SULFATE	RECEIVE
635781	02/26/2025	THATCHER CHEMICAL OF FLORIDA INC.	13,765.29		
635782	02/26/2025	SYLINT GROUP INC	8,979.00		
635783	02/26/2025	TIMOTHY DALE WHITE JR.	15,000.00		
635784	02/26/2025	UNIFIRST CORPORATION	133.23		
635785	02/26/2025	USABLE LIFE	6,767.88		
635786	02/26/2025	V&A CONSULTING ENGINEERING, INC.	5,377.50		
635787	02/26/2025	VEOLIA WATER NORTH AMERICA	678,476.06	SWTP DEC O&M	RECEIVE
635788	02/26/2025	W W GRAINGER INC	590.74		
295 CHECKS			15,252,641.89		

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.5

DATE: March 4, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Disposition of Fixed Assets for February 2025 - *Receive Report*

SUMMARY

Attached is a list of fixed assets and minor equipment removed from service and approved by the General Manager for disposal in accordance with agency policy in the month of February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

The three Hach CL-17 Chlorine analyzers were no longer operational and have been cannibalized for their useful parts. The six Var-desk units were no longer needed by the agency and were surplused. The Pulsafeeder Chemical pump was no longer needed by the agency and was surplused.

Attachments (1)

Agenda Page_Asset Disposal List_FEB_25

TAMPA BAY WATER
SURPLUS ITEMS APPROVED FOR DISPOSITION BY THE GENERAL MANAGER
UNDER DELEGATION OF AUTHORITY FROM THE BOARD PER POLICY 650-08
MONTH OF FEBRUARY 2025

ASSET#	ASSET DESCRIPTION	SERIAL NUMBER	ACQ DATE	ACQ COST	ACCUM DEPR	BOOK VALUE	CLASS	ASSET TYPE
12143	ANALYZER,HACH CL-17,CHLORINE	190580024385	04/04/19	3,494.93	3,494.93	-	13	ELECTRONIC EQUIP.
12145	ANALYZER,HACH CL-17,CHLORINE	190580024391	04/04/19	3,494.92	3,494.92	-	13	ELECTRONIC EQUIP.
12146	ANALYZER,HACH CL-17,CHLORINE	190580024384	04/04/19	3,494.92	3,494.92	-	13	ELECTRONIC EQUIP.
						-		
na	(6) VARI-DESK UNITS	-	-	-	-	-	-	#N/A
na	PULSAFEEDER CHEMICAL PUMP	-	-	-	-	-	-	#N/A
	Total			10,484.77	10,484.77	-		

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.6

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Financial Statement - February 2025 - *Receive Report*

SUMMARY

The attached Statement of Revenues and Expenditures summarizes the Agency's uniform rate basis financial activity for February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

Financial Statement - Summary of Major Points:

Revenues – Operating revenue consists of water sales (fixed and variable components), sales from the Tampa Bypass Canal to the City of Tampa, operating grants, other additional surcharges revenue and the board-approved balance carried forward from the previous year through the Rate Stabilization Fund. Fixed rate revenue is earned in level monthly increments and only catches up to the expenditures at year end. Non-Operating Income consists of investment income, miscellaneous income, litigation recoveries and capital contributions.

Expenditures - Throughout the year, actual expenditures normally lag behind by at least one to two months. This is due to the fact that vendor bills and the subsequent payment of those bills generally lag behind the actual performance of the services by 30 to 45 days. When the fiscal year end approaches, the books are held open to allow for all fiscal year activity to be accounted for and shown in the appropriate fiscal year. Variable rate expenditures will have seasonal peaks as the agency enters the dry season and adjusts the supply sources.

The “Encumbrance” balance shown on the bottom of the financial statements represents the amount of open purchase orders (committed funds and blanket purchase orders) as of the end of the month, including purchase orders carried forward from the previous year. Although the encumbrance is presented for informational purposes, it gives a projected contractual commitment against current year funds. There are many purchase orders established at the beginning of the year that will be spent through the year and monthly revenue will be collected through the year to offset that expense, some of the categories with larger encumbrances at the beginning of the year include Water Treatment Chemicals, Power, and Professional Services. Professional service tasks frequently carry over beyond the end of a fiscal year, in which case the applicable open purchase orders and the associated budget dollars are carried into the next fiscal year to allow for completion of those tasks as mentioned above.

Attachments (1)

Financial Statements 02.2025

TAMPA BAY WATER - UNIFORM RATE BASIS
Statement of Revenues and Expenditures
February 28, 2025

	Current Month Actual	Original Budget	Revised Budget	Year to Date (YTD) Actual	YTD Actual % of Revised Budget
OPERATING REVENUE:					
Operating Grant - SWFWMD	0	398,000	398,000	0	0.00%
Water Sales - Fixed	12,914,025	154,968,302	154,968,302	64,570,126	41.67%
Water Sales - Variable	0	45,389,055	45,389,055	14,276,938	31.45%
Water Sales - Other	133,048	42,000	42,000	147,048	350.12%
Water Sales - Tampa By-Pass Canal	0	392,000	392,000	0	0.00%
Rate Stabilization (Note 1)	534,007	6,408,085	20,606,285	16,868,235	81.86%
TOTAL OPERATING REVENUE	13,581,081	207,597,442	221,795,642	95,862,347	43.22%
OPERATING EXPENSES:					
FIXED OPERATING EXPENSE:					
Personnel Services	1,719,593	26,888,100	26,888,100	9,044,850	33.64%
Materials & Supplies	79,878	3,214,094	3,422,607	1,094,228	31.97%
Members Water Quality costs	4,000	48,000	48,000	20,000	41.67%
Legal Services	32,782	725,000	803,274	138,161	17.20%
Professional Services	947,841	35,650,815	46,150,433	9,340,555	20.24%
Repairs & Other Services	388,885	11,342,045	13,698,462	5,207,224	38.01%
Rent, Lease & Insurance	12,559	4,016,750	4,048,943	3,150,297	77.81%
TOTAL FIXED OPERATING EXPENSE	3,185,537	81,884,804	95,059,819	27,995,315	29.45%
VARIABLE OPERATING EXPENSE:					
Water Treatment Chemicals	1,674,754	25,679,820	25,679,820	9,756,023	37.99%
Electricity	623,760	19,050,635	19,050,635	4,615,926	24.23%
Water for Resale	0	658,600	658,600	189,883	28.83%
TOTAL VARIABLE OPERATING EXPENSE	2,298,515	45,389,055	45,389,055	14,561,832	32.08%
NON-OPERATING INCOME:					
Investment Income (Note 2)	0	5,033,012	5,033,012	1,667,908	33.14%
Investment Income-Unrealized Gain/(Loss)	0	0	0	-993,270	0.00%
Miscellaneous	-683	0	0	163,741	0.00%
Litigation Recoveries	0	0	0	134,247	0.00%
Capital Contributions (Grants)	0	0	0	0	0.00%
TOTAL NON-OPERATING INCOME	-683	5,033,012	5,033,012	972,625	19.32%
NON-OPERATING EXPENSES:					
Bond Issue Cost	0	0	0	0	0.00%
Interest - Acquisition Credits	151,970	1,823,643	1,823,643	759,851	41.67%
Interest - Bonds	2,459,503	29,514,037	29,514,037	12,297,515	41.67%
TOTAL NON-OPERATING EXPENSES	2,611,473	31,337,680	31,337,680	13,057,367	41.67%
Excess of Revenues over Expenditures before Capital Transactions	5,484,872	54,018,915	55,042,100	41,220,459	74.89%
OTHER EXPENDITURES:					
Principal - Acquisition Credits	700,660	8,407,915	8,407,915	3,503,298	41.67%
Principal - Bonds	3,626,500	43,518,000	43,518,000	18,132,500	41.67%
Capital Expenditures	47,974	2,093,000	3,116,185	153,101	4.91%
TOTAL OTHER EXPENDITURES	4,375,134	54,018,915	55,042,100	21,788,899	39.59%
Excess Revenue over Expenditures/(Expenditures over Revenue)	**1,109,738**			**19,431,560**	
Encumbrances as of 02/28/2025					**64,979,015**

Financial Statements completed on 03.03.2025. Still missing some month end Journal Entires for February 2025

Note 1 - Rate stabilization year to date actual reflects 5/12th of the approved budget transfer of $6,408,085, plus the carried forward purchase orders of $10,890,377) and $3,307,823 of FY24 unencumbered funds carried forward into FY25, as approved by the Board.

Note 2 - Investment income actuals includes revenue earned and realized gains/losses on investments. Unrealized gains/losses are reflected separately.

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.7

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Investment Schedules for February 2025 - *Receive Report*

SUMMARY

The attached investment statements and reports provides details of Tampa Bay Water's investments for February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

The attached Chandler Asset Management Consolidated Statement and Bond Market Review provide a monthly summary of the agency's asset allocations and the drivers of the economy that may affect investment performance.

Chandler Asset Management, the Board's contracted investment advisor, manages a portion of the agency's funds to earn a higher return, without sacrificing or risking principal.

As of February 28, 2025, the funds currently managed by Chandler Asset Management had a Market Value of $174,597,320 and are detailed in the attached statement. All the investments are held in a third-party trust account with US Bank as custodian.

As of February 28, 2025, the Agency had $836,963,663 held in deposit accounts or certificates of deposits with multiple banking institutions, with interest rates ranging from .55% to 3.50%. In addition, these banking institutions participate in the State of Florida Public Funds pool and are designated Public Funds. Under this program, each participating bank is required to post collateral with the State at a percentage of the amount of Public Funds held by that bank. The percentage of collateral required is determined by the State and may vary by institution. Of the funds held by Tampa Bay Water, 93% are restricted as to purpose. An additional $31 million in the Utility Reserve Fund is not restricted as to purpose but must be maintained at levels sufficient to ensure compliance with debt coverage requirements.

BACKGROUND

Resolution 2017-002 approves the Agency's Investment Policy.

US Government Securities - Treasuries (100%) - Collective term used to describe debt instruments backed by the US Government and issued through the US Department of Treasure.

US Government Agency (50%) – A debt instrument issued by one of the Federal Agencies.

Federal Instrumentalities (80%) - A government sponsored/owned entity created by US Congress.

Mortgage-Backed Securities (20%) – An ownership interest in a pool of mortgage loans made by financial institutions to finance the borrower's purchase of a home or other real estate.

Repurchase Agreements (50%) - A short-term investment vehicle where an investor agrees to buy securities from a counterparty and simultaneously agrees to resell the securities back to the counterparty at an agreed upon time for an agreed upon price.

Commercial Paper (25%) – Short term unsecured promissory note issued by a company or financial institution. Issued at a discount and matures for par or face value.

Corporate Note (25%) – A debt instrument issued by a corporation with a maturity of greater than one year and less than ten years.

Bankers' Acceptances (25%) – A draft or bill of exchange drawn upon and accepted by a bank.

Municipal Note/Bond (20%) – A debt instrument issued by a state, local government or public agency.

Supranationals (15%) – A debt instrument issued by the International Bank for Reconstruction and Development, International Finance Corporation or Inter-American Development Bank.

Money Market Mutual Funds (50%) – Market in which short-term debt instruments are issued/traded.

Intergovernmental Investment Pool (25%) – An investment by local governments in which their money is pooled as a method for managing local funds.

Attachments (2)

Investment Schedule for Februaury 2025 (1 of 2)
Investment Schedule for Februaury 2025 (2 of 2)

CHANDLER ASSET MANAGEMENT

Portfolio Summary

02/01/2025 - 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

Portfolio Characteristics

	Portfolio
Average Modified Duration	2.12
Average Coupon Rate*	3.641
Average Purchase YTM	3.89
Average Market YTM	4.23
Average Credit Quality	AA+
Average Final Maturity	1.88
Average Life	1.85

Footnote: 1

Account Summary

	Portfolio
Beginning Market Value	173,387,241.67
Ending Market Value	174,597,320.25
Beginning Accrued Balance	1,422,944.84
Ending Accrued Balance	1,456,000.88
Beginning Total Market Value	174,810,186.51
Ending Total Market Value	176,053,321.13
Beginning Current Par	174,349,230.19
Ending Current Par	174,845,193.02
Beginning Book Value	173,662,736.68
Ending Book Value	174,159,926.98
Beginning Original Cost	173,262,145.40
Ending Original Cost	173,813,536.14

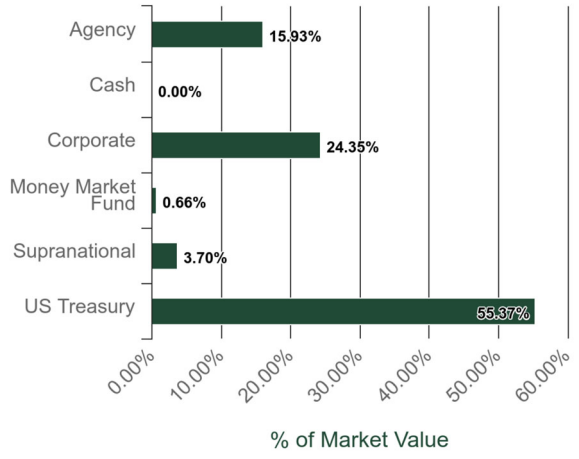
Footnotes: 2,3,4,5,6

Top Issuers

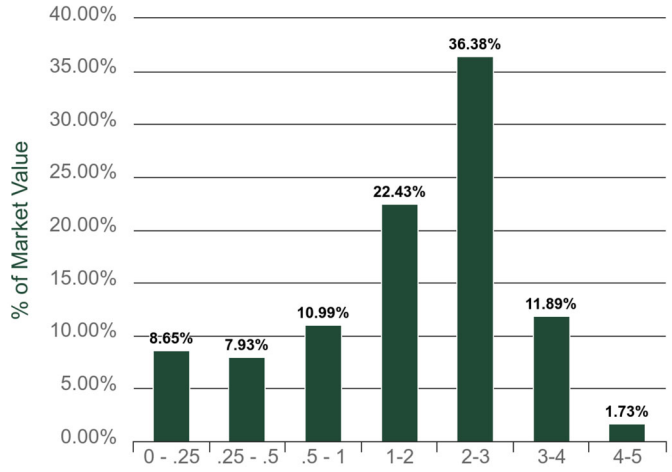
Issuer	% of Market Value
Government of The United States	55.37%
Farm Credit System	5.81%
Federal Home Loan Banks	5.78%
FNMA	3.29%
International Bank for Recon and Dev	3.11%
JPMorgan Chase & Co.	1.75%
The Home Depot, Inc.	1.60%
BlackRock, Inc.	1.56%
Caterpillar Inc.	1.42%
Deere & Company	1.34%

Footnotes: 2,7,8

Sector Allocation



Maturity Distribution



Credit Quality (S&P)

Chart calculated by: Market Value

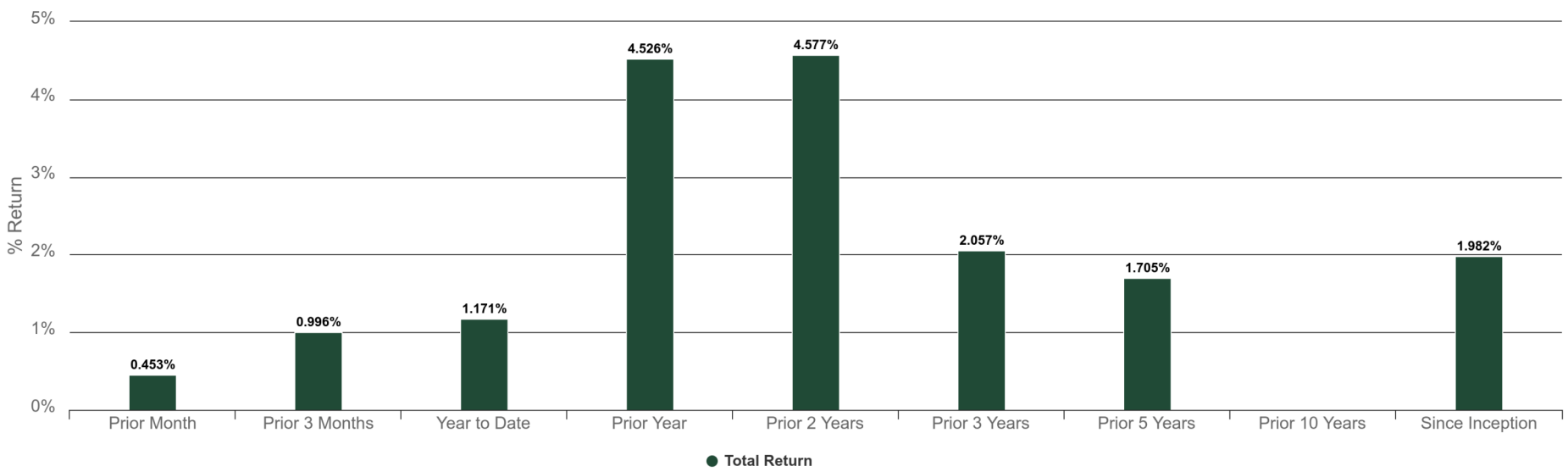
Portfolio Summary

02/01/2025 - 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

Performance Review (Gross)



1: * Weighted by: Market Value. 2: * Weighted by: Ending Total Market Value. 3: * Formula Column: Beginning Accrued Balance = [Beginning Due and Accrued]+[Beginning Cash Mutual Fund Dividend Receivable]. 4: * Formula Column: Ending Accrued Balance = [Ending Due and Accrued]+[Ending Cash Mutual Fund Dividend Receivable]. 5: * Formula Column: Beginning Total Market Value = [Beginning Market Value]+([Beginning Due and Accrued]+[Beginning Cash Mutual Fund Dividend Receivable]). 6: * Formula Column: Ending Total Market Value = [Ending Market Value]+([Ending Due and Accrued]+[Ending Cash Mutual Fund Dividend Receivable]). 7: * Grouped by: Issuer. 8: * Groups Sorted by: % of Market Value.

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

CUSIP	Security Type	Issue	Maturity Date, Years to F nal Mat t	Original Par, Purchase Date, Original Cost	Coupon Rate	Current Par	Market Price	Market Value, Accrued Balance, Total Market Value	Moody's Rating, S&P Rating, Fitch Rating
3130ATS57	Agency	FEDERAL HOME LOAN BANKS 4.5 03/10/2028	03/10/2028 3.030	600,000.00 04/20/2023 618,726.00	4.50	600,000.00	101.4284	608,570.66 12,825.00 621,395.66	Aaa AA+ AA+
3130AV6J6	Agency	FEDERAL HOME LOAN BANKS 4.5 03/13/2026	03/13/2026 1.036	1,600,000.00 --- 1,624,390.00	4.50	1,600,000.00	100.3442	1,605,506.83 33,600.00 1,639,106.83	Aaa AA+ AA+
3130ATUS4	Agency	FEDERAL HOME LOAN BANKS 4.25 12/10/2027	12/10/2027 2.780	450,000.00 05/18/2023 457,983.00	4.25	450,000.00	100.6204	452,791.72 4,303.13 457,094.84	Aaa AA+ AA+
3130AWLZ1	Agency	FEDERAL HOME LOAN BANKS 4.75 06/12/2026	06/12/2026 1.285	1,650,000.00 08/28/2023 1,645,297.50	4.75	1,650,000.00	100.6976	1,661,509.94 17,198.96 1,678,708.90	Aaa AA+ AA+
3133EPC60	Agency	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.625 11/15/2027	11/15/2027 2.712	2,150,000.00 11/09/2023 2,142,023.50	4.63	2,150,000.00	101.4741	2,181,693.52 29,278.82 2,210,972.33	Aaa AA+ AA+
3130AXU63	Agency	FEDERAL HOME LOAN BANKS 4.625 11/17/2026	11/17/2026 1.717	1,100,000.00 11/29/2023 1,104,400.00	4.63	1,100,000.00	100.9069	1,109,976.28 14,697.22 1,124,673.51	Aaa AA+ AA+
3133EPH81	Agency	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 10/04/2027	10/04/2027 2.597	1,800,000.00 12/07/2023 1,812,906.00	4.50	1,800,000.00	101.0881	1,819,584.92 33,075.00 1,852,659.92	Aaa AA+ AA+
3135G04Z3	Agency	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 06/17/2025	06/17/2025 0.298	2,405,000.00 06/17/2020 2,400,021.65	0.50	2,405,000.00	98.8903	2,378,312.15 2,471.81 2,380,783.95	Aaa AA+ AA+
3133ERFJ5	Agency	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 05/20/2027	05/20/2027 2.222	3,700,000.00 --- 3,697,095.00	4.50	3,700,000.00	100.9696	3,735,875.27 46,712.50 3,782,587.77	Aaa AA+ AA+
3135G05X7	Agency	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.375 08/25/2025	08/25/2025 0.487	1,445,000.00 08/25/2020 1,438,237.40	0.38	1,445,000.00	98.1362	1,418,068.41 90.31 1,418,158.72	Aaa AA+ AA+
3137EAEX3	Agency	FEDERAL HOME LOAN MORTGAGE CORP 0.375 09/23/2025	09/23/2025 0.567	1,855,000.00 09/23/2020 1,849,416.45	0.38	1,855,000.00	97.8463	1,815,048.10 3,053.02 1,818,101.13	Aaa AA+ AA+
3135G06G3	Agency	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025	11/07/2025 0.690	2,000,000.00 11/09/2020 1,992,840.00	0.50	2,000,000.00	97.5286	1,950,572.98 3,166.67 1,953,739.65	Aaa AA+ AA+
3130AWN63	Agency	FEDERAL HOME LOAN BANKS 4.0 06/30/2028	06/30/2028 3.337	1,600,000.00 07/18/2023 1,593,696.00	4.00	1,600,000.00	100.0488	1,600,780.34 10,844.44 1,611,624.78	Aaa AA+ AA+
3130AYPN0	Agency	FEDERAL HOME LOAN BANKS 4.125 01/15/2027	01/15/2027 1.879	1,000,000.00 01/29/2024 998,860.00	4.13	1,000,000.00	100.1832	1,001,832.17 5,270.83 1,007,103.00	Aaa AA+ AA+
3133EPCR4	Agency	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.75 03/09/2026	03/09/2026 1.025	1,400,000.00 03/27/2023 1,430,534.00	4.75	1,400,000.00	100.5580	1,407,811.76 31,772.22 1,439,583.98	Aaa AA+ AA+
3133EPNG6	Agency	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.375 06/23/2026	06/23/2026 1.315	1,000,000.00 06/20/2023 999,470.00	4.38	1,000,000.00	100.4366	1,004,366.23 8,263.89 1,012,630.12	Aaa AA+ AA+
3130AWTQ3	Agency	FEDERAL HOME LOAN BANKS 4.625 09/11/2026	09/11/2026 1.534	500,000.00 09/27/2023 494,865.00	4.63	500,000.00	100.8111	504,055.37 10,920.14 514,975.51	Aaa AA+ AA+
3130AWER7	Agency	FEDERAL HOME LOAN BANKS 4.625 06/06/2025	06/06/2025 0.268	650,000.00 06/14/2023 649,168.00	4.63	650,000.00	100.0527	650,342.65 7,098.09 657,440.74	Aaa AA+ AA+
3130ATUC9	Agency	FEDERAL HOME LOAN BANKS 4.5 12/12/2025	12/12/2025 0.786	900,000.00 05/25/2023 902,754.00	4.50	900,000.00	100.2426	902,183.40 8,887.50 911,070.90	Aaa AA+ AA+
CCYUSD	Cash	Receivable	02/28/2025 0.000	6,217.66 --- 6,217.66	0.00	6,217.66	1.0000	6,217.66 0.00 6,217.66	Aaa AAA AAA

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

CUSIP	Security Type	Issue	Maturity Date, Years to F nal Mat t	Original Par, Purchase Date, Original Cost	Coupon Rate	Current Par	Market Price	Market Value, Accrued Balance, Total Market Value	Moody's Rating, S&P Rating, Fitch Rating
61747YET8	Corporate	MORGAN STANLEY 4.679 07/17/2026	07/17/2026 1.381	300,000.00 --- 301,673.10	4.68	300,000.00	99.9767	299,930.05 1,715.63 301,645.68	A1 A- A+
78016HZT0	Corporate	ROYAL BANK OF CANADA 4.875 01/19/2027	01/19/2027 1.890	1,250,000.00 01/17/2024 1,248,762.50	4.88	1,250,000.00	100.8617	1,260,771.31 7,109.38 1,267,880.69	A1 A AA-
00440EAS6	Corporate	CHUBB INA HOLDINGS LLC 3.15 03/15/2025	03/15/2025 0.041	1,360,000.00 03/25/2021 1,469,697.60	3.15	1,360,000.00	99.9289	1,359,033.43 19,754.00 1,378,787.43	A2 A A
87612EBL9	Corporate	TARGET CORP 2.25 04/15/2025	04/15/2025 0.126	1,650,000.00 01/31/2022 1,674,981.00	2.25	1,650,000.00	99.7167	1,645,325.34 14,025.00 1,659,350.34	A2 A A
06367WB85	Corporate	BANK OF MONTREAL 1.85 05/01/2025	05/01/2025 0.170	1,650,000.00 --- 1,686,555.00	1.85	1,650,000.00	99.5524	1,642,614.88 10,175.00 1,652,789.88	A2 A- AA-
89115A2W1	Corporate	TORONTO-DOMINION BANK 4.98 04/05/2027	04/05/2027 2.099	500,000.00 --- 496,150.75	4.98	500,000.00	100.9388	504,693.77 10,098.33 514,792.10	A2 A- AA-
14913UAL4	Corporate	CATERPILLAR FINANCIAL SERVICES CORP 5.0 05/14/2027	05/14/2027 2.205	1,900,000.00 --- 1,903,967.00	5.00	1,900,000.00	101.4894	1,928,298.22 28,236.11 1,956,534.33	A2 A A+
26444HAC5	Corporate	DUKE ENERGY FLORIDA LLC 3.2 01/15/2027	01/15/2027 1.879	1,850,000.00 05/16/2024 1,764,826.00	3.20	1,850,000.00	98.0031	1,813,056.48 7,564.44 1,820,620.92	A1 A WR
747525AF0	Corporate	QUALCOMM INC 3.45 05/20/2025	05/20/2025 0.222	1,600,000.00 03/09/2022 1,647,216.00	3.45	1,600,000.00	99.7360	1,595,775.22 15,486.67 1,611,261.88	A2 A NA
06051GLE7	Corporate	BANK OF AMERICA CORP 5.08 01/20/2027	01/20/2027 1.893	500,000.00 05/29/2024 495,840.00	5.08	500,000.00	100.4190	502,095.18 2,892.78 504,987.96	A1 A- AA-
438516CB0	Corporate	HONEYWELL INTERNATIONAL INC 1.35 06/01/2025	06/01/2025 0.255	1,600,000.00 03/09/2022 1,552,064.00	1.35	1,600,000.00	99.2101	1,587,361.84 5,400.00 1,592,761.84	A2 A A
437076DB5	Corporate	HOME DEPOT INC 4.875 06/25/2027	06/25/2027 2.320	2,750,000.00 --- 2,746,480.50	4.88	2,750,000.00	101.2669	2,784,841.04 24,578.13 2,809,419.17	A2 A A
89236TKC8	Corporate	TOYOTA MOTOR CREDIT CORP 3.95 06/30/2025	06/30/2025 0.334	325,000.00 07/15/2022 326,820.00	3.95	325,000.00	99.8216	324,420.09 2,175.24 326,595.34	A1 A+ A+
91324PEY4	Corporate	UNITEDHEALTH GROUP INC 4.6 04/15/2027	04/15/2027 2.126	350,000.00 07/03/2024 347,910.50	4.60	350,000.00	100.4901	351,715.48 6,082.22 357,797.70	A2 A+ A
09290DAH4	Corporate	BLACKROCK INC 4.6 07/26/2027	07/26/2027 2.405	2,710,000.00 --- 2,712,067.80	4.60	2,710,000.00	100.7148	2,729,371.41 12,119.72 2,741,491.13	Aa3 AA- NA
532457CP1	Corporate	ELI LILLY AND CO 4.15 08/14/2027	08/14/2027 2.457	1,750,000.00 08/13/2024 1,752,240.00	4.15	1,750,000.00	99.9455	1,749,046.76 3,429.51 1,752,476.27	Aa3 A+ NA
24422EWJ4	Corporate	JOHN DEERE CAPITAL CORP 4.05 09/08/2025	09/08/2025 0.526	350,000.00 09/08/2022 350,574.00	4.05	350,000.00	99.8710	349,548.47 6,811.88 356,360.35	A1 A A+
63743HFF4	Corporate	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 5.45 10/30/2025	10/30/2025 0.668	350,000.00 10/21/2022 350,080.50	5.45	350,000.00	100.5377	351,881.82 6,411.32 358,293.14	A2 A- A
46647PEU6	Corporate	JPMORGAN CHASE & CO 4.915 01/24/2029	01/24/2029 3.906	1,555,000.00 --- 1,555,339.50	4.92	1,555,000.00	100.7880	1,567,252.73 7,855.13 1,575,107.86	A1 A AA-
24422EXF1	Corporate	JOHN DEERE CAPITAL CORP 4.5 01/08/2027	01/08/2027 1.860	1,500,000.00 --- 1,499,311.00	4.50	1,500,000.00	100.5026	1,507,539.30 9,937.50 1,517,476.80	A1 A A+

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

CUSIP	Security Type	Issue	Maturity Date, Years to F nal Mat t	Original Par, Purchase Date, Original Cost	Coupon Rate	Current Par	Market Price	Market Value, Accrued Balance, Total Market Value	Moody's Rating, S&P Rating, Fitch Rating
89236TJZ9	Corporate	TOYOTA MOTOR CREDIT CORP 3.05 03/22/2027	03/22/2027 2.060	500,000.00 01/08/2024 477,045.00	3.05	500,000.00	97.5110	487,555.23 6,735.42 494,290.65	A1 A+ A+
91324PCW0	Corporate	UNITEDHEALTH GROUP INC 3.45 01/15/2027	01/15/2027 1.879	1,500,000.00 --- 1,454,295.00	3.45	1,500,000.00	98.4056	1,476,083.77 6,612.50 1,482,696.27	A2 A+ A
63743HFM9	Corporate	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 4.8 02/05/2027	02/05/2027 1.936	1,500,000.00 --- 1,502,865.00	4.80	1,500,000.00	100.7608	1,511,412.06 5,200.00 1,516,612.06	A2 A- A
89115A2C5	Corporate	TORONTO-DOMINION BANK 4.108 06/08/2027	06/08/2027 2.274	1,000,000.00 03/07/2024 975,470.00	4.11	1,000,000.00	99.1594	991,593.83 9,471.22 1,001,065.05	A2 A- NA
17275RBQ4	Corporate	CISCO SYSTEMS INC 4.8 02/26/2027	02/26/2027 1.994	1,200,000.00 --- 1,202,504.90	4.80	1,200,000.00	101.1390	1,213,667.81 800.00 1,214,467.81	A1 AA- NA
46647PBA3	Corporate	JPMORGAN CHASE & CO 3.96 01/29/2027	01/29/2027 1.917	800,000.00 07/03/2024 783,168.00	3.96	800,000.00	99.5066	796,052.97 2,816.00 798,868.97	A1 A AA-
69371RR99	Corporate	PACCAR FINANCIAL CORP 3.55 08/11/2025	08/11/2025 0.449	1,600,000.00 08/03/2022 1,602,032.00	3.55	1,600,000.00	99.6379	1,594,206.13 3,155.56 1,597,361.68	A1 A+ NA
95000U3R2	Corporate	WELLS FARGO & CO 4.9 01/24/2028	01/24/2028 2.903	1,400,000.00 01/16/2025 1,400,000.00	4.90	1,400,000.00	100.5044	1,407,061.39 7,050.56 1,414,111.95	A1 BBB+ A+
61690DK72	Corporate	MORGAN STANLEY BANK NA 5.016 01/12/2029	01/12/2029 3.873	1,100,000.00 01/16/2025 1,100,946.00	5.02	1,100,000.00	100.9386	1,110,324.78 6,130.67 1,116,455.44	Aa3 A+ AA-
06051GMK2	Corporate	BANK OF AMERICA CORP 4.979 01/24/2029	01/24/2029 3.906	1,075,000.00 01/17/2025 1,075,000.00	4.98	1,075,000.00	100.8864	1,084,528.53 5,501.10 1,090,029.63	A1 A- AA-
341081GR2	Corporate	FLORIDA POWER & LIGHT CO 4.45 05/15/2026	05/15/2026 1.208	500,000.00 06/14/2023 494,880.00	4.45	500,000.00	100.2480	501,239.83 6,551.39 507,791.21	A1 A A+
69371RS56	Corporate	PACCAR FINANCIAL CORP 5.05 08/10/2026	08/10/2026 1.446	165,000.00 08/24/2023 164,825.10	5.05	165,000.00	101.0979	166,811.47 486.06 167,297.53	A1 A+ NA
89115A2S0	Corporate	TORONTO-DOMINION BANK 5.532 07/17/2026	07/17/2026 1.381	500,000.00 09/27/2023 496,480.00	5.53	500,000.00	101.4322	507,161.11 3,380.67 510,541.78	A2 A- AA-
14913UAE0	Corporate	CATERPILLAR FINANCIAL SERVICES CORP 4.5 01/08/2027	01/08/2027 1.860	550,000.00 01/11/2024 550,858.00	4.50	550,000.00	100.4483	552,465.67 3,643.75 556,109.42	A2 A A+
24422EXZ7	Corporate	JOHN DEERE CAPITAL CORP 4.65 01/07/2028	01/07/2028 2.857	475,000.00 01/06/2025 474,857.50	4.65	475,000.00	101.0703	480,084.15 3,190.42 483,274.56	A1 A A+
89115A2K7	Corporate	TORONTO-DOMINION BANK 5.103 01/09/2026	01/09/2026 0.862	280,000.00 07/07/2023 278,958.40	5.10	280,000.00	100.4914	281,375.86 2,063.88 283,439.74	A2 A- AA-
46647PDA1	Corporate	JPMORGAN CHASE & CO 4.323 04/26/2028	04/26/2028 3.159	700,000.00 01/16/2025 692,055.00	4.32	700,000.00	99.3683	695,578.37 10,507.29 706,085.66	A1 A AA-
61747YER2	Corporate	MORGAN STANLEY 4.21 04/20/2028	04/20/2028 3.142	600,000.00 01/16/2025 591,414.00	4.21	600,000.00	99.0582	594,349.43 9,191.83 603,541.27	A1 A- A+
78017FZQ9	Corporate	ROYAL BANK OF CANADA 4.51 10/18/2027	10/18/2027 2.635	500,000.00 01/22/2025 497,835.00	4.51	500,000.00	99.9417	499,708.55 8,330.97 508,039.52	A1 A AA-
857477CU5	Corporate	STATE STREET CORP 4.536 02/28/2028	02/28/2028 3.000	700,000.00 02/25/2025 700,000.00	4.54	700,000.00	100.3341	702,338.37 264.60 702,602.97	Aa3 A AA-

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

CUSIP	Security Type	Issue	Maturity Date, Years to F nal Mat t	Original Par, Purchase Date, Original Cost	Coupon Rate	Current Par	Market Price	Market Value, Accrued Balance, Total Market Value	Moody's Rating, S&P Rating, Fitch Rating
31846V203	Money Market Fund	FIRST AMER:GVT OBLG Y	02/28/2025 0.000	1,143,975.36 --- 1,143,975.36	3.98	1,143,975.36	1.0000	1,143,975.36 0.00 1,143,975.36	Aaa AAAm AAA
45950KDD9	Supranational	INTERNATIONAL FINANCE CORP 4.5 07/13/2028	07/13/2028 3.372	1,020,000.00 07/06/2023 1,018,867.80	4.50	1,020,000.00	101.3417	1,033,685.72 6,120.00 1,039,805.72	Aaa AAA NA
459058KT9	Supranational	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.5 07/12/2028	07/12/2028 3.370	1,300,000.00 07/07/2023 1,242,982.00	3.50	1,300,000.00	98.1954	1,276,540.82 6,193.06 1,282,733.88	Aaa AAA NA
459058JL8	Supranational	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 0.5 10/28/2025	10/28/2025 0.663	4,255,000.00 --- 4,190,627.85	0.50	4,255,000.00	97.5598	4,151,168.72 7,268.96 4,158,437.68	Aaa AAA NA
91282CFZ9	US Treasury	UNITED STATES TREASURY 3.875 11/30/2027	11/30/2027 2.753	3,570,000.00 --- 3,587,190.62	3.88	3,570,000.00	99.7305	3,560,377.74 34,584.38 3,594,962.12	Aaa AA+ AA+
91282CGC9	US Treasury	UNITED STATES TREASURY 3.875 12/31/2027	12/31/2027 2.838	2,100,000.00 01/20/2023 2,129,613.28	3.88	2,100,000.00	99.7500	2,094,750.00 13,487.57 2,108,237.57	Aaa AA+ AA+
91282CEF4	US Treasury	UNITED STATES TREASURY 2.5 03/31/2027	03/31/2027 2.085	3,300,000.00 --- 3,081,140.63	2.50	3,300,000.00	97.0820	3,203,707.02 34,450.55 3,238,157.57	Aaa AA+ AA+
91282CHA2	US Treasury	UNITED STATES TREASURY 3.5 04/30/2028	04/30/2028 3.170	2,400,000.00 05/12/2023 2,406,750.00	3.50	2,400,000.00	98.5664	2,365,593.74 28,077.35 2,393,671.09	Aaa AA+ AA+
91282CFU0	US Treasury	UNITED STATES TREASURY 4.125 10/31/2027	10/31/2027 2.671	1,650,000.00 09/07/2023 1,625,378.91	4.13	1,650,000.00	100.3750	1,656,187.50 22,750.17 1,678,937.67	Aaa AA+ AA+
91282CHX2	US Treasury	UNITED STATES TREASURY 4.375 08/31/2028	08/31/2028 3.507	1,625,000.00 09/11/2023 1,623,032.22	4.38	1,625,000.00	101.2383	1,645,122.07 193.19 1,645,315.26	Aaa AA+ AA+
91282CJW2	US Treasury	UNITED STATES TREASURY 4.0 01/31/2029	01/31/2029 3.925	2,700,000.00 --- 2,673,058.60	4.00	2,700,000.00	99.9922	2,699,789.08 8,651.93 2,708,441.01	Aaa AA+ AA+
91282CKA8	US Treasury	UNITED STATES TREASURY 4.125 02/15/2027	02/15/2027 1.964	2,950,000.00 --- 2,923,935.55	4.13	2,950,000.00	100.2344	2,956,914.06 4,706.15 2,961,620.21	Aaa AA+ AA+
91282CED9	US Treasury	UNITED STATES TREASURY 1.75 03/15/2025	03/15/2025 0.041	3,600,000.00 --- 3,528,441.42	1.75	3,600,000.00	99.9132	3,596,874.95 29,063.54 3,625,938.48	Aaa AA+ AA+
91282CKJ9	US Treasury	UNITED STATES TREASURY 4.5 04/15/2027	04/15/2027 2.126	3,800,000.00 04/25/2024 3,763,039.07	4.50	3,800,000.00	101.0195	3,838,742.18 64,359.89 3,903,102.07	Aaa AA+ AA+
91282CKG5	US Treasury	UNITED STATES TREASURY 4.125 03/31/2029	03/31/2029 4.085	2,250,000.00 04/25/2024 2,191,201.17	4.13	2,250,000.00	100.4375	2,259,843.75 38,756.87 2,298,600.62	Aaa AA+ AA+
912828ZL7	US Treasury	UNITED STATES TREASURY 0.375 04/30/2025	04/30/2025 0.167	2,250,000.00 --- 2,224,845.72	0.38	2,250,000.00	99.3698	2,235,820.32 2,820.27 2,238,640.59	Aaa AA+ AA+
91282CKE0	US Treasury	UNITED STATES TREASURY 4.25 03/15/2027	03/15/2027 2.041	2,050,000.00 04/30/2024 2,016,287.11	4.25	2,050,000.00	100.4961	2,060,169.93 40,193.02 2,100,362.95	Aaa AA+ AA+
91282CEQ0	US Treasury	UNITED STATES TREASURY 2.75 05/15/2025	05/15/2025 0.208	1,125,000.00 05/23/2022 1,123,549.81	2.75	1,125,000.00	99.6828	1,121,431.64 9,059.05 1,130,490.68	Aaa AA+ AA+
91282CKR1	US Treasury	UNITED STATES TREASURY 4.5 05/15/2027	05/15/2027 2.208	1,400,000.00 --- 1,397,375.00	4.50	1,400,000.00	101.0703	1,414,984.37 18,447.51 1,433,431.88	Aaa AA+ AA+
91282CEY3	US Treasury	UNITED STATES TREASURY 3.0 07/15/2025	07/15/2025 0.375	1,875,000.00 --- 1,866,772.47	3.00	1,875,000.00	99.5254	1,866,101.08 6,992.40 1,873,093.48	Aaa AA+ AA+

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

CUSIP	Security Type	Issue	Maturity Date, Years to F nal Mat t	Original Par, Purchase Date, Original Cost	Coupon Rate	Current Par	Market Price	Market Value, Accrued Balance, Total Market Value	Moody's Rating, S&P Rating, Fitch Rating
91282CFE6	US Treasury	UNITED STATES TREASURY 3.125 08/15/2025	08/15/2025 0.460	2,075,000.00 09/08/2022 2,051,169.92	3.13	2,075,000.00	99.4688	2,063,976.56 2,507.77 2,066,484.33	Aaa AA+ AA+
91282CFP1	US Treasury	UNITED STATES TREASURY 4.25 10/15/2025	10/15/2025 0.627	2,250,000.00 --- 2,237,460.95	4.25	2,250,000.00	100.0049	2,250,109.87 35,990.73 2,286,100.60	Aaa AA+ AA+
91282CGE5	US Treasury	UNITED STATES TREASURY 3.875 01/15/2026	01/15/2026 0.879	2,300,000.00 01/20/2023 2,302,605.47	3.88	2,300,000.00	99.7727	2,294,771.09 11,079.07 2,305,850.16	Aaa AA+ AA+
91282CHK0	US Treasury	UNITED STATES TREASURY 4.0 06/30/2028	06/30/2028 3.337	750,000.00 02/04/2025 743,115.23	4.00	750,000.00	100.0586	750,439.45 4,972.38 755,411.83	Aaa AA+ AA+
91282CKX8	US Treasury	UNITED STATES TREASURY 4.25 06/30/2029	06/30/2029 4.334	750,000.00 02/04/2025 747,158.20	4.25	750,000.00	100.9414	757,060.55 5,283.15 762,343.69	Aaa AA+ AA+
91282CKD2	US Treasury	UNITED STATES TREASURY 4.25 02/28/2029	02/28/2029 4.000	750,000.00 02/04/2025 747,685.55	4.25	750,000.00	100.8945	756,708.98 86.62 756,795.60	Aaa AA+ AA+
91282CMN8	US Treasury	UNITED STATES TREASURY 4.25 02/15/2028	02/15/2028 2.964	4,850,000.00 --- 4,831,451.17	4.25	4,850,000.00	100.7891	4,888,269.51 7,971.69 4,896,241.19	Aaa AA+ AA+
91282CGH8	US Treasury	UNITED STATES TREASURY 3.5 01/31/2028	01/31/2028 2.923	1,700,000.00 05/18/2023 1,686,785.16	3.50	1,700,000.00	98.6992	1,677,886.72 4,766.57 1,682,653.30	Aaa AA+ AA+
91282CJC6	US Treasury	UNITED STATES TREASURY 4.625 10/15/2026	10/15/2026 1.627	1,700,000.00 10/30/2023 1,687,382.81	4.63	1,700,000.00	100.9180	1,715,605.47 29,592.38 1,745,197.85	Aaa AA+ AA+
91282CGP0	US Treasury	UNITED STATES TREASURY 4.0 02/29/2028	02/29/2028 3.003	1,400,000.00 11/29/2023 1,385,890.63	4.00	1,400,000.00	100.0586	1,400,820.32 152.17 1,400,972.49	Aaa AA+ AA+
91282CJN2	US Treasury	UNITED STATES TREASURY 4.375 11/30/2028	11/30/2028 3.756	1,550,000.00 12/14/2023 1,585,662.11	4.38	1,550,000.00	101.2930	1,570,041.02 16,953.13 1,586,994.14	Aaa AA+ AA+
91282CKK6	US Treasury	UNITED STATES TREASURY 4.875 04/30/2026	04/30/2026 1.167	2,000,000.00 --- 1,995,312.50	4.88	2,000,000.00	100.8555	2,017,109.38 32,589.78 2,049,699.16	Aaa AA+ AA+
91282CLL3	US Treasury	UNITED STATES TREASURY 3.375 09/15/2027	09/15/2027 2.545	5,000,000.00 --- 4,981,855.47	3.38	5,000,000.00	98.5703	4,928,515.60 77,848.76 5,006,364.36	Aaa AA+ AA+
91282CLG4	US Treasury	UNITED STATES TREASURY 3.75 08/15/2027	08/15/2027 2.460	2,300,000.00 09/26/2024 2,313,566.41	3.75	2,300,000.00	99.4648	2,287,691.41 3,335.64 2,291,027.05	Aaa AA+ AA+
91282CLQ2	US Treasury	UNITED STATES TREASURY 3.875 10/15/2027	10/15/2027 2.627	2,250,000.00 10/18/2024 2,250,703.13	3.88	2,250,000.00	99.7500	2,244,375.00 32,815.08 2,277,190.08	Aaa AA+ AA+
91282CLS8	US Treasury	UNITED STATES TREASURY 4.125 10/31/2026	10/31/2026 1.671	2,200,000.00 10/30/2024 2,198,023.43	4.13	2,200,000.00	100.1563	2,203,437.50 30,333.56 2,233,771.06	Aaa AA+ AA+
91282CGL9	US Treasury	UNITED STATES TREASURY 4.0 02/15/2026	02/15/2026 0.964	2,500,000.00 --- 2,483,105.47	4.00	2,500,000.00	99.8367	2,495,917.98 3,867.40 2,499,785.38	Aaa AA+ AA+
91282CHB0	US Treasury	UNITED STATES TREASURY 3.625 05/15/2026	05/15/2026 1.208	1,150,000.00 05/16/2023 1,147,259.77	3.63	1,150,000.00	99.4609	1,143,800.79 12,206.84 1,156,007.62	Aaa AA+ AA+
91282CJK8	US Treasury	UNITED STATES TREASURY 4.625 11/15/2026	11/15/2026 1.712	1,500,000.00 --- 1,495,129.88	4.63	1,500,000.00	100.9727	1,514,589.84 20,314.23 1,534,904.07	Aaa AA+ AA+
91282CET4	US Treasury	UNITED STATES TREASURY 2.625 05/31/2027	05/31/2027 2.252	1,100,000.00 12/14/2023 1,051,746.09	2.63	1,100,000.00	97.0938	1,068,031.25 7,218.75 1,075,250.00	Aaa AA+ AA+

CHANDLER ASSET MANAGEMENT

Holdings

As of 02/28/2025

Tampa Bay Water Cons Agg (362512)

Dated: 03/03/2025

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91282CJT9	US Treasury	UNITED STATES TREASURY 4.0 01/15/2027	01/15/2027 1.879	1,500,000.00 01/11/2024 1,496,542.97	4.00	1,500,000.00	99.9883	1,499,824.22 7,458.56 1,507,282.78	Aaa AA+ AA+
91282CEW7	US Treasury	UNITED STATES TREASURY 3.25 06/30/2027	06/30/2027 2.334	1,100,000.00 01/31/2024 1,073,015.63	3.25	1,100,000.00	98.4258	1,082,683.59 5,925.41 1,088,609.01	Aaa AA+ AA+
91282CFM8	US Treasury	UNITED STATES TREASURY 4.125 09/30/2027	09/30/2027 2.586	1,000,000.00 04/25/2024 978,046.88	4.13	1,000,000.00	100.3906	1,003,906.25 17,225.27 1,021,131.52	Aaa AA+ AA+
91282CFH9	US Treasury	UNITED STATES TREASURY 3.125 08/31/2027	08/31/2027 2.504	1,000,000.00 04/25/2024 947,695.31	3.13	1,000,000.00	97.9844	979,843.75 84.92 979,928.67	Aaa AA+ AA+
91282CFB2	US Treasury	UNITED STATES TREASURY 2.75 07/31/2027	07/31/2027 2.419	1,000,000.00 04/25/2024 937,382.81	2.75	1,000,000.00	97.1953	971,953.12 2,203.04 974,156.16	Aaa AA+ AA+
91282CKS9	US Treasury	UNITED STATES TREASURY 4.875 05/31/2026	05/31/2026 1.252	1,500,000.00 06/18/2024 1,504,628.91	4.88	1,500,000.00	100.9453	1,514,179.68 18,281.25 1,532,460.93	Aaa AA+ AA+
91282CKY6	US Treasury	UNITED STATES TREASURY 4.625 06/30/2026	06/30/2026 1.334	1,000,000.00 07/03/2024 998,945.31	4.63	1,000,000.00	100.7148	1,007,148.44 7,665.75 1,014,814.19	Aaa AA+ AA+
912797LW5	US Treasury	UNITED STATES TREASURY 07/10/2025	07/10/2025 0.361	1,000,000.00 07/30/2024 956,283.33	0.00	1,000,000.00	98.5056	985,055.71 0.00 985,055.71	P-1 A-1+ F1+
912797MG9	US Treasury	UNITED STATES TREASURY 08/07/2025	08/07/2025 0.438	1,000,000.00 08/27/2024 959,962.22	0.00	1,000,000.00	98.1861	981,861.05 0.00 981,861.05	P-1 A-1+ F1+
91282CFK2	US Treasury	UNITED STATES TREASURY 3.5 09/15/2025	09/15/2025 0.545	450,000.00 09/19/2022 444,937.50	3.50	450,000.00	99.5945	448,175.39 7,265.88 455,441.27	Aaa AA+ AA+
91282CLP4	US Treasury	UNITED STATES TREASURY 3.5 09/30/2026	09/30/2026 1.586	2,000,000.00 10/18/2024 1,983,046.88	3.50	2,000,000.00	99.1914	1,983,828.12 29,230.77 2,013,058.89	Aaa AA+ AA+
91282CFW6	US Treasury	UNITED STATES TREASURY 4.5 11/15/2025	11/15/2025 0.712	1,400,000.00 11/10/2022 1,409,132.81	4.50	1,400,000.00	100.1875	1,402,625.00 18,447.51 1,421,072.51	Aaa AA+ AA+
91282CMB4	US Treasury	UNITED STATES TREASURY 4.0 12/15/2027	12/15/2027 2.794	1,750,000.00 12/12/2024 1,743,164.06	4.00	1,750,000.00	100.0859	1,751,503.92 14,615.38 1,766,119.30	Aaa AA+ AA+
91282CGA3	US Treasury	UNITED STATES TREASURY 4.0 12/15/2025	12/15/2025 0.794	500,000.00 12/31/2022 497,578.13	4.00	500,000.00	99.8695	499,347.66 4,175.82 503,523.48	Aaa AA+ AA+
91282CME8	US Treasury	UNITED STATES TREASURY 4.25 12/31/2026	12/31/2026 1.838	1,200,000.00 12/30/2024 1,199,859.38	4.25	1,200,000.00	100.4141	1,204,968.74 8,453.04 1,213,421.78	Aaa AA+ AA+
912797NZ6	US Treasury	UNITED STATES TREASURY 04/15/2025	04/15/2025 0.126	750,000.00 02/19/2025 745,233.26	0.00	750,000.00	99.4940	746,204.81 0.00 746,204.81	P-1 A-1+ F1+
---	**---**	**---**	**01/16/2027 1.883**	**174,845,193.02 --- 173,813,536.14**	**3.64**	**174,845,193.02**	**99.2182**	**174,597,320.25 1,443,565.56 176,040,885.81**	**Aa1 AA AA**

* Weighted by: Market Value. * Holdings Displayed by: Position.

CHANDLER ASSET MANAGEMENT

BOND MARKET REVIEW

A Monthly Review of Fixed Income Markets

February 2025

Market Data

World Stock Market Indices
data as of 1/31/2025

	Change (12/31/2024)	%CHG
S&P 500		
6,040.53	158.63	2.70%
NASDAQ		
19,627.44	316.65	1.64%
DOW JONES		
44,544.66	2000.44	4.70%
FTSE (UK)		
8,673.96	500.94	6.13%
DAX (Germany)		
21,732.05	1,822.91	9.16%
Hang Seng (Hong Kong)		
20,225.11	165.16	0.82%
Nikkei (Japan)		
39,572.49	(322.05)	-0.81%

Source: Bloomberg. Please see descriptions of indices on Page 2.

CHANDLER ASSET MANAGEMENT

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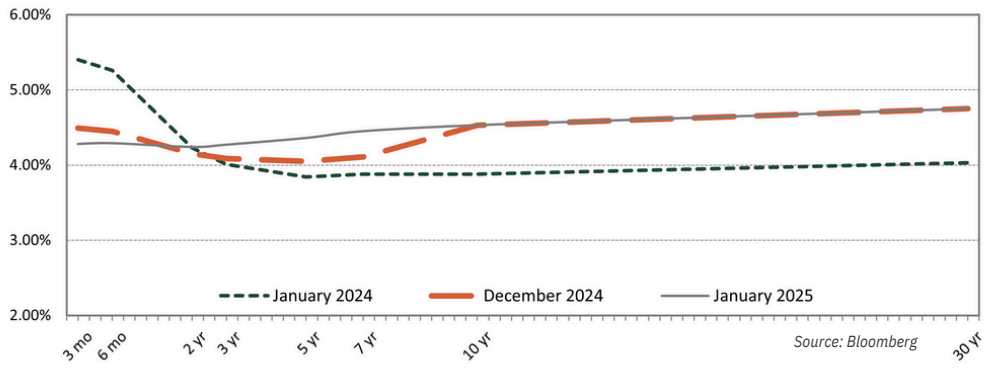
Market Summary

Recent disinflationary trends appear to have stalled in January as CPI data came in hotter than anticipated. While the labor market remains solid, job creation slowed, reflecting an improved balance between supply and demand for workers. The transition to the Trump administration appears to have ushered in a marked shift in fiscal policy. Yet, it is the Chandler team's view that monetary policy will remain focused on the Fed's dual mandate of full employment and price stability. As such, we expect gradual normalization of monetary policy and a steepening yield curve.

As broadly anticipated, the Federal Open Market Committee (FOMC) left the Fed Funds Rate unchanged at the range of 4.25-4.50% at the January meeting. Chair Jerome Powell reiterated previous statements indicating the economy is in a good place and that monetary policy is well positioned, adding that the committee is in no hurry to make any changes to monetary policy. The Chandler team believes monetary policy easing will continue at a slower cadence, as changes to fiscal policy begin taking shape in 2025.

US Treasury yields shifted slightly lower in January. The 2-year Treasury yield declined 4 basis points to 4.20%, the 5-year Treasury fell 5 basis points to 4.33%, and the 10-year Treasury yield dropped 3 basis points to 4.54%. The spread between the 2-year and 10-year Treasury yield points on the curve increased slightly to +34 basis points at January month-end versus +33 basis points at December month-end. The spread between the 2-year Treasury and 10-year Treasury yield one year ago was -30 basis points. The spread between the 3-month and 10-year Treasury yield points on the curve was +25 basis points in January, unchanged from December.

VOLATILITY REARS UP THE TREASURY YIELD CURVE IN JANUARY



Treasury yields whipsawed in January with the 2-year, 5-year, and 10-year starting the month lower following the late December rally, increasing on average 20 basis points midmonth, only to fall 27 basis points lower on average at the lowest point for the month amid a flight to quality. The transition to the Trump administration and perceived sweeping changes to fiscal policy has contributed to the recent volatility across capital markets.

TREASURY YIELDS	Trend (▲/▼)	1/31/24	12/31/24	Change
3-Month	▼	4.29	4.32	-0.03
2-Year	▼	4.20	4.24	-0.04
3-Year	▼	4.24	4.27	-0.03
5-Year	▼	4.33	4.38	-0.05
7-Year	▼	4.44	4.48	-0.04
10-Year	▼	4.54	4.57	-0.03
30-Year	▲	4.79	4.78	0.01

Source: Bloomberg

BOND MARKET REVIEW

Since 1988, Chandler Asset Management has specialized in providing fixed income investment solutions to risk-averse public agencies and institutions. Chandler's mission is to provide fully customizable client-centered portfolio management that preserves principal, mitigates risk, and generates income in our clients' portfolios.

Credit Spreads Were Wider in January

CREDIT SPREADS	Spread to Treasuries	One Month Ago	Change
3-month top rated commercial paper	(%) 4.31	(%) 4.31	-
2-year A corporate note	0.28	0.29	(0.01)
5-year A corporate note	0.52	0.48	0.04
5-year Agency note	0.04	0.02	0.02

Source: Bloomberg

Data as of 1/31/2025

Crude Oil Prices Exhibited Volatility in January

ECONOMIC INDICATOR	Current Release	Prior Release	One Year Ago
Trade Balance	(98.43) $B In DEC. 31	(78.94) $B In NOV. 30	(64.92) $B In DEC. 31
Gross Domestic Product	2.30% DEC. 31	3.10% SEP. 30	3.20% DEC. 31
Unemployment Rate	4.00% JAN. 31	4.10% DEC. 31	3.70% JAN. 31
Prime Rate	7.50% JAN. 31	7.50% DEC. 31	8.50% JAN. 31
Refinitiv/CoreCommodity CRB Index	304.95 JAN. 31	296.72 DEC. 31	272.41 JAN. 31
Oil (West Texas Int.)	$2.53 JAN. 31	$71.72 DEC. 31	$75.85 JAN. 31
Consumer Price Index (y/o/y)	3.00% JAN. 31	2.90% DEC. 31	3.10% JAN. 31
Producer Price Index (y/o/y)	2.90% JAN. 31	2.80% DEC. 31	(0.80%) JAN. 31
Euro/Dollar	1.04 JAN. 31	1.04 DEC. 31	1.08 JAN. 31

Source: Bloomberg

Economic Roundup

Consumer Prices

The headline Consumer Price Index (CPI) accelerated to 0.5% month-over-month and 3.0% year-over-year in January. The Core CPI, which excludes the volatile food and energy sectors, jumped 0.4% month-over-month and 3.3% year-over-year. While seasonal adjustments likely played a role, shelter costs comprised about 30% of the overall rise. Notably, egg prices soared 15% in the month, driven by the avian influenza outbreak that led to mass culling and supply shortages. At the same time, rising costs in auto insurance, used vehicles, medical care, communication, and airfares also contributed to the hotter than expected inflation reading. Headline PCE was in line with consensus expectations for the December period both on a month-over-month, at 0.3%, and on a year-over-year basis at 2.6%. The Fed's preferred gauge, Core PCE, was unchanged from the prior month at 2.8% year-over-year. Yet, Core PCE increased from 0.1% to 0.2% month-over-month, again raising some concerns over the pace of slowing inflation.

Retail Sales

The Advance Retail Sales report for January fell short of expectations, dropping 0.9% month-over-month following a +0.7% increase in December. On a year-over-year basis, retail sales were up 4.2% on a seasonally but not price adjusted basis. Motor vehicle and parts dealers gained 6.4% year-over-year, while restaurants and bars were up 5.4% versus one year ago. The weaker January retail sales estimates versus December were likely due to the upward revisions to the strong holiday shopping season and consumers front loading purchases in anticipation of tariffs.

Labor Market

The U.S. economy added 143,000 jobs in January, below consensus expectations, and the last two months were revised up by 100,000. Gains were led by retail and health care. The three-month moving average and six-month moving average payrolls totaled 237,000 and 178,000 respectively. The unemployment rate declined to 4.0% in January, and the labor participation rate edged up to 62.6%, remaining below the pre-pandemic level of 63.3%. The U-6 underemployment rate, which includes those who are marginally attached to the labor force and employed part-time for economic reasons remained unchanged at 7.5%. Average hourly earnings ticked up to an increase of 4.1% year-over-year in January.

Housing Starts

Housing starts surged by 15.8% in December to 1.5 million units after declining in the prior three months. Total starts are down 4.4% compared to December 2023. The supply of existing homes is gradually becoming more abundant after the period of scarcity as homeowners held onto their low mortgage rates. The Freddie Mac 30-year fixed rate mortgage averaged approximately 7% in January. According to the Case-Shiller 20-City Home Price Index, housing prices rose 4.3% year-over-year in November versus 4.2% year-over-year in October. With more inventory entering the market the trend is gradually improving; however higher mortgage rates continue to impact affordability.

World Stock Market Index Descriptions
S&P 500–The S&P 500 is a market value-weighted index of 500 large-capitalization stocks. The 500 companies included in the index capture approximately 80% of available US market capitalization. NASDAQ–The NASDAQ Composite Index is the market capitalization-weighted index of over 3.300 common stocks listed on the NASDAQ stock exchange. Dow Jones–The Dow Jones Industrial Average is an index that tracks 30 large, publicly-owned companies trading on the New York Stock Exchange and the NASDAQ. The Financial Times Stock Exchange Group (FTSE)–The FTSE is a share index of the 100 companies listed on the London Stock Exchange with the highest market capitalization. DAX–The Deutscher Aktienindex (DAX) is a blue chip stock market index consisting of the 30 major German companies trading on the Frankfurt Stock Exchange. Hang Seng–The Hang Seng Index is a freefloat-adjusted market-capitalization- weighted stock market index in Hong Kong. It is used to record and monitor daily changes of the largest companies of the Hong Kong stock market and is the main indicator of overall market performance in Hong Kong. Nikkei–Japan's Nikkei 225 Stock Average is a price-weighted index composed of Japan's top 225 blue-chip companies traded on the Tokyo Stock Exchange.

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TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.8

DATE: March 3, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Potential True-Up of Fixed Costs between Member Governments through February 2025 - *Receive Report*

SUMMARY

Member Government actual contributions are adjusted at year-end to the current year's budgeted fixed costs, based upon their pro-rata portion of current year production. The process is referred to as True-Up and occurs after each fiscal year has closed (September 30). The attached tables report the member's actual allocation of fixed costs if the true-up was conducted through February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

To assist our Members in their planning and budgeting, we present a monthly schedule that shows the potential true-up adjustment due each September based on the water production to date for the current fiscal year. This is done to ensure that each member is aware of the upcoming true-up billing and that the member government will have time to take appropriate planning measures for the September 2025 year-end closeout.

Each member is billed for fixed charges through the year based upon their respective pro-rata share of the prior year's production.

BACKGROUND

As required by the Master Water Supply Contract, each member's actual contributions are adjusted at year-end to the current year's budgeted fixed costs, based upon their pro-rata portion of current year production.

Attachments (1)

Potential True Up FEB-28-2025

POTENTIAL TRUE UP FOR FY 2025 AS OF 2/28/2025

	MONTHLY DEMAND							
	ST PETE	PINELLAS	TAMPA (Morris Br)	HILLSBOROUGH	PASCO	NEW PORT RICHEY	TOTALS	
Oct-24	904.65	1,561.19	-	2,291.20	1,189.80	92.80	6,039.64	
Nov-24	875.78	1,532.79	-	2,521.60	1,207.78	88.75	6,226.70	
Dec-24	852.96	1,503.59	-	2,423.36	1,188.49	90.50	6,058.90	
Jan-25	822.77	1,453.04	-	2,257.00	1,130.56	87.17	5,750.54	
Feb-25	754.68	1,332.85	-	2,138.32	1,074.72	80.44	5,381.01	
Mar-25							-	
Apr-25							-	
May-25							-	
Jun-25							-	
Jul-25							-	
Aug-25							-	
Sep-25							-	
FY 24 FYE	10,205.79	18,489.55	1,384.86	27,783.45	13,827.04	1,166.15	72,856.84	199.06 MGD
FY 25 YTD	4,210.84	7,383.46	-	11,631.48	5,791.35	439.66	29,456.79	195.08 MGD
+ / -	(5,994.95)	(11,106.09)	(1,384.86)	(16,151.97)	(8,035.69)	(726.49)	(43,400.05)	(3.98) MGD
FY25 YTD MGD	27.89	48.90	-	77.03	38.35	2.91	195.08	
% of YTD	14.29%	25.07%	0.00%	39.49%	19.66%	1.49%	100.00%	
FY 24 MGD	27.88	50.52	3.78	75.91	37.78	3.19	199.06	
% of FY 24	14.12%	25.09%	2.30%	39.48%	17.49%	1.52%	100.00%	
Fixed billed FY25	21,704,592.98	39,329,843.52	2,942,731.76	59,095,970.34	29,411,747.59	2,483,416.49	154,968,302.68	
Actual fixed based on % of ytd	$ 22,152,676.09	$ 38,843,413.15	$ -	$ 61,191,688.34	$ 30,467,531.59	$ 2,312,993.51	$ 154,968,302.68	
Potential True-up	$ 448,083.11	$ (486,430.37)	$ (2,942,731.76)	$ 2,095,718.00	$ 1,055,784.00	$ (170,422.98)	$ 0.00	

TAMPA BAY WATER
Supplying Water To The Region

AGENDA ITEM F.9

DATE: March 1, 2025

TO: Board of Directors

THRU: Charles H. Carden, General Manager

FROM: Christina Sackett, Chief Financial Officer

SUBJECT: Vendor's Status Report for February 2025 - *Receive Report*

SUMMARY

The attached is a status report of As-Needed Professional Service Contractors and Vendors utilized by Tampa Bay Water through February 2025.

SUGGESTED ACTION

Receive and File.

COST/FUNDING SOURCE

N/A

DISCUSSION

Attached is a summary of the as-needed contracted services being utilized by the agency through February 2025. This report shows the total contract values, cumulative purchase orders issued against the contracts, and actual expenditures made under the contracts.

Attachment (1)

Contract Summary

Monthly Status Report of Vendors

February 1, 2025 thru February 28, 2025

Vendor Name and Contract Dates	Contract Amount Authorized	Current Period PO Amount Issued	Previous PO Amount Issued	Total PO Issued To Date	Total Expended To Date	Outstanding PO Balance
A.C. SCHULTES OF FLORIDA, INC. 08/19/19 thru 09/30/22 2019053	$800,000.00		$830,000.00	$830,000.00	$564,500.00	$265,500.00
A.C. SCHULTES OF FLORIDA, INC. 11/18/24 thru 03/30/26 2025700	$500,000.00		$0.00	$0.00	$0.00	$0.00
ACLARIAN LLC 10/20/22 thru 05/25/25 2023702	$98,000.00		$98,000.00	$98,000.00	$76,013.10	$21,986.90
ADVANCED ENVIRONMENTAL LABORATORIES, 03/21/22 thru 02/28/23 2022036	$150,000.00		$165,000.00	$165,000.00	$108,527.10	$56,472.90
ADVANCED ROOFING, INC. 11/22/23 thru 11/30/24 2024012	$600,000.00		$210,000.00	$210,000.00	$143,241.05	$66,758.95
AECOM TECHNICAL SERVICES, INC. 09/20/21 thru 09/01/26 2021038	$2,000,000.99		$792,010.00	$792,010.00	$272,463.55	$519,546.45
AECOM TECHNICAL SERVICES, INC. 07/15/24 thru 12/31/26 2024029	$5,254,167.00		$5,254,167.00	$5,254,167.00	$346,133.70	$4,908,033.30
AIR MECHANICAL & SERVICE CORP. 10/01/22 thru 02/02/23 2023701	$1,482,000.00		$1,385,048.65	$1,385,048.65	$1,072,396.23	$312,652.42
AIRGAS SPECIALTY PRODUCTS, INC. 01/01/23 thru 12/31/23 2023016V	$1,776,549.95		$1,814,539.00	$1,814,539.00	$1,355,813.26	$458,725.74
AIRGAS USA, LLC 08/19/24 thru 09/30/25 2025012	$5,820,720.00		$1,842,895.00	$1,842,895.00	$1,063,041.70	$779,853.30
AJAX PAVING INDUSTRIES OF FLORIDA LLC 10/18/21 thru 09/02/23 2022701	$800,000.00		$754,763.00	$754,763.00	$554,493.00	$200,270.00
ALAN PLUMMER AND ASSOCIATES, INC. 05/09/22 thru 09/01/26 2021036V	$2,001,205.65		$189,376.00	$189,376.00	$171,935.33	$17,440.67
ALLIED UNIVERSAL CORPORATION 10/01/23 thru 09/30/24 2024006	$10,706,145.91		$10,706,145.91	$10,706,145.91	$6,225,332.02	$4,480,813.89
AMERICAN SPIRALWELD PIPE CO. 10/29/24 thru 12/31/29 2025707	$55,000,000.00		$46,085,053.72	$46,085,053.72	$0.00	$46,085,053.72

Contract Summary

Monthly Status Report of Vendors

February 1, 2025 thru February 28, 2025

Vendor Name and Contract Dates	Contract Amount Authorized	Current Period PO Amount Issued	Previous PO Amount Issued	Total PO Issued To Date	Total Expended To Date	Outstanding PO Balance
AMERICAN WATER ACCIONA AGUA LLC 11/15/04 thru 2005062	$52,976,932.15		$30,283,041.89	$30,283,041.89	$28,300,029.48	$1,983,012.41
AMICI ENGINEERING CONTRACTORS, LLC 08/16/21 thru 09/30/25 2021046	$2,000,000.00		$1,150,000.00	$1,150,000.00	$958,305.24	$191,694.76
APPLIED DRILLING ENG 11/18/24 thru 03/30/26 2025701	$500,000.00		$0.00	$0.00	$0.00	$0.00
APPLIED ECOLOGY, INC 03/15/22 thru 03/31/25 2022035	$500,000.00		$162,453.30	$162,453.30	$80,792.48	$81,660.82
APPLIED ECOLOGY, INC 10/01/22 thru 09/30/26 2022054	$364,150.83		$290,073.02	$290,073.02	$165,378.27	$124,694.75
ARCADIS US INC. 03/21/22 thru 05/01/27 2022019	$750,000.00	$312,423.00	$311,760.00	$624,183.00	$311,760.00	$312,423.00
ARCHER WESTERN CONSTRUCTION LLC 12/16/21 thru 06/30/25 2022010	$6,449,468.15		$5,878,100.00	$5,878,100.00	$5,674,980.73	$203,119.27
ARCHER WESTERN CONSTRUCTION LLC 11/14/22 thru 11/14/24 2023001	$22,450,100.00		$22,450,100.00	$22,450,100.00	$19,440,817.88	$3,009,282.12
ARCHER WESTERN CONSTRUCTION LLC 02/03/25 thru 07/23/27 2025036	$3,319,100.00	$3,319,100.00	$0.00	$3,319,100.00	$0.00	$3,319,100.00
ARDURRA GROUP, INC 09/20/21 thru 09/01/26 2021030	$2,000,001.00		$341,505.00	$341,505.00	$183,372.73	$158,132.27
ARDURRA GROUP, INC 10/03/24 thru 09/30/29 2025002	$500,000.00		$0.00	$0.00	$0.00	$0.00
B & I CONTRACTORS, INC. 09/19/22 thru 09/30/23 2022059V	$368,984.50		$354,871.26	$354,871.26	$254,871.25	$100,000.01
BAL ENGINEERING, INC. 02/14/19 thru 2019700	$90,000.00		$87,400.00	$87,400.00	$76,795.00	$10,605.00
BAL ENGINEERING, INC. 09/18/23 thru 12/10/25 2024701	$200,000.00		$45,000.00	$45,000.00	$4,100.00	$40,900.00

Contract Summary

Monthly Status Report of Vendors

February 1, 2025 thru February 28, 2025

Vendor Name and Contract Dates	Contract Amount Authorized	Current Period PO Amount Issued	Previous PO Amount Issued	Total PO Issued To Date	Total Expended To Date	Outstanding PO Balance
BAYVIEW PUBLIC RELATIONS INC. 10/01/22 thru 09/30/25 2023024	$525,000.00		$65,523.00	$65,523.00	$62,184.50	$3,338.50
BIG SEA, INC. 10/01/22 thru 09/30/24 2023011	$320,000.00		$127,425.00	$127,425.00	$100,725.00	$26,700.00
BLACK & VEATCH CORPORATION 09/01/16 thru 10/26/25 2016031	$3,950,877.00		$2,997,744.00	$2,997,744.00	$2,761,201.46	$236,542.54
BLACK & VEATCH CORPORATION 09/20/21 thru 09/30/29 2022001	$24,024,246.92		$13,684,648.80	$13,684,648.80	$9,950,725.95	$3,733,922.85
BUENAVENTURA LAW, PLLC 11/25/24 thru 12/31/25 2024025V	$83,000.00		$82,758.82	$82,758.82	$13,423.90	$69,334.92
BUSH GRAZIANO RICE & HEARING, P.A. 10/16/23 thru 10/16/24 2024014	$125,000.00		$55,000.00	$55,000.00	$13,323.52	$41,676.48
CARMEUSE LIME & STONE, INC. 08/15/22 thru 09/30/23 2023018	$6,498,752.47		$6,562,946.00	$6,562,946.00	$5,310,478.53	$1,252,467.47
CAROLLO ENGINEERS INC 09/20/21 thru 09/01/26 2021029	$2,000,000.00		$680,681.50	$680,681.50	$464,810.32	$215,871.18
CATALYST COMMUNICATIONS GROUP LLC 10/01/22 thru 09/30/25 2023010	$945,000.00		$203,268.15	$203,268.15	$192,954.30	$10,313.85
CDM SMITH INC 09/20/21 thru 09/01/26 2021033	$2,000,001.00		$529,678.98	$529,678.98	$508,368.01	$21,310.97
CDW LLC 01/16/25 thru 12/31/26 2025712	$287,327.00		$0.00	$0.00	$0.00	$0.00
CEC MOTOR & UTILITY SERVICES LLC 04/17/23 thru 04/30/27 2023032	$1,000,000.00		$100,000.00	$100,000.00	$59,379.50	$40,620.50
CENTURION PROJECT MANAGEMENT LLC 02/15/21 thru 02/28/23 2021020	$600,000.00		$56,055.00	$56,055.00	$56,055.00	$0.00
CHA CONSULTING INC 07/19/21 thru 07/31/25 2020032V	$1,535,511.11		$1,410,511.11	$1,410,511.11	$1,335,020.07	$75,491.04

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CHANDLER ASSET MANAGEMENT, INC. 08/17/20 thru 12/13/22 2021700	$526,975.00		$360,451.30	$360,451.30	$295,988.38	$64,462.92
CHEMICAL SYSTEMS OF ORLANDO, INC. 08/19/24 thru 09/30/25 2025013	$1,377,306.28		$637,162.00	$637,162.00	$190,602.07	$446,559.93
CITRUS PARK WELL DRILLING & IRRIGATION INC 06/20/22 thru 06/30/23 2022058	$400,000.00		$0.00	$0.00	$0.00	$0.00
CITRUS SPRINGS INDUSTRIAL HOLDINGS LLC 11/18/24 thru 11/18/25 AGR2025006	$144,500.00		$0.00	$0.00	$0.00	$0.00
CIVILSURV DESIGN GROUP, INC. 10/01/24 thru 09/30/29 2025003	$500,000.00		$0.00	$0.00	$0.00	$0.00
CL2 SOLUTIONS, LLC. 10/23/24 thru 10/23/25 2025706	$30,000.00		$0.00	$0.00	$0.00	$0.00
CLEAN SPRAY CORPORATION 05/16/22 thru 08/03/25 2022708	$300,000.00		$0.00	$0.00	$0.00	$0.00
CONN & BUENAVENTURA, P.A. 11/13/23 thru 12/31/24 2024025	$195,000.00		$182,000.00	$182,000.00	$91,807.71	$90,192.29
CORCORAN & ASSOCIATES, INC. 08/18/20 thru 08/18/23 2021004	$750,000.00		$702,200.00	$702,200.00	$587,470.00	$114,730.00
CORE & MAIN LP 11/06/24 thru 12/31/29 2025709	$4,000,000.00		$2,576,187.02	$2,576,187.02	$0.00	$2,576,187.02
CORRPRO COMPANIES, INC. 01/01/22 thru 12/31/26 2022011	$750,000.00		$616,153.00	$616,153.00	$317,327.98	$298,825.02
CUMBEY & FAIR, INC. 10/03/24 thru 09/30/29 2025004	$500,000.00		$190,000.00	$190,000.00	$82,512.00	$107,488.00
DESIGNER AT LARGE 10/01/22 thru 09/30/24 2023012	$160,000.00		$42,089.00	$42,089.00	$42,089.00	$0.00
DEWBERRY ENGINEERS, INC 05/17/21 thru 12/31/25 2017026V	$566,095.97		$197,920.00	$197,920.00	$163,856.84	$34,063.16

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DEWBERRY ENGINEERS, INC 09/20/21 thru 09/01/26 2021034	$2,000,001.00		$173,953.00	$173,953.00	$20,570.13	$153,382.87
DEWBERRY ENGINEERS, INC 10/03/24 thru 09/30/29 2025005	$500,000.00		$0.00	$0.00	$0.00	$0.00
DIALOGUE PUBLIC RELATIONS, LLC 10/01/22 thru 09/30/25 2023009	$945,000.00		$340,337.50	$340,337.50	$292,169.19	$48,168.31
DIGITAL AERIAL SOLUTIONS, LLC 08/16/21 thru 09/30/24 2022002	$669,856.96		$504,780.52	$504,780.52	$494,780.52	$10,000.00
DIGITAL AERIAL SOLUTIONS, LLC 10/21/24 thru 09/30/28 2025010	$807,383.68	$195,076.82	$198,345.94	$393,422.76	$0.00	$393,422.76
DONALD J POLMANN 04/17/23 thru 04/30/26 2023509	$150,000.00		$10,625.00	$10,625.00	$10,625.00	$0.00
EARTH RESOURCES, INC. 03/15/22 thru 03/31/25 2022027	$500,000.00		$7,389.24	$7,389.24	$7,389.24	$0.00
EARTH RESOURCES, INC. 10/03/22 thru 09/30/26 2022053	$417,406.07		$336,324.26	$336,324.26	$240,614.40	$95,709.86
EARTHBALANCE 03/29/22 thru 03/31/25 2022041	$500,000.00		$32,994.00	$32,994.00	$32,994.00	$0.00
ECO-LAND DESIGN, LLC 08/19/24 thru 09/30/25 2025025	$279,000.00		$2,500.00	$2,500.00	$150.00	$2,350.00
ECOHYDROLOGIX LLC 03/15/22 thru 03/31/25 2022032	$500,000.00		$29,750.00	$29,750.00	$29,750.00	$0.00
ECOHYDROLOGIX LLC 10/03/22 thru 09/30/26 2022055	$655,976.00		$511,400.00	$511,400.00	$330,839.82	$180,560.18
ELECTRIC GAS INDUSTRIES ASSOCIATION 10/21/19 thru 10/31/24 2020010	$18,145,813.00		$5,493,184.00	$5,493,184.00	$3,154,471.03	$2,338,712.97
ELECTRICAL ENGINEERING ENTERPRISES INC 12/14/20 thru 12/14/22 2021014	$1,615,000.00		$1,579,248.00	$1,579,248.00	$900,323.14	$678,924.86

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ELECTRICAL ENGINEERING ENTERPRISES INC 12/19/24 thru 08/24/26 2025028	$1,717,198.00		$1,717,198.00	$1,717,198.00	$53,525.00	$1,663,673.00
ELECTRICAL ENGINEERING ENTERPRISES INC 11/18/24 thru 12/31/26 2025040	$228,175.00		$50,000.00	$50,000.00	$0.00	$50,000.00
EMERGENCY MANAGEMENT SERVICES 12/16/24 thru 10/23/27 2025710	$75,000.00		$0.00	$0.00	$0.00	$0.00
ENERGY CAP, LLC 02/18/19 thru 2019030	$148,662.25		$148,662.25	$148,662.25	$142,408.05	$6,254.20
ENTERPRISE FM TRUST 02/19/18 thru 2018704	$3,656,500.00		$2,722,904.49	$2,722,904.49	$2,508,395.95	$214,508.54
ENVIRONMENTAL SCIENCE ASSOCIATES 06/15/20 thru 12/31/24 2020709	$1,520,000.00		$1,614,104.96	$1,614,104.96	$1,484,945.57	$129,159.39
ENVIRONMENTAL SCIENCE ASSOCIATES 08/17/20 thru 09/30/25 2021001	$2,739,331.00		$2,739,331.00	$2,739,331.00	$2,337,771.29	$401,559.71
ENVIRONMENTAL SCIENCE ASSOCIATES 04/14/22 thru 03/31/25 2022030	$500,000.00		$364,724.00	$364,724.00	$276,540.16	$88,183.84
ENVIRONMENTAL SCIENCE ASSOCIATES 03/21/22 thru 03/31/25 2022034V	$500,000.00		$65,127.00	$65,127.00	$61,926.16	$3,200.84
ENVIRONMENTAL SCIENCE ASSOCIATES 09/20/24 thru 06/14/29 2025704	$2,374,000.00	$42,036.00	$0.00	$42,036.00	$0.00	$42,036.00
F.H. BLACK AND COMPANY INC. 08/17/20 thru 12/21/25 2021701	$100,000.00		$74,300.00	$74,300.00	$60,606.25	$13,693.75
FARMLAND RESERVE, INC. 02/11/25 thru 12/31/25 AGR202507B	$9,475,019.00		$0.00	$0.00	$0.00	$0.00
FIVE12 PAINTING & REMODELING LLC 10/01/22 thru 09/30/23 2023014	$475,993.00		$259,280.00	$259,280.00	$136,840.00	$122,440.00
FLATWOODS CONSULTING GROUP, INC. 03/15/22 thru 03/31/25 2022029	$500,000.00		$17,500.00	$17,500.00	$16,259.35	$1,240.65

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FLORIDA TREE AND PROPERTY MAINTENANCE 01/01/23 thru 12/31/23 2023025	$1,040,313.75		$875,000.00	$875,000.00	$659,735.50	$215,264.50
FRONT LINE POWER LLC 11/18/24 thru 12/31/26 2025039	$164,182.40		$50,000.00	$50,000.00	$2,163.00	$47,837.00
GANNETT FLEMING, INC 08/17/20 thru 2020020	$2,499,999.10		$1,528,303.60	$1,528,303.60	$1,193,203.20	$335,100.40
GARNEY COMPANIES, INC. 11/13/23 thru 12/31/27 2023027	$74,892,435.07		$12,621,064.92	$12,621,064.92	$3,327,689.20	$9,293,375.72
GEOPOINT SURVEYING, INC. 09/20/21 thru 09/30/25 2021043	$598,281.60		$340,272.24	$340,272.24	$276,446.00	$63,826.24
GEORGE F YOUNG INC 10/01/24 thru 09/30/29 2025006	$500,000.00		$0.00	$0.00	$0.00	$0.00
GEOSYNTEC CONSULTANTS, INC. 10/17/22 thru 09/30/25 2023007	$600,000.00		$146,735.00	$146,735.00	$137,351.25	$9,383.75
GHD SERVICES, INC. 09/20/21 thru 09/30/24 2022007	$450,000.00		$199,275.77	$199,275.77	$151,729.39	$47,546.38
GRAY ROBINSON, P.A. 12/17/18 thru 09/30/19 2019039	$680,000.00		$591,975.11	$591,975.11	$314,349.72	$277,625.39
GSI ENVIRONMENTAL, INC. 10/21/19 thru 10/31/24 2020017	$1,500,000.00		$1,426,343.96	$1,426,343.96	$1,300,508.16	$125,835.80
GSI ENVIRONMENTAL, INC. 11/15/24 thru 10/31/29 2025021	$1,000,000.00		$0.00	$0.00	$0.00	$0.00
HAWKINS, INC. 08/15/22 thru 09/30/23 2023019	$1,251,100.00		$774,420.00	$774,420.00	$561,219.45	$213,200.55
HAZEN & SAWYER, P.C. 10/21/19 thru 10/30/25 2020013	$400,000.00		$359,650.83	$359,650.83	$344,008.33	$15,642.50
HAZEN & SAWYER, P.C. 10/21/19 thru 10/31/24 2020018	$800,000.00		$220,000.00	$220,000.00	$191,749.14	$28,250.86

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HAZEN & SAWYER, P.C. 09/20/21 thru 09/01/26 2021032	$2,000,001.00		$867,650.00	$867,650.00	$266,494.00	$601,156.00
HAZEN & SAWYER, P.C. 03/21/22 thru 05/01/27 2022020	$750,000.00		$475,263.00	$475,263.00	$412,929.54	$62,333.46
HAZEN & SAWYER, P.C. 11/08/22 thru 12/31/25 2022060	$1,089,370.10		$819,965.00	$819,965.00	$517,680.65	$302,284.35
HAZEN & SAWYER, P.C. 10/17/22 thru 09/30/25 2023006	$600,000.00		$66,200.00	$66,200.00	$11,098.00	$55,102.00
HAZEN & SAWYER, P.C. 11/18/24 thru 05/18/26 2024030	$2,630,698.00		$2,630,698.00	$2,630,698.00	$1,987.20	$2,628,710.80
HAZEN & SAWYER, P.C. 11/15/24 thru 10/31/29 2025022	$1,000,000.00		$20,000.00	$20,000.00	$0.00	$20,000.00
HILLSBOROUGH COUNTY 10/01/24 thru 09/30/25 AGR2025001	$200,245.00		$200,245.00	$200,245.00	$45,030.40	$155,214.60
HPC INDUSTRIAL SERVICES, LLC 08/19/24 thru 09/30/25 2025020	$141,726.50		$0.00	$0.00	$0.00	$0.00
HSW CONSULTING LLC 09/20/21 thru 09/30/24 2022006	$450,000.00		$106,572.00	$106,572.00	$45,748.25	$60,823.75
HUSS DRILLING, INC 08/19/24 thru 09/30/26 2024702	$806,525.00		$0.00	$0.00	$0.00	$0.00
IN DEPTH INC. 10/16/23 thru 03/30/25 2024008	$200,000.00		$100,000.00	$100,000.00	$0.00	$100,000.00
INTERA, INC. 10/21/19 thru 10/31/24 2020019	$749,999.90		$346,400.58	$346,400.58	$225,618.99	$120,781.59
JACOBS ENGINEERING GROUP INC 09/20/21 thru 09/01/26 2021037	$1,999,001.00		$598,793.24	$598,793.24	$547,283.53	$51,509.71
JACOBS ENGINEERING GROUP INC 08/21/23 thru 05/30/27 2023026	$836,348.00		$836,348.00	$836,348.00	$428,002.00	$408,346.00

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JOHN H GRANGER MAINTENANCE & 08/16/21 thru 09/30/25 2021044	$2,000,000.00		$1,727,504.00	$1,727,504.00	$1,344,840.70	$382,663.30
JONES WALKER, LLP 01/01/24 thru 01/01/25 2024040	$160,000.00		$160,000.00	$160,000.00	$93,628.38	$66,371.62
KAT CONSTRUCTION & MATERIALS, INC. 09/30/24 thru 12/31/26 2020044V	$10,663,512.64	$9,606,512.64	$1,057,000.00	$10,663,512.64	$307,780.05	$10,355,732.59
KAT CONSTRUCTION & MATERIALS, INC. 12/01/23 thru 12/31/25 2024011	$1,335,340.00		$1,335,340.00	$1,335,340.00	$1,233,038.30	$102,301.70
KELLER AMERICA, INC 08/19/24 thru 09/30/26 2025001	$226,224.60		$22,627.80	$22,627.80	$22,627.80	$0.00
LAND RESERVE, INC. 02/11/25 thru 12/31/25 AGR202507A	$9,475,019.00		$0.00	$0.00	$0.00	$0.00
LHOIST NORTH AMERICA OF ALABAMA, LLC 09/05/24 thru 09/30/25 2025011	$747,176.60		$375,113.00	$375,113.00	$87,543.74	$287,569.26
LOCHER ENVIRONMENTAL TECHNOLOGY LLC 01/05/22 thru 12/01/27 2022704	$143,673.00		$50,000.00	$50,000.00	$31,447.69	$18,552.31
MAINZER MANAGEMENT INC 10/01/23 thru 09/30/25 2024004	$185,800.00		$185,800.00	$185,800.00	$92,028.00	$93,772.00
MATHESON TRI-GAS INC. 10/01/20 thru 09/30/21 2021008	$4,115,334.79		$3,663,872.75	$3,663,872.75	$3,548,595.14	$115,277.61
MATHESON TRI-GAS INC. 01/01/25 thru 09/30/25 2025017	$1,585,528.99		$856,610.00	$856,610.00	$93,339.63	$763,270.37
MAULDIN & JENKINS, LLC 04/18/22 thru 02/01/25 2022900	$601,900.00		$433,000.00	$433,000.00	$373,700.00	$59,300.00
MCKIM & CREED PA 09/20/21 thru 09/01/26 2021035	$2,000,001.01		$298,645.00	$298,645.00	$189,733.10	$108,911.90
MONTROSE ENVIRONMENTAL SOLUTIONS, INC. 09/20/21 thru 09/30/24 2022008	$450,000.00	$13,104.00	$91,970.00	$105,074.00	$89,550.75	$15,523.25

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NABORS, GIBLIN, & NICKERSON P.A. 12/17/18 thru 09/17/19 2019040	$125,000.00		$151,292.14	$151,292.14	$59,361.77	$91,930.37
NATIONAL EC SERVICES, INC. 10/17/22 thru 09/30/25 2023005	$600,000.00		$514,960.00	$514,960.00	$394,907.50	$120,052.50
ODYSSEY MANUFACTURING COMPANY 10/01/21 thru 09/30/22 2022016	$11,010,042.79		$11,008,515.75	$11,008,515.75	$10,886,166.14	$122,349.61
ODYSSEY MANUFACTURING COMPANY 01/01/25 thru 09/30/25 2025018	$15,603,383.60		$3,630,497.00	$3,630,497.00	$543,520.90	$3,086,976.10
PACE ANALYTICAL SERVICES, LLC. 03/21/22 thru 02/28/23 2022037	$50,000.00		$25,000.00	$25,000.00	$0.00	$25,000.00
PAFF TREE SERVICE, LLC 03/29/22 thru 03/31/23 2022046	$650,000.00		$498,609.00	$498,609.00	$416,225.00	$82,384.00
PARTRIDGE WELL DRILLING COMPANY, INC 11/18/24 thru 03/30/26 2025702	$500,000.00		$0.00	$0.00	$0.00	$0.00
PASCO COUNTY OFFICES 10/01/24 thru 09/30/25 AGR2025002	$193,107.00		$193,107.00	$193,107.00	$0.00	$193,107.00
PCL CONSTRUCTION, INC. 09/02/21 thru 02/28/23 2021012GP1	$263,049.60		$315,382.60	$315,382.60	$247,650.20	$67,732.40
PCL CONSTRUCTION, INC. 09/02/21 thru 02/28/23 2021012GP2	$3,865,758.57		$5,588,671.01	$5,588,671.01	$3,685,105.62	$1,903,565.39
PCL CONSTRUCTION, INC. 11/15/21 thru 04/30/23 2021012GP3	$1,719,635.64		$1,719,635.64	$1,719,635.64	$1,626,951.92	$92,683.72
PCL CONSTRUCTION, INC. 11/15/21 thru 04/30/23 2021012GP4	$1,506,874.37		$1,411,101.70	$1,411,101.70	$1,297,607.83	$113,493.87
PCL CONSTRUCTION, INC. 04/01/22 thru 06/30/23 2021012GP5	$919,009.85		$719,009.85	$719,009.85	$672,571.07	$46,438.78
PCL CONSTRUCTION, INC. 08/21/23 thru 04/30/25 2023028	$1,504,600.00		$1,504,600.00	$1,504,600.00	$1,374,806.02	$129,793.98

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PCL CONSTRUCTION, INC. 08/21/23 thru 05/30/27 2023029	$147,958.00		$147,958.00	$147,958.00	$58,684.37	$89,273.63
PERSONNEL SOLUTIONS PLUS LLC 05/15/23 thru 04/02/28 2023705	$200,000.00		$25,000.00	$25,000.00	$21,918.00	$3,082.00
PERSSON, COHEN, MOONEY, FERNANDEZ & 03/01/24 thru 02/28/25 2024002	$326,700.00		$326,700.00	$326,700.00	$272,289.14	$54,410.86
PFM ASSET MANAGEMENT LLC 06/09/06 thru 09/30/17 2006067	$500,000.00		$275,915.00	$275,915.00	$223,407.50	$52,507.50
PFM FINANCIAL ADVISORS LLC 05/15/23 thru 03/21/26 2023703	$144,000.00		$36,000.00	$36,000.00	$12,500.00	$23,500.00
PINELLAS COUNTY BOARD OF COUNTY 10/01/24 thru 09/30/25 AGR2025003	$188,107.00		$188,107.00	$188,107.00	$40,695.98	$147,411.02
PIPER FIRE PROTECTION, INC. 10/01/22 thru 09/30/23 2023020	$500,000.00		$426,101.92	$426,101.92	$278,854.60	$147,247.32
PLYMOUTH PLAZA, LLC 01/01/25 thru 12/31/25 2025044	$67,500.00		$50,625.00	$50,625.00	$7,258.06	$43,366.94
POLYDYNE INC 10/01/23 thru 09/30/24 2024005	$940,662.00		$979,892.00	$979,892.00	$635,662.50	$344,229.50
POND & COMPANY 12/14/20 thru 12/14/25 2021017	$682,000.00	$120,700.00	$551,349.98	$672,049.98	$531,227.39	$140,822.59
PRITCHETT STEINBECK GROUP, INC. 02/18/19 thru 02/28/22 2019018	$300,000.00		$204,552.25	$204,552.25	$158,940.76	$45,611.49
PRITCHETT STEINBECK GROUP, INC. 08/16/21 thru 09/30/26 2022003	$788,415.00		$712,358.00	$712,358.00	$528,132.42	$184,225.58
PRITCHETT STEINBECK GROUP, INC. 03/15/22 thru 03/31/25 2022028	$570,000.00		$368,911.05	$368,911.05	$237,679.92	$131,231.13
PRITCHETT STEINBECK GROUP, INC. 10/03/22 thru 09/30/26 2022052	$616,926.00		$454,294.00	$454,294.00	$331,334.88	$122,959.12

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PROJECT MANAGEMENT SOLUTIONS, INC. 02/15/21 thru 02/28/23 2021019	$600,000.00		$382,225.00	$382,225.00	$357,225.00	$25,000.00
PVS TECHNOLOGIES, INC. 09/05/24 thru 09/30/25 2025014	$904,500.00		$480,067.00	$480,067.00	$23,821.55	$456,245.45
QUEST ECOLOGY INC 03/29/22 thru 03/31/25 2022043	$500,000.00	$53,546.85	$264,286.80	$317,833.65	$240,059.94	$77,773.71
RADIO ONE, INC. 09/29/21 thru 02/28/24 2021710	$714,300.00		$548,012.14	$548,012.14	$486,933.58	$61,078.56
RAFTELIS FINANCIAL CONSULTANTS, INC. 03/21/22 thru 05/01/27 2022021	$750,000.00		$490,850.00	$490,850.00	$169,606.42	$321,243.58
RAZORBACK LLC 10/16/23 thru 03/30/25 2024009	$400,000.00		$35,200.00	$35,200.00	$32,600.00	$2,600.00
RICK RICHARDS, INC. 04/05/22 thru 03/31/25 2022045	$954,700.00		$125,550.00	$125,550.00	$73,150.00	$52,400.00
RICK RICHARDS, INC. 03/21/22 thru 03/31/23 2022047	$800,000.00		$300,000.00	$300,000.00	$259,944.00	$40,056.00
ROWLAND (DE), LLC 08/16/21 thru 09/30/25 2021045	$2,000,000.00		$558,610.00	$558,610.00	$200,786.21	$357,823.79
ROWLAND (DE), LLC 08/16/21 thru 09/30/25 2021047	$2,000,000.00		$1,870,000.00	$1,870,000.00	$1,546,004.07	$323,995.93
SMITH INDUSTRIES INC 03/21/22 thru 03/31/23 2022049	$800,000.00		$393,976.90	$393,976.90	$361,903.35	$32,073.55
SOLAR JET PRODUCTIONS LLC 10/01/22 thru 09/30/24 2023023	$160,000.00		$12,070.80	$12,070.80	$12,070.80	$0.00
SOUTHEAST DRILLING SERVICES INC 08/19/24 thru 09/30/26 2025026	$3,000,000.00	$100,000.00	$0.00	$100,000.00	$0.00	$100,000.00
SOUTHEAST DRILLING SERVICES INC 11/18/24 thru 03/30/26 2025703	$500,000.00		$0.00	$0.00	$0.00	$0.00

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SOUTHWEST FLORIDA WATER MANAGEMENT 10/01/20 thru 08/01/24 AGR2021005	$2,864,476.00		$0.00	$0.00	$0.00	$0.00
SOUTHWEST FLORIDA WATER MANAGEMENT 10/01/21 thru AGR2021013	$8,918,414.00		$0.00	$0.00	$0.00	$0.00
STAG INDUSTRIES LLC 07/15/24 thru 07/31/25 2024018	$175,000.00		$175,000.00	$175,000.00	$62,305.65	$112,694.35
STANTEC CONSULTING SERVICES, INC. 02/17/20 thru 12/31/24 2020026	$1,479,296.62	$156,387.50	$1,163,516.00	$1,319,903.50	$1,266,451.83	$53,451.67
STANTEC CONSULTING SERVICES, INC. 10/27/20 thru 09/30/26 2021002	$2,497,571.00		$2,297,571.00	$2,297,571.00	$1,402,314.20	$895,256.80
STANTEC CONSULTING SERVICES, INC. 08/16/21 thru 02/28/29 2021025	$15,070,883.14		$14,069,090.00	$14,069,090.00	$8,800,266.49	$5,268,823.51
STANTEC CONSULTING SERVICES, INC. 09/20/21 thru 09/01/26 2021028	$2,000,001.00		$411,506.00	$411,506.00	$55,058.30	$356,447.70
STANTEC CONSULTING SERVICES, INC. 09/20/21 thru 09/30/24 2022009V	$450,000.00		$0.00	$0.00	$0.00	$0.00
STANTEC CONSULTING SERVICES, INC. 03/21/22 thru 03/31/25 2022040V	$399,435.00		$285,280.00	$285,280.00	$241,793.96	$43,486.04
STARBOARD CONSULTING LLC 04/15/24 thru 04/15/25 2024001	$243,020.00		$243,020.00	$243,020.00	$84,240.00	$158,780.00
SULPHURIC ACID TRADING CO. INC 09/05/24 thru 09/30/25 2025016	$3,582,555.13		$2,273,649.00	$2,273,649.00	$891,831.12	$1,381,817.88
SURVTECH SOLUTIONS, INC. 10/01/24 thru 09/30/29 2025007	$500,000.00		$0.00	$0.00	$0.00	$0.00
TAMCO ELECTRIC INC 12/14/20 thru 12/14/22 2021013	$1,200,000.00		$1,109,846.67	$1,109,846.67	$803,558.25	$306,288.42
TAMCO ELECTRIC INC 11/18/24 thru 12/31/26 2025038	$60,875.00		$50,000.00	$50,000.00	$0.00	$50,000.00

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TAMPA ARMATURE WORKS INC 05/11/23 thru 04/30/27 2023031	$1,500,000.00		$385,000.00	$385,000.00	$166,856.64	$218,143.36
TAMPA BAY ESTUARY PROGRAM 07/19/21 thru 12/31/26 AGR2021010	$60,000.00		$0.00	$0.00	$0.00	$0.00
TAMPA BAY ESTUARY PROGRAM 02/21/22 thru 05/31/25 AGR2022006	$282,776.00		$0.00	$0.00	$0.00	$0.00
TAMPA ELECTRIC CO 11/18/24 thru 12/31/25 AGR2025005	$1,744,735.00		$0.00	$0.00	$0.00	$0.00
THATCHER CHEMICAL OF FLORIDA INC. 08/15/22 thru 09/30/23 2023017	$14,054,958.71		$14,081,873.00	$14,081,873.00	$11,518,269.35	$2,563,603.65
THATCHER CHEMICAL OF FLORIDA INC. 08/19/24 thru 09/30/25 2025015	$352,226.00		$313,466.00	$313,466.00	$0.00	$313,466.00
THE VALERIN GROUP, INC. 10/01/22 thru 09/30/24 2023013	$160,000.00		$1,500.00	$1,500.00	$1,500.00	$0.00
THERMO ELECTRON NORTH AMERICA LLC 03/18/24 thru 03/31/26 2024015	$232,780.65		$155,187.10	$155,187.10	$123,407.65	$31,779.45
TLC DIVERSIFIED, INC. 05/20/24 thru 11/20/25 2024013	$6,508,280.00		$6,508,280.00	$6,508,280.00	$545,064.59	$5,963,215.41
TUCKER ENTERPRISE SERVICES, INC. 03/21/22 thru 03/31/23 2022048	$650,000.00		$220,000.00	$220,000.00	$146,115.00	$73,885.00
U.S. DEPARTMENT OF AGRICULTURE - FLORIDA 10/01/24 thru 09/30/25 2025035	$54,993.17		$54,993.17	$54,993.17	$4,907.67	$50,085.50
UNIVERSAL PROTECTION SERVICE LP 06/15/20 thru 03/09/25 2020707	$6,266,012.78		$5,868,670.13	$5,868,670.13	$5,638,830.77	$229,839.36
UNIVERSAL PROTECTION SERVICE, LLC 02/24/25 thru 09/30/27 2025714	$1,162,950.00		$0.00	$0.00	$0.00	$0.00
UNIVERSITY OF CENTRAL FLORIDA 08/30/22 thru 12/31/24 2022024	$89,091.00		$89,091.00	$89,091.00	$89,090.99	$0.01

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UNIVERSITY OF CENTRAL FLORIDA 08/16/24 thru 06/30/25 2024017	$90,000.00		$90,000.00	$90,000.00	$12,857.14	$77,142.86
UNIVERSITY OF CENTRAL FLORIDA 09/30/24 thru 11/30/26 2024021	$115,840.00		$115,840.00	$115,840.00	$0.00	$115,840.00
UNIVERSITY OF CENTRAL FLORIDA 02/18/21 thru 06/30/24 AGR2021008	$168,343.00		$115,486.00	$115,486.00	$102,478.00	$13,008.00
UNIVERSITY OF FLORIDA 10/01/24 thru 09/30/25 2025031	$70,000.00		$70,000.00	$70,000.00	$0.00	$70,000.00
UNIVERSITY OF NORTH CAROLINA AT CHAPEL 07/01/24 thru 06/30/25 2024016	$99,000.00		$99,000.00	$99,000.00	$0.00	$99,000.00
UNIVERSITY OF SOUTH FLORIDA 09/19/22 thru 08/31/25 2022066	$80,000.00		$80,000.00	$80,000.00	$40,000.00	$40,000.00
UNIVERSITY OF SOUTH FLORIDA 09/01/24 thru 02/28/26 2024019	$89,996.00		$89,996.00	$89,996.00	$29,999.00	$59,997.00
UNIVERSITY OF SOUTH FLORIDA 05/01/24 thru 07/31/25 2024020	$77,962.00		$77,962.00	$77,962.00	$38,981.00	$38,981.00
US WATER-ACCIONA SEAWATER DESLINATION 07/17/23 thru 11/15/29 2005062V	$33,277,794.42	$161,952.82	$32,610,627.29	$32,772,580.11	$20,109,440.40	$12,663,139.71
USGS 10/01/23 thru 12/31/25 2024003	$134,900.00		$134,900.00	$134,900.00	$101,175.00	$33,725.00
USGS 10/01/24 thru 09/30/25 AGR2025004	$141,400.00		$0.00	$0.00	$0.00	$0.00
V&A CONSULTING ENGINEERING, INC. 08/17/22 thru 09/01/26 2021027V	$2,040,278.53		$613,616.13	$613,616.13	$233,251.80	$380,364.33
VANASSE HANGEN BRUSTLIN INC 04/05/22 thru 03/31/25 2022033	$500,000.00	$55,390.00	$116,385.00	$171,775.00	$101,360.00	$70,415.00
VEOLIA WATER NORTH AMERICA 04/10/00 thru 01/15/28 2000028	$76,246,855.82	$1,672,093.57	$43,752,476.12	$45,424,569.69	$26,040,248.95	$19,384,320.74

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VERIZON FLORIDA INC 08/25/20 thru 12/31/25 2020054	$1,479,750.14		$1,663,000.00	$1,663,000.00	$1,239,134.17	$423,865.83
WADE-TRIM INC 08/16/21 thru 02/28/29 2021024	$32,856,082.00		$32,856,082.00	$32,856,082.00	$12,200,574.77	$20,655,507.23
WADE-TRIM INC 09/20/21 thru 09/01/26 2021031	$2,000,001.00		$289,766.00	$289,766.00	$106,182.47	$183,583.53
WANTMAN GROUP, INC 10/01/19 thru 09/30/24 2020005	$400,000.00		$180,680.00	$180,680.00	$168,650.00	$12,030.00
WANTMAN GROUP, INC 10/01/24 thru 09/30/29 2025009	$500,000.00		$0.00	$0.00	$0.00	$0.00
WATER & AIR RESEARCH, INC. 03/21/22 thru 03/31/25 2022042	$500,000.00		$296,353.49	$296,353.49	$225,917.24	$70,436.25
WILDLANDS CONSERVATION, INC. 03/21/22 thru 03/31/25 2022044	$500,000.00	$15,500.00	$459,603.71	$475,103.71	$225,261.58	$249,842.13
WISE CONSULTING GROUP 08/16/21 thru 09/30/26 2022004	$450,960.00		$429,012.00	$429,012.00	$286,559.52	$142,452.48
WSP USA INC 09/20/21 thru 09/30/24 2022005	$481,520.00		$131,215.00	$131,215.00	$89,515.00	$41,700.00
WSP USA INC 03/21/22 thru 03/21/26 2022031V	$460,660.50		$0.00	$0.00	$0.00	$0.00
WSP USA INC 03/21/22 thru 05/01/27 2022051	$750,000.00		$164,910.37	$164,910.37	$17,299.50	$147,610.87
WSP USA INC 10/01/24 thru 09/30/29 2025008	$500,000.00		$0.00	$0.00	$0.00	$0.00
XTREMELY CLEAN JANITORIAL SERVICES, LLC. 07/01/23 thru 10/31/23 2023704	$743,726.59		$493,986.59	$493,986.59	$347,067.69	$146,918.90