

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: December 2, 2025 Consent [X] Regular []
Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: **A)** Work Order (WO) No. 10 to the Contract for Engineering and Construction Services for Optimization and Improvements Design-Build (Contract) with Globaltech, Inc., (Globaltech) for the Water Treatment Plant No. 9 (WTP 9) Membrane Expansion (Project) for a Guaranteed Maximum Price in the amount of \$7,498,562; and **B)** a Budget Transfer in the amount of \$3,298,831 in the Water Utilities Department's Capital Improvement Fund to fully fund the Project.

Summary: On January 24, 2023, the Board of County Commissioners (BCC) approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2023-0086) with Globaltech, which had a start date of December 20, 2022. WO No. 10 includes the expansion and replacement of the existing membranes and pressure vessels. The Project also includes upgrading the sulfuric acid pumps, ammonia meters, and 4-log evaluation, increased capacity, replacement of six (6) membrane feed pumps, modifications of inlet/outlet reducers and concrete pedestals for the new pump footprint, and replacement of six (6) variable frequency drives (VFDs) with new conduit and wiring. Expansion of the existing membranes will increase the plant capacity to 33.58 MGD.

This Contract was presented to the Goal Setting Committee (Committee) on October 6, 2021, and the Committee established an Affirmative Procurement Initiative (API) of a minimum 20% mandatory Small Business Enterprise (SBE) subcontracting goal. Globaltech committed to 24% SBE participation. The proposed SBE participation for this WO No. 10 is 2.89%. To date, the overall participation achieved on this Contract is 14.50%. Globaltech is a Palm Beach County based company. The Project is included in the PBCWUD FY 2026 Budget. (PBCWUD Project No. 25-026) District 5 (MWJ)

Background and Justification: PBCWUD owns and operates WTP 9 and increasing the capacity of the plant will require expansion of the nanofiltration membranes, replacement of the existing membranes, and upgrades to the membrane feed pumps and VFDs. The expansion of WTP 9 will meet the newly published per- and polyfluoroalkyl (PFAS) regulations and ensure regulatory compliance in the long term for the Eastern water distribution system.

Attachments:

- 1. Two (2) Originals of Work Order No. 10
- 2. Location Map
- 3. EBIX Compliance Summary Report
- 4. Budget Transfer

Recommended By: Ali Bayat 10/15/25
Department Director Date

Approved By: [Signature] 10/18/25
Chief Deputy County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2026	2027	2028	2029	2030			
Capital Expenditures	<u>\$7,498,562</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
NET FISCAL IMPACT	<u>\$7,498,562</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Budget Account No.:	Fund	<u>4001</u>	Dept	<u>721</u>	Unit	<u>W005</u>	Object	<u>6541</u>

Is Item Included in Current Budget? Yes ____ No X

Is this item using Federal Funds? Yes ____ No X

Is this item using State Funds? Yes ____ No X

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time expenditure from user fees, connection fees and balance brought forward.
A \$3,298,831 Budget Transfer in the Water Utilities Department's Capital Improvement
Fund to fully fund the Project.

C. Department Fiscal Review: Joany Foreman

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

Shirley M. ... 11/6/25
OFMB
11/5
11-6-25

Frank ... 11/12/25
Contract Development and Control
11-7-25
11-12-25 TD

B. Legal Sufficiency:

[Signature] 11/13/25
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

WORK ORDER NO. 10
Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build
Resolution No. R2023-0086 Contract Dated December 20, 2022

Project Title: Water Treatment Plant No. 9 Membrane Expansion

PBCWUD Project No.: 25-026

Design-Build Entity: Globaltech, Inc.

Address: 901 Yamato Rd. Ste. 220, Boca Raton, Florida 33431

Budget Line Item No.: 4011 - 721 - W005 - 6541

District: 5

This Work Order provides: for design and construction services for Water Treatment Plant No. 9 (WTP 9), including increasing the nanofiltration train capacity by adding additional pressure vessels to the membrane trains, replacing existing membranes, replacing the membrane feed pumps and Variable Frequency Drives (VFDs), and upgrading the ammonia mass flow meters. The scope also includes a 4-log virus removal evaluation and permitting to support increased flows. These modifications will increase the plant's pumping capacity.

See **ATTACHMENT A** for a detailed scope of services.

The Contract provides for 24% SBE participation. This Work Order includes 2.89% overall SBE participation. The cumulative SBE participation, including this Work Order, is 14.50%.

1. Services completed by the Design-Build Entity to date:

See **ATTACHMENT B**.

2. Design-Build Entity shall begin work within ten (10) calendar days from the issuance of Notice to Proceed (NTP). Execution of the Project will be accomplished as follows, from the issuance of the NTP:
Substantial Completion 570 Calendar Days
Final Construction Completion 630 Calendar Days

Liquidated damages will apply as follows:

\$1,000.00 per day past substantial completion date.
\$500.00 per day past final completion date.

3. The Guaranteed Maximum Price compensation to be paid to the Design-Build Entity for providing the requested services in accordance with the Contract Bid Prices is \$7,498,562.00.
4. This Work Order does not amend, change, or modify the Contract, which remains in full force and effect.
5. All attachments to this Work Order are incorporated herein and made a part of this Work Order.
6. The Contract and this Work Order is subject to the County Emergency Ordinance 2025-014, approved by the Board of County Commissioners on June 3, 2025.

WORK ORDER NO. 10
Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build
Resolution No. R2023-0086 Contract Dated December 20, 2022

Project Title: Water Treatment Plant No. 9 Membrane Expansion

PBCWUD Project No.: 25-026

IN WITNESS WHEREOF, this Work Order is accepted, subject to the terms, conditions, and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Michael A. Caruso, Clerk of the Circuit Court
& Comptroller, Palm Beach County

Palm Beach County,
Board of County Commissioners

ATTEST:

Signed: _____

26
2/11/23 Signed: _____
Sara Baxter, Mayor

Typed Name: _____
Deputy Clerk

(Date)

Globaltech, Inc.
(Design-Build Entity)

Approved as to Form and Legal Sufficiency

Bruce Rahmani, PE
(Print Name)

Signed: _____

B. Rahmani
(Signature)

Typed Name: Michael W. Jones
County Attorney

Vice President of Construction
(Title)

10/30/25
(Date)

STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization on this 30 day of October 2025 by Bruce Rahmani, who is ☒ personally known to me or ☐ has produced _____ as identification.



R. Cloyd
(Signature of Notary Public - State of Florida)

(Print, Type, or Stamp Commissioned Name of Notary Public)

LIST OF ATTACHMENTS

ATTACHMENT A	Scope of Work
ATTACHMENT B	Summary and Status of Work Orders
ATTACHMENT C	Public Construction Bond
ATTACHMENT D	Form of Guarantee
ATTACHMENT E	Work Order Schedule of Bid Items
ATTACHMENT F	OEBO Schedules 1 and 2
ATTACHMENT G	Summary of SBE Business Tracking
ATTACHMENT H	Location Map
ATTACHMENT I	Design-Build Criteria
ATTACHMENT J	Supporting Document

ATTACHMENT A

SCOPE OF WORK

PBCWUD PROJECT NO.: 25-026

PROJECT TITLE: Water Treatment Plant No. 9 Membrane Expansion

Globaltech, Inc., DESIGN-BUILD ENTITY, (DBE) shall perform the Scope of Services as described in the Design-Criteria Report and as further described herein:

Administrative and Engineering Services

1. Meet with the Palm Beach County Water Utilities Department (PBCWUD) to review the project scope and schedule. Conduct a site visit to inspect the work items listed below and develop the design accordingly.
2. Develop subcontracts with electrical engineers and other entities as required.
3. Develop a preliminary site plan layout and equipment layout(s).
4. Prepare a Preliminary Design Technical Memorandum (TM). The TM shall provide a brief description of the equipment, including its design parameters and layout(s). Equipment cut sheet examples for major equipment shall be provided in the TM. A preliminary site plan and equipment layout(s) will be provided. Five (5) copies of the TM and a Portable Document Format (PDF) version shall be submitted.
5. Prepare and submit design deliverables for 60%, 90%, and 100% completion. Half-size drawings and PDF files are to be submitted for PBCWUD's review.
6. Prepare and submit documents to the Florida Department of Health (FDOH) for permitting purposes. PBCWUD will pay for permit fees.
7. The 4-log virus removal will be reevaluated to account for the new system capacity and to meet current and future regulations.
8. Updated documentation will be submitted for approval if the existing disinfection strategy no longer meets regulatory requirements.
9. Prepare a detailed construction schedule.
10. Prepare submittals (or confirmation of compliance with PBCWUD design standards), administer, and track the submittal process.
11. Prepare the equipment data sheet and asset collection form.
12. Conduct the Engineer's site visits during construction to confirm that the work is being performed in conformance with the Design Drawings and Specifications.
13. Prepare Record Drawings and Operation & Maintenance (O&M) Manuals.
14. Close out the FDOH permit.

Construction Services

1. Establish staging areas with Water Treatment Plant No. 9 (WTP 9) staff at the site and mobilize to the site.
2. Procure equipment and construct facilities for the construction tasks listed below. Equipment procurement shall begin with approval of the Preliminary Design Technical TM.
3. Improvements will be based on the approved TM and are expected to be listed in the Scope of Services paragraphs of this Work Order.
4. Obtain FDOH permit. PBCWUD will pay for permit fees.
5. Obtain a construction permit from the Palm Beach County Planning, Zoning, and Building Department (PBCPZB). PBCWUD will pay for permit fees.
6. Restore the site to its existing conditions.

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Construction Tasks

A. Modify the Membrane Train and Replace Membranes

1. Modify each of the eight (8) existing membrane trains. Only one (1) of the eight (8) trains will be offline to be modified. Modification to each train shall consist of the following:
 - a. Remove and dispose of existing membrane elements for each train. Each train has 483 membrane elements (3,864 membrane elements for all eight (8) trains).
 - b. Add one (1) pressure vessel on the first stage and six (6) on the second stage on each of the eight (8) membrane trains with new 300 pounds per square inch (psi) pressure vessels. A total of 56 pressure vessels shall be added. The new pressure vessels will be supplied with head assemblies and support saddles. One (1) train at a time shall be modified. Once the modified train is operational, it shall operate for one (1) week before the next train is taken offline for modifications.
 - c. Furnish and install 56 new Polyvinyl Chloride (PVC) schedule (SCH) 80 J-bends and 112 grooved couplings for the new pressure vessels in the trains. Additional grooved coupling gaskets will be purchased and changed as needed. At the end of the project, any unused gaskets or grooved couplings will be handed over to PBCWUD.
 - d. Furnish and install six (6) new membrane feed pumps (MFP). The pumps shall be equipped with a VFD to control pump flow. One (1) pump at a time shall be replaced.
 - e. Furnish and install tubing from the new pressure vessel to the sample panel.
 - f. Furnish and install new Nanofiltration (NF) membranes in each of the eight (8) NF trains.
 - i. Clean each membrane pressure vessel (existing and new) of particulate matter by swabbing with chlorine solution and rinsing with potable water.
 - ii. Install 532 new membrane elements in each membrane train, 336 Hydranautics ESPA4-LD membrane elements in the first stage, 112 ESPA4-LD membrane elements in the first four (4) elements of the second stage, and 84 Hydranautics ESNA1-LF2 in the last three (3) elements of the second stage. Membranes are to be shipped dry from the factory.
 - iii. Glycerin and gasket lube shall be furnished as necessary for the installation. Each vessel shall be shimmed, and the serial number of each installed membrane element shall be recorded in the corresponding vessel.
 - g. A stage one (1) lead membrane and one (1) stage two (2) lag membrane from one (1) train specified by PBCWUD, for a total of two (2) membranes, are to be sent for autopsy investigation.
 - h. Furnish and install the following parts per train for the existing pressure vessels. At the end of the project, the unused parts shall be turned over to the PBCWUD.
 - i. 16 head assemblies
 - ii. 50 spiral retaining rings
 - iii. 100 spiral retaining rings permeate the port
 - iv. 1,110 head seals
 - v. 40 permeate ports
 - vi. 40 adapters
 - vii. 1,110 permeate port seals
 - viii. 1,110 adapter seals
 - ix. 1,110 Internal o-rings seals
 - x. 10 thrust cones
 - xi. 300 shim spacers
 - i. Once the membrane train has been reassembled with new membranes, PBCWUD will assist the DBE in addressing any potential leaks associated with the membrane element replacement.
 - j. PBCWUD will assist DBE by flushing the trains at full capacity, which is necessary for disinfecting the trains and passing the bacteriological testing. PBCWUD will

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monitor chlorine residual levels in the clearwell. This will help determine if any adjustments to the chlorine dosage are needed to maintain proper disinfection. The PBCWUD shall sample permeate to obtain two (2) consecutive days of passing bacteriological tests for train clearance.

- k. Once the modified train is operational, it shall operate for one (1) week before the work on the next train to be modified is taken offline for modifications.

Ammonia Feed Room

1. Furnish and install a new ammonia gas feed system designed to meet the dosing requirements associated with the expanded treatment capacity. The removed equipment shall be turned over to the PBCWUD. DBE shall dispose of any equipment that is not desired to be kept. One (1) new equipment needs to be installed at a time, so that existing equipment can remain in service and be switched over to minimize shutdown periods. The following equipment shall be provided and installed.
 - a. Two (2) 450 Pounds Per Day (PPD) ammonia flow controllers or ammoniators (Brooks SLAMF53S2DDF2G2A1).
 - b. Two (2) 48 to 480 PPD glass variable flow meter (Brooks GT16XX-1610AKCA2AA13D10A).

Assumptions:

- Isolation valves on membrane trains that allow for one (1) membrane train to be taken out of service while the other membrane trains remain in service will hold and be watertight during membrane train work.
- The biological clearance of modified membrane trains may require several attempts. Additional train cleaning, flushing, and time may be required beyond the scope of this work.
- The sulfuric acid system sizing for the expansion was based on the most recent 12-month Monthly Operating Report (MOR) data. However, this data conflicts with the figures provided in CDM Smith Inc.'s report. An allowance has been included to account for potential changes in MOR data or alignment with CDM Smith Inc.'s data during project completion.
- The post-treatment capacity analysis, including the potential expansion of the degasifiers and scrubbers to accommodate the expansion, is outside the scope of this project.
- The raw water supply, including the potential need for new wells to meet future capacity, is outside the scope of this project.

Allowance:

- A \$100,000 allowance is included for the Membrane Train Clearance (Bac-T).
- A \$250,000 allowance to replace the sulfuric acid pump and dilution water piping.
- A \$750,000 allowance for the Electrical scope.

Permits and Fees:

The DBE shall obtain all necessary permits required to complete the work under this work order, as well as fulfill all inspections and requirements needed to close out the completed permits. PBCWUD shall pay all permit fees. The DBE shall be responsible for all business tax fees for work within Palm Beach County or Municipalities. The DBE shall notify PBCWUD of the permit fees and allow three (3) weeks for PBCWUD to verify the permit fee(s) issued by PBCWUD to the authority having jurisdiction.

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Engineering Deliverables:

<u>Preliminary Design Review (PDR) plans</u>	<u>90</u> calendar days	<u>3</u> copies
<u>60% plans and response to PDR review comments</u>	<u>160</u> calendar days	<u>3</u> copies
<u>90% plans and response to 60% review comments</u>	<u>220</u> calendar days	<u>3</u> copies
<u>100% plans and response to 90% review comments</u>	<u>250</u> calendar days	<u>3</u> copies
Sign and sealed plan	<u>630</u> calendar days	
Building Permit submittal	<u>260</u> calendar days	
FDOH Permit Submittal	<u>200</u> calendar days	
Record drawings	<u>630</u> calendar days	
Programmable logic controller (PLC) program electronic files	<u>N/A</u> calendar days	(applicable ___yes, <u>X</u> no)
Equipment data Sheet Asset Collection Form	<u>630</u> calendar days	

ATTACHMENT B

SUMMARY AND STATUS OF WORK ORDERS

Work Order No.	PBCWUD Project No.	Title	Status	Project Total Amount	SBE Total Amount	SBE Participation %	By	Approved Date
1	23-017	Water Treatment Plant No. 3 Raw 42" Water Line Replacement	CLOSED	\$4,050,826.00	\$383,449.94	9.46%	BCC	2/7/23
1.1	23-017	Water Treatment Plant No. 3 Raw 42" Water Line Replacement	CLOSED	\$0.00	\$0.00	0.00%	DIR	3/12/24
2	23-034	Well Electrical Improvements	APPROVED	\$1,363,398.57	\$893,160.68	65.50%	BCC	12/19/23
2.1	23-034	Well Electrical Improvements	PENDING	\$21,657.30	\$1,550.00	7.15%	DIR	Pending
3	22-010	East Central Regional Water Reclamation Facility Reclaimed Water Facility Improvements – Phase 3	APPROVED	\$4,441,139.00	\$547,494.48	12.32%	BCC	3/12/24
4	24-005	Water Treatment Plant No. 3 Acid Line Replacement	APPROVED	\$2,049,098.06	\$142,751.16	6.96%	BCC	2/6/24
4.1	24-005	Water Treatment Plant No. 3 Acid Line Replacement	APPROVED	\$0.00	\$0.00	0.00%	DIR	4/8/25
5	24-001	Water Treatment Plant No. 8 Water Quality Improvements	CANCELLED	\$0.00	\$0.00	0.00%	BCC	Cancelled
6	25-014	Critical Facilities Safety Improvements	APPROVED	\$4,853,033.00	\$1,117,497.44	23.02%	BCC	4/1/25
7	25-018	Water Treatment Plant No. 3 Membrane Expansion	PENDING	\$5,128,287.00	\$37,042.93	0.72%	BCC	Pending
8	24-033	Water Treatment Plant No. 2 Expansion	PENDING	\$398,816.00	\$0.00	0.00%	BCC	Pending
9	25-035	Water Treatment Plant No. 11 Membrane Train Improvements	APPROVED	\$8,502,916.00	\$1,432,544.98	16.84%	BCC	9/16/25
10	25-026	Water Treatment Plant No. 9 Membrane Expansion	PENDING	\$7,498,562.00	\$217,351.16	2.89%	BCC	Pending



October 29, 2025

Palm Beach County
8100 Forst Hill Blvd.,
West Palm Beach, FL 33413

RE: Globaltech, Inc

Bond No. SU1212662
Project: 25-026 Water Treatment Plant No. 9 Membrane Expansion

To Whom it May Concern:

Please allow this letter to serve as formal authorization for **Globaltech, Inc** and/or **Palm Beach County** to date the captioned bond and power of attorney to coincide with the Contract Date. Please note the bond date cannot be prior to the contract date.

Please provide the bond date and send back to our office via email as soon as possible:

Bond Date: _____

Thank you and should you have any questions or need any additional information, please feel free to contact our office anytime.

Sincerely,

A handwritten signature in dark ink, appearing to read "Brett Rosenhaus", with a long horizontal flourish extending to the right.

Brett Rosenhaus
Attorney-in-Fact

3100 S Federal Highway, Suite G, Delray Beach, FL 33483

ATTACHMENT C

PUBLIC CONSTRUCTION BOND – WORK ORDER NO. 10
OPTIMIZATION AND IMPROVEMENTS DESIGN-BUILD
RESOLUTION NO. R2023-0086 Contract Dated December 20, 2022

PROJECT TITLE: Water Treatment Plant No. 9 Membrane Expansion

PBCWUD PROJECT NO.: 25-026

BOND NUMBER: SU1212662

WORK ORDER/BOND AMOUNT: \$7,498,562.00

DESIGN-BUILD ENTITY'S NAME: Globaltech, Inc.

DESIGN-BUILD ENTITY'S ADDRESS: 901 Yamato Rd. Ste. 220
Boca Raton, FL 33431

DESIGN-BUILD ENTITY'S PHONE: 561-997-6433

SURETY COMPANY: Arch Insurance Company

SURETY'S ADDRESS: Harborside 3, 210 Hudson Street, Suite 300
Jersey City, NJ 07311

OWNER'S NAME: PALM BEACH COUNTY

OWNER'S ADDRESS: 8100 Forest Hill Boulevard
West Palm Beach, FL 33413

OWNER'S PHONE: (561) 493-6000

DESCRIPTION OF WORK: Provides for design and construction services for Water Treatment Plant No. 9 (WTP 9), including increasing nanofiltration train capacity by adding additional pressure vessels to the membrane trains, replacing existing membranes, replacing the membrane feed pumps, VFDs, and upgrading the ammonia mass flow meters.

PROJECT LOCATION: Water Treatment Plant No. 9 (WTP 9)

LEGAL DESCRIPTION: Water Treatment Plant No. 9 (WTP 9)

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PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of Work Order No. 10 to the Optimization and Improvements Design-Build Contract Resolution No. R2023-0086, dated December 20, 2022.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto

Palm Beach County Board of County Commissioners
301 N. Olive Avenue
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of the claimant as herein below defined, in the amount of seven million four hundred ninety-eight thousand five hundred sixty-two dollars and zero cents, **\$7,498,562.00**.

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has, by written agreement dated _____, 2025, entered into Work Order No. 10 to the Optimization and Improvements Design-Build Contract Resolution No. R2023-0086 with the County for:

Work Order Project Name: Water Treatment Plant No. 9 Membrane Expansion
Work Order Project No.: PBCWUD 25-026
Project Description: Provides for design and construction services for Water Treatment Plant (WTP) 9, including increasing nanofiltration train capacity by adding additional pressure vessels to the membrane trains, replacing existing membranes, replacing the membrane feed pumps, VFDs, and upgrading the ammonia mass flow meters.
Project Location: Water Treatment Plant No. 9 (WTP 9)

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: Palm Beach County Water Utilities Department
Location of Firm: 8100 Forest Hill Blvd. West Palm Beach, FL 33413
Phone: 561-493-6000
Fax: 561-493-6008

which Work Order No. 10 to the Optimization and Improvements Design-Build Contract Resolution No. R2023-0086 is by reference made a part hereof in its entirety, and is hereinafter referred to as the Work Order.

1. THE CONDITION OF THIS BOND is that if Principal:

- a. Performs the Work Order dated _____, 2025, between Principal and County for the construction of the above project, the Work Order being made a part of this bond by reference, at the times and in the manner prescribed in the Work Order; and
- b. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the Work Order; and

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c. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the Work Order; and

d. Performs the guarantee of all work and materials furnished under the Work Order for the time specified in the Work Order; then this bond is void; otherwise it remains in full force.

2. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the Work Order or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.

3. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.

4. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the Work Order are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.

5. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.

6. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

R. Clayd
Witness

Rachael Clayd
Print Name

Kailee Rosenhaus
Witness

Kailee Rosenhaus
Print name

Globaltech, Inc.
Principal (Seal)

Bruce Rahmani
Bruce Rahmani, PE

Vice President of Construction
Title

Arch Insurance Company
Surety (Seal)

Brett Rosenhaus
Brett Rosenhaus

Attorney-in-Fact
Title

ATTACHMENT D
FORM OF GUARANTEE

GUARANTEE FOR Globaltech, Inc. and Arch Insurance Company

We the undersigned hereby guarantee that the **Optimization and Improvements Design-Build, Resolution No. R2023-0086, Contract Dated December 20, 2022, PBCWUD Project No. 25-026, Work Order No. 10, Project Title: Water Treatment Plant No. 9 Membrane Expansion**, Palm Beach County, Florida, which we have constructed and bonded, has been done in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within a period of one year from the date of Final Completion of all of the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. The date of Final Completion shall be the date set forth on the fully executed and acknowledged Contractor's Certification of Final Completion form. When correction work is started, it shall be carried through to completion.

In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

County and (Design-Build Entity, engineer, architect as applicable) agree that the provisions of Florida Statute Chapter 558 shall not apply to Contract/Agreement.

SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY

Globaltech, Inc.(Seal)
(Design-Build Entity)

By: B. Rahmani
(Signature)

Bruce Rahmani, PE, VP of Construction
(Print Name)

Arch Insurance Company(Seal)
(Surety)

By: Brett Rosenhaus
(Signature)

Brett Rosenhaus, Attorney-in-Fact
(Print Name)

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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. Not valid for Note, Loan, Letter of Credit, Currency Rate, Interest Rate or Residential Value Guarantees.

POWER OF ATTORNEY

Know All Persons By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal administrative office in Jersey City, New Jersey (hereinafter referred to as the "Company") does hereby appoint:

Brett Rosenhaus of Delray Beach, FL, Charles D. Nielson, Charles J. Nielson, David R. Hoover and Jarrett Merlucci of Miami Lakes, FL (EACH) F. Danny Gann, Edward T. Ward and Audria R. Ward of Atlanta, GA (EACH), John R. Neu and Kevin Wojtowicz of St. Petersburg, FL (EACH) Laura D. Mosholder of Orlando, FL

its true and lawful Attorney(s)in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed: Any and all bonds, undertakings, recognizances and other surety obligations, in the penal sum not exceeding One Hundred Fifty Million Dollars (\$150,000,000.00). This authority does not permit the same obligation to be split into two or more bonds In order to bring each such bond within the dollar limit of authority as set forth herein.

The execution of such bonds, undertakings, recognizances and other surety obligations in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal administrative office in Jersey City, New Jersey.

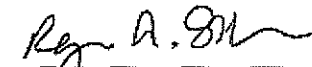
This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on August 31, 2022, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them subject to the limitations set forth in their respective powers of attorney, to execute on behalf of the Company, and attach the seal of the Company thereto, bonds, undertakings, recognizances and other surety obligations obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

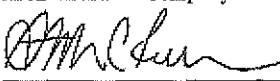
This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on August 31, 2022:

VOTED, That the signature of the Chairman of the Board, the President, or the Executive Vice President, or any Senior Vice President, of the Surety Business Division, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on August 31, 2022, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company. In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 15th day of July, 2025.

Attested and Certified

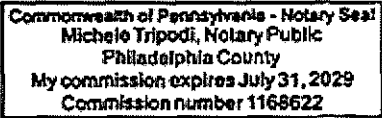

Regan A. Shulman, Secretary

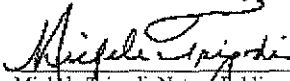


Arch Insurance Company

Stephen C. Ruschak, Executive Vice President

STATE OF PENNSYLVANIA SS
COUNTY OF PHILADELPHIA SS

I, Michele Tripodi, a Notary Public, do hereby certify that Regan A. Shulman and Stephen C. Ruschak personally known to me to be the same persons whose names are respectively as Secretary and Executive Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.

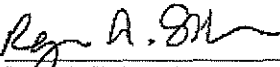



Michele Tripodi, Notary Public
My commission expires 07/31/2029

CERTIFICATION

I, Regan A. Shulman, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated July 15, 2025 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said Stephen C. Ruschak, who executed the Power of Attorney as Executive Vice President, was on the date of execution of the attached Power of Attorney the duly elected Executive Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this day of , 20 25.


Regan A. Shulman, Secretary

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

Arch Insurance Company Claims Department
Surety Claims
P.O. Box 542033
Omaha, NE 68154
suretyclaims@archinsurance.com



To verify the authenticity of this Power of Attorney, please contact: Arch Insurance Company at SuretyAuthentic@archinsurance.com
Please refer to the above named Attorney-in-Fact and the details of the bond to which the power is attached.

ATTACHMENT E
WORK ORDER SCHEDULE OF BID ITEMS

REVISED 8-25-25

ATTACHMENT E

Takeoff Summary - Water Treatment Plant No. 9 Membrane Expansion				
Div.	Description	Cost	Ovh/Profit	Ext Price
1	General Requirements	\$ 291,368.88	\$ 163,865.40	\$ 455,234.28
2	Sitework	\$ 93,612.64	\$ 35,346.62	\$ 128,959.26
5	Metals	\$ 12,422.04	\$ 3,027.77	\$ 15,449.81
11	Equipment	\$ 1,243,669.87	\$ 172,329.07	\$ 1,415,998.94
26	Electrical	\$ 37,429.20	\$ 18,714.60	\$ 56,143.80
40	Process Interconnections	\$ 2,931,184.68	\$ 540,504.01	\$ 3,471,688.69
41	Rental Equipment & Misc. Tools	\$ 94,993.20	\$ 14,755.86	\$ 109,749.06
100	Engineering	\$ 567,025.00	\$ -	\$ 567,025.00
101	Allowance	\$ 1,100,000.00	\$ -	\$ 1,100,000.00
102	Bonds & Insurance	\$ 155,054.92	\$ 23,258.24	\$ 178,313.16
	Total	\$ 6,526,760.43	\$ 971,801.57	\$ 7,498,562.00

ATTACHMENT - E (Globaltech)
Work Authorization Schedule of Bid Items

Task	Task Description	E6	E4	E1	Sr. CADD	Sr. I&C	Admin 3	Admin 2	Total Labor	*Sub-Consultant Services	Sub-Consultant
		\$97.60	\$65.78	\$33.95	\$48.80	\$59.41	\$39.25	\$29.71			
1	Project Development/Coordination										
	Estimating	4	45	30			14	10			
	Project Management/Coordination	8	45	30			24	24		\$ 6,838.62	HEE
	Meet w/ staff to review project/collect info		35	35				14			
	Equipment Evaluation/Data Collection	2	28	10				12			
	Equipment Selection/Specifications	2	30	30				12			
	Subtotal Task 1	16	183	135	0	0	38	72	\$ 21,813.21		
2	Preliminary Design TM										
	Develop Preliminary Design TM	2	20	10							
	Preliminary Design Drawings	2	8	10	8			4			
	General/Site plan	2	8	10	8						
	Process Mechanical Design	2	18	20	16						
	Electrical/I&C	2	2	4	4					\$ 9,985.44	HEE
	Equipment Selection/Specifications	4	20	8							
	Evaluating 4-Log Virus Removal	4	18	20							
	QA/QC	4	4	8	6						
	Review Meeting and Log Responses	2	6	8			2	6			
	Subtotal Task 2	24	104	98	42	0	2	10	\$14,935.82		
3	60% Design										
	Project Management/Coordination	2	24	30			8	24			
	Cover/General/PFD	2	6	12	8						
	Demolition	2	4	8	8						
	Process Mechanical Design	2	24	20	10						
	Electrical/I&C Design	2	8		6					\$ 27,600.60	HEE
	Equipment Selection/Specifications	2	24	20							
	Prepare 60% Design Submittal	2	10	14	6		2	6			
	QA/QC	2	8	12	8						
	Review Meeting and Log Responses	2	6	8			2	4		\$ 1,213.02	HEE
	Subtotal Task 3	18	114	124	46	0	12	34	\$ 17,191.46		
4	90% Design										
	Project Management/Coordination	1	12	10			6	12			
	Cover/General/PFD	1	4	6	6						
	Demolition	1	2	4	4						
	Process Mechanical Design	1	14	10	8						
	Electrical/I&C Design	1	8		4					\$ 30,319.64	HEE
	Equipment Selection/Specifications	1	12	10							
	Prepare 90% Design Submittal	1	6	8	6		2	6			
	QA/QC	1	4	10	10						
	Review Meeting and Log Responses	1	4	6			2	4		\$ 1,213.02	HEE
	Subtotal Task 4	9	66	64	38	0	10	22	\$ 10,293.20		
5	100% Design										
	Project Management/Coordination	1	14	10			8	16			
	Cover/General/PFD	1	2	4	6						
	Demolition	1	2	2	6						
	Process Mechanical Design	1	10	12	10						
	Electrical/I&C Design	1	8		6					\$ 20,052.92	HEE
	Equipment Selection/Specifications	1	10	10							
	Prepare 100% Design Submittal	1	4	6	6		2	8			
	QA/QC	1	2	8	10						
	Review Meeting and Log Responses	1	4	6			2	4		\$ 1,617.36	HEE
	Subtotal Task 5	9	56	58	44	0	12	28	\$ 9,981.26		
6	Permitting										
	Environmental Permitting	2	10	6							
	PBC DOH and RFI		16	10	12						
	PBC BD Drawings and RFI		2	4	8					\$ 5,121.64	HEE
	Subtotal Task 6	2	28	20	20	0	0	0	\$ 3,692.04		
7	Services During Construction										
	Project Management/Coordination	2	40	20			8			\$ 26,838.80	HEE
	Submittal Reviews		16	20						\$ 14,603.12	HEE
	Site Visits	4	50	40		8					
	Meetings		24	20		8	8	20			
	Membrane Packing for Autopsy		4	8				2			
	Autopsy		4	2				6		\$ 3,872.33	AWC
	Start Up 8 Train		30	20		80		8		\$ 12,177.08	HEE
	Loop Check and Arc Flash Labels		4			4				\$ 14,333.56	HEE
	PLC Programming		6			80					
	SCADA Coordination		8			30				\$ 8,508.72	HEE
	Update Loop Diagrams		8			10				\$ 10,864.44	HEE
	Project Closeout		10	8		10	20	14			
	Record Drawing	2	16	10	20					\$ 8,573.18	HEE
	QA/QC	4	10		10						
	O&M Manual		8	8			4	20			
	Asset Management Database		4								
	Permit Closeout		16	4	8		2	4			
	Subtotal Task 7	12	258	160	38	230	42	74	\$ 42,940.18	\$ 203,733.49	
	Labor Hours	90	809	659	228	230	116	240	2372.00		
	Labor Costs	\$8,784.00	\$53,216.02	\$22,373.05	\$11,126.40	\$13,664.30	\$4,553.00	\$7,130.40	\$120,847.17		
	Labor Multiplier	3.00	3.00	3.00	3.00	3.00	3.00	3.00			
	Labor Total	\$26,352.00	\$159,648.06	\$67,119.15	\$33,379.20	\$40,992.90	\$13,659.00	\$21,391.20	\$362,541.51		
	Subconsultant Total									\$ 203,733.49	
	Reimbursable Expenses								\$ 750.00		
	TOTAL ENGINEERING FEE									\$ 567,025.00	

Subconsultants: HILLERS ELECTRICAL ENGINEERING, INC (HEE), Amaya Solutions, Inc. dba American Water Chemicals (AWC)

**PBC Water Utilities Department 120500
 PBC WTP 9 Membrane Expansion**

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
1 General Requirements								
Project Predesign/Estimating								
Sr. Estimator		HR	90	162.32	14,608.80		1.5000	21,913.20
Estimator		HR	60	52.81	3,168.60		1.5000	4,752.90
Construction PM (CM 4)		HR	40	97.60	3,904.00		1.5000	5,856.00
Submittal Labor (CM 4)		HR	100	97.60	9,760.00		1.5000	14,640.00
Submittal Labor (Const. Admin)		HR	100	58.35	5,835.00		1.5000	8,752.50
Scheduler 4Hr/Wk @ 14Months		HR	224	54.11	12,120.64		3.0000	36,361.92
Sr. Pr Manager (CM 6)-6Hr/Wk @ 16 Months		HR	384	162.32	62,330.88		1.5000	93,496.32
Construction PM (CM 4)-12Hr/Wk@14 Months		HR	672	97.60	65,587.20		1.5000	98,380.80
Construction PM (CM 2)-14Hr/Wk@12 Months		HR	672	65.78	44,204.16		1.5000	66,306.24
Purchasing & Subcontract (CM 4)		HR	100	97.60	9,760.00		1.5000	14,640.00
Bldg Permits Application & Coordination (CM 4)		HR	80	97.60	7,808.00		1.5000	11,712.00
Construction Admin-14Hr/Wk@16Months		HR	896	58.35	52,281.60		1.5000	78,422.40
Bid Item Totals:					\$291,368.88			455,234.28
2 Sitework								
Mobilization/ Demob								
Construction PM (CM 4)		HR	20	97.60	1,952.00		1.5000	2,928.00
Construction Superintendent		HR	20	105.03	2,100.60		1.5000	3,150.90
4-Man Crew		CR-D	4	1,663.52	6,654.08		1.5000	9,981.12
Temporary Facilicites								
Container Rental		MONTH	16	300.00	4,800.00	7.00	1.1500	5,906.40
Sanitary		MONTH	16	400.00	6,400.00	7.00	1.1500	7,875.20
Sanitary Pick Up/Delivery		EA	2	450.00	900.00	7.00	1.1500	1,107.45
Job Site Office Supplies		LS	1	4,500.00	4,500.00	7.00	1.1500	5,537.25
Waste Hauling		EA	16	875.00	14,000.00	7.00	1.1500	17,227.00

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Site Cleanup (4-Man Crew)		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Asset Management								
Construction PM 4 (CM 4) Construction		HR	30	97.60	2,928.00		1.5000	4,392.00
Admin		HR	20	58.35	1,167.00		1.5000	1,750.50
Project Closeout								
Startup Crew (4-Man Crew)		CR-D	10	1,663.52	16,635.20		1.5000	24,952.80
Punch Out Crew (4-Man Crew)		CR-D	8	1,663.52	13,308.16		1.5000	19,962.24
O&M (CM 4)		HR	80	97.60	7,808.00		1.5000	11,712.00
Bid Item Totals:					\$93,612.64			128,959.26
5 Metals								
Misc. Metals & Fasteners		LS	1	4,500.00	4,500.00	7.00	1.1500	5,537.25
SS Gutter Box Modification		LS	1	4,000.00	4,000.00	7.00	1.1500	4,922.00
Labor (4-Man Crew)		CR-D	2	1,663.52	3,327.04		1.5000	4,990.56
Bid Item Totals:					\$12,422.04			15,449.81
11 Equipment								
350 HP Membrane Feed Pumps - 6 EA	Peerless/Hydra Service	LS	1	530,000.00	530,000.00	7.00	1.1200	635,152.00
Startup (Factory)	Peerless/Hydra Service	DAY	3	1,500.00	4,500.00	7.00	1.1500	5,537.25
400 HP VFD	Eaton/Howard Woodrow	EA	6	93,200.00	559,200.00	7.00	1.1200	670,145.28
Freight	Eaton/Howard Woodrow	LS	1	6,000.00	6,000.00	7.00	1.1500	7,383.00
Epoxy Grout	White Cap	EA	12	601.89	7,222.68	7.00	1.1500	8,887.51
Removal & Installation - (4-Man Crew)		CR-D	30	1,663.52	49,905.60		1.5000	74,858.40
Construction Superintendent		HR	60	105.03	6,301.80		1.5000	9,452.70
Construction Assistant		HR	60	50.92	3,055.20		1.5000	4,582.80
Bid Item Totals:					1,243,669.87			1,415,998.94

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
26 Electrical								
GT Assistant (4-Man Crew)		CR-D	10	1,663.52	16,635.20		1.5000	24,952.80
Electrical CM		HR	200	103.97	20,794.00		1.5000	31,191.00
					Bid Item Totals:			
					\$37,429.20			56,143.80
40 Process Interconnections								
Membrane & Pressure Vessels								
Hydranautics ESPA4-LD	Nito - Hydranautics	EA	3584	450.00	1,612,800.00	7.00	1.1200	1,932,779.52
Hydranautics ESNA1-LF2 – LD	Nito - Hydranautics	EA	672	485.00	325,920.00	7.00	1.1200	390,582.53
Freight	Nito - Hydranautics	LS	1	29,992.00	29,992.00	7.00	1.1500	36,905.16
New Pressure Vessels	Codeline - Pentair	EA	56	1,108.00	62,048.00	7.00	1.1200	74,358.32
Freight	Codeline - Pentair	LS	1	5,500.00	5,500.00		1.1500	6,325.00
Offloading & Staging (4-Man Crew)		CR-D	8	1,663.52	13,308.16		1.5000	19,962.24
Train Modifications (Train 1)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 2)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 3)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 4)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 5)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 6)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Train Modifications (Train 7)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Train Modifications (Train 8)								
Remove Existing Membranes (5-Man Crew)		CR-D	5	2,053.92	10,269.60		1.5000	15,404.40
Misc O-Rings, Gaskets, Retaining Rings		LS	1	3,134.88	3,134.88	7.00	1.1500	3,857.47
Seals for Membrane Change Out		LS	1	4,330.97	4,330.97	7.00	1.1500	5,329.26
Glycerine & Lubrication		EA	1	1,000.00	1,000.00	7.00	1.1500	1,230.50
Disinfection Products		EA	1	1,200.00	1,200.00	7.00	1.1500	1,476.60
J-Bends		EA	7	350.00	2,450.00	7.00	1.1500	3,014.73
Victaulic Couplings & Gaskets		EA	14	350.00	4,900.00	7.00	1.1500	6,029.45
Sample Panel Tubing & Fittings		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Pressure Vessel & Sample Tubing Installation		CR-D	5	1,663.52	8,317.60		1.5000	12,476.40
Membrane Installation (5-Man Crew)		CR-D	15	2,053.92	30,808.80		1.5000	46,213.20
Membrane Feed Suction Piping								
18"x12" 316 SS Fabricated Fitting	McDade Waterworks	EA	6	6,426.65	38,559.90	7.00	1.1500	47,447.95
Flange, Bolts & Gasket		LS	1	3,000.00	3,000.00	7.00	1.1500	3,691.50
Membrane Feed Discharge Piping								
18"X8" 316 SS Fabricated Fitting	McDade Waterworks	EA	6	5,008.69	30,052.14	7.00	1.1500	36,979.16
Flange, Bolts & Gasket		LS	1	2,500.00	2,500.00	7.00	1.1500	3,076.25
Installation (4-Man Crew)		CR-D	6	1,663.52	9,981.12		1.5000	14,971.68
Field Welding (2-Man Crew)		CR-D	6	925.12	5,550.72		1.5000	8,326.08
Ammonia System Modifications								
Rotameter	Accutech	EA	2	2,798.75	5,597.50	7.00	1.1500	6,887.73
Controller	Accutech	EA	2	9,032.50	18,065.00	7.00	1.1500	22,228.98
SS Tube & Fittings		LS	1	900.00	900.00	7.00	1.1500	1,107.45
Installation (4-Man Crew)		CR-D	2	1,663.52	3,327.04		1.5000	4,990.56
Construction Superintendent		HR	300	105.03	31,509.00		1.5000	47,263.50
Construction Assistant		HR	250	50.92	12,730.00		1.5000	19,095.00
Bid Item Totals:					2,931,184.68			3,471,688.69

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
41 Rental Equipment & Misc. Tools								
Warehouse forklift		MONTH	12	2,500.00	30,000.00	7.00	1.1500	36,915.00
Scissor Lift (2 Required)		MONTH	24	880.00	21,120.00	7.00	1.1500	25,988.16
Safety (CM 2)		HR	60	65.78	3,946.80		1.5000	5,920.20
Safety Program	Total Safety Training and Consultants	LS	1	17,490.00	17,490.00		1.1000	19,239.00
Safety Equipment		LS	1	4,000.00	4,000.00	7.00	1.1500	4,922.00
Suits & Gloves		LS	1	3,500.00	3,500.00	7.00	1.1500	4,306.75
Misc Tools & Equipment		LS	1	4,900.00	4,900.00	7.00	1.1500	6,029.45
Equipment Fuel		GAL	500	6.90	3,450.00		1.1500	3,967.50
Equipment Pickup & Delivery		EA	4	500.00	2,000.00	7.00	1.1500	2,461.00
					Bid Item Totals:	\$94,993.20		109,749.06
100 Engineering								
Engineering Fees (Attachment E)		LS	1	567,025.00	567,025.00		1.0000	567,025.00
					Bid Item Totals:	\$567,025.00		567,025.00
101 Allowance								
Allowance - Electrical Subcontractor	EEE	LS	1	750,000.00	750,000.00		1.0000	750,000.00
Membrane Train Clearance (Bac-T)		LS	1	100,000.00	100,000.00		1.0000	100,000.00
Sulfuric Acid Feed Pumps		LS	1	250,000.00	250,000.00		1.0000	250,000.00
					Bid Item Totals:	1,100,000.00		1,100,000.00
102 Bonds & Insurance								
Bonds & Certifications		LS	1	64,534.00	64,534.00		1.1500	74,214.10
Builders Risk Insurance		LS	1	90,520.92	90,520.92		1.1500	104,099.06
					Bid Item Totals:	\$155,054.92		178,313.16
					Grand Totals:	6,526,760.43		7,498,562.00

Takeoff Worksheet

09/10/25

Continued...

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
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Note: CR-D=8Hrs
**Contract Markups Per Master Agreement:*
Materials = 1.15, Subcontractors = 1.1

ATTACHMENT F
OEBO SCHEDULE 1

REVISED 8-25-25

OEBO SCHEDULE 1*

SOLICITATION/PROJECT/BID NAME: Water Treatment Plant No. 9 Membrane Expansion

SOLICITATION/PROJECT/BID NO.: PBCWUD 25-026

SOLICITATION OPENING/SUBMITTAL DATE: NA

COUNTY DEPARTMENT: Palm Beach County Water Utilities Department

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Globaltech, Inc. ADDRESS: 901 Yamato Rd., Ste. 220 Boca Raton, FL 33431

CONTACT PERSON: Bruce Rahmani, PE PHONE NO.: 561-997-6433 E-MAIL: bruce@globaltechdb.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$7,277,338.51
SBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE ☒ SBE ☐

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK
	Non-SBE	SBE	
1. Hillers Electrical Engineering, Inc.	☐	☒	\$199,861.16
2. Total Safety Training & Consultants LLC	☐	☒	\$17,490.00
3. Amaya Solutions, Inc.	☒	☐	\$3,872.33
4.	☐	☐	
5.	☐	☐	

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ 7,498,562.00 Total \$221,223.49
Total Certified SBE Participation \$ 217,351.16

I hereby certify that the above information is accurate to the best of my knowledge: Bruce Rahmani, PE B. Rahmani VP of Construction
Name & Authorized Signature Title

- Note:
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

ATTACHMENT F
OEBO SCHEDULE 2

REVISED 8-25-25

OEBO LETTER OF INTENT – SCHEDULE 2*

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 25-026

SOLICITATION/PROJECT NAME: Water Treatment Plant No. 9 Membrane Expansion

Prime Contractor: Globaltech, Inc.

Subcontractor: **Amaya Solutions, Inc.**

(Check box(s) that apply)

☐ SBE ☒ Non-SBE ☐ Supplier

Date of Palm Beach County Certification (if applicable): NA

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

[illegible]

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$3,872.33

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: _____

Globaltech, Inc.

Print Name of Prime

By:

Authorized Signature

Bruce Rahmani, PE

Print Name _____

VP of Construction

Title

Date: July 25, 2025

Date:

Amaya Solutions, Inc.

Print Name of Subcontractor/subconsultant

By:

Authorized Signature

Mohannad Almalki

Print Name

Secretary

Title

Date: July 25, 2025

Date:

OEBO LETTER OF INTENT – SCHEDULE 2*

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 25-026
SOLICITATION/PROJECT NAME: Water Treatment Plant No. 9 Membrane Expansion

Prime Contractor: Globaltech, Inc. Subcontractor: Hillers Electrical Engineering, Inc.
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 10/17/24-10/16/27

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	92531 Electrical Engineering	\$199,861.16	1	NA	\$199,861.16

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$199,861.16

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: _____

Globaltech, Inc.

Print Name of Prime

By: 
Authorized Signature

Bruce Rahmani, PE

Print Name

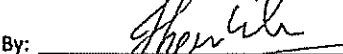
VP of Construction

Title

Date: August 15, 2025

Hillers Electrical Engineering, Inc.

Print Name of Subcontractor/subconsultant

By: 
Authorized Signature

Thein Win

Print Name

Senior Vice President

Title

Date: August 15, 2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

OEBO LETTER OF INTENT – SCHEDULE 2*

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 25-026
SOLICITATION/PROJECT NAME: Water Treatment Plant No. 9 Membrane Expansion

Prime Contractor: Globaltech, Inc. Subcontractor: Total Safety Training & Consultants LLC
(Check box(s) that apply)

☒ SBE ☐ Non-SBE ☐ Supplier Date of Palm Beach County Certification (if applicable): 1/11/24-1/10/27

SBE PARTICIPATION – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	90775 Site Assessment and Site Field Observation	\$17,490.00	1	NA	\$17,490.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$17,490.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

Name of 2nd/3rd tier Subcontractor/subconsultant _____ Price or Percentage: _____

Globaltech, Inc.
Print Name of Prime
By: B. Rahmani
Authorized Signature
Bruce Rahmani, PE
Print Name
VP of Construction
Title
Date: August 15, 2025

Total Safety Training & Consultants LLC
Print Name of Subcontractor/subconsultant
By: D. Hood
Authorized Signature
Darrylle Hood
Print Name
Manager
Title
Date: August 15, 2025

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

ATTACHMENT G

Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build
Resolution No. R2023-0086 Contract Dated December 20, 2022

SUMMARY OF SBE BUSINESS TRACKING

Master Contract Participation	SBE: 24%
Current Proposal	
Value of Work Order No. <u>10</u>	\$7,498,562.00
Value of SBE Letters of Intent	\$217,351.16
Actual Percentage	2.89%
Signed/Approved Work Orders	
Total Value of Work Orders	\$25,144,238.63
Total Value of SBE Signed Subcontractors	\$4,516,898.68
Actual Percentage	17.96%
Signed/Approved Work Orders Plus Current Proposal	
Total Value of Work Orders	\$32,642,800.63
Total Value of Subcontractors & Letters of Intent	\$4,734,249.84
Actual Percentage	14.50%

ATTACHMENT H

LOCATION MAP
WTP 9 Membrane Expansion
PBCWUD Project No. 25-026

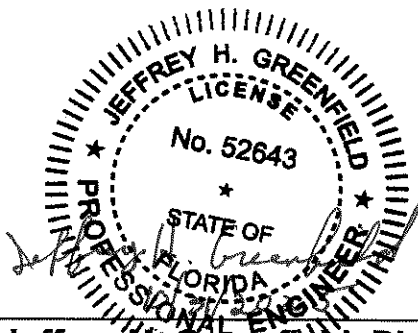


WATER TREATMENT PLANT NO. 9

ATTACHMENT I
DESIGN-BUILD CRITERIA

REVISED 8-25-25

**Design-Build Criteria
Water Treatment Plant No. 9 Membrane Expansion
Project No. PBCWUD 25-026
Package TR05
Work Authorization No. 10**



**Jeffrey H. Greenfield, PhD, P.E.
Palm Beach County Water Utilities
8100 Forest Hill Blvd.
West Palm Beach, FL 33413**

10/31/2025
Date

**Design-Build Criteria
Water Treatment Plant 9 Membrane Expansion
Project No. WUD 25-026
Package TR05
Work Authorization No. 10**

PART 1 REQUIREMENTS

1.1 Requirements per Florida Statute 287.055.

- 1 Legal Description of the project site (site):
1.1.1 Water Treatment Plant 9 (WTP 9).
- 2 Survey Information Concerning the Site: Design-Build Entity will provide additional survey as necessary.
- 3 Interior Space Requirements: Components of the proposed Work shall be installed within existing facilities (such as existing chemical trenches, chemical containment areas, electrical room and chemical dosing rooms, etc.) and surrounding area(s). Where possible the proposed Work shall be designed and installed without requiring alteration to existing facilities and the surrounding areas(s).
- 4 Material Quality Standards: Adhere to the current Palm Beach County Water Utilities Department (PBCWUD) Minimum Design and Construction Standards for Potable Water, Wastewater, Reclaimed Water, Record Information, Asset Management and the Approved Materials and Equipment List.
- 5 Schematic Layouts and Conceptual Design Criteria of the Project: Not Applicable.
- 6 Cost or budget estimates: \$7,498,562.00.
- 7 Design and Construction Schedules:
 - 1.1.7.1. 60% Design Completion: 160 Calendar Days after receipt of executed Work Authorization and Notice to Proceed.
 - 1.1.7.2. Substantial Construction Completion: 570 Calendar Days after receipt of executed Work Authorization and Notice to Proceed.

1.1.7.3. Final Construction Completion: 60 Calendar Days after Substantial Construction Completion.

1.1.7.4. Liquidated damages will apply as follows:

1.1.7.4.1 \$1,000 per day past substantial completion date.

1.1.7.4.2 \$500 per day past final completion date.

- 8 Site Development Requirements: Not applicable
- 9 Provisions for Utilities: The Design-Build Entity shall obtain the necessary utility services by making application for the services and paying such fees and charges required by the utility companies, including construction water meters, if required.
- 10 Utility Locates and Protection of Utilities: Design-Build Entity is responsible for all utility locates within the project site and shall provide an independent locate service for all PBCWUD buried pipelines and electrical. Provide conductive utility locates, soft-dig using vacuum excavation, and ground penetrating radar as necessary to avoid damage to utilities. The Design-Build Entity shall x-ray or use ground penetrating radar for concrete which may have embedded conduits and utilities prior to penetrating the concrete. All water pipes, storm drains, force mains, gas or other pipe, telephone or power cables or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from or supported across pipeline excavations. Before disconnecting any pipes or cables, the Design-Build Entity shall obtain permission from the Owner, or shall make suitable arrangements for their disconnection by the Owner. The Design-Build Entity shall be responsible for any damage to any such pipes, conduits or cables, and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power, and telephone installations along route of new pipelines or in vicinity of the work are shown on as-built drawings, but must be verified in the field by the Design-Build Entity. The Design-Build Entity shall uncover these pipes, ducts, cables, and other buried infrastructure, carefully, by hand, to verify location and depth of cover. Any discrepancies or differences found shall be brought to the attention of the Owner so that necessary changes may be made. The Design-Build Entity shall notify "SUNSHINE STATE" at 811 at least forty-eight hours prior to performing any excavating activities. Evidence of such notice shall be furnished to the Owner prior to excavating.
- 11 Storm Water Retention and Disposal: Provide siltation barriers for all existing storm drainage catch basins impacted by construction

activities. Clean all roadways, storm drains etc. affected by construction.

- 12 Parking Requirements: Contractors should park in front of the 9 South building (E) and materials can be staged under the pavilion. Do not disrupt traffic flow for chemical deliveries. Project material deliveries shall be between 7:00 AM to 3:00 PM Monday through Friday excluding public holidays. The Design-Build Entity will accept all their deliveries and provide loading and offloading equipment.
- 13 Access Requirements: Design-Build Entity shall comply with all WTP 3 security requirements and use the main gain for entry and exit.

1.2 General Requirements

- 1.2.1 The following items must be completed (at a minimum) to achieve Substantial Completion:
 - 1.2.1.1 All existing systems in place and operating as intended.
 - 1.2.1.2 Release has been granted by permitting agencies to begin operation.
 - 1.2.1.3 Commissioning and Testing of all new equipment and systems completed. Provide Certificate of Proper Installation (COPI) from manufacturers.
 - 1.2.1.4 Provide draft copy of the Operation and Maintenance Manuals
 - 1.2.1.5 Provide draft Electronic Equipment Data Sheet Submittal for Asset Management with Excel file.
 - 1.2.1.6 Sign and return the Certificate of Substantial Completion.
 - 1.2.1.7 Provide Punchlist items.
- 1.2.2 The following items must be completed (at a minimum) to achieve Final Completion:
 - 1.2.2.1 Provide Record Drawings, along with AutoCAD and PDF files, have been turned over to PBCWUD and approved.
 - 1.2.2.2 Provide Final Electronic Equipment Data Sheet Submittal for Asset Management with Excel file.
 - 1.2.2.3 Provide all final lubrications, adjustments, spare parts.
 - 1.2.2.4 Complete all training.
 - 1.2.2.5 Demobilize, perform final clean-up and restore site to original condition or better.
 - 1.2.2.6 Provide warranties from manufacturers.
 - 1.2.2.7 Complete all Punch List items.
 - 1.2.2.8 Provide Certificate of Final Completion signed by the Engineer of Record.

- 1.2.2.9 Provide all final releases granted for all permits.
- 1.2.2.10 Provide Final Operation and Maintenance Manuals with computer files have been delivered to the Owner and equipment training has been completed.
- 1.2.3 Reference Documents: The following documents shall be used to develop signed and sealed Construction Documents.
 - 1.2.3.1 Palm Beach County Water Utility Department (PBCWUD) Minimum Design Standards and Approved Materials List.
 - 1.2.3.2 Palm Beach County Unified Land Development Code Article 14 – Environmental Standards (which contains the Palm Beach County Beach County Wellfield Protection Ordinance) and Article 15 – Health Regulations (which contains Environmental Control Rule 1 and 2).
 - 1.2.3.3 Florida Administrative Code.
 - 1.2.3.4 Florida Building Code
 - 1.2.3.5 Design submittal requirements shall be in accordance with the Palm Beach County Water Utilities Design Manual.
- 1.2.4 Quality Assurance and Quality Control: The Design-Build Entity is responsible for both Quality Assurance and Quality Control including all testing.
 - 1.2.4.1 Provide soil density and proctor testing for underground excavations, pavement crossings and foundations.
 - 1.2.4.2 Provide concrete slump and compressive strength testing for all placed concrete. Provide test cylinders at both 7 days and 28 days for compressive strength.
 - 1.2.4.3 Provide certified welders for designated welding processes for all stainless steel (SS) welding. All welded joints shall be pickled and passivated.
 - 1.2.4.4 Provide pressure testing for piping and secondary containment, per the Palm Beach County Wellfield Protection Ordinance.
 - 1.2.4.5 Design Build Entity shall provide bacteriological testing of all new water mains and water treatment processes using a certified laboratory. The laboratory shall take all bacteriological samples and shall use the Colilert Method.
 - 1.2.4.6 Provide testing of new grounding and lightning protection systems if a ground test well is included in the project.
 - 1.2.4.7 Provide testing of paint to verify proper coating thickness. For interior of water bearing structures provide a certified National Association of Corrosion Engineers (NACE) inspector for surface preparation, adhesion and coating

- thickness.
- 1.2.4.8 Commissioning and testing of all new equipment. Provide Certificate of Proper Installation (COPI) from all manufacturers.

1.3 Summary of Work

1.3.1 Background and Statement of the problem to be solved.

- 1.3.1.1 Palm Beach County owns, operates and maintains Water Treatment Plant 9 (WTP) and is in need of membrane train expansion, replacement of the existing membranes, the addition of new pressure vessels, replacing the membrane feed pumps and Variable Frequency Drives (VFD's), and upgrading the ammonia mass flow meters. The scope also includes a 4-log virus removal evaluation and permitting to support increased flows.

The proposed modifications shall increase the plant's finished water capacity.

1.3.2 Design Build Criteria

The proposed work to be performed by the Design-Build Entity includes furnishing and installing all materials, labor, equipment and expertise including necessary tools, supervision, and services required to design, permit, purchase, demolish, construct, train, test, commission, startup and place into service complete and operational systems as described herein. All materials and equipment used shall be selected to be resistant to corrosive attacks from continuous exposure to various solids and liquids present on site and compatible with the intended service environment, such as exposure to weather (e.g. wind, rain), dust, sunlight, water, wastewater or chemicals.

1.3.2.1 Wind and Seismic Loading

Exterior system components shall be designed to meet or exceed the Florida Building Code (FBC) High Velocity Hurricane Zone (HVHZ) requirements supplemented by ASCE 7-10 wind loading requirements using an ultimate wind speed of 183 mph and exposure C and seismic loads 2021 IBC/ASCE 71-0 $S_s=0.049g$ $S_I=0.025G$ shall comply with Design Code ASTM D3299 and ASTM D4097.

1.3.2.2 WTP 9

Administrative and Engineering Services

1. Meet with the Palm Beach County Water Utilities Department (PBCWUD) to review the project scope and schedule. Conduct a site visit to inspect the work items listed below and develop the design accordingly.
2. Develop subcontracts with electrical engineers and other entities required.
3. Develop a preliminary site plan layout and equipment layout(s).
4. Prepare a Preliminary Design Technical Memorandum (TM). The TM shall provide a brief description of the equipment, including its design parameters and layout(s). Equipment cut sheet examples for major equipment shall be provided in the TM. A preliminary site plan and equipment layout(s) will be provided. Five (5) copies of the TM and a Portable Document Format (PDF) version shall be submitted.
5. Prepare and submit design deliverables for 60%, 90%, and 100% completion. Half-size drawings and PDF files are to be submitted for the County's review.
6. Prepare and submit documents to the Florida Department of Health (FDOH) for permitting purposes. PBCWUD will pay for permit fees.
7. The 4-log virus removal will be reevaluated to account for the new system capacity.
8. Updated documentation will be submitted for approval if the existing disinfection strategy no longer meets regulatory requirements.
9. Prepare a detailed construction schedule.
10. Prepare submittals (or confirmation of compliance with County design standards), administer, and track the submittal process.
11. Prepare the equipment data sheet and asset collection form.
12. Conduct the Engineer's site visits during construction to confirm that the work is being performed in conformance with the Design Drawings and Specifications.
13. Prepare Record Drawings and Operation & Maintenance (O&M) Manuals.
14. Close out the FDOH permit.

Construction Services

1. Establish staging areas with Water Treatment Plant No. 9 (WTP 9) staff at the site and mobilize to the site.
2. Procure equipment and construct facilities for the construction tasks listed below. Equipment procurement shall begin with approval of the Preliminary Design Technical TM.
3. Improvements will be based on the approved TM and are expected to be listed in the Scope of Services paragraphs of this Work Order.
4. Obtain a Florida Department of Health permit. PBCWUD will pay for permit fees.

5. Obtain a construction permit from the Palm Beach County Planning, Zoning, and Building Department (PBCPZB). PBCWUD will pay for permit fees.
6. Restore the site to its existing conditions.

Construction Tasks

A. Modify the Membrane Train and Replace Membranes

1. Modify each of the eight (8) existing membrane trains. Only one (1) of the eight (8) trains will be offline to be modified. Modification to each train shall consist of the following:
 - a. Remove and dispose of existing membrane elements for each train. Each train has 483 membrane elements (3,864 membrane elements for all eight (8) trains).
 - b. Add one (1) pressure vessel on the first stage and six (6) on the second stage on each of the eight (8) membrane trains with new 300 pounds per square inch (psi) pressure vessels. A total of 56 pressure vessels shall be added. The new pressure vessels will be supplied with head assemblies and support saddles. One (1) train at a time shall be modified. Once the modified train is operational, it shall operate for one (1) week before the next train is taken off line for modifications.
 - c. Furnish and install 56 new Polyvinyl Chloride (PVC) schedule (SCH) 80 J-bends and 112 grooved couplings for the new pressure vessels in the trains. Additional grooved coupling gaskets will be purchased and changed as needed. At the end of the project, any unused gaskets or grooved couplings will be handed over to PBCWUD.
 - d. Furnish and install six (6) new membrane feed pumps (MFP). The pumps shall be equipped with a variable frequency drive (VFD) to control pump flow. One (1) pump at a time shall be replaced.
 - e. Furnish and install tubing from the new pressure vessel to the sample panel.
 - f. Furnish and install new Nanofiltration (NF) membranes in each of the eight (8) NF trains.
 - i. Clean each membrane pressure vessel (existing and new) of particulate matter by swabbing with chlorine solution and rinsing with potable water.

- ii. Install 532 new membrane elements in each membrane train, 336 Hydranautics ESPA4-LD membrane elements in the first stage, 112 ESPA4- LD membrane elements in the first four (4) elements of the second stage, and 84 Hydranautics ESNA1-LF2 in the last three (3) elements of the second stage. Membranes are to be shipped dry from the factory.
 - iii. Glycerin and gasket lube shall be furnished as necessary for the installation. Each vessel shall be shimmed, and the serial number of each installed membrane element shall be recorded in the corresponding vessel.
- g. A stage one (1) lead membrane and one (1) stage two (2) lag membrane from one (1) train specified by PBCWUD, for a total of two (2) membranes, are to be sent for autopsy investigation.
- h. Furnish and install the following parts per train for the existing pressure vessels. At the end of the project, the unused parts shall be turned over to the PBCWUD.
 - i. 16 head assemblies
 - ii. 50 spiral retaining rings
 - iii. 100 spiral retaining rings permeate the port
 - iv. 1,110 head seals
 - v. 40 permeate ports
 - vi. 40 adapters
 - vii. 1,110 permeate port seals
 - viii. 1,110 adapter seals
 - ix. 1,110 Internal o-rings seals
 - x. 10 thrust cones
 - xi. 300 shim spacers
- i. Once the membrane train has been reassembled with new membranes, PBCWUD will assist the Design-Build Entity (DBE) in addressing any potential leaks associated with the membrane element replacement.
- j. PBCWUD will assist DBE by flushing the trains at full capacity, which is necessary for disinfecting the trains, passing the bacteriological

testing. PBCWUD will monitor chlorine residual levels in clearwell. This will help determine if any adjustments to the chlorine dosage are needed to maintain proper disinfection. PBCWUD shall sample permeate to obtain two (2) consecutive days of passing bacteriological tests for train clearance.

- k. Once the modified train is operational, it shall operate for one (1) week before the work on the next train to be modified is taken offline for modifications.

Ammonia Feed Room

1. Furnish and install a new ammonia gas feed system designed to meet the dosing requirements associated with the expanded treatment capacity. The removed equipment shall be turned over to the Owner. The DBE shall dispose of any equipment that is not desired to be kept. One (1) New equipment needs to be installed at the time, so that existing equipment can remain in service and be switched over to minimize shutdown periods. The following equipment shall be provided and installed.

- a. Two (2) 450 Pounds Per Day (PPD) ammonia flow controllers or ammoniators (Brooks SLAMF53S2DDF2G2A1).
- b. Two (2) 48 to 480 PPD glass variable flow meter (Brooks GT16XX-1610AKCA2AA13D10A).

Assumptions:

- Isolation valves on membrane trains that allow for one (1) membrane train to be taken out of service while the other membrane trains remain in service will hold and be watertight during membrane train work.
- The biological clearance of modified membrane trains may require several attempts. Additional train cleaning, flushing, and time may be required beyond the scope of this work.
- The sulfuric acid system sizing for the expansion was based on the most recent 12-month Monthly Operating Report (MOR) data. However, this data conflicts with the figures provided in CDM Smith's Inc. report. An allowance has been included to account for potential changes in MOR data or alignment with CDM Smith's Inc. data during project completion.
- The post-treatment capacity analysis, including the potential expansion of the degasifiers and scrubbers to accommodate the expansion, is outside the scope of this project.
- The raw water supply, including the potential need for new wells to meet future capacity, is outside the scope of this project.

1.3.3 Prescriptive Criteria

The following materials are specific for this project: membrane elements-Nitto/Hydranautics, pressure vessels-Codeline, rotameter

and controller-Brooks, VFD's-Eaton, and electrical components for the control panel-Allen Bradley.

- 1.3.4 The Design-Build Entity shall secure all permits required to complete the work under this contract. The Design-Build Entity shall be responsible for all inspections and requirements to close-out the completed permits. The Owner will pay all permit fees. The Design-Build Entity shall be responsible for all Business tax fees for work within Palm Beach County or Municipalities. The following permits may be required for this project: Palm Beach County Health Department Permit and Palm Beach County Planning Zoning and Building - Building Division Permit(s).

1.3.5 **Allowances**

- A \$100,000 allowance is included for the Membrane Train Clearance (Bac-T).
- A \$250,000 allowance to replace the sulfuric acid pump and dilution water piping.
- A \$750,000 allowance for Electrical scope.

1.4 Work Restrictions

- 1.4.1 Maintenance of Operations: The Design-Build Entity's activities or any partial plant shutdowns shall minimize disruption to the treatment facilities and conveyance. The Design-Build Entity shall schedule and perform the proposed work in a manner such that the Owner can keep the existing treatment and conveyance facilities in continuous, dependable operation. Operation of all existing valves, gates, and equipment shall be performed by Owner. All utility access manholes, valves, and fire hydrants shall be kept accessible at all times.
- 1.4.2 Work Hours: Typical work hours will be 7:00 AM to 5:00 PM Monday to Friday, not including legal holidays. Work performed outside of the established working hours requires the permission from the Owner.
- 1.4.3 Shutdown Plan: Design-Build Entity shall develop a plan in conjunction with the Owner, for any planned plant or process shutdowns. Each shutdown plan shall be submitted to the Owner for review and approval at least thirty (30) calendar days prior to commencing any of these work activities. If, in the opinion of the Owner, a shutdown is not required in order for the Design-Build Entity to perform the proposed work, the Design-Build Entity shall use alternative methods to accomplish the work. All shutdowns shall be

coordinated with and scheduled at times suitable to the Owner. The Owner shall be provided a minimum of fourteen (14) calendar days' notice of Design-Build Entity's need for any system or partial system shutdown. Additional notice may be required for certain shutdowns. If multiple shutdowns are required to complete the work, such shutdowns shall be spaced to allow plant Operations staff to fill the ground storage tanks. Plant shutdowns shall be during the low flow periods of the year.

Shutdowns during the following periods shall not be allowed, unless written prior approval is provided by the Owner:

- Week of Thanksgiving,
- Seven (7) calendar days prior to December 25th,
- Between December 25th and January 1st,
- Seven (7) calendar days post to January 1st.

1.4.4 Project Coordination: Design-Build Entity shall be solely responsible for coordination of all of the proposed work, and shall supervise, direct, and cooperate fully with all sub-contractors, manufacturers, fabricators, suppliers, distributors, installers, testing agencies, and all others whose services, materials or equipment are required to assure completion of the proposed work within the contract time. Design-Build Entity shall cooperate with, and coordinate his work with, the work of any other contractor, utility service company, or Owner's employees performing additional work related to the project at the site. Design-Build Entity shall not be responsible for damage done by other contractors on site who are not under the Design-Build Entity's jurisdiction except where such loss or damage is caused by the negligence of Design-Build Entity. Design-Build Entity shall also coordinate his work with the work of others to assure compliance with schedules. Design-Build Entity shall attend and participate in all project coordination or progress meetings and report on the progress of all work and compliance with schedules. The Design-Build Entity shall provide and maintain a Project Representative from his organization at the site at all times during performance of the work, who may be reached at any time while work is in progress.

1.4.5 Debris Removal: The Design-Build Entity shall confine his activities to the site(s) designated by Owner for the work or staging areas for materials storage. Design-Build Entity shall be responsible for keeping all work areas clear of construction debris and perform daily housekeeping activities to maintain a safe working environment for existing plant personnel. All debris, materials, pipe, and miscellaneous waste products from the proposed work shall be removed from the Project Site as soon as possible. They shall be

disposed of in accordance with applicable federal, state, and local regulations. The Design-Build Entity shall be responsible for determining these regulations and shall bear all costs or retain any profit associated with disposal of these items.

- 1.4.6 Safety: The Design-Build Entity shall comply with all laws or ordinances covering the protection of such work, and the safety measures to be employed therein. No trenches or holes near walkways, in roadways, or road shoulders are to be left open during night hours without the permission of the Owner, and proper protection. The Design-Build Entity shall maintain of suitable lighting to maintain a safe working environment. The Design-Build Entity shall not add any tripping hazards to the project site without permission of the Owner. The Design-Build Entity shall employ the Best Management Practices to provide a safe final product.

1.5 Security

The Palm Beach County Criminal History Records Check Ordinance, Palm Beach County Code Section 2-371 - 2-377. Pursuant to the ordinance, the County will conduct fingerprint-based criminal history record checks on all employees of contractors and subcontractors of contractors, vendors, repair persons and delivery persons entering a facility determined to be either a critical facility ("Critical Facilities") or criminal justice information facility ("CJI Facility"). Critical Facilities and CJI Facilities and the corresponding list of disqualifying offenses are identified in Resolution R2013-1421 and is available upon request. In October, 2013, compliance with the requirements of the U.S. Federal Bureau of Investigations Criminal Justice Information (CJI) security policy was added to the ordinance and has a broad list of disqualifying offenses. The Design-Build Entity understands that is solely responsible for the financial, schedule and/or staffing implications of compliance with this ordinance, and represents and warrants that its bid price includes any direct or indirect costs (not including the FDLE/FBI fees which will be paid directly by the County) of compliance with this county code.

The Design-Build Entity is responsible for the security of their work, equipment, and material at all times.

1.6 Project CPM Schedule

Design-Build Entity must prepare and maintain a project schedule using Primavera P6 Software (P6) and the Critical Path Method (CPM) of scheduling. The following outlines the minimum schedule requirements. The schedule must be updated each month at a minimum and will be reviewed by the Owner to determine design and construction progress.

1.6.1 Design Schedules

The Design-Build Entity shall develop a detailed design schedule reflecting work elements at a package level by discipline. An estimate of the construction duration and staging be developed and linkages to other work packages will be clearly indicated. It will be updated at least monthly and at a minimum, milestones shall be depicted for:

- Notice-to-Proceed
- 60 percent submittal
- Each required permitting submittal

1.6.2 Construction Schedules

The basics of the construction schedule submittals are outlined below.

1.6.2.1 Baseline Requirement: The Construction Schedule shall use P6 and follow the Critical Path Method of scheduling, and shall reflect how the Design-Build Entity will build the project. The schedule shall show the duration of each activity so that the Project Manager can accurately monitor the progress of the work. Schedule activities must be consistent with work items listed in the Schedule of Values and be cost-loaded such that schedule updates provide an independent check on the amounts shown in the Design-Build Entity's monthly progress payment request.

Additionally, the schedule will address the logic of construction activities, including any work constraints due to:

- Operational or permit requirements
- Special requirements of the technical specifications
- Standard construction practices
- Safety of the work place
- Manpower loading and availability
- Key Resource or Materials quantity loading

1.6.2.2 Initial Construction Schedule Submittals: The Design-Build Entity shall be required to submit two schedule documents at the pre-construction conference. These are:

- The Plan of Operation for the initial 30-day period of the contract
- An initial draft of the P6 Baseline CPM schedule

The Project Managers for the Owner and the Design-Build Entity shall meet to review and discuss the 30-day plan of operation and Baseline CPM schedule shortly after submittal to the Owner's Project Manager. The Owner Project Manager's review and comment on the schedules will be limited to conformance with the sequencing and milestone requirements in the Contract Documents. The Design-Build Entity shall be required to make corrections to the schedules necessary to comply with the requirements and adjust the schedules to incorporate any missing information requested by the Owner's Project Manager. Key elements of the schedule reviews will include:

- Production rates for reasonableness
- Appropriate level of detail
- Satisfaction of contractual constraints
- Accurately reflecting submittals, procurements, training and start-up tasks
- Conforms with approved schedule of values
- Complies with industry scheduling practices
- Schedule risk and critical path discussion

The Plan of Operation depicts accomplishment of the Contractor's early execution activities (e.g. mobilization, permit acquisition, submittals necessary for early material and equipment procurement, submittals necessary for long lead equipment procurement, CPM submittals, initial site work and other submittals and activities required in the first 30 days).

- 1.6.2.3 Construction Schedule: The P6 Baseline schedule will be included in all subsequent schedule updates and will be the basis for measuring progress and performance. Schedule updates and other reporting requirements will be detailed in the schedule specifications. The construction schedule will provide information on major construction milestones and allow for quantity tracking. Related interface activities pertinent to facilities start-up and commissioning will also be shown. The associated Schedule of Values will delineate information related to quantity unit rate reporting, labor wage rates, bulk materials pricing and other costing/pricing information as requested.

The Project Manager's review of the schedule is to ensure basic compliance with requirements and reasonableness of plan, and does not constitute an approval of the approach or direction relative to means and methods of construction.

The Contractor's Progress Schedule, at a minimum, shall identify significant interim milestones that relate to the Project's Summary Schedule, in addition to:

- Notice-to-Proceed
- Mobilization
- Weather Days Allowance
- Contract Float
- Substantial Completion
- Commissioning: Startup and Testing and Training
- Final Completion

1.6.3 Schedule Updates

On a regular basis, and not less than monthly, summary schedules should be updated to track and monitor progress of activities, completion of contract deliverables, interim milestone achievement, start and completion dates, and other related aspects of scheduling. Additionally, any approved changes to the scope of work will be reflected in the schedules.

Progress is monitored by comparing monthly work accomplished against both the baseline plan, and the progress of work from the prior month. Starting with the first month of status updating, progress for all projects will be measured against the baseline for start and finish dates, scheduled progress and cash flow, along with analysis for changes in logic and activities durations.

1.7 Field Engineering

Where the dimensions and locations of existing pipe and utilities are of critical importance in the installation or connection of proposed work, the Design-Build Entity shall verify such dimensions and locations in the field prior to the fabrication of any materials or equipment, which is dependent on the correctness of such information. The Design-Build Entity shall employ a land surveyor registered in the State of Florida. The Design-Build Entity shall locate and protect survey control and reference points. The Design-Build Entity shall be responsible to establish elevations, lines, and levels, utilizing recognized engineering survey practices. The Design-Build Entity shall provide all labor, instruments and stakes, templates, and other materials

necessary for marking and maintaining all lines and grades. The Design-Build Entity shall submit a copy of as-built drawings signed/sealed by the land surveyor that the elevations and locations of the work in Florida State Plane Coordinates are in conformance with the contract documents and will reference Geodetic Datum NAD83. All elevations shall refer to North American Vertical Datum of 1988 (NAVD88) and include conversion from National Geodetic Vertical Datum of 1929 (NGVD29) as required.

1.8 Closeout Procedures

- 1.8.1 Record Drawings: The Design-Build Entity shall maintain one set of Drawings at the Site for the preparation of Record Drawings. On these, it shall mark every project condition, location, configuration, and any other change or deviation which may differ from the Contract Drawings at the time of award, including buried or concealed construction and utility features that are revealed during the course of construction. Special attention shall be given to recording the horizontal and vertical location of buried utilities that differ from the locations indicated, or that were not indicated on the Contract Drawings. Said Record Drawings shall be supplemented by any detailed sketches as necessary or as Design-Build Entity is directed, to fully indicate the work as actually constructed. These Record Drawings are the Design-Build Entity's representation of as-built conditions, shall include revisions made by Work Supplement, and shall be maintained up-to-date during the progress of the work. Red ink shall be used for alterations and notes. Notes shall identify relevant Work Supplements by number and date. Provide AutoCAD and PDF files of the Record Drawings. The AutoCAD files shall include all external reference (XREF) files.
- 1.8.2 Asset Management: The Design-Build Entity shall be responsible for preparing an electronic database, in a format provided by the Owner, of the project assets being installed under this project and subsequently transferred to the Owner upon substantial completion of the project. A draft version of the asset database shall be included as part of the Design-Build Entity's Substantial Completion application. The final version of the database shall be provided to the Owner prior to Final Completion.

PART 2 ACCEPTANCE TEST REQUIREMENTS

The Design-Build Entity shall be responsible for coordinating and completing all commissioning activities including but not limited to the overall system startup and testing. The Design-Build Entity shall coordinate with the Owner and is responsible

for providing all labor, equipment, and materials for conducting commissioning activities including but not limited to individual systems startup and testing.

2.1 Starting and Placing Equipment in Operation

Design-Build Entity shall initially start-up and place all installed equipment into successful operation according to manufacturer's written instructions and as instructed by manufacturer's field representative. Design-Build Entity shall provide all material, labor, tools, equipment, lubricants, and expendables required to complete start-up. No system or subsystem shall be started up for continuous operation unless all components of that system or subsystem, including instrumentation, have been tested and proven to be operable as required for proposed work.

General system startup activities are anticipated to include but not be limited to cleaning; removing temporary protective coatings; flushing and replacing greases and lubricants as required by manufacturers; lubrication; checking shaft and coupling alignments and resetting where required; checking and setting motor, pump and other equipment rotation, safety interlocks, and belt tensions; checking and correcting if necessary leveling plates, grout, bearing plates, anchor bolts, fasteners and alignment of piping which may put stress on equipment; performing any adjustments; providing chemicals and lubricants and all other required operating fluids; providing fuel, electricity, water, filters; and, other expendables required for startup of equipment.

Owner will provide sufficient personnel to assist Design-Build Entity in the start-up, but the prime responsibility for proper mechanical operation shall belong to Design-Build Entity. Manufacturer's representatives shall be present during initial start-up and operation. Owner will assume responsibility for operation of the equipment upon completion of start-up and placing equipment in operation. Owner shall provide all power and chemicals for startup and operation.

2.2 Minimum Start-Up Requirements

- 2.2.1. The Design-Build Entity shall check each electrical control circuit to assure that operation complies with regulations and requirements of proposed work and to provide desired performance.
- 2.2.2. The Design-Build Entity shall check each motor amperage and compare to the amperage nameplate value, and correct any conditions which produce excessive current flow, and exist due to equipment malfunction.
- 2.2.3. The Design-Build Entity shall check glands and seals for cleanliness and proper adjustment before running pump; inspect shaft sleeves

for scoring; inspect mechanical faces, chambers, and seal rings, and replace if defective; and verify that piping system is free of dirt and scale before circulating liquid through the pump.

- 2.2.4. System start-up and operational testing procedures shall not be limited to those specified herein. Others shall be performed as required to prove that the system functions and performs as described and required by this Design-Build Criteria Package.

2.3 Equipment Startup and Performance Testing

- 2.3.1. The Design-Build Entity shall be responsible for performance testing during startup of all mechanical, electrical equipment and systems.
- 2.3.2. Provide a testing plan setting forth the sequence in which all testing work required for the proposed upgrades will be implemented.
- 2.3.3. Documentation of the results of all equipment and system tests shall be submitted to the Owner. Provide calibration tags for all Design-Build Entity furnished and installed equipment certifying the date of calibration.
- 2.3.4. The Design-Build Entity shall also be responsible for providing a Certificate of Proper Installation (COP) for all equipment. COPs will be provided to the Owner or the Owner's Representative prior to commencing any commissioning, startup and testing activities. COPs will be included in the Technical Manual.

PART 3 TECHNICAL REQUIREMENTS

3.1 Plant Site / Civil Requirements

The Design-Build Entity shall be responsible for becoming completely familiar with the site conditions in connection with developing the final site plan including all site investigations. If analysis of subsurface conditions, geotechnical conditions, and soil borings are required to complete the work, it shall be the responsibility of the Design-Build Entity to perform this work.

3.2 Demolitions and Equipment Removal

Design-Build Entity shall be responsible for all labor, materials, equipment, and incidentals required for demolitions and pay for all disposal fees. Design-Build Entity shall not start removals without the permission of the Owner. At least 48 hours prior to commencement of any demolition activities, the

Design-Build Entity shall advise the Owner, in writing, of the proposed schedule.

Design-Build Entity shall carry out operations so as to avoid interference with Owner's operations and work in the existing facilities. Design-Build Entity shall perform all demolition and removal work so as not to interfere with the use and safe passage to and from adjacent structures and shall prevent damage or injury to structures, occupants, and adjacent features, which might result from falling debris or other causes. Design-Build Entity shall erect and maintain barriers, lights, sidewalk sheds, and other necessary protective devices. The Design-Build Entity is responsible for repairing damage to the Owner's property or facilities, caused by the Design-Build Entity's activities.

Design-Build Entity shall not bring explosives on site or use explosives without the written consent of the proper authorities having jurisdiction. Design-Build Entity shall use water sprinkling, temporary enclosures, and other suitable methods for dust control within the lowest practical level in compliance with governing regulations.

Surfaces of walls, floors, ceilings, or other areas, which are exposed by any of the removals, and which will remain as architecturally finished surfaces shall be repaired and re-finished by Design-Build Entity with the same or matching materials as the existing adjacent surface. Adjacent structures, facilities, and improvements impacted by dust, dirt, and debris caused by demolition operations shall be cleaned and returned to pre-construction conditions.

Where piping that is to be removed passes through existing walls, the piping shall be cut off and properly capped on each side of the wall. When underground piping is to be altered or removed, the remaining piping shall be properly capped. Abandoned underground piping may be left in place and grouted under major structures/roadways, unless it interferes with the work. Any changes to potable water piping work shall be made in conformance with all applicable codes and under the same requirements as other underground piping.

All materials and equipment removed from existing work shall become the property of Design-Build Entity, except for those which Owner has identified and marked for their use. All materials and equipment marked by the Owner for its use shall be carefully removed by Design-Build Entity so as not to be damaged, and shall be cleaned and stored in a protected location specified by the Owner. Design-Build Entity shall dispose of all demolition materials, equipment, debris, and all other items not marked by the Owner, off the work site and in conformance with all existing applicable laws and regulations. Upon completion of the work, all materials, equipment, waste, and debris of

every sort shall be removed and premises shall be left, clean, neat, and orderly.

3.3 Trenching, Excavation and Backfill

The Design-Build Entity will adhere to all OSHA and PBC regulations when performing all excavating activities and in compliance with Florida Trench Safety Act. Minimum density shall be 98% of the AASHTO maximum density under pavement and structures and 95% of the AASHTO maximum density in all other areas.

Design-Build Entity shall furnish all labor, materials, equipment and incidentals required to perform all excavating, backfilling and disposing of earth materials required for the purpose of constructing structures, conduits, pipelines, grading, and other facilities required to complete the work in every respect.

Design-Build Entity shall be solely responsible for designing, installing, operating and maintaining whatever system is required to satisfactorily accomplish all necessary sheeting, bracing, protection, underpinning and dewatering. The use of explosives will not be permitted. All remaining spoil piles and excess fill shall be removed from site.

Design-Build Entity shall be responsible for all field test data and shall submit to Owner copies of all test reports from his testing laboratory.

Design-Build Entity shall perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction. Design-Build Entity shall obtain all necessary permits including but not limited to work in roads and rights of way. Design-Build Entity shall also obtain permits as required by local, state and federal agencies for discharging water from excavations. Design-Build entity shall provide siltation barriers until sod and irrigation is restored.

Data on subsurface conditions will be made available by Owner for the convenience of Design-Build Entity. The reports are not intended as a representation or warranty of continuity of such conditions between soil borings. Owner will not be responsible for interpretations or conclusions drawn by Design-Build Entity. Additional test borings and other exploratory operations may be made by Design-Build Entity at no cost to Owner. Design-Build Entity shall perform utility locates prior to all soil borings.

Drawings from existing records showing certain surface and underground structures adjacent to the work will be made available by Owner. It is not guaranteed to be correct or complete and is shown for the convenience of

the Design-Build Entity. Design-Build Entity shall explore ahead of the required excavation to determine the exact location of all structures. They shall be supported and protected from damage by the Design-Build Entity. If they are broken or damaged, they shall be restored immediately by the Design-Build Entity at its expense.

Design-Build Entity shall locate existing underground utilities in the areas of work. If utilities are to remain in place, Design-Build Entity shall provide adequate means of protection during earthwork operations. If uncharted or incorrectly charted piping or other utilities are encountered during excavation, Design-Build Entity shall consult the Owner immediately for directions as to procedure. Design-Build Entity shall cooperate with Owner and utility companies in keeping respective services and facilities in operation. Design-Build Entity shall repair damaged utilities to the satisfaction of Owner.

Design-Build Entity shall not interrupt existing utilities serving facilities occupied and used by Owner or others, except when permitted in writing by Owner and then only after acceptable temporary utility services have been provided.

3.4 Cast-In-Place Concrete

Where required for wall penetrations, pipe supports, and other repair or replacements required to complete the work, the Design-Build Entity shall be responsible for providing concrete consisting of Portland cement, fine and coarse aggregate, water, and approved admixtures; then combined, mixed, transported, placed, finished and cured to accommodate the proposed work. All admixtures, curing compounds, and related products used in concrete or the curing and repair of concrete, which can contact potable water, shall be certified as conforming to the requirements of ANSI/NSF 61 for contact with potable water when in the finished concrete. Concrete sidewalks shall have minimum 3,000 psi 28-day compressive strength. All structural concrete shall have minimum 4,000 psi 28-day compressive strength.

3.5 Miscellaneous Metals

All metals shall be non-ferrous except of steel reinforcing and as approved by the Owner. All bolt, nuts and washers shall be 316 stainless steel and the nuts shall be coated with a material suitable to prevent galling. All anchor bolts shall be 316 stainless steel (SS) except in chemical containment areas which may have corrosive environments. For chemical

containment areas the Design-Build Entity shall select suitable anchor bolts to prevent corrosion if a spill occurs. Stanchions, pipe supports, equipment bases, braces, Unistrut and straps shall be 316 SS or aluminum. Dissimilar metal protection shall be provided through use of appropriate dielectric materials where required.

3.6 Painting and Coating

Design-Build Entity shall provide all labor, materials, tools, equipment, and incidentals as required to furnish and apply coating systems for surface preparation and coating of all new and existing interior and exterior surfaces identified as part of the work. Manufacturer's recommendations, including surface preparation, cure times, application thickness, application method, applicability of selected paintings and coatings for their intended use shall be strictly followed. Items to be coated shall include but not be limited to walls, floors, piping, equipment, supports and other pertinent accessory items or area damaged by construction activity.

Owner's approval shall be required for all components of the surface preparation, selection of colors, and paint system application before the start of proposed work.

Color-coding of pipelines, valves, equipment and ducts shall comply with applicable standards of ANSI A13.1, ANSI Z535.1, and 40 CFR 1910.144. Finish coats of paint for pipelines and equipment shall be coded in basic colors. Colors shall be brilliant, distinctive shades matching safety and pipeline colors per ANSI Z535.1, Recommended Standards for Water Works; Recommended Standards for Wastewater Facilities, color specifications for safety colors and other primary colors.

Provide pipe labels with flow arrows at each change in direction, tees (all sides) and every 20 feet of straight run.

3.7 Valves and Piping Requirements

The Design-Build Entity is responsible for the location, sizing and selection of all equipment, pipe, valves, supports, and associated materials. The Design-Build Entity shall conform to the current version of the Palm Beach County Water Utilities Minimum Design Standards and Approved Materials List. Valves shall be placed at locations for ease of operation, isolating breaks and

testing. Provide adequate unions and dismantling joints to perform routine maintenance.

At a minimum, the following information shall be submitted to the Owner for review and approval prior to installation:

- Detailed drawings and manufacturer's data for valves, pipe, fittings, gaskets, harnessing, supports, bolt kits, couplings, and all other pertinent materials required to complete the work
- Certificates of Compliance with applicable referenced standards and any provisions for valves, pipe, joints, fittings, coatings, linings, sleeves, gaskets, harnessing, and all other appurtenances
- Field pressure testing
- Flushing and disinfection plans
- Signed and sealed by a Professional Engineer registered in Florida calculations for pipe support systems larger than twelve (12) inches in diameter.

Materials shall be delivered to the site to ensure uninterrupted progress of the work. Pipe, fittings, valves and associated other materials shall be handled carefully with approved handling devices. Materials shall be stored on heavy wood blocking or platforms so they are not in contact with the ground. Delivered materials shall be inspected for cracked, gouged, chipped, dented or other damage to the packaging or materials. If such damage is found, damaged materials shall be rejected and immediately removed from the site. If in the process of manufacture, transportation, storage or handling, any valves, pipe, fittings, or associated other materials are damaged, such material shall be rejected and replaced at the Design-Build Entity's expense.

Pipe interiors shall be kept completely free from dirt and foreign matter. All pipe shall be installed in strict accordance with the manufacturer's instructions and recommendations. When pipe must be cut-to-fit in the field, the work shall be performed using tools and equipment specifically designed for cutting the pipe, so as to avoid damage to the pipe and to leave a smooth end. Improperly cut and/or fitted pipe will be rejected and replaced at the Design-Build Entity's expense.

The manufacturer's field representative shall certify the installations observed were satisfactorily completed and all installation crews were familiar with the proper methods and procedures for the pipeline installation.

3.8 Electrical Requirements

3.8.1 Basic Requirements

Design-Build Entity shall design and provide all labor, materials, equipment and incidentals to complete the electrical work. All systems shall be properly grounded. Exterior systems shall have lightning protection.

3.8.2 Codes

Material and equipment shall be installed in accordance with the current standards and recommendations of the National Electrical Code, the National Electrical Safety Code, and with local codes that apply. Where discrepancies arise between codes, the most restrictive regulation shall apply.

3.8.3 Area Classifications

3.8.3.1. Wet Locations: The following areas shall be considered wet locations:

3.8.3.1.1. All outdoor areas.

3.8.3.1.2. All indoor areas below grade unless otherwise specified.

3.8.3.1.3. Materials, equipment and incidentals in areas identified as wet locations shall meet NEC and NEMA requirements for wet locations. Enclosures shall meet NEMA 4 requirements as a minimum. Conduits shall be terminated at enclosures with watertight, threaded hubs.

3.8.3.2. Corrosive Locations

All chemical storage and pumping areas or rooms. Materials, equipment and incidentals in areas identified as corrosive shall meet NEC and NEMA requirements for corrosive locations. Conduit systems shall be PVC and enclosures shall meet NEMA 4X requirements. Conduits shall be terminated at enclosures with watertight hubs. Independent supports shall be 316 stainless steel struts.

3.8.4 Electrical Equipment

All new electrical equipment shall be capable of operating successfully at full-rated load, without failure, with an ambient outside air temperature of 0 degrees F to 122 degrees F and an elevation of 400 feet (MSL). All electrical devices and equipment shall have ratings based on 75 degrees C terminations. All electrical equipment enclosures at a minimum shall meet NEMA 12 requirements.

3.8.5 Schematic Diagrams

Schematic diagrams shall be prepared by the Design-Build Entity to act as guidance in fulfilling the operational intent of the conceptual documents. It shall be the Design-Build Entity's responsibility to meet all safety and electrical codes, and to provide all equipment, appurtenances and specialty items required to provide for complete and operable systems. Review of control schemes submitted by Design-Build Entity shall not relieve Design-Build Entity of their contractual responsibility to provide complete and successfully operating systems.

Provide updates to the instrumentation loop diagrams for the equipment which has been added and/or modified.

3.8.6 Raceway Systems

Design-Build Entity shall furnish and install conduit and fittings to form complete, coordinated and grounded raceway systems. Electrical cables shall not be exposed. Design-Build Entity shall provide for the proper installation of all conduits for each system.

- 3.8.6.1. Rigid aluminum conduit for exposed indoor conduit runs in non-corrosive areas.
- 3.8.6.2. PVC Schedule 80 for individual conduit runs buried in earth.
- 3.8.6.3. Schedule 40 PVC for conduit runs embedded in or under structural concrete slabs, or in concrete ductbanks (all sites). Ductbanks and concrete slabs shall have red dye on the top to indicate they are for electrical.
- 3.8.6.4. PVC Schedule 80 conduit for exposed indoor and outdoor runs in corrosive areas.
- 3.8.6.5. Flexible conduit shall be used only for short connections (no more than two feet in length) to motors and equipment.

3.8.7 Inspections, Testing and Adjustments

Accompany the normal installation tests with inspections to demonstrate to the satisfaction of the required jurisdictional authorities the following:

- 3.8.7.1. Connections: All circuits are properly connected in accordance with the drawings and applicable approved shop drawings.
- 3.8.7.2. Operation: All circuits and devices are operable.

3.8.7.3. Identification: All conductors are properly identified at each terminal.

Test each electrical circuit after permanent cables are in place to demonstrate that the circuit and connected equipment perform satisfactorily and that they are free from improper grounds and short circuits. Individually test 600-volt cables for insulation resistance between phases, and from each phase to ground, for wire size No.6 AWG or larger. Test after cables are installed and before they are put in service with a Megger whose rating is suitable for the tested circuit for wire size No.6 AWG or larger. Tests shall meet with the applicable specifications of ICEA S 66 524 and NEMA WC7 1971. The insulation resistance for any given conductor shall not be less than 1 megohm for 600 volt and less service. Any cable not meeting this value or which fails when tested under full load conditions shall be replaced with a new cable for the full length. Megger testing reports shall be submitted and included in the Technical Manual.

Test shielded instrumentation cable shields with an ohmmeter for continuity along the full length of the cable and for shield continuity to ground. Connect shielded instrumentation cables to a calibrated 4-20 milliamp DC signal transmitter and receiver. Test at 4, 12, and 20 milliamp transmitter settings.

Test the completed ground systems for continuity and for resistance to ground using an electrical ground resistance tester. Ground system resistance must be less than 5 ohms. Add up to two additional rods, spaced at 20 feet minimum from other electrodes, until resistance is less than 5 ohms.

Operate all starters, circuit breakers and associated equipment to demonstrate suitability and compliance with Specifications and reference standards, except for short circuit interrupting rating or other inherent design features covered by shop tests. Test all motors for direction of rotation and reverse connections if necessary. Check control circuits to determine that operation and sequence are correct and adjust limit switches, pressure switches, float switches, timers and other devices to give proper operation.

Each generator provided by the Design-Build Entity shall be tested under normal plant load for 24 hours without failure or shutdown to confirm fuel systems are working as required.

3.9 Instrumentation and Control Requirements)

3.9.1. General

Design-Build Entity shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish, install, calibrate, test, start-up and place in satisfactory operation a complete and operating system for proposed work, including programming of the PLC, SCADA, and all required wire terminations. Tag number, equipment number, and description shall match the Owners numbering convention standards.

3.9.2. Calibration, Start-Up and Testing

Field verify the calibration and performance of each instrument prior to start-up of the associated equipment, and document on a separate sheet for each.

3.9.3. System Check-Out and Start-Up Responsibilities

Design-Build Entity shall retain the services of a single system-supplier to supervise and/or perform check-out and start-up of all system components. As part of these services, the system supplier shall coordinate and include check-out and start-up for those equipment items not manufactured or provided by him. The services of an authorized manufacturer's representative to check the equipment installation and place the equipment in operation may be required. The manufacturer's representative shall be thoroughly knowledgeable about the installation, operation and maintenance of the equipment.

Check and approve the installation of all instrumentation and control system components and all cable and wiring connections between the various system components prior to placing the various processes and equipment into operation. Conduct a complete system checkout and adjustment, including calibration of all instruments, tuning of control loops, checking operation functions, and testing of final control actions. When there are future operational functions included in this work, they should be included in the system checkout. All problems encountered shall be promptly corrected to prevent any delays in startup of the various unit processes.

System supplier shall provide all test equipment necessary to perform testing during system checkout and start-up. Design-Build Entity and system supplier shall be responsible for initial operation of monitoring and control system and shall make any required changes,

adjustment or replacements for operation, monitoring and control of the various processes and equipment necessary to perform the functions intended.

Design-Build Entity shall furnish to the Owner certified calibration reports for field instruments and panel mounted devices specified in this Section as soon as calibration is completed. Design-Build Entity shall furnish Owner an installation inspection report certifying that all equipment has been installed correctly and is operating properly. The report shall be signed by authorized representatives of both Design-Build Entity and the system supplier.

3.9.4. Instrumentation and Control System Field Test

Following the plant monitoring and control system checkout and initial operation, system supplier, under the supervision of the Design-Build Entity, shall perform a complete system test to verify that all equipment and programmed software is operating properly as a fully integrated system, and that the intended monitoring and control functions are fully implemented and operational. Any defects or problems found during the test shall be corrected by the system supplier, and then retested to demonstrate proper operation. Following demonstration of all system functions, the plant monitoring and control system including field sensors/transducers and instruments, and telemetry system shall be running and fully operational for a continuous 72-hour period.

3.9.5. Control Panels and Enclosures

Control panels located inside control or electrical room areas shall be NEMA 12 rated unless differently noted on drawings. All others shall be stainless steel or non-metallic NEMA 4 except in corrosive areas, which shall be NEMA 4X. Provide panel ventilation or air conditioning if required by ambient conditions. Use panel type construction for doors. Door widths shall not exceed 36-inches. Exterior panel with displays shall face north. Exterior control panels shall be 316 stainless steel with powder coated white epoxy exterior finish.

3.9.6. Surge Protection

Surge protection shall be provided to protect all electronic instrumentation from surges propagating along the signal, telephone, and power supply lines. Locate the suppression device as close as possible to the load device. The protection systems shall be such that the protection level shall not interfere with normal operation, but shall be lower than the instrument surge withstand level, and be

maintenance free and self-restoring. Instruments shall be housed in suitable metallic cases, properly grounded. Ground wires for all surge protectors shall be connected to a good, earth ground and where practical, each ground wire run individually and insulated from each other.

PART 4 SUBMITTALS

4.1 Design-Build Entity submittals shall include but not be limited to:

- 4.1.1. Preliminary Design Technical Memorandum
- 4.1.2. Drawings, Specifications and Calculations
 - 4.1.2.1. 60% Design
 - 4.1.2.2. 100% Design
- 4.1.3. Shop Drawings
- 4.1.4. CPM Schedule
 - 4.1.4.1 Baseline Schedule
 - 4.1.4.2 Initial 30-day Plan of Operation
 - 4.1.4.3 Four week Look Ahead Schedules
 - 4.1.4.4 Minimum monthly schedule updates
 - 4.1.4.5 90-days to Completion Schedule
- 4.1.5. Certificate of Proper Installation (COPI)
- 4.1.6. Operations and Maintenance Manuals with electronic files
- 4.1.7. Testing reports (e.g. soil density, concrete, megger)
- 4.1.8. Permits
- 4.1.9. Shutdown Plan (s)
- 4.1.10. Commissioning Plan for startup and testing activities
- 4.1.11. List of spare parts, tools and 90-day operating supplies
- 4.1.12. Closeout Documents
 - 4.1.12.1 Warranties
 - 4.1.12.2 Final payment request
 - 4.1.12.3 Provide Notification to Surety of Completion of Construction
 - 4.1.12.4 Provide Consent of Surety for Final Payment
 - 4.1.12.5 Provide list of firms/persons submitting Notice to Owner
 - 4.1.12.6 Provide Final warranty of Title
 - 4.1.12.7 Provide final payment request with all SBE's paid in full and provide all Schedule 4 documents from each.

ATTACHMENT J
SUPPORTING DOCUMENTS

REVISED 8-25-25

VENDOR QUOTE SUMMARY

Water Treatment Plant No. 9 Membrane Expansion

WO-10

GT #120500

Bid Section	Description	Vendor/Contractor	Cost	Note
11 - EQUIPMENT	Membrane Feed Pumps	Peerless Pump	\$ 530,000.00	SELECTED VENDOR - Solicitation #1
11 - EQUIPMENT	Membrane Feed Pumps	DXP	\$ 2,085,000.00	Price Increase - Solicitation #2
11 - EQUIPMENT	Membrane Feed Pumps	Hudson Pump & Equipment	\$ 3,149,615.00	Price Increase - Solicitation #3
11 - EQUIPMENT	HP VFDs	Eaton/Howard Woodrow	\$ 559,200.00	SOLE SOURCE- PBC Request. Matching to the existing system.
11 - EQUIPMENT	Epoxy Coating	White Cap (website)	\$ 7,222.68	SELECTED VENDOR - Solicitation #1
11 - EQUIPMENT	Epoxy Coating	White Cap	\$ -	Does not carry via email 6/2/25 - Solicitation #2
11 - EQUIPMENT	Epoxy Coating	QXO	\$ -	No response via email 6/13/25 - Solicitation #3
40 - PROCESS INTERCONNECTIONS	Hydranautics ESPA4-LD	Nitto - Hydranautics	\$ 1,612,800.00	SOLE SOURCE- Matching to the existing system.
40 - PROCESS INTERCONNECTIONS	Hydranautics ESNA1-LF2-LD	Nitto - Hydranautics	\$ 325,920.00	SOLE SOURCE- Matching to the existing system.
40 - PROCESS INTERCONNECTIONS	Hydranautics Freight	Nitto - Hydranautics	\$ 29,992.00	SOLE SOURCE- Matching to the existing system.
40 - PROCESS INTERCONNECTIONS	NEW PRESSURE VESSELS	Codeline- Pentair	\$ 62,048.00	SOLE SOURCE - Additional PV to match the existing system.
40 - PROCESS INTERCONNECTIONS	NEW PRESSURE VESSELS - Freight	Codeline- Pentair	\$ 5,500.00	SOLE SOURCE - Additional PV to match the existing system.
40 - PROCESS INTERCONNECTIONS	Membrane Feed Suction Piping	McDade Waterworks	\$ 38,559.90	SELECTED VENDOR - Solicitation #1
40 - PROCESS INTERCONNECTIONS	Membrane Feed Suction Piping	Ferguson	\$ -	No Response Via Email 6/2/25 - Solicitation #2
40 - PROCESS INTERCONNECTIONS	Membrane Feed Suction Piping	Core and Main	\$ -	No Response Via Email 6/16/25 - Solicitation #3
40 - PROCESS INTERCONNECTIONS	Membrane Feed Discharge Piping	McDade Waterworks	\$ 30,052.14	SELECTED VENDOR - Solicitation #1
40 - PROCESS INTERCONNECTIONS	Membrane Feed Discharge Piping	Ferguson	\$ -	No Response Via Email 6/2/25 - Solicitation #2
40 - PROCESS INTERCONNECTIONS	Membrane Feed Discharge Piping	Core and Main	\$ -	No Response Via Email 6/16/25 - Solicitation #3
41 - PROCESS INTERCONNECTIONS	Rotameter	ACCUTECH	\$ 5,597.50	SOLE SOURCE - Flow Meter - Match the existing units.
40 - PROCESS INTERCONNECTIONS	Controller	ACCUTECH	\$ 18,065.00	SOLE SOURCE - Ammonia Controller- Match the existing units.
41 - RENTAL EQUIPMENT & MISC.	SAFETY PROGRAM	TOTAL SAFETY TRAINING	\$ 17,490.00	SAFETY ENGINEERING
100 - ENGINEERING	Membrane Autopsy	Amaya Solutions, Inc.	\$ 3,872.33	ENGINEERING
100 - ENGINEERING	Electrical Subconsultant	Hilliers Electrical Engineering	\$ 199,861.16	ENGINEERING

Total Safety Training & Consultants, LLC

South Florida Construction Safety Professionals

8259 N. Military Trail Suite 5
Palm Beach Gardens, FL 33014
Phone: (954) 679-9008 Cell: (954) 540-6241

Quotation For:

GlobalTech
901 Yamato Rd Suite #220
Boca Raton, FL 33431
(561) 997-6433

Quotation

DATE 4/29/2025
Quotation # 11669
Customer ID GLBT10393

Quotation valid until: 5/29/2025

Prepared by: Darrylle Hood
Executive Director

Project Information: Project: PBCWU Plant #9 Membrane Expansion
Category: Safety & Health

PROJECT NUMBER	P.O. NUMBER	START DATE	END DATE	PROJECT DURATION	TERMS
WTP 9	N/A	TBD	TBD	365 Days	TBD
QUANTITY	DESCRIPTION		UNIT PRICE	TAXABLE?	AMOUNT
24	Safety & Health Management / Weekly Jobsite Safety Inspections in compliance with OSHA 29 CFR 1926 standards for construction.		\$ 625.00	N	\$ 15,000.00
1	Site specific safety program in compliance with OSHA 1926 standards.		\$ 800.00	N	\$ 800.00
10	Employee Safety Training		\$ 169.00		\$ 1,690.00
Comments or Special Instructions: This quote is based on the estimated job duration and the frequency of requested services.				SUBTOTAL	\$17,490.00
				TAX RATE	0.00%
				SALES TAX	\$ -
				OTHER	\$ -
				TOTAL	\$ 17,490.00

If you have any questions concerning this quotation, contact: Darrylle Hood, (954) 540-6241, email: thesafetypro@gmail.com.

THANK YOU FOR YOUR BUSINESS!



HILLERS ELECTRICAL ENGINEERING, INC.

May 20, 2025

Amir Keyvanzad, P.E.
Project Engineer
Globaltech, Inc.
901 Yamato Rd., Ste 220
Boca Raton, Florida 33431

Subject: WUD 25-026 Palm Beach County WTP No. 9 Membrane Expansion
Design- Build Scope

Dear Amir,

Hilliers Electrical Engineering, Inc. (HEE) is pleased to provide Globaltech, Inc. with a proposal for the electrical and instrumentation design, Supervisory Control and Data Acquisition (SCADA) coordination assistance, and engineering services during construction for the above referenced Design-Build project. Our project scope consists of the following:

- Site visit, field data collection, and coordination meetings.
- Technical Memo (Draft and Final), 60%, 90%, and 100% design phase drawings.
- Attend a design review meeting and respond to comments.
- Building department permitting services and incorporate into the construction documents.
- Attend pre-construction meeting
- Construction services include shop drawing review, request for information (RFI), field change directives, periodic site visits, field inspections, assist with loop-check, start-up, and testing.
- Provide record drawings and revised loop drawings.
- Perform coordination study and provide arc flash labels for new and modified VFD panels and MCCs, where applicable.
- Coordination with the PBCWUD SCADA group for SCADA screen modification
- Note: PLC programming is excluded from Hiller’s scope and Globaltech’s software programmer will perform the PLC programming.

Below is the list of anticipated drawings:

E-1	Electrical Legend and Symbols
E-2	Electrical General Notes
E-3	Electrical Site Plan
E-4	Membrane Building - Pump Room - Demolition
E-5	Membrane Building - Electrical Room Layout - Demolition
E-6	Photos - Sheet 1
E-7	Photos - Sheet 2
E-8	Existing VFD Conduit Layout
E-9	Electrical One Line - Main Switchgear
E-10	MCC-1 One Line Diagram - Demolition
E-11	MCC-2 One Line Diagram - Demolition
E-12	MCC-3 One Line Diagram - Demolition
E-13	MCC-4 One Line Diagram - Demolition
E-14	Existing Main Switchgear and MCC Elevation

E-15	Existing MCC-3 and MCC-4 Elevation
E-16	MCC-1 One Line Diagram - Modified
E-17	MCC-2 One Line Diagram - Modified
E-18	MCC-3 One Line Diagram - Modified
E-19	MCC-4 One Line Diagram - Modified
E-20	Electrical Schematic Diagrams
E-21	Electrical Riser Diagrams
E-22	Electrical Schedules
E-23	Membrane Building - Modified Pump Room
E-24	Membrane Building - Modified Electrical Room
E-25	Transfer Pump Building - Ammonia Room
E-26	Electrical Details - Sheet 1
E-27	Electrical Details - Sheet 2
E-28	Electrical Details - Sheet 3
I-1	Instrumentation Legend and Notes
I-2	Communication Block Diagrams
I-3	P&ID - Feed Pumps
I-4	Existing PLC-X Modification
I-5	Existing RIO-X Modification
I-6	Instrumentation Details

Our proposed electrical and instrumentation design, and construction services lump sum fee is \$199,861.16.

HEE wishes to thank Globaltech, Inc. for the opportunity to provide this proposal. Please do not hesitate to call me if you have any questions regarding this proposal or any other matter.

Sincerely,



Thein Win, P.E., LEED AP
GT12X-DB WTP9 Membrane Expansion Design-Building Scope.doc

PBCWUD WTP No. 9 Membrane Expansion Design-Build Improvements Fee (PBCWUD 25-026)									
HILLERS ELECTRICAL ENGINEERING, INC.									
Design-Build Scope Fee Breakdown									
Date: 5/20/2025									
	Raw Rate	\$84.00	\$69.00	\$55.00	\$52.00	\$47.00	\$30.00		
	Multiplier	2.93	2.93	2.93	2.93	2.93	2.93		
	Final Rate	\$246.12	\$202.17	\$161.15	\$152.36	\$137.71	\$87.90		
	Proj. Man.		Prof. Eng.	Programming	Const. Coord.	CADD/Tech.	Admin Assist.		TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST
WTP 9 - Membrane Expansion									
Site Visits, Data Collections, Reivew of Record Drawings, etc.									
			8		18	18			\$6,838.62
Tech Memo									
Draft and Final Tech Memo	2	24			24	6			\$9,176.76
Tech Memo Meetings and Comments-Responses		4							\$808.68
60% Design									
60% Drawings	6	72			84				\$27,600.60
60% Review Meetings and Comments-Responses		6							\$1,213.02
90% Design									
90% Drawings	6	80			92				\$30,319.64
90% Review Meetings and Comments-Responses		6							\$1,213.02
100% Design									
100% Drawings	4	48			68				\$20,052.92
100% Review Meetings and Comments-Responses		8							\$1,617.36
Permitting and Building Department Responses									
	2	12			16				\$5,121.64
Construction Services									
Shop Drawings Review, Design Changes, RFI	6	72		64		12			\$26,838.80
Site Visits, Meetings		24		64					\$14,603.12
Start-up, Testing		12		64					\$12,177.08
Record Drawings		14		16	24				\$8,573.18
Loop Check and Arc Flash Labels		28		28	32				\$14,333.56
SCADA Coordination		24		24					\$8,508.72
Update Loop Diagrams		12		12	48				\$10,864.44
	Total Hours	26	454		290	406	18		
	Sub-Total	\$6,399.12	\$91,785.18		\$44,184.40	\$55,910.26	\$1,582.20		\$199,861.16



AMERICAN WATER CHEMICALS
1802 CORPORATE CENTER LANE
PLANT CITY FL 33563
USA

SALES
QUOTATION Original

Quotation No.: 22034267
Quotation Date: 06/11/25
Valid Until: 07/11/25
Customer No.: C000901
Customer Ref. No.: PBC WTP #9
Page No.: Page 1 of 1

BILL TO	SHIP TO	VALID UNTIL
Globaltech, Inc. 901 Yamato Road, Suite 220 Boca Raton FL 33431 USA	GLOBALTECH, INC. LSA SERVICE NO RETURN SHIPMNET	07/11/25

Sales Employee: Beatriz Colacioppo
Contact Name:
Terms: Prepayment Required
Ship Via:
Freight Terms: CUSTOMER RESPONSIBLE

Item No.	Description	# of Pkgs	Quantity	Unit Price	Total	
MASIVR	MEMBRANE AUTOPSY -SWRO/RO/NANO- SILVER LEVEL	2	EA	2 EA	\$ 1,809.5000	\$ 3,619.00
FORM424	FORM 424 - REQUIRED TO BEGIN LSA	1	EACH	1 EACH		
FORM434	FORM 434 - REQUIRED TO BEGIN LSA	1	EACH	1 EACH		

Subtotal \$ 3,619.00

Shipping Tax \$ 253.33

Total Order Value \$ 3,872.33

Remarks: PBC WTP#9 lead and tail autopsy for membrane replacement

ESTIMATED LEAD-TIME TO SHIP IS 10 WORKDAYS AFTER RECEIPT OF ORDER

Phone: 813-246-5448 Fax: 813-623-6678 E-Mail: CUSTOMERSERVICE@MEMBRANECHEMICALS.COM Website: WWW.MEMBRANECHEMICALS.COM
FORM: 145 REV. 11 01/17/2023

July 3, 2025

Jane House, P.E.
Director of Engineering
Palm Beach County Water Utilities Department
8100 Forest Hill Boulevard
West Palm Beach, FL 33413

RE: R2023-0086 Contract for Optimization and Improvements Design-Build
Project No. WUD 25-026
Work Order No. 10
Request to Add Amaya Solutions, Inc. as a subconsultant

Dear Ms. House,

We request that Amaya Solutions, Inc. added as a subconsultant for the above-referenced work authorization.

Amaya Solutions, Inc. will provide engineering services, which were included in this project's original scope of work. We offered a Letter of Intent signed by Amaya Solutions Inc., for the approved WUD 25-026 Work Order 10 contract. Therefore, adding this subconsultant decreases our SBE participation in this project.

Should you have any questions or comments, please contact me at 561-997-6433. Again, we thank you for your consideration in this matter.

Regards,



Bruce Rahmani, P.E.
Vice President of Construction
Globaltech, Inc.

Cc: Rachael Cloyd/Globaltech



REQUEST FOR SBE SUBSTITUTION/
ADDITION/MODIFICATION/REMOVAL*

INSTRUCTIONS FOR SECTIONS 1 TO 3: PRIME CONTRACTOR COMPLETES ALL SECTIONS AS APPLICABLE AND
SUBMITS TO DEPARTMENT PROJECT MANAGER AND OEBO OFFICE FOR APPROVAL.

Section 1: Prime Contractor/Consultant Information

Name of Prime	Contact Person	Phone
Globaltech, Inc.	Rachael Cloyd	(561) 997-6433
Project Name	Bid/Proposal/Project No.	% SBE Participation- original
Water Treatment Plant No. 9 Membrane Expansion	25-026	14.45
Original Contract Amount	New Contract Amount	% SBE Participation - new
\$7,498,562.00	\$0.00	

Section 2: SBE Addition, Modification, Substitution or Removal*

Original Subcontractor/Sub consultant	% of Participation
Globaltech, Inc.	0
Contact Person	Phone
Rachael Cloyd	(561) 997-6433
New Subcontractor/ Sub consultant	% of Participation
Amaya Solutions, Inc.	5.16
Amendment/Change Order/Contingency Amount (if Applicable)	N/A

Section 3: SBE Addition, Modification, Substitution or Removal*

Please attach completed Palm Beach County SBE Subcontractor/consultant's Performance Report and Good Faith Effort Form.*A separate and properly executed Schedule 2 (Letter of Intent) is required to support any changes submitted on this form, when applicable.

Approvals:

Dept. Project Manager		Signature:		Date:	
OEBO Representative		Signature:		Date:	

PBC OEBO – Orig. 12/31/2018 |

*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025



[Previous on List](#) [Next on List](#) [Return to List](#)

Fictitious Name Search

No Filing History

Fictitious Name Detail

Fictitious Name

AMERICAN WATER CHEMICALS

Filing Information

Registration Number G20000119697
Status ACTIVE
Filed Date 09/15/2020
Expiration Date 12/31/2025
Current Owners 1
County HILLSBOROUGH
Total Pages 1
Events Filed NONE
FEI/EIN Number 84-4097612

Mailing Address

1802 CORPORATE CENTER LANE
PLANT CITY, FL 33563

Owner Information

AMAYA SOLUTIONS, INC
1802 CORPORATE CENTER LANE
PLANT CITY, FL 33563
FEI/EIN Number: 84-4097612
Document Number: F20000003944

Document Images

[09/15/2020 -- REGISTRATION](#)

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Fictitious Name Search

No Filing History



Customer Price Sheet Total Only			
Project name	Boca Raton WTP 9 Membrane Feed Pump	Quote Number / ID	2439388
Customer		Model / Stages	8AE17A / 1
Tag Number	001	Flow, rated	4,250 USgpm
Customer ref. / PO		Differential head / pressure, rated	227.0 ft
		Speed, rated	1770 rpm

Total			
Grand Total	\$530,000.00	Lead Time Total	23 wks

Pump	
Qty	Description
6	8AE17A
	Scope of Supply
	Scope
6	Alert:: Suction Pressure was not added on Inputs Page!
	Pump Type
	Pump Type: New Pump
	Scope of Supply: Complete Unit (Pump, Motor, Base, Cplg and Grd)
	General Pump Construction
	Materials
	Pump Material: Bronze Fitted Horiz Mount
	Pump Rotation: Clockwise (Right Hand)
6	Casing: CI Casing Assembly 125lb/125lb ANSI Flanges
6	Gaskets: Hardware & Split Flange Gasket for Casing
	Impeller Configuration: Standard
6	Impeller Material: Aluminum Bronze Impeller with Integral Rings
12	Casing Ring Material: Bronze Casing Rings
	Shaft Configuration: Double Row Outboard Bearing
6	Shaft Material: CW (RH) Shaft - 416SS, Double Row Outboard Bearing
6	Shaft Sleeve Material: 304 SS Shaft Sleeves (set)
6	Bearing Lubrication: Standard Grease Lubricated Ball Bearings
6	Bearing Protection: Double Row Outboard/Sgl Row Inboard Brgs with Std Lip Seals
	Coating: Standard Blue Enamel
	Flange Name Plate for NSF 61 (99403016)
	Seal & Packing Construction
	Seal Options
	Seal Type: Mechanical
6	Seal Material: JC, Tp 8-1, 32-73°F, NSF Carbon/Sil-Car, EPR, 316SS (Set of 2)
6	Seal Piping: Mechanical Seal Flush Piping - 18-8 Stn Steel
	Mounting Parts
	Base & Coupling Options
6	Base: Fabricated Steel Drip Rim Base
6	Coupling Type & Size: Falk, Steelflex SteelGrid: 1090T10
6	Coupling Guard: ANSI B15.1 Coupling Guard, Steel

Testing	
Qty	Description
6	Testing & Certification
	Optional Testing
6	Test Options: US H I Non-Witnessed Performance Test - Hyd Ins 14.6 Unilateral Grade 1U
6	Optional Testing: Test Curve For Approval - submitted for customer approval (stop/hold of production)
	Hydra Service (S), Inc. · 250 Springview Commerce Dr · Debary, FL 32713



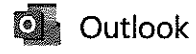
Testing	
Qty	Description
6	Certified Test Report Certified Test Report: Certified Test Data Report of Performance Test (Each pump) Certified Test Report: Guaranteed Pump Efficiency Guaranteed Efficiency Value: 85% Motor Non Overloading: Motor Nameplate Customer Supplied Driver Power : Customer Supplied Driver Power : 350
6	Hydrostatic Test: Non-Witnessed Hydrostatic Test

Certification & Documentation	
Qty	Description
6	Scope of Supply Scope Drinking Water Certification
6	Drinking Water Certification: NSF 61 International Classification Nameplate (Subject to factory validation of design and materials)
	Testing & Certification Product Certifications CE Mark: None
	Documents Project Management
1	Project Management: Project manager

Motor	
Qty	Description
6	Motor Driver Motor Type Motor Enclosure: TEFC Site Voltage: 460 volt, 3 phase Motor Efficiency: NEMA Premium Motor Phase: Three Phase
6	Selected Motor: Special Motor: 350Hp 1800R 460V 3Ph 60Hz PremEff 449T TEFC Class F Inverter Duty Rated Aegis Insulated bearings 115V Sapce HEaters Thermostats - US Special Motor Frame Size: Configured Motor 350 hp 449T Frame 1800 RPM

Commercial	
Qty	Description
6	Testing & Certification Product Shipping Shipping Container: Standard Skid (pump and driver)
	Commercial Terms Commercial Terms Incoterms 2020: FCA Freight Pre-paid and add Named Place: Boca Raton, FL

User Defined Items	
Qty	Description
1	Scope of Supply Scope Scope
1	Escalation



Outlook

RE: WTP 9 Membrane Feed Pumps

From Scott Carney <scarney@hydraservice.net>

Date Mon 4/14/2025 9:32 PM

To Connor King <CKing@globaltechdb.com>

Cc Amir Keyvanzad <Amir@globaltechdb.com>; Bruce Rahmani <bruce@globaltechdb.com>; Angelica Torres <ATorres@globaltechdb.com>; Angie Vilorio <AViloria@globaltechdb.com>

 2 attachments (3 MB)

Peerless Pumps Boca Raton WTP 9.pdf; 43 23 21 - Horizontal Split-Case Centrifugal Pumps_Peerless.docx;

Connor,

I hope all is well. Please see the attached information that you requested. The price that is set for these six pumps is a budgetary price. I have also estimated a start-up fee which would be an additional cost added to the budgetary pricing.

Start Up Fee

\$1500 x 3 Days = \$4,500.00

If you have any questions or concerns, please don't hesitate to contact me.

Thank you,

Scott Carney

District Sales Manager

Hydra Service, Inc

250 Springview Commerce Drive

Debarry, FL 32713

Cell: 954-240-9359

Phone: 407-330-3456

Fax: 407-330-3404

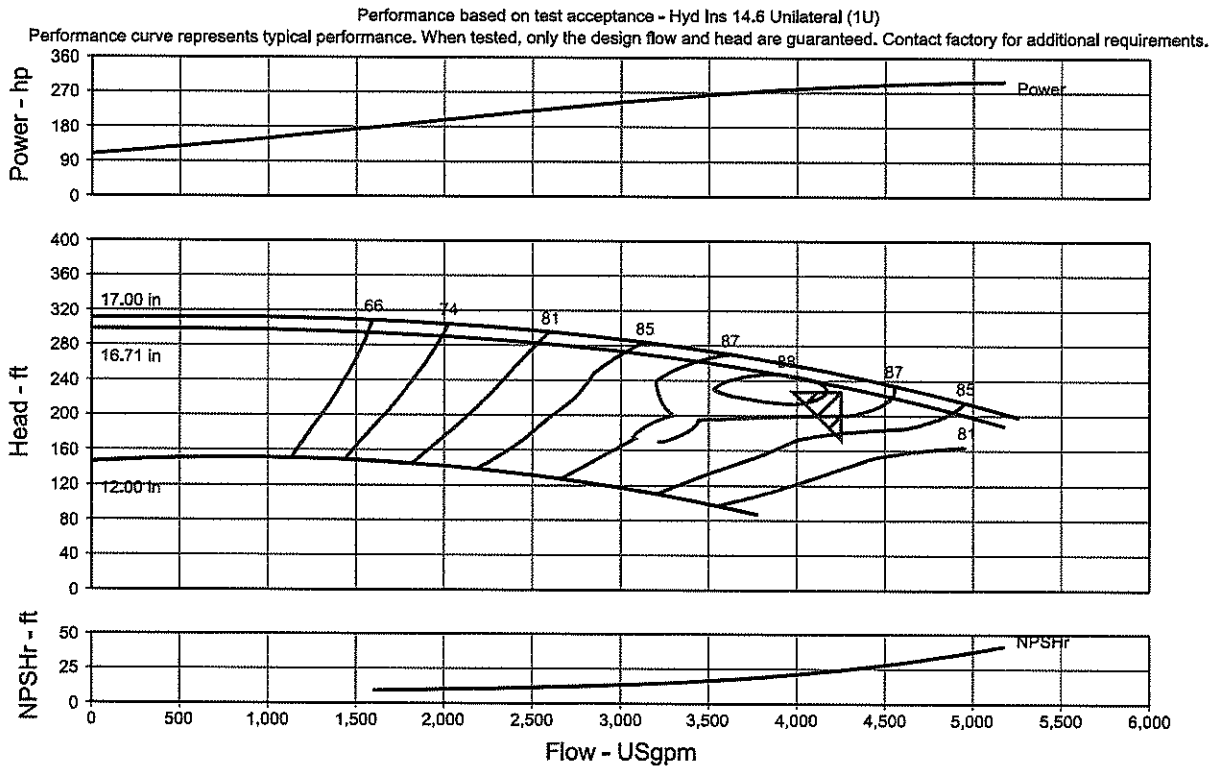
Email: scarney@hydraservice.net



Hydra Service, Inc.
SPECIALIST IN FLUID MOVEMENT



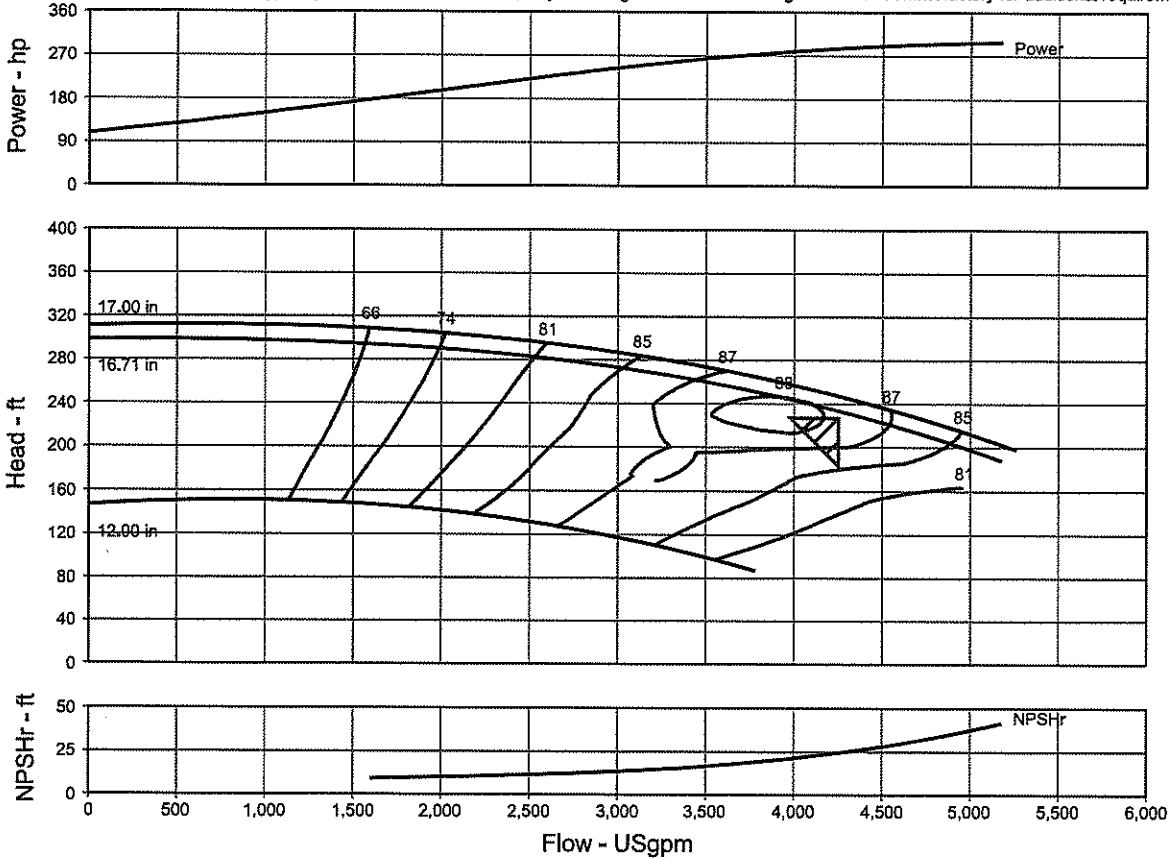
Pump Performance Datasheet			
Customer :		Quote Number / ID : 2439388	
Customer ref. / PO :		Peerless Model : 8AE17A	
Tag Number : 001		Stages : 1	
Service :		Based on curve number : 8AE17A-1770 Rev JULY 2021	
Quantity : 6		Date last saved : 12 Apr 2025 3:03 AM	
Operating Conditions		Liquid	
Flow, rated : 4,250 USgpm		Liquid type : Cold Water	
Differential head / pressure, rated (requested) : 227.0 ft		Additional liquid description :	
Differential head / pressure, rated (actual) : 233.8 ft		Solids diameter, max : 0.00 in	
Suction pressure, rated / max : 0.00 / 0.00 psi.g		Solids concentration, by volume : 0.00 %	
NPSH available, rated : Ample		Temperature, max : 68.00 deg F	
Site Supply Frequency : 60 Hz		Fluid density, rated / max : 1.000 / 1.000 SG	
Performance		Viscosity, rated : 1.00 cP	
Speed, rated : 1770 rpm		Vapor pressure, rated : 0.34 psi.a	
Impeller diameter, rated : 16.71 in		Material	
Impeller diameter, maximum : 17.00 in		Material selected : Cast Iron - 125# Discharge	
Impeller diameter, minimum : 12.00 in		Pressure Data	
Efficiency : 87.83 %		Maximum working pressure : 129.3 psi.g	
NPSH required / margin required : 24.4 / 0.0 ft		Maximum allowable working pressure : 175.0 psi.g	
Ns (imp. eye flow) / Nss (imp. eye flow) : 1,261 / 7,958 US Units		Maximum allowable suction pressure : 300.0 psi.g	
MCSF : 1,462 USgpm		Hydrostatic test pressure : N/A	
Head, maximum, rated diameter : 298.7 ft		Driver & Power Data (@Max density)	
Head rise to shutoff : 27.69 %		Motor sizing specification : Rated power (based on duty point)	
Flow, best eff. point : 4,009 USgpm		Margin over specification : 0.00 %	
Flow ratio, rated / BEP : 106.01 %		Service factor : 1.00 (used)	
Diameter ratio (rated / max) : 98.29 %		Power, hydraulic : 250.7 hp	
Head ratio (rated dia / max dia) : 94.49 %		Rated power (based on duty point) : 285.5 hp	
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00		Max power (non-overloading) : 298.5 hp	
Selection status : Acceptable		Nameplate motor rating : 300.0 hp / 223.7 kW	





Pump Performance Curve

Performance based on test acceptance - Hyd Ins 14.6 Unilateral (1U)
Performance curve represents typical performance. When tested, only the design flow and head are guaranteed. Contact factory for additional requirements.

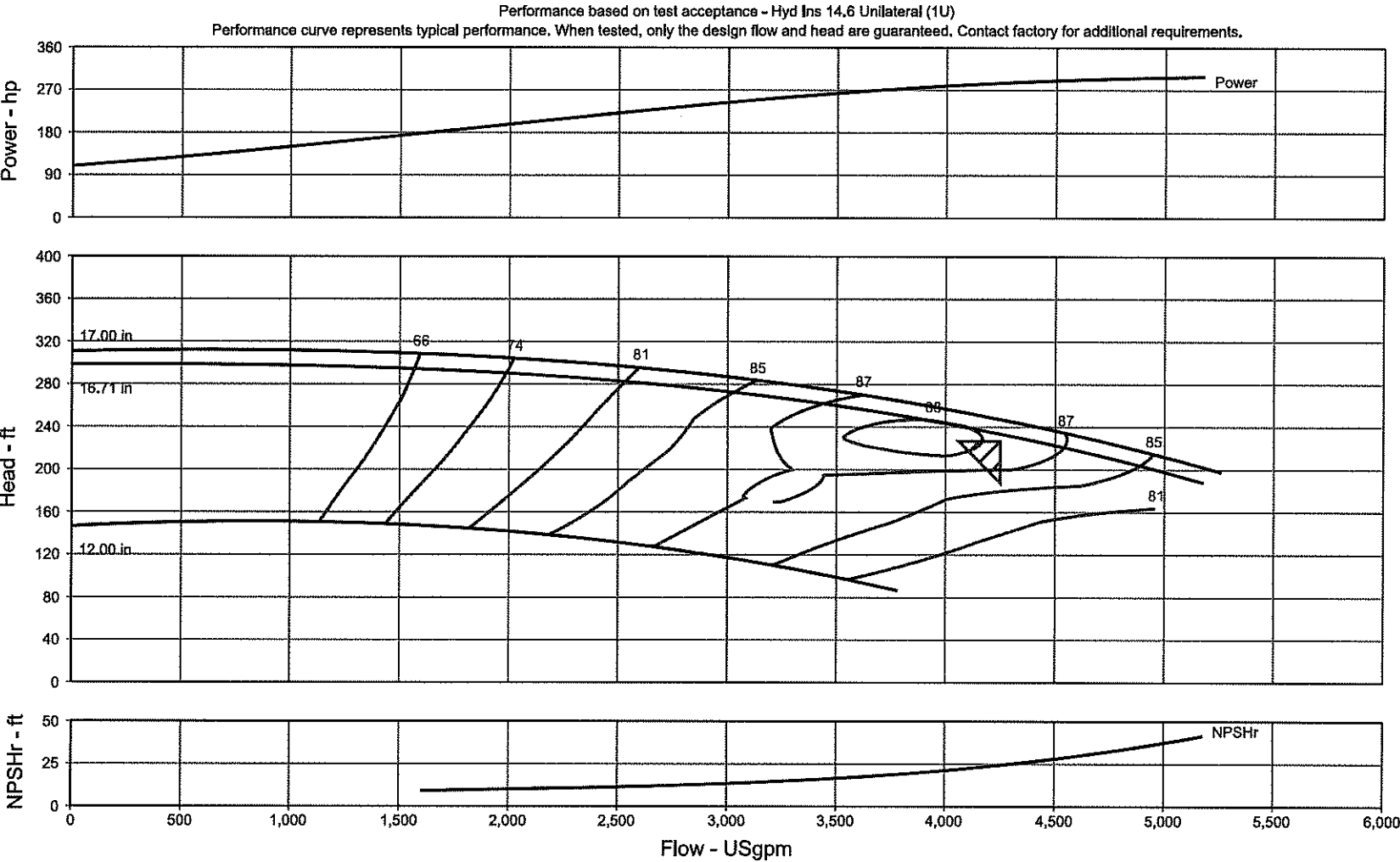


Customer	:	Peerless Model	: 8AE17A
Customer ref. / PO	:	Stages	: 1
Tag Number	: 001	Speed, rated	: 1770 rpm
Service	:	Based on curve number	: 8AE17A-1770 Rev JULY 2021
Quantity	: 6	Efficiency	: 87.83 %
Quote Number / ID	: 2439388	Rated power (based on duty point)	: 285.5 hp
Date last saved	: 12 Apr 2025 3:03 AM	Max power (non-overloading)	: 298.5 hp
Flow, rated	: 4,250 USgpm	NPSH required	: 24.4 ft
Differential head / pressure, rated	: 227.0 ft	Viscosity	: 1.00 cP
Fluid density, rated / max	: 1.000 / 1.000 SG	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00

Flow (USgpm)	Head (ft)	Efficiency (%)	Power (hp)	NPSHr (ft)	Thrust, total (lbf)
0	298.4	0.00	108.6	-	-
575	298.6	33.09	131.1	-	-
1,151	297.0	55.08	156.7	-	-
1,726	293.1	69.36	184.1	9.4	-
2,302	286.2	78.44	212.0	10.8	-
2,877	275.9	83.99	238.6	12.9	-
3,453	261.5	87.05	261.9	16.2	-
4,028	242.4	88.03	280.0	21.6	-
4,604	218.1	86.72	292.2	29.8	-
5,179	187.8	82.27	298.5	41.5	-



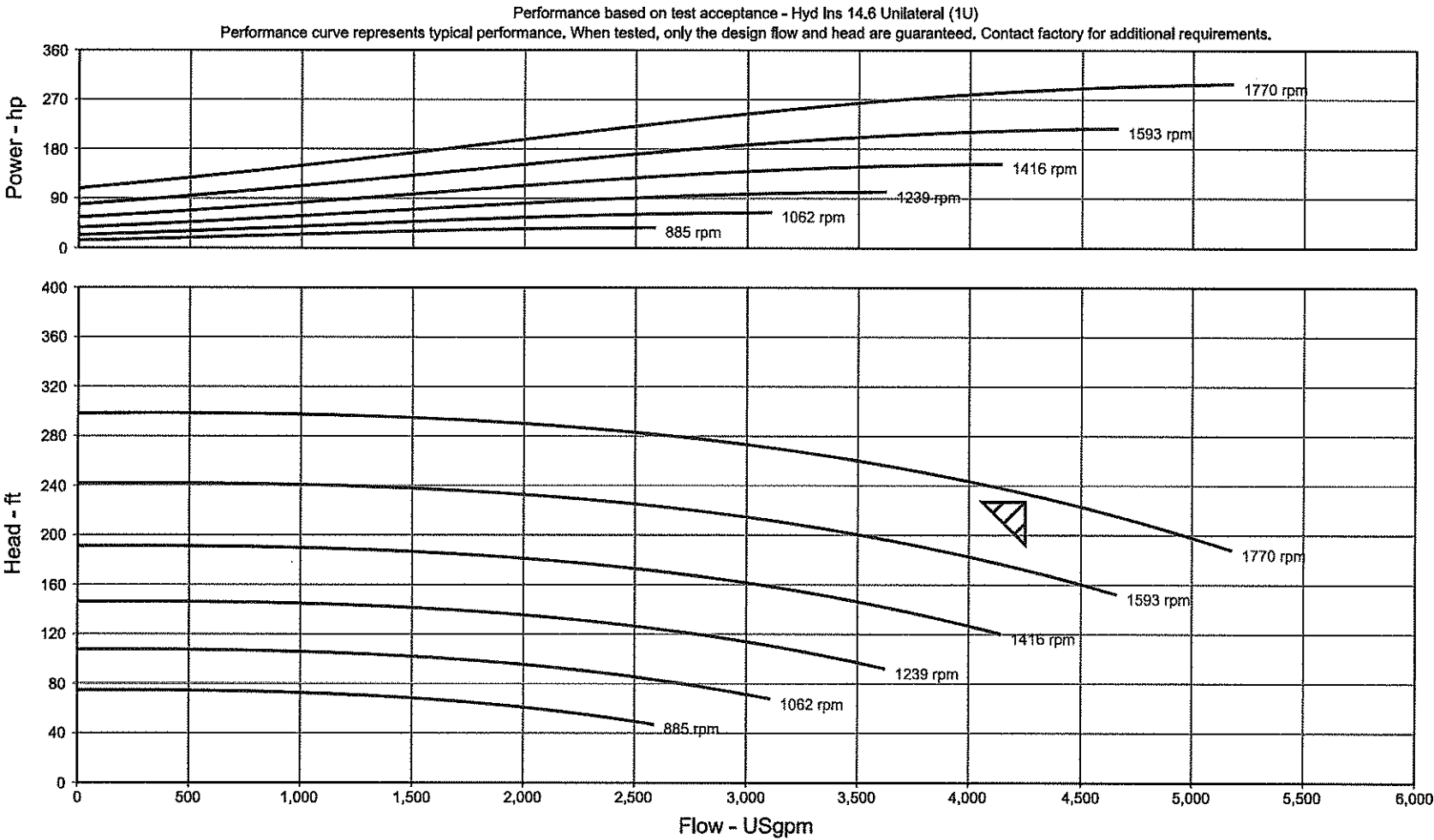
Pump Performance Curve



Project name	: Boca Raton WTP 9 Membrane Feed Pump	Tag Number	: 001	Speed, rated	: 1770 rpm
Commissioned	:	Service	:	Flow, rated	: 4,250 USgpm
Representative	:	Peerless Model	: 8AE17A	Differential head / pressure, rated	: 227.0 ft
Customer	:	Quantity	: 6	Rated power (based on duty point)	: 285.5 hp
Customer ref. / PO	:	Quoted By (Sales Office)	: Hydra Service (S), Inc.	Max power (non-overloading)	: 298.5 hp
Quote Number / ID	: 2439388	Quoted By (Sales Engineer)	: Scott Carney	Efficiency	: 87.83 %
Date last saved	: 12 Apr 2025 3:03 AM	Stages	: 1	Based on curve number	: 8AE17A-1770 Rev JULY 2021



Multi-Speed Performance Curve

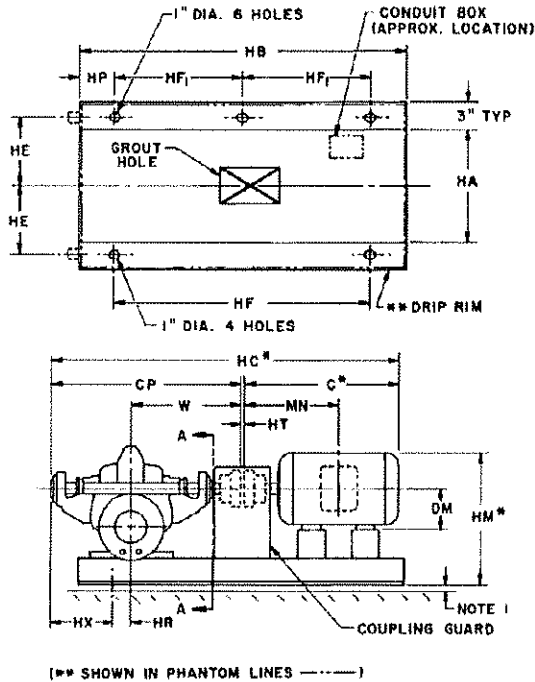


Project name	: Boca Raton WTP 9 Membrane Feed Pump	Tag Number	: 001	Speed, rated	: 1770 rpm
Commissioned	:	Service	:	Flow, rated	: 4,250 USgpm
Representative	:	Peerless Model	: 8AE17A	Differential head / pressure, rated	: 227.0 ft
Customer	:	Quantity	: 6	Fluid density, rated / max	: 1.000 / 1.000 SG
Customer ref. / PO	:	Quoted By (Sales Office)	: Hydra Service (S), Inc.	Viscosity	: 1.00 cP
Quote Number / ID	: 2439388	Quoted By (Sales Engineer)	: Scott Carney	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Date last saved	: 12 Apr 2025 3:03 AM	Stages	: 1	Based on curve number	: 8AE17A-1770 Rev JULY 2021

General Arrangement Drawing

Project name : Boca Raton WTP 9 Membrane Feed Pump
 Commissioned :
 Representative :
 Customer :
 Customer ref. / PO :
 Quote Number / ID : 2439388
 Date last saved : 12 Apr 2025 3:03 AM

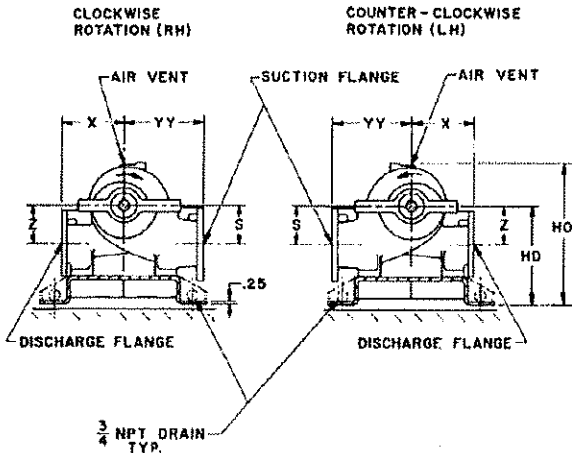
Tag Number : 001
 Service :
 Model : 8AE17A
 Quantity of pumps : 6
 Quoted By (Sales Office) : Hydra Service (S), Inc.
 Quoted By (Sales Engineer) : Scott Carney



Note 1: Customer must fill base with grout and allow for .75 to 1.50 inch grout thickness between top of foundation and bottom of base

Note 2: Unit installation and final coupling alignment must be done by the installing contractor per Peerless Pump Company Installation Bulletin 2880549.

VIEW A-A



Units	Frame	CP	S	W	X	YY	Z	C	DM	HC	HD	HM	HO	HR	HT	HX	MN	HA	HB	HE				
Inches	449T	35.25	10	19.75	15	19	12	50	11	86	22	36.5	36	5.5	0.75	10	24.75	24	84	13.5				
Suction size		10 in.	Suction flange			125 lb ANSI		Base Furnished			Yes											HF	HF1	HP
Discharge size		8 in.	Discharge flange			125 lb ANSI		Rotation			Clockwise (Right Hand)											0	36	6
Flow		4,250 USgpm			Fluid		Cold Water		Impeller Diameter			16.71 in		Enclosure		N/A		Service Factor		N/A				
TDH		227.0 ft			Temp		68 F		Pump Speed			1770 RPM		Power		0 Hp		Electrical Spec		3/460/60				
Pump Weight		1010 lbs		Motor Weight		0 lbs		Base Weight		330 lbs		Coupling Weight			56 lbs		Total Weight		1396 lbs					



Proposal

To: Connor King
GlobalTech

Date: June 4, 2025

Re: PBC WTP No. 9
Flowserve Pump Scope

WE ARE PLEASED TO QUOTE YOU ON THE FOLLOWING MATERIAL FOR ACCEPTANCE WITHIN 14 DAYS

As the Florida Representative for Flowserve Pumps, Carter VerPlanck would like to provide you with a budget quote for the Flowserve 8LR-18S Horizontal Split Case Pump with 350HP/1,800RPM Motor and 400HP EATON VFDs. Budget price includes freight and start-up services

I. Warranty

The Pumps are subject to Flowserve’s standard warranty twelve (12) months from start-up, not to exceed eighteen (18) months from shipment not Owner Acceptance, Substantial Completion or any other Project Milestones.

II. Items not included unless specified herein

- A. VFDs not included in price
- B. Off-loading at jobsite, any labor or tools for Assembly or Installation, Field operation, Field performance testing
- C. Suction or Discharge piping, mechanical couplings, supports, tie rods, leveling screws, fittings, Air relief valves / Vacuum valves / Isolation valves, Gauges, T cocks, templates or accessories
- D. Vibration isolation equipment
- E. Seal water or drain accessories such as flow indicators, pressure reducing valves, Y strainers, fittings
- F. Seismic Analysis
- G. Any Type of Controls, Instrumentation, MCCs, Starters, Power Factor Correction Capacitors, Panels, cable, wiring, conduits, temperature or vibration probes, remote controls, or any auxiliary electrical equipment extraneous to the pump motors
- H. Standard tools or tool chests, lubricants, grease fitting extensions or guns
- I. Field painting, touch-up paint supply

\$ 2,085,000
NET LOT PLUS TAX

Price includes freight. Quotation does not include any sales or use tax except as listed in the Bid Form. This quote is based on current steel and iron pricing and availability. Due to the unstable market for raw materials, increases in pricing may be passed on at the time of order. In the event of additional **international trade tariffs**, final pricing will be subject to any additional tariffs.

Please Note:

- 1. Pump equipment guarantees are based on certified factory tests only. Should BUYER’s field tests indicate that SELLER’s equipment does not meet the specified performance requirements, SELLER shall make its field service



Proposal

representative available, at SELLER's published field service rates, for consultation purposes and to assist in identifying the root cause of the performance discrepancy. If such root cause is determined to be SELLER's fault or responsibility, then Contract warranty provisions apply and SELLER's sole obligation and BUYER's sole remedy is repair of the defect at issue to comply with the specified performance requirements

2. In the event any documentation review exceeds two (2) revisions or any documentation review and approval is delayed beyond two (2) weeks or ten (10) working days, and the cause of those revisions or delays is not due to the fault or omission of the Seller, Seller reserves the right to alter the delivery date and/or charge Buyer for additional costs associated with subsequent revisions or delays. Unless otherwise stated, in the event approval and release to manufacture is delayed beyond six (6) months from placement of PO at no fault of Seller, Seller reserves the right to alter the delivery dates and/or charge Buyer for any cost increases
3. Price and delivery for the goods in this proposal are based on the current costs of raw materials, supplies and components, including but not limited to metals and metal products (the "Materials"). The market for these Materials is considered volatile due to newly enacted and proposed tariffs, duties, levies, taxes or other unforeseen cost increases. Therefore, if the cost increase for these Materials exceeds 3%, we reserve the right to adjust our prices accordingly.
4. If Carter VerPlanck's costs rise due to factors beyond its control, such as tariff increases, Carter VerPlanck must reserve the right to adjust our prices to compensate for such increases
5. We do not include sales tax, pressure gauges, 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.
6. 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.
7. Payment terms are 100% net 30 days from delivery with approved credit. Our prices based upon no retainage.
8. Pricing is based upon Carter & VerPlanck's 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.

Quoted By: *Tyler J. Tedcastle, P.E.*
Carter & VerPlanck, a DXP Company



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, 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.



Proposal

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 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.



Pump size & type / Stages : 8LR-18S / 1

Based on curve no. : SK205254

Impeller diameter : 16.81 in

Customer : Connor King

Item number : Membrane Feed

Service : -

Flowserve reference : 5258069901

Date : June 4, 2025

Capacity : 4,250.0 USgpm

Head : 227.00 ft

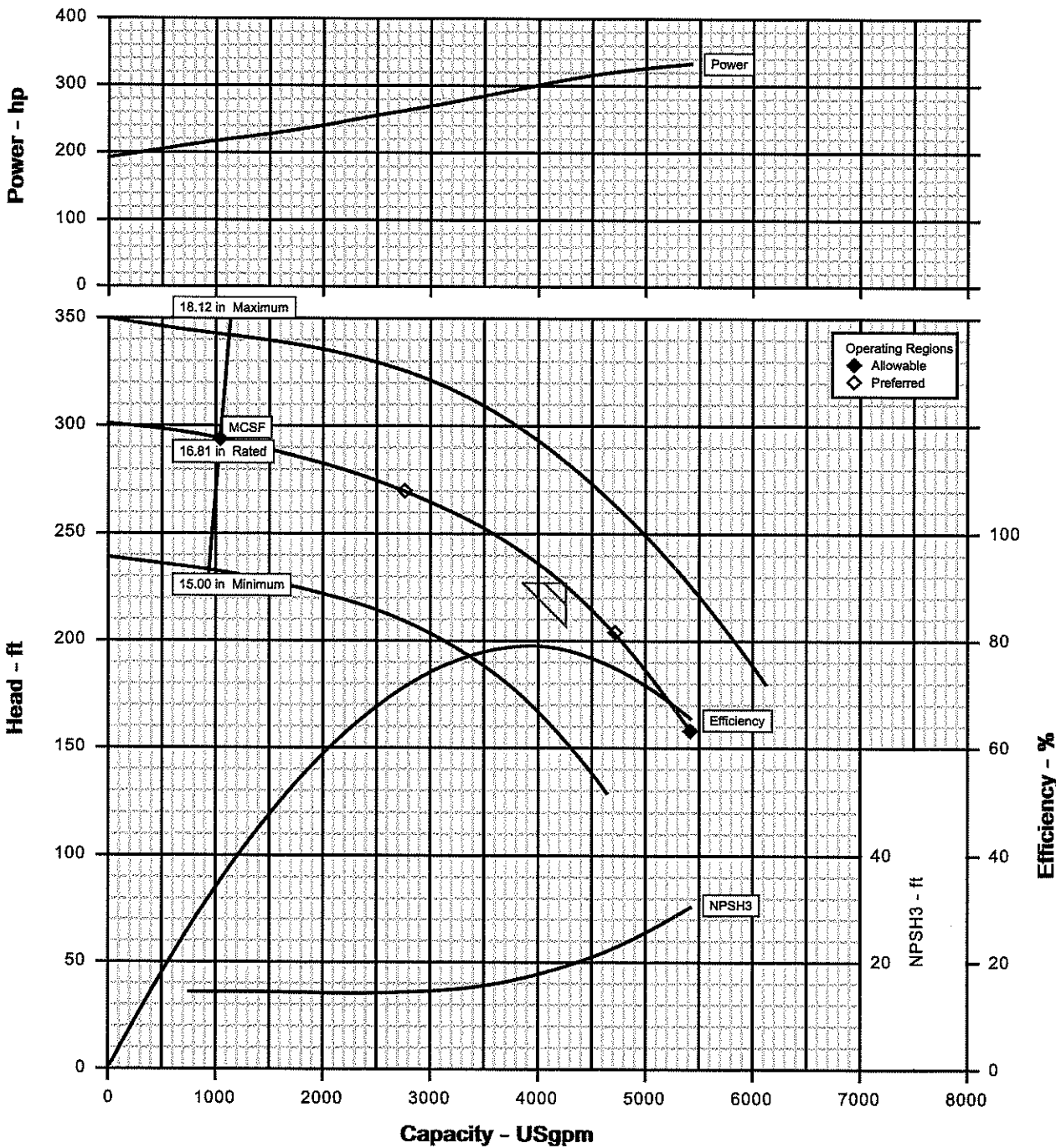
Density / Specific gravity : - / 1.000

Pump speed : 1,750 rpm

Ns / Nss (per eye) : 1,767 / 8,420 (US)

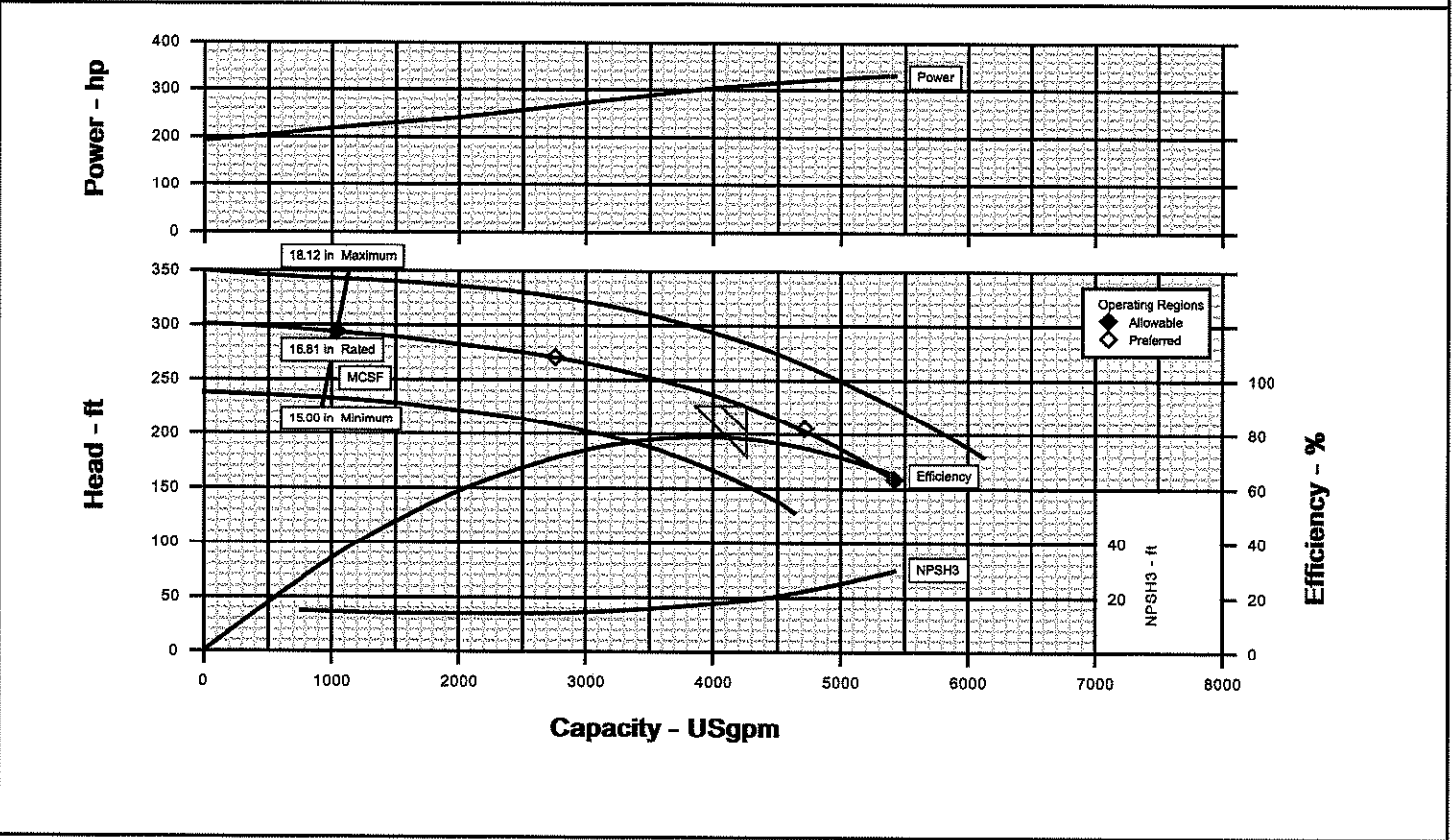
Test tolerance : ANSI/HI 14.6 Grade 1U

CURVES ARE APPROXIMATE, PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS; CAPACITY, HEAD, AND EFFICIENCY.



Customer	: Connor King	Pump / Stages	: 8LR-18S	/ 1
Customer reference	: -	Based on curve no.	: SK205254	
Item number	: Membrane Feed	Flowserve reference	: 5258069901	
Service	: -	Date	: June 4, 2025	
Operating Conditions		Materials / Specification		
Capacity (rated/normal)	: 4,250.0 USgpm / -	Material column code	: SF	
Water capacity (CQ=1.00)	: -	Pump specification	: -	
Total developed head	: 227.00 ft	Other Requirements		
Water head (CH=1.00)	: -	Hydraulic selection : No specification		
NPSHa/NPSHa less margin	: 34.0 ft / -	Construction : NSF 61		
Maximum suction pressure	: 0.0 psig	Test tolerance : ANSI/HI 14.6 Grade 1U		
Liquid		Driver Sizing : Max Power(MCSF to EOC) using SF		
Liquid type	: Other	Performance data based on standard impeller		
Liquid description	: -			
Temperature	: 60 °F			
Density / Specific gravity	: - / 1.000			
Solid Size - Actual / Limit	: - / 1.50 in			
Viscosity / Vapor pressure	: 1.00 cSt / 0.00 psia			
Performance				
Hydraulic power	: 244 hp	Impeller diameter		
Pump speed	: 1,750 rpm	Rated	: 16.81 in	
Pump overall efficiency (CE=1.00)	: 78.9 %	Maximum	: 18.12 in	
NPSH required (NPSH3) (CNPSH=1.00)	: 19.0 ft	Minimum	: 15.00 in	
Rated brake power	: 309 hp	Ns / Nss (per eye)	: 1,767 / 8,420 (US)	
		Minimum continuous flow	: 1,041.2 USgpm	
Maximum brake power	: 331 hp	Maximum head at rated diameter	: 301.25 ft	
Driver power rating	: 350 hp / 261 kW	Flow at BEP	: 3,933.7 USgpm	
Casing working pressure	: 130.4 psig	Flow as % of BEP	: 108.0 %	
(based on shut off @ cut dia/rated SG)		Efficiency at normal flow	: -	
Maximum allowable	: 175.0 psig	Impeller diameter ratio (rated/max)	: 92.8 %	
Hydrostatic test pressure	: 265.0 psig	Head rise to shut off	: 32.7 %	
Estimated rated seal chamber pressure	: -	Total head ratio (rated / max) / (max / rated)	: 79.7 % / 125.5 %	

CURVES ARE APPROXIMATE, PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS; CAPACITY, HEAD, AND EFFICIENCY.





Customer	: Connor King	Pump / Stages	: 8LR-18S	/ 1
Customer reference	: -	Based on curve no.	: SK205254	
Item number	: Membrane Feed	Flowserve reference	: 5258069901	
Service	: -	Date	: June 4, 2025	
Construction		Driver Information		
Nozzles	Size	Rating	Face	Position
Suction	12 inch	125#ANSI	FF	Side
Discharge	8 inch	125#ANSI	FF	Side
Casing mounting	: Foot			
Casing split	: Axial			
Impeller type	: Double Entry			
Bearing type (radial)	: Single row			
Bearing number (radial)	: 6213			
Bearing type (thrust)	: Single Row			
Bearing number (thrust)	: 6213			
Bearing lubrication	: Grease			
Rotation (view from coupling)	: CCW per Hyd. Institute			
Materials		Manufacturer		
Casing	: Cast Iron			
Impeller	: 316 Stainless steel			
Case wear ring	: 316 Stainless steel			
Impeller wear ring	: Not Fitted			
Inducer	: Not Applicable			
Shaft	: 11-13% Chrome			
Sleeve	: 416 Stainless Steel			
Baseplate, Coupling and Guard		Power		
Baseplate type	: Bent Form			
Baseplate material	: Carbon Steel			
Coupling manufacturer	: Falk			
Coupling size	: 1090T20			
Coupling / Shaft guard	: OSHA			
Weights (Approx.)		Service factor (requested / actual)		
Bareshaft pump (net)	: 1,667.0 lb			
Baseplate (net)	: 351.0 lb			
Driver (net)	: -			
Shipping gross weight/volume	: 2,522.5 lb / 139.38 cu.ft			
Testing		Synchronous speed		
Hydrostatic test	: Non witnessed			
Performance test	: Non witnessed			
NPSH test	: None			
Paint and Package		Orientation / Mounting		
Pump paint	: FLS St'd PU Topcoat			
Base grout surface prep	: -			
Shipment type	: Domestic			
		Driver type		
		: NEMA		
		Frame-size / material		
		: 449T / -		
		Enclosure		
		: TEFC		
		Hazardous area class		
		: Special for Safe Area		
		Explosion 'T' rating		
		: Special for Safe Area		
		Volts / Phase / Hz		
		: 460 V / 3 / 60 Hz		
		Amps-full load/locked rotor		
		: - / -		
		Motor starting		
		: Direct on line (DOL)		
		Insulation		
		: Special Motor		
		Temperature rise		
		: -		
		Bearings		
		: -		
		Lubrication		
		: -		
		Motor mounted by		
		: FPD		
		Sound Pressure (dBA @ 1.0 m)		
		Driver, expected		
		: -		
		Pump & driver, estimated		
		: 90.0 dBA		
		Seal Information		
		Arrangement		
		: Packing		
		Size		
		: 3.75 inch		
		Manufacturer / Type		
		: Crane / Fiber		
		Material code (Man'f/API)		
		: 1340 / -		
		Internal neck bushing		
		: None		
		Gland		
		Gland material		
		: Cast iron		
		Flush		
		: Internal piping		
		Vent		
		: None		
		Drain		
		: None		
		Auxiliary seal device		
		: None		
		Piping		
		Seal flush plan		
		: Plan 01		
		Seal flush construction		
		: -		
		Seal flush material		
		: -		
		Aux seal flush plan		
		: -		
		Aux seal flush construction		
		: -		
		Aux seal flush material		
		: -		
Notes				
Sound Pressure levels				
-subject to 3dBA tolerance				
-Refer for contractual values				
-Refer if value not shown				
-				
XSD Drawing No. 0000ALRXXXXXXFTNIRSNIGLSE				

NOTES:

1. Consult the instruction book before installing the pump.

2. Allow 0.25" (6mm) for variation of nozzle faces, centerline height, foundation holes, and other nominal dimensions.

3. All holes in flanges straddle the centerlines.

4. Foundation bolts and piping should not be set rigidly until receipt of equipment.

5. Allow a minimum of 0.75" (19mm) under bedplate for adjustment and grouting.

6. Motor dimensions shown are maximum expected. Refer to a certified motor drawing for exact dimensions, if required.

7. Piping, foundations, and system design are the responsibility of others. Flowserve Pump Division data and comments are offered

as an aid, but Flowserve Pump Division assumes no responsibility for the system design or operation. It is recommended that a specialist skilled in this area be consulted to ensure a successful installation.

AUXILIARY CONNECTIONS

a- 1/4" NPT St. Box Sealing (Both Sides)

g- 1/2" NPT Suction Drain

h- 1/2" NPT Discharge Drain

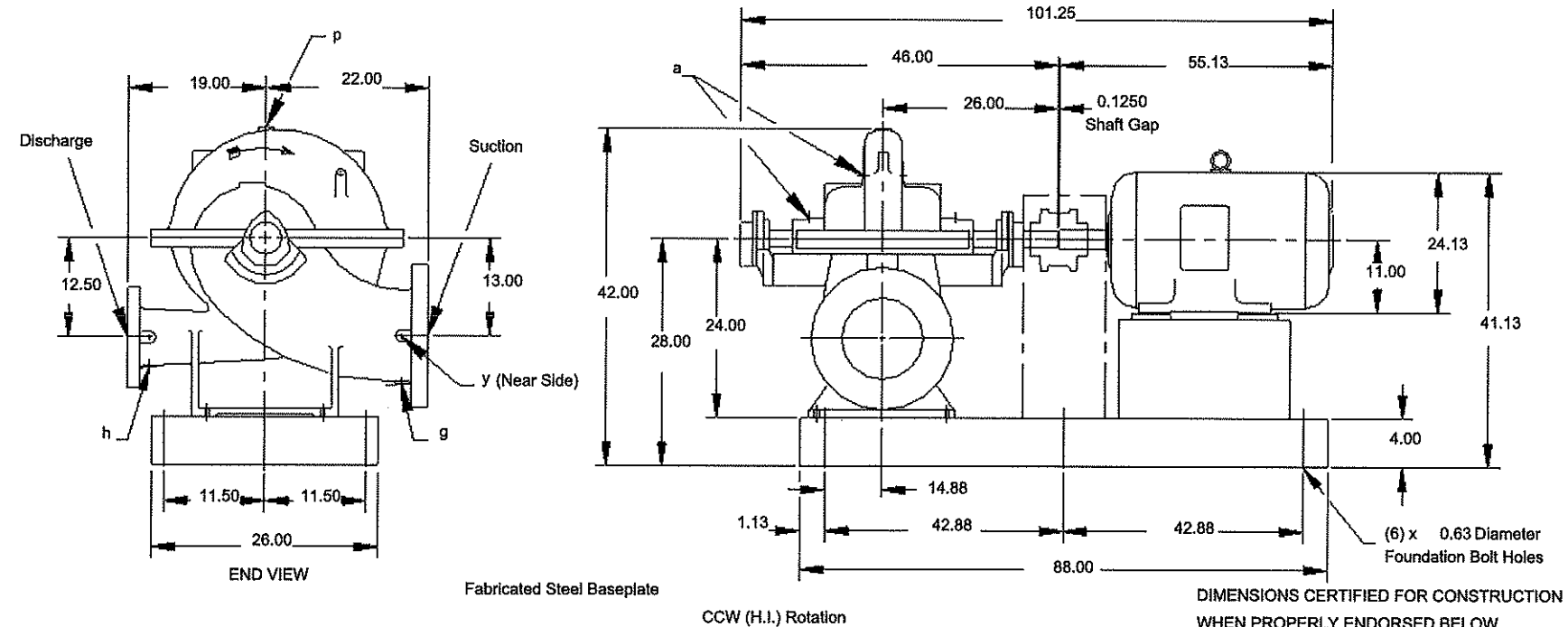
p- 3/4" NPT Casing Vent

y- 1/4" NPT Gauge Tap (Both Flanges)

Suction Flange- 12.00" -125# ANSI F.F.

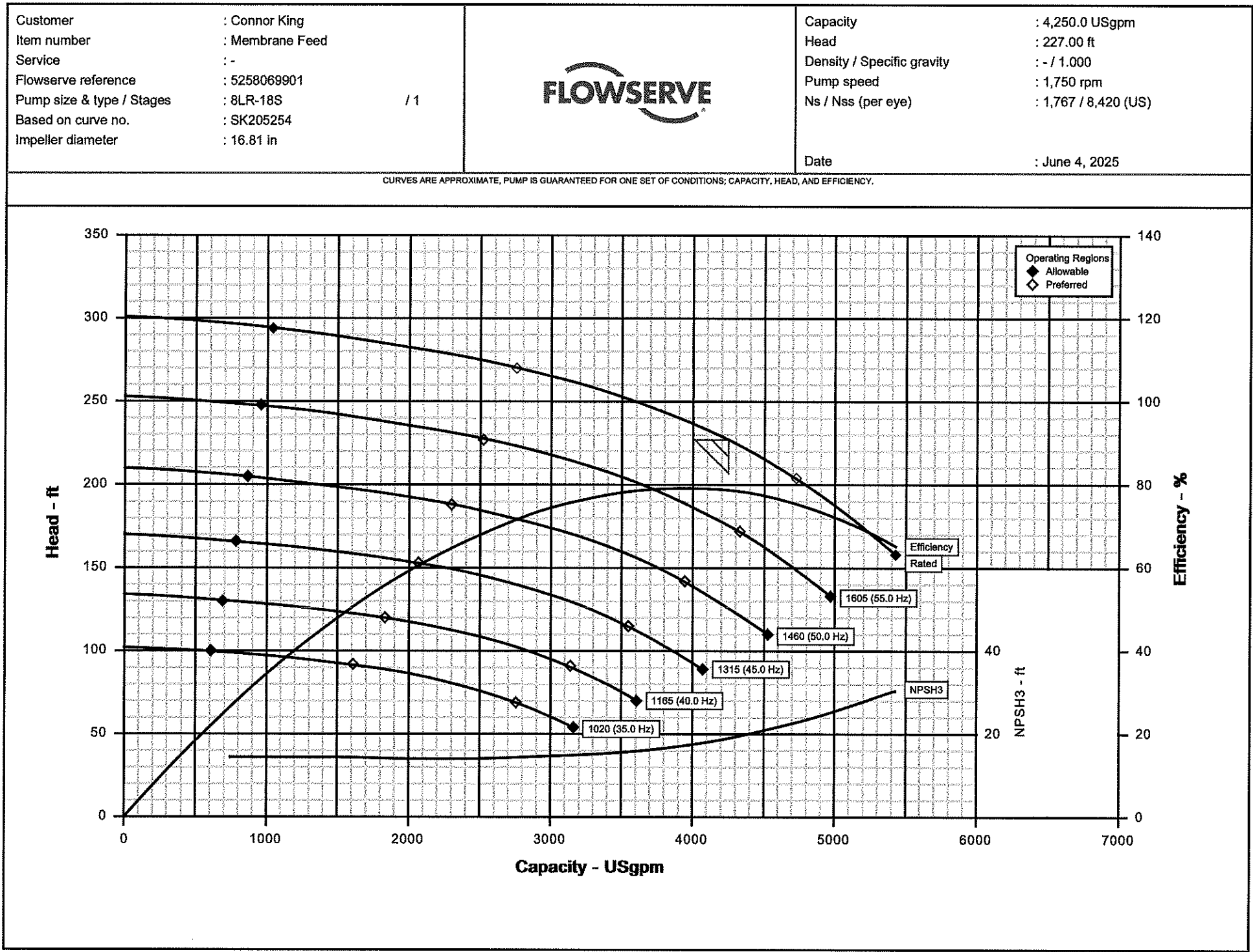
Discharge Flange- 8.00" -125# ANSI F.F.

REFER TO FACTORY FOR ANY (*) DIMENSION.



DIMENSIONS CERTIFIED FOR CONSTRUCTION
WHEN PROPERLY ENDORSED BELOW.

Customer	: Connor King	Pump size & type	: 8LR-18S	Drawing number	: -
Item number	: Membrane Feed	Pump speed / Stages	: 1,750 rpm / 1	Date	: June 4, 2025
Service	: -	Flow / Head	: 4,250.0 USgpm / 227.00 ft	Certified by / Date	: -
Customer PO #	: -	Driver power / Frame	: 350 hp / 261 kW / 449T	Seal type	: Fiber
Flowserve reference	: 5258069901	Volts / Phase / Hz	: 460 V / 3 / 60 Hz	Seal flush plan	: Plan 01



Detail Bill of Material

Project Name:	THE PALM BEACH WUD - DELRAY	Negotiation No:	M880404X5K1
General Order No:		Alternate No:	0005

Item No.	Qty	Product	Description
	1	Drives - Enclosed	EGP 18-Pulse Enclosed Drive w/ 5% Dual DC Link Choke, 400 HP (298 KW) Low Overload (IL) Rated, 480VAC Three Phase Input, NEMA 1 Enclosure
		Catalog No	EGP4774A150AA00031*
		Designation	400 HP 18P
Catalog No	Qty	List of Materials	
Isolation Fuses	1	Isolation Fuses	
Engineered Options	1	Engineered Options	
Circuit Breaker	1	Circuit Breaker	
→100KAIC	1	→100KAIC Rated	
Rated			
SPD (40KA per phase)	1	SPD (40KA per phase)	
Output Contactor	1	Output Contactor	
HOA Switch	1	30mm HOA Switch - 10250T Series	
Octal Base	4	Octal Base Control Relay	
Control Relay			
Timer Relay	1	Timer Relay	
Misc Light	4	Misc 30mm Push-To-Test Pilot Light - 10250T Series	
E-Stop Button	1	30mm E-Stop Button - 10250T Series	
Reset Button	1	30mm Reset Button - 10250T Series	
Control Relay	4	Control Relay	
Elapsed Time Meter	1	Elapsed Time Meter	
Varnished Boards (Standard)	1	Varnished Boards (Standard)	
3 x RO (2NO + 1NO/NC)	1	Exp IO - 3 x RO (2NO + 1NO/NC)	
3 x DI, 3 x DO, 1 x thermistor, 24 Vdc/EXT	1	Exp IO - 3 x DI, 3 x DO, 1 x thermistor, 24 Vdc/EXT	

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

General Information: Drives - Enclosed

Drive Schedule						
Item	Qty	Equipment ID	Catalog Number	Output HP	Output Amps	Output Voltage
	1	400 HP 18P	EGP4774A150AA0 0031*	400	477	480VAC Three Phase

Item Information	
Design Series:	Enclosed 18-Pulse DG1 Drive
Output Power:	400 HP (298 KW)
Rated Output Current (Amps):	477
Input Voltage:	480VAC Three Phase
Input Frequency	45 to 66 Hz
Output Voltage:	480VAC Three Phase
Output Frequency	0 to 320 Hz
Branch Protection:	Circuit Breaker
Short Circuit Current Rating:	100KAIC
Enclosure NEMA Rating:	NEMA 1
Enclosure Size:	9X
Drive Frame Size:	FR7
Onboard Comms:	BACnet MS/TP, Ethernet/IP, Modbus, & Modbus TCP
Optional Comms:	None

Enclosure Information	
NEMA Rating:	NEMA 1
Height (in):	
Width (in):	
Depth (in):	
Weight (lbs):	2500

Circuit Protection	
Protection Type:	
Lugs:	
Wire Range:	
Disconnect Current Rating:	N/A
Fuse Type:	0

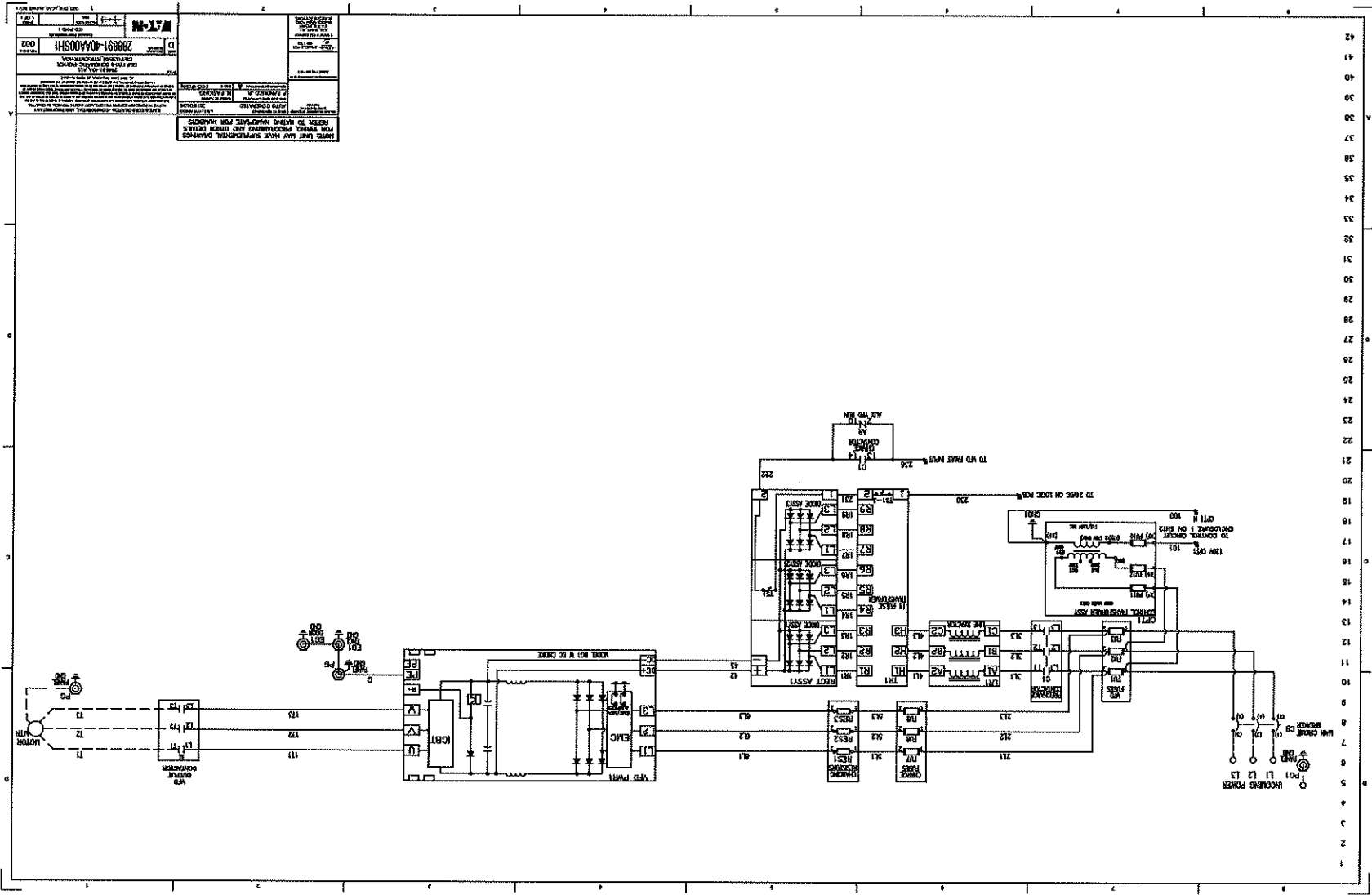
The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY	DATE	Eaton			
	Kevin Williams	6/2/2025	JOB NAME	THE PALM BEACH WUD - DELRAY		
	APPROVED BY	DATE	DESIGNATION	400 HP 18P		
	VERSION		TYPE	DRAWING TYPE		
	10.0.12.0	Drives - Enclosed	MI			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
MI880404X5K1-0005	0	A			1 of 1	

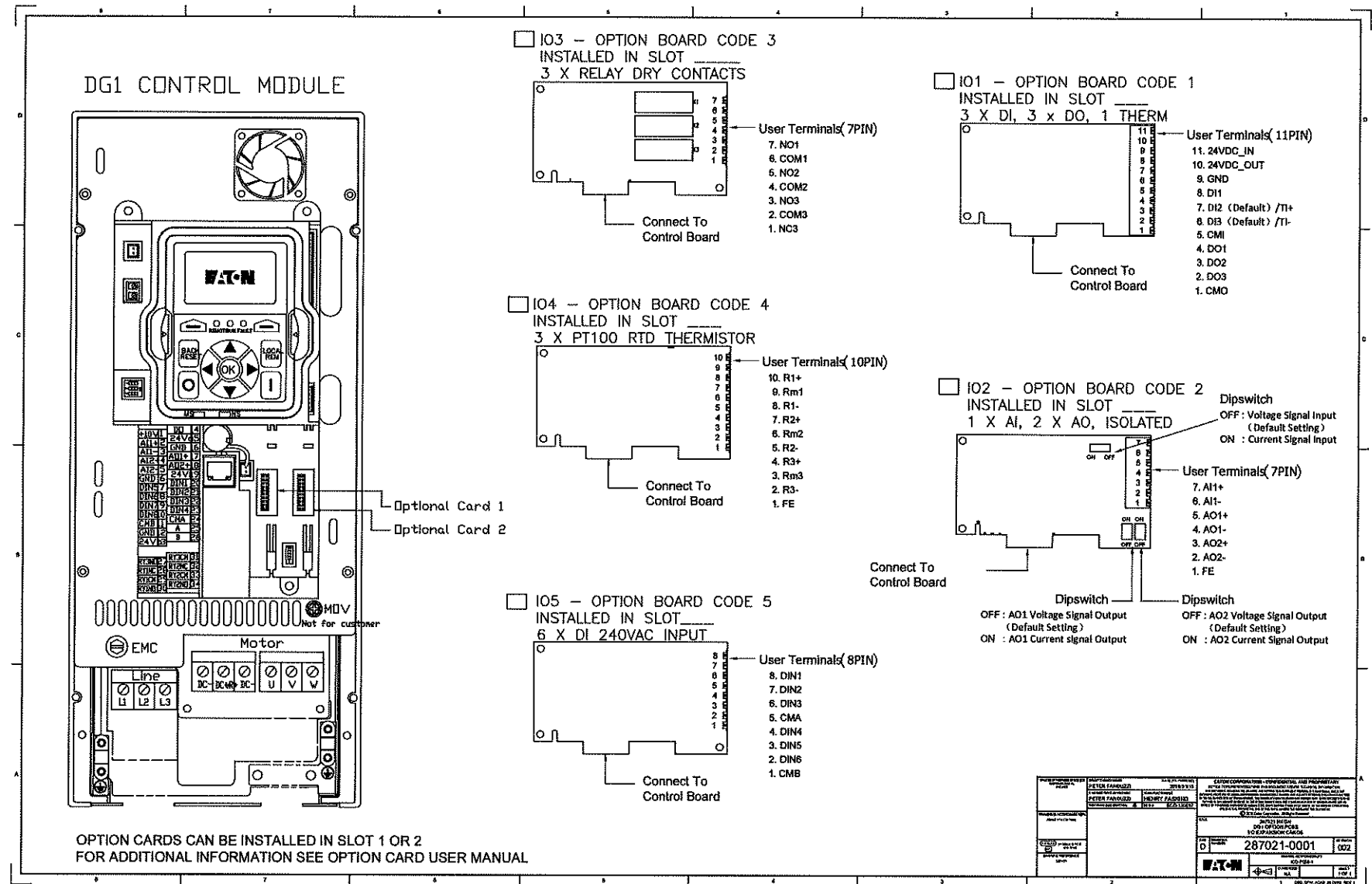


Powering Business Worldwide

Missing File: Custom drawing required. Please place order with Factory to receive drawing.

Item Number:	Job Number:	Job Name:
MI880404XSK1-0005-6/2/2025	THE PALM BEACH WUD - DELRAY	400 HP 18P
Catalog Number:	Designation:	
EGP4774A160AA00031*		







#3 Price Increase

Pump & Equipment
A Division of Tencarva Machinery Company
3524 Craftsman Boulevard, Lakeland, FL 33803
Phone (863) 665-7867 Fax (863) 667-2951

PROPOSAL

TO: GlobalTech
901 Yamato Rd. Suite 220
Boca Raton, FL 33431
Attn: Mr. Connor King

PROJECT: GlobalTech WTP 9 Membrane Expansion

DATE: June 9, 2025

Hudson Pump & Equipment agrees to sell to Purchaser and Purchaser agrees to purchase from Hudson Pump & Equipment the products as described below:

I. EQUIPMENT DESCRIPTION:

Item I: Description of Equipment, Testing, and Services

Qty(6) each - ITT Goulds Pumps model 3410 L 8x10-17H/5V - *Rated: 4250 GPM @ 227' TDH*
350HP TEFC 1800RPM Inverter Duty Motor
400HP VFD Panel
480V, 515A, Variable Torque
NEMA 12 Enclosure w/ CB Disconnect
Low Harmonic Input
Basic Controls and Logic for Pump Application
Ethernet IP
RTD Monitor
Output Filter
AEGIS Shaft Grounding Ring
Approximate Dimensions: 61.3" H x 26.86" W x 14.72" D

II. APPLICABLE SPECIFICATIONS:

None were provided

III. COMMENTS AND CLARIFICATIONS:

N/A

IV. BID VALIDITY: This bid is valid for 30 days unless withdrawn by seller in writing and is based upon equipment release for manufacture within 90 days and shipment upon completion or within 10 days of test curve submittal.

V. ESCALATION: Material surcharges and escalation will apply to all orders not released for manufacturing and shipment within 90 days of the quote date.

VI. TERMS OF PAYMENT: 100% net cash 30 days with credit approval. A 2% processing fee shall be added to all credit card payments. A late charge of 1.5% per month shall be added to all unpaid balances. The Purchaser shall pay all attorneys fees and collection charges for any late payments. If shipment is delayed by the purchaser, the date of readiness for shipment shall be deemed the date of shipment for payment purposes. Payments shall be prorated as shipments go forward. Full payment is required before equipment start-up. Payment is not contingent upon Purchaser's receipt of payment from others.

VII. TAXES: No taxes are included.

VIII. TITLE AND FREIGHT: F.O.B. Factory, Freight Allowed to Jobsite.

IX. PAINT: The equipment will be shop painted per the manufacturers standard paint system.

X. SERVICE: 2 trips and 2 days of service for inspection, start-up and training on are included at no charge. For additional service, add \$750 per day plus expenses.

XI. EXCLUDED ITEMS: The following items are **not** included:
Installation, alignment, soleplates, templates, anchor bolts, standard tools, lubricants, gauges and any other items not specifically listed in this proposal.

XII. TERMS AND CONDITIONS: This proposal is quoted on the standard terms, conditions and warranty of the manufacturers and per the attached. Hudson Pump & Equipment assumes no liability for liquidated damages, consequential damages and/or removal and reinstallation charges.

XIII. SHIPPING DATE: 6-8 weeks for submittal preparation.
34-40 weeks for manufacture after approval, subject to prior sale.

XIV. TOTAL PRICE, FREIGHT INCLUDED\$ 3,149,615.00

XV. SIGNATURES

By Jim Murphy
(Signature)

Jim Murphy
(Name)

Account Manager
(Title)

Hudson Pump & Equipment
(Company)

(Date)

Accepted By _____

HUDSON PUMP & EQUIPMENT TERMS AND CONDITIONS

WARRANTY - Company warrants title to the product(s) and, except as noted with respect to items not of Company's manufacturer, also warrants the product(s) on date of shipment to Purchaser, to be of the kind and quality described herein, and free of defects in workmanship and material. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, AND CONSTITUTES THE ONLY WARRANTY OF COMPANY WITH RESPECT TO THE PRODUCT(S).

If within one year from date of initial operation, but not more than eighteen months from date of shipment by Company of any item of product(s), Purchaser discovers that such item was not as warranted above and promptly notifies Company in writing thereof, Company shall remedy such nonconformance by, at Company's option, adjustment or repair or replacement of the item and any affected part of the product(s). Purchaser shall assume all responsibility and expense for removal, reinstallation, and freight in connection with the foregoing remedies. The same obligations and conditions shall extend to replacement parts furnished by Company hereunder. Company shall have the right of disposal of parts replaced by it. Purchaser agrees to notify Company, in writing, of any apparent defects in design, material or workmanship, prior to performing any corrective action back chargeable to the Company. Purchaser shall provide a detailed estimate of the material, labor costs associated with proposed remedy for expeditious review and approval by the Company.

ANY SEPARATELY LISTED ITEM OF THE PRODUCT(S) WHICH IS NOT MANUFACTURED BY THE COMPANY IS NOT WARRANTED BY COMPANY and shall be covered only by the express warranty, if any, of the manufacturer thereof.

THIS STATES PURCHASER'S EXCLUSIVE REMEDY AGAINST COMPANY AND ITS SUPPLIERS RELATING TO THE PRODUCT(S) WHETHER IN CONTRACT OR IN TORT OR UNDER ANY OTHER LEGAL THEORY, AND WHETHER ARISING OUT OF WARRANTIES, REPRESENTATIONS, INSTRUCTIONS, INSTALLATIONS OR DEFECTS FROM ANY CAUSE. Company and its suppliers shall have no obligation as to any product which has been improperly stored or handled, or which has not been operated or maintained according to instructions in Company or supplier furnished manuals.

NUCLEAR - Purchaser represents and warrants that the product(s) covered by this contract shall not be used in or in connection with a nuclear facility or application.

NONCANCELLATION - Purchaser may not cancel or terminate for convenience, or direct suspension of manufacture, except on mutually acceptable terms.

DELAYS - If Company suffers delay in performance due to any cause beyond its control, including but not limited to act of God, war, act or failure to act of government, act or omission of Purchaser, fire flood, strike or labor troubles, sabotage, or delay in obtaining from others suitable services, materials, components, equipment or transportation, the time of performance shall be extended a period of time equal to the period of the delay and its consequences. Company will give to Purchaser notice in writing within a reasonable time after Company becomes aware of any such delay.

STORAGE - Any item of the product(s) on which manufacture or shipment is delayed by causes within Purchaser's control, or by causes which affect Purchaser's ability to receive the product(s), may be placed in storage by Company for Purchaser's account and risk.

TITLE AND INSURANCE - Title to the product(s) and risk of loss or damage shall pass to Purchaser at the f.o.b. point, except that a security interest in the product(s) and proceeds and any replacement shall remain in Company, regardless of mode of attachment to realty or other property, until the full price has been paid in cash. Purchaser agrees to do all acts necessary to perfect and maintain said security interest, and to protect Company's interest by adequately insuring the product(s) against loss or damage from any external cause with Company named as insured or co-insured.

LIMITATION OF LIABILITY - Neither Company nor its suppliers shall be liable, whether in contract or in tort or under any other legal theory, for loss of use, revenue or profit, or for cost of capital or of substitute use or performance, or for incidental, indirect, or special or consequential damages, or for any other loss or cost of similar type, or for claims by Purchaser for damages of Purchaser's customers. Likewise, Company shall not, under any circumstances, be liable for the fault, negligence, or wrongful acts of Purchaser or Purchaser's employees, or Purchaser's other contractors or suppliers.

IN NO EVENT SHALL COMPANY BE LIABLE IN EXCESS OF THE SALES PRICE OF THE PART(S) OR PRODUCT FOUND DEFECTIVE.

GENERAL - (a) Company will comply with all laws applicable to Company. Compliance with OSHA or similar federal, state or local laws during any operation or use of the product(s) is the sole responsibility of Purchaser. (b) The laws of the State of Florida shall govern the validity, interpretation and enforcement of any contract of which these provisions are a part, without giving effect to any rules governing the conflict of laws. (c) This document and any other documents specifically referred to as being a part hereof, constitute the entire contract on the subject matter, and it shall not be modified except in writing signed by both parties. Unless otherwise specified, any reference to Purchaser's order is for identification only. Assignment may be made only with written consent of both parties.

ACCEPTANCE - The determination of compliance with performance guarantees will be based on results of factory tests under controlled conditions with calibrated instruments and tested per standards of the Hydraulic Institute.

CONTROLLING PROVISIONS - These terms and conditions shall control with respect to any purchase order or sale of the Company's products. No waiver, alteration or modification of these terms and conditions whether on Purchaser's purchase order or otherwise shall be valid unless the waiver, alteration or modification is specifically accepted in writing and signed by an authorized representative of the Company.

Lakeland
Hudson Pump &
Equipment
A Division of Tencarva
Machinery Company
3524 Craftsman Blvd.
Lakeland, FL 33803
(863)665-7867
Fax(863)666-5649
Quoted By Roger Burna

Proposal No: LKRB25-03-11 01
Item Name: ITEM 001 (Base Offer)

March 11, 2025

MODEL: 3410 L SIZE: 8x10-17H/5V QTY: 6

Operating Conditions

SERVICE	
LIQUID	Water, Rated Temp. 72.0 deg F, SP.GR 1.000, Viscosity 1.000 cp, Rated/Max. suction pressure 0.0 / 0.0 psi g
CAPACITY Rated	4,250.0 gpm
HEAD	227.0 (ft)
Performance at 1785 RPM per HI 14.6 1U basis power	
PUBLISHED EFFY	82.0% (CDS)
RATED EFFY	80.0% with contract seal
DERATE EFFY	2.0% caused by: increase in clearances due to use of galling materials (316SS)
RATED POWER	306.1 hp (incl. Mech. seal drag 0.69). (Run out 319.5 hp)
NPSHR	20.2 ft
DISCH PRESSURE (R)	98.9 psi g (143.9 psi g @ Shut off) based on 0.0 psi g rated suction pressure
PERF. CURVE	3718-2 (Rotation CW viewed from coupling end)
SHUT OFF HEAD	332.5 ft
MIN. FLOW	Continuous Stable: 925.8 gpm Hydraulic: 925.8 gpm Thermal: N/A

Materials

CONSTRUCTION	316SS (NSF Certified)
CASING	316SS (max. casing pressure @ rated temperature: 250.0 psi g)
CASING WEAR RING	Nitronic 60
IMPELLER	316SS - Enclosed (16.2500 in rated, max=17.5000 in, min=13.5000 in)
IMPELLER WEAR RING	316SS
CASING GASKETS	Non asbestos
SHAFT MATERIAL	316SS
SHAFT TYPE	Straight bore
SHAFT SLEEVE	316SS
LUBRICATION	Regreasable bearings
BEARINGS	SKF 6211 (Inboard) / SKF 5309 A/C3 (Outboard)
COUPLING	Rexnord (Falk) - T10 1090T-S.F. 1.25
COUPLING PROPERTIES	1.25 Coupling service factor,AGMA Class 1 Clearance Fit
COUPLING GUARD	Carbon steel
BASEPLATE	Fabricated steel drip lip

Sealing Method

MECHANICAL SEAL Chesterton 155 1RCO-NSF (Carbon vs Silicon Carbide) - (Cartridge - Single)

Casing Connections

Standard casing taps: vent, priming, stuffing box (2), drain, suction & discharge gauge tap (1 each)

Flanges

150# flat face

Liquid End Features

1/4in 316SS casing vent valve

Frame Features

Labyrinth oil seals

Shaft guard (Carbon Steel)

Shaft guard - safety orange

Single extended shaft

Assembly and Testing

C of C, impeller balance

Casing - Non witnessed hydro test, components, test report required

Impeller balanced to ISO G6.3

Non witness performance test per Hydraulic Institute - (HI-PERF)

Performance curve approval prior to shipment (requires performance test)

Piping

CPI Plan 7311 - (NSF61) 316SS tubing, and 316SS compression fittings with integral 0.125" orifice.

Goulds' Choice Compression Fitting Manufacturer

Painting

Goulds Blue Epoxy primer (4 mils) - pump and baseplate

Goulds Blue epoxy top coat (4 mils) - pump and baseplate

Sandblast

Pump and base (top of bedplate) SSPC-SP10

Driver : Electric motor Manufacturer : Pump Mfg's Choice

FURNISHED BY	Pump Mfg	MOUNTED BY	Pump Mfg
RATING	350.0 hp (261.0 KW)	ENCLOSURE	TEFC - Inverter Duty
PHASE/FREQ/VOLTS	3/60 Hz/460	SPEED	1800 RPM
INSULATION/SF	F/1.00	FRAME	449T

Weights

TOTAL NET UNIT WEIGHT ** 4,102.0 lb

** Baseplate weight is not included in total unit weight

Program Version 1.76.0.0

Drawing Revision Limit

Drawings returned with status approved as noted or revise and re-submit will be corrected and resubmitted only once. Thereafter, additional comments or revisions to these drawings will incur a charge of \$250 per drawing.

This proposal reflects the intended scope from the customer specifications supplied at the time of quotation. Additional specifications, requirements and scope presented at time of award or during order execution outside the original bid scope request, is subject to a change order with a potential cost and lead-time impact. ITT reserves the right to present engineering charges for more than two revision cycles on submittal drawings, provided these two revision cycles cover the intent of the specifications. ITT requires customer to provide all drawing comments applicable to the specification within the first submission return.

Our offer does not include specific review and incorporation of any Statutory or Regulatory Requirements and the offer is limited to the requirements of the design specifications. Should any Statutory or Regulatory requirements need to be reviewed and incorporated then the Customer is responsible to identify those and provide copies for review and revision of our offer.

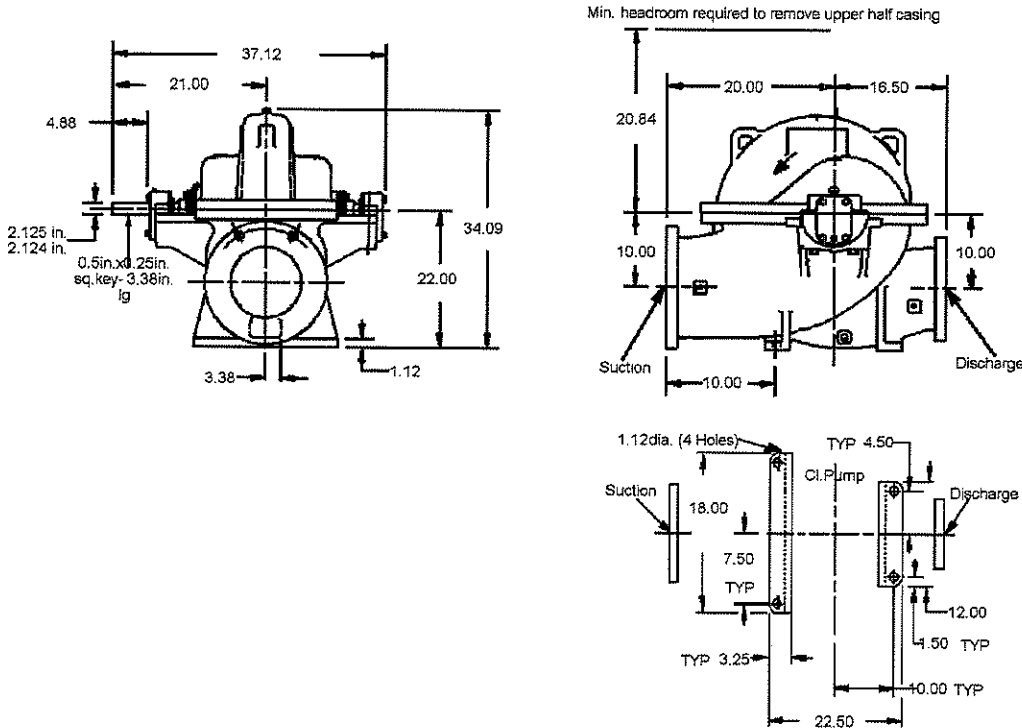
Equipment will be shipped 2 weeks after successful testing if written curve approval is not received by the factory.

Our quotation is offered in accordance with our comments and exceptions identified in our proposal. The pricing quoted herein will remain valid for 30 business days from the time of quotation. In the event that this validity should expire, please contact your ITT sales representative to confirm pricing validity prior to order placement.

Please note: Due to current market volatility caused by governmental assessment of tariffs and duties we reserve the right to add a tariff surcharge related up to the date of shipment of any product(s) ordered from ITT in the foreseeable future. Pricing will reflect changes on an ongoing basis.

[Click here](#) to download the pump Bulletin





Pump Specification

SUCT.FLANGE SIZE 10"	DRILLING ANSI 150 #	FACING FF	FINISH SMOOTH
DISCH.FLANGE SIZE 8"	DRILLING ANSI 150 #	FACING FF	FINISH SMOOTH
PUMP ROTATION (LOOKING AT PUMP FROM MOTOR)	CW		
TYPE OF LUBRICATION	REGREASABLE BEARINGS	COOLED	NO
TYPE OF STUFFING BOX	STANDARD	COOLED	NO
TYPE OF SEALING	MECHANICAL SEAL		

Weights and Measurements

PUMP	1,495.0 lb
MOTOR/CPLG	2,550.0/57.0 lb
BASEPLATE	1b
TOTAL	4,102.0 lb
GR.VOLUME w/BOX	N/A
GR.WEIGHT w/BOX	N/A

Motor Specification

MOTOR BY PUMP MFG	MOUNT BY PUMP MFG	MFG.	PUMP MFG'S CHOICE OR EQUAL
FRAME 449T	POWER 350.0 hp	RPM	1800
PHASE 3	FREQUENCY 60 HZ	VOLTS	460
INSULATION F	S.F.	1.00	
ENCLOSURE TEFC - INVERTER DUTY			

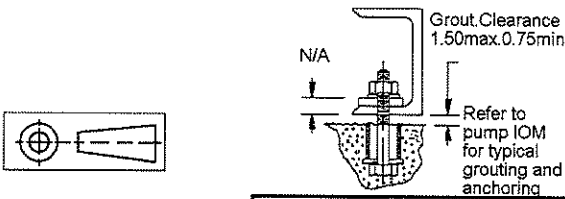
Notes and References

Auxiliary Specification

COUPLING BY PUMP MFG	CPLG TYPE	REXNORD (FALK) T10 1090T
CPL GUARD BY PUMP MFG	CPLG GUARD MATL	CARBON STEEL
BASEPLATE	FABRICATED STEEL DRIP LIP	
MECH.SEAL	CHESTERTON 155 1RCO-NSF (CARBON VS SILICON CARBIDE)	

FOR PUMP TAPPED OPENINGS REFER TO DWG.:
TLKRB25-03-11 01 / ITEM 001

Typical Anchor Bolt Installation



All dimensions are in inches.
Drawing is not to scale
Weights (lbs) are approximate

DRAWING IS FOR REFERENCE ONLY.
NOT CERTIFIED FOR CONSTRUCTION UNLESS SIGNED.

Customer: HUDSON PUMP
End User: Palm Beach County
Customer PO No:
Item/Equip. No: ITEM 001
Serial No:

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ITT Corp

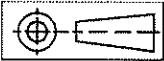
DRAWING NO LKRB25-03-11 01/ITEM 001



TAPPED OPENINGS Model 3410 L
Size 8x10-17H



TAPPED OPENINGS MODEL 3410 L 8x10-17H									
				FURNISHED					FURNISHED
NO.	SIZE	QTY.	PURPOSE	YES/NO	NO.	SIZE	QTY.	PURPOSE	YES/NO
TA	3/8	1	CASING VENT	YES	TH	1/4	2	OIL DRAIN	YES
TB	3/4	1	CASING PRIME CONN	YES	TJ	1/4	4	BEARING COOLING CONN	NO
TC	3/8	2	STUFF. BOX SEAL RING CONN	YES	TK	3/8	2	GLAND FLUSH CONN	NO
TD	3/4	2	STUFF.BOX OVERFLOW CONN	YES	TL	1/4	2	GLAND VENT CONN	NO
TE	3/8	1	DISCH. GAUGE CONNECTION	YES	TM	3/8	2	GLAND DRAIN CONN	NO
TF	3/8	1	SUCTION GAUGE CONNECTION	YES	TN	3/8	4	GLAND QUENCH CONN	NO
TG	3/4	2	CASING DRAIN CONN	YES					



DRAWING IS FOR REFERENCE ONLY.
NOT CERTIFIED FOR CONSTRUCTION UNLESS SIGNED.

Customer: HUDSON PUMP
End User: Palm Beach County
Customer PO No:
Item/Equip. No: ITEM 001
Serial No:

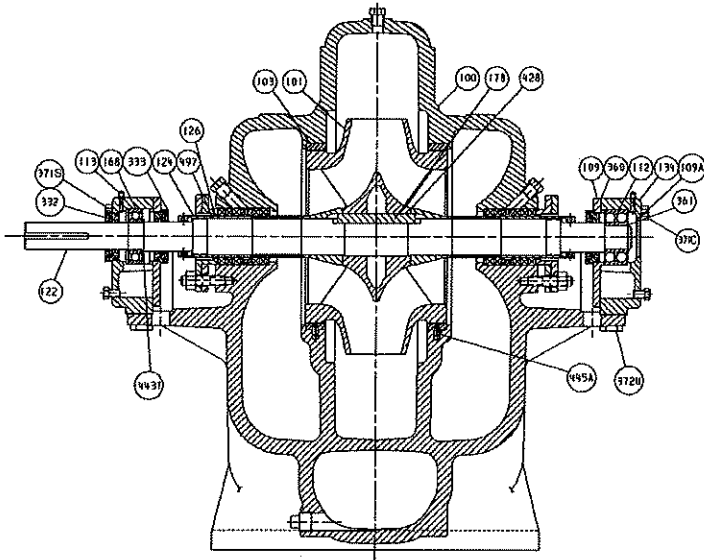
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ITT Corp

DRAWING NO LKRB25-03-11 01/ITEM 001

All dimensions are in inches.
Drawing is not to scale

FORM # ED0189 Program Version 1.76.0.0

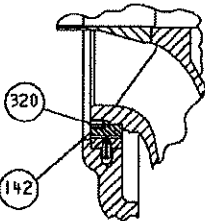
GREASE LUBRICATION



BILL OF MATERIAL

ITEM	QTY	PART NAME	MATERIAL	ASTM#
100	1 *	CASING	Austenitic Stainless Steel 316	A744 GRADE CF-8M
101	1 *	IMPELLER	Austenitic Stainless Steel 316	A744 GRADE CF-8M
103	2 *	RING, WEAR (CASING)	NITRONIC 60	A743 GRADE CF10SMnN
108	2 *	COVER, END	Gray Iron	A48 CLASS 25B
109A	1 *	PLUG, SOFT THST. HSG.		
112	1 *	BEARING, BALL		
113	2 *	FITTING, GRS		
113G	2 *	BUSHING, HEX		
122	1 *	SHAFT	STAINLESS STEEL	A276 TYPE 316 CONDITION A
124	2 *	NUT, SHAFT, SLV	NITRONIC 60	A276 UNS S21800
126	2 *	SLEEVE, SHAFT	Austenitic Stainless Steel 316	A744 GRADE CF-8M
134	2 *	HOUSING	Gray Iron	A48 CLASS 25B
142	2 *	RING, WRG IMPLR	Austenitic Stainless Steel 316	A744 GRADE CF-8M
168	1 *	BEARING, BALL		
178	1 *	KEY, IMPLR	303 Stainless Steel	A582/F594 TYPE 303
183	1 *	BASEPLATE	CARBON STEEL	A1008 OR A1011 TYPE A
193B	2 *	FITTING, GREASE		
222B	4 *	SET SCREW	STAINLESS STEEL	A276 TYPE 316 CONDITION A
232	1 *	MOTOR HUB		
233	1 *	PUMP HUB		
235C	1 *	GRID ASSY		
320	6 *	SET SCREWS IMPLR RINGS	STAINLESS STEEL	A276 TYPE 316 CONDITION A
332	1 *	OIL/LAB SEALS		
333	2 *	OIL/LAB SEAL		
351D	1 *	GASKET, CASE (DISCH)	Garlock Blue Guard 3000	
351S	1 *	GASKET, CASE, SUCT	Garlock Blue Guard 3000	
353	8 *	SCREW, HHC	STAINLESS STEEL	A276 TYPE 316 CONDITION A
354	8 *	WASHER, PLAIN	304 Stainless Steel	A276/F594 TYPE 304
360	2 *	GASKET, END COVER	VELLUMOID	D-1170 GRADE P3312B
361	1 *	RING, RTNG	CARBON STEEL	
371C	8 *	SCREW, HHC	Carbon Steel	A108 GRADE 1213
372U	4 *	SCREW, HHC	Carbon Steel	A108 GRADE 1213
383	2 *	MECHANICAL SEAL		
400	1 *	KEY, CPLG	CARBON STEEL	A108 GRADE 1018 OR 1020
408B	2 *	PLUG, PIPE (DRAIN)	Carbon Steel	A108 GRADE 1213
408N	2 *	PLUG, PIPE (SIGHT GLASS)	Carbon Steel	A108 GRADE 1213
428	2 *	GASKET, SLV	Garlock Blue Guard 3000	
443T	1 *	SPACER, BEARING	Carbon Steel	A108 GRADE 1213
445A	4 *	PIN, ROLL	STAINLESS STEEL	A276 TYPE 316 CONDITION A
449	1 *	VALVE, VENT		
492B	2 *	STUFF BOX FLUSH PLUG (TC)	STAINLESS STEEL	A276 TYPE 316 CONDITION A
497	2 *	O-RING SLV	Nitrile	
501	1 *	COUPLING GUARD, ASSEMBLY	CARBON STEEL	A1008 OR A1011 TYPE A
501F	1 *	SHAFT GUARD (NEW)	CARBON STEEL	A1008 OR A1011 TYPE A
501G	1 *	LOWER SHAFT GUARD	CARBON STEEL	A1008 OR A1011 TYPE A
843G	2 *	BUSHING, HEX (GREASE)		

IMPELLER W/ RINGS



* Recommended spare parts
Items not illustrated

Customer: HUDSON PUMP
End User: Palm Beach County
Customer PO No:
Item/Equip. No: ITEM 001
Serial No:

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REFER TO SEAL DRAWING NO. SD0384

FORM # ED0851

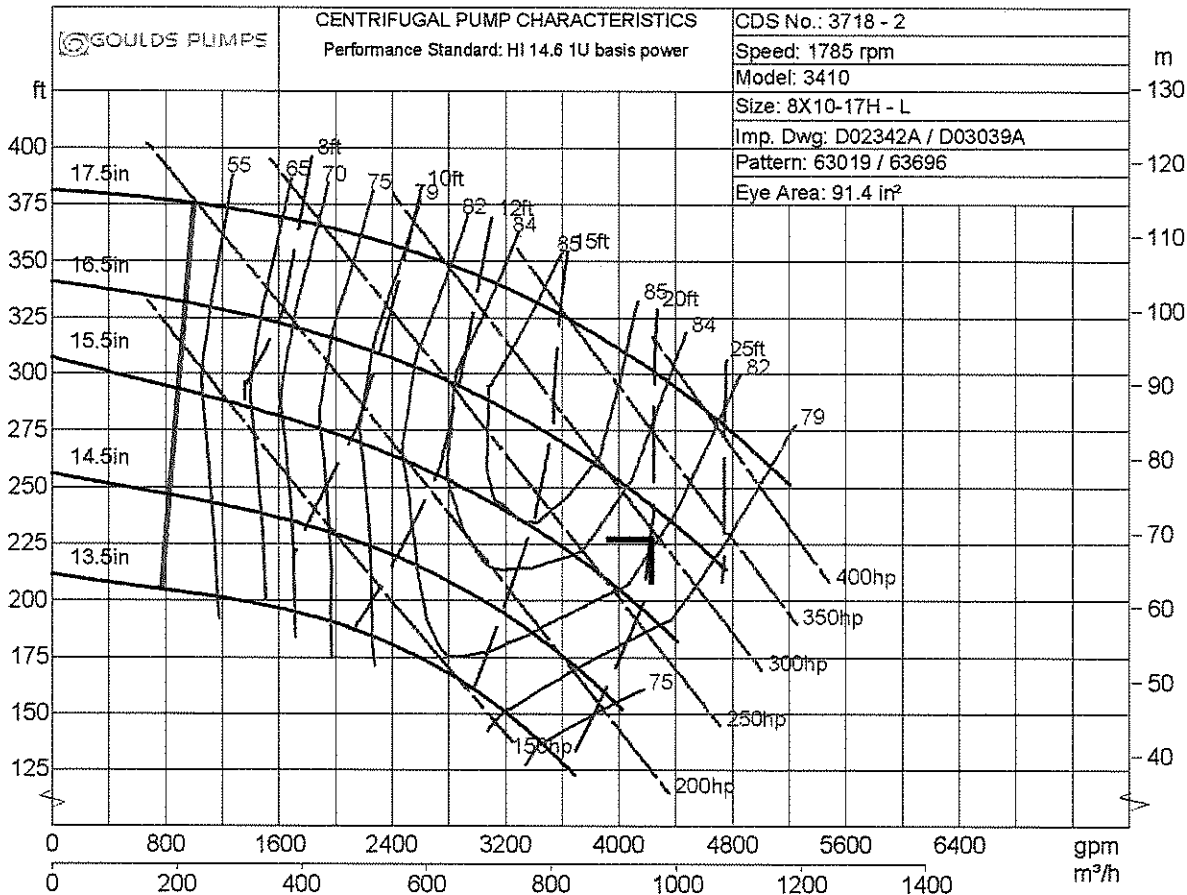
+855 Program Version 1.76.0.0

DRAWING NO LKRB25-03-11 01/ITEM 001

Model: 3410	Size: 8x10-17H	Group: L	60Hz	RPM: 1785	Stages: 1
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Customer:	HUDSON PUMP	Job/Inquiry No:	
End User:	Palm Beach County	Issued By:	Roger Burna
Customer PO No:		Quotation No:	LKRB25-03-11 01
Item/Equip. No:	ITEM 001 (Base Offer)	Certified By:	
Project No:		Date:	03/11/2025
Service:		Revision:	0
Operating Conditions		Pump Performance	
Liquid:	Water	Published Efficiency:	82.0 %
Temp.:	72.0 deg F	Rated Pump Efficiency:	80.0 % (*)
S.G./Visc.:	1.000/1.000 cp	Rated Total Power:	306.1 hp
Flow:	4,250.0 gpm	Non-Overloading Power:	319.5 hp
TDH:	227.0 ft	Imp. Dia. First 1 Stg(s):	16.2500 in
NPSHa:		NPSHr:	20.2 ft
Solid size:		Shut off Head:	332.5 ft
% Susp. Solids (by wtg):		Vapor Press:	
		Max. Solids Size:	1.0600 in

- Notes:**
1. Power and efficiency losses are not reflected on the curve below.
 2. Curve shown is at ambient temperature conditions.
- (*) 2.0% efficiency derate caused by increase in clearances due to use of galling materials (316SS).

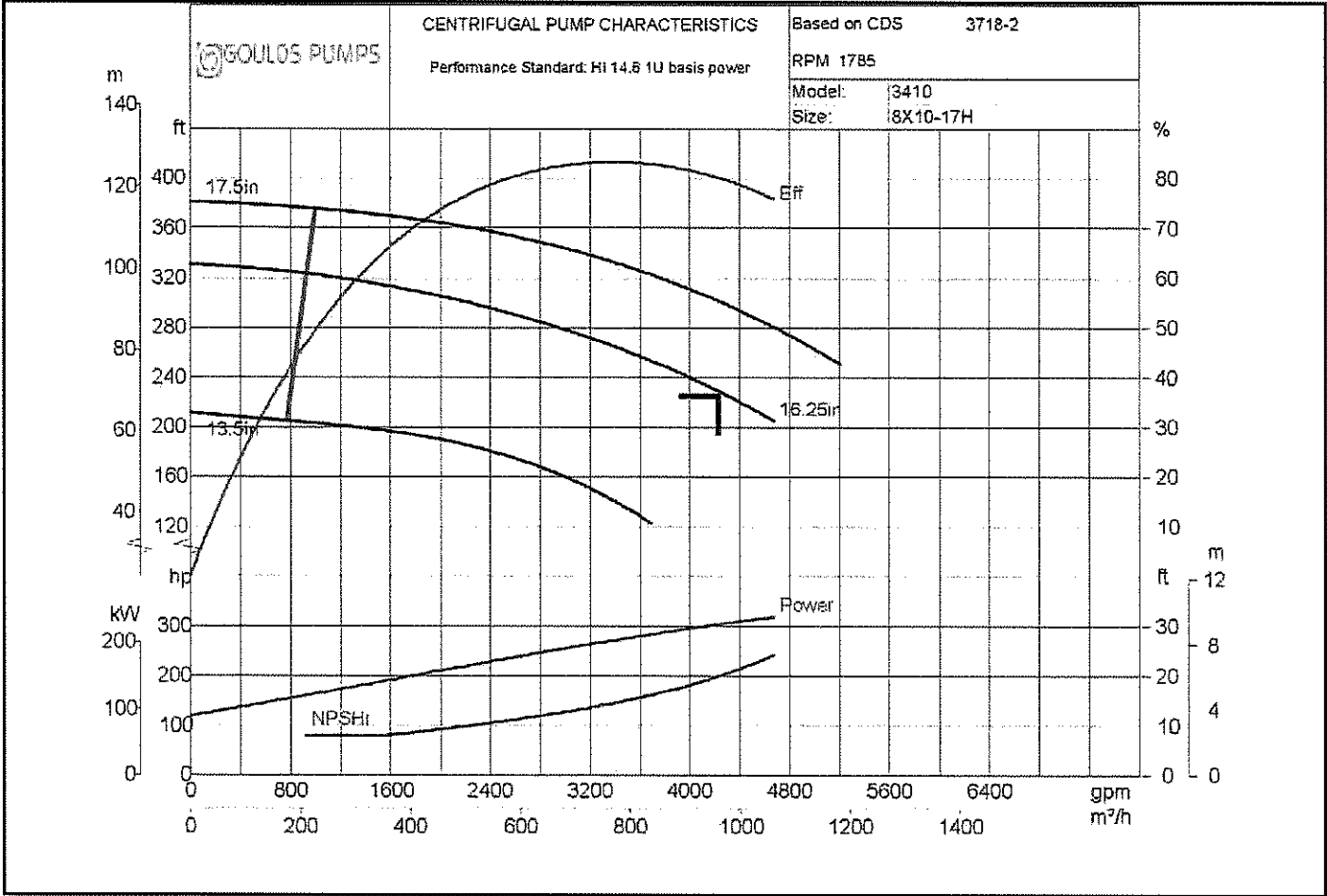


Model: 3410	Size: 8x10-17H	Group: L	60Hz	RPM: 1785	Stages: 1
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Customer:	HUDSON PUMP	Job/Inquiry No:			
End User:	Palm Beach County	Issued By:	Roger Burna		
Customer PO No:		Quotation No:	LKRB25-03-11 01		
Item/Equip. No:	ITEM 001 (Base Offer)	Certified By:			
Project No:		Date:	03/11/2025		
Service:		Revision:	0		
Operating Conditions		Pump Performance			
Liquid:	Water	Published Efficiency:	82.0 %	Suction Specific Speed:	9,662 gpm(US) ft
Temp.:	72.0 deg F	Rated Pump Efficiency:	80.0 % (*)	Min. Hydraulic Flow:	925.8 gpm
S.G./Visc.:	1.000/1.000 cp	Rated Total Power:	306.1 hp	Min. Thermal Flow:	N/A
Flow:	4,250.0 gpm	Non-Overloading Power:	319.5 hp		
TDH:	227.0 ft	Imp. Dia. First 1 Stg(s):	16.2500 in		
NPSHa:		NPSHr:	20.2 ft	Shut off Head:	332.5 ft
Solid size:		Max. Solids Size:	1.0600 in	% Susp. Solids (by wtg):	

Vapor Press:

Notes: 1. Curve shown is at ambient temperature conditions.
 (*) 2.0% efficiency derate caused by increase in clearances due to use of galling materials (316SS).



Viscosity corrections have been performed in accordance with HI 9.6.7-2015



YASKAWA

iQPUMP[®] AC DRIVES

INTELLIGENT PUMP CONTROL

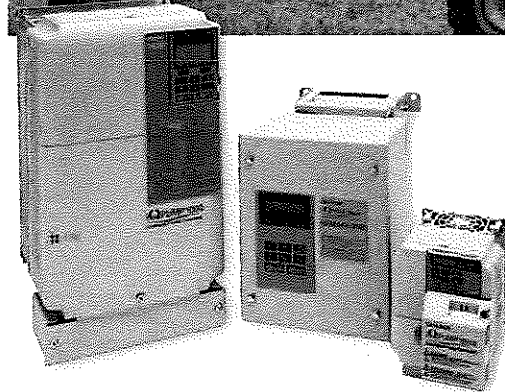
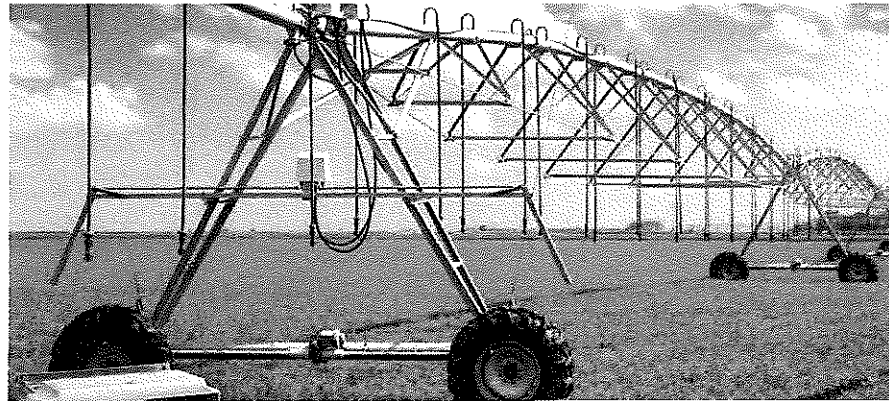
IT'S PERSONAL



INTELLIGENT PUMP DESIGN

Yaskawa's family of iQpump® drives offers a wide variety of package options and the most advanced comprehensive pump and motor protection in the industry, while still maintaining ease of setup and diagnostics designed for pump operators and service technicians. Our integrated pump specific software allows for a wide range of pumping applications from constant

pressure, flow, geothermal, multiple pump booster systems to wet well lift stations and many others. Designed with the user in mind, iQpump drives use intuitive pump related terminology, with simple process control selection of engineering units such as psi, gpm, feet, meters, degrees, inches of mercury, and many other units.



USER-IN-MIND DESIGN

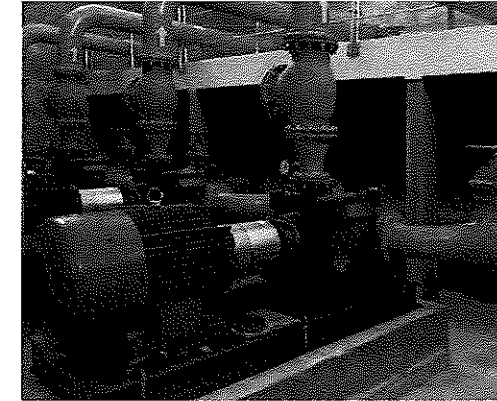
iQpump drives are designed with the user in mind. Our goal is to ensure that the pump is operating at the best efficiency point (BEP), saving energy and decreasing life-cycle costs.

iQPUMP 1000

0.75-175 HP, 200-240 VAC 3-Phase Input
1-1000 HP, 380-480 VAC 3-Phase Input
2-250 HP, 500-800 VAC 3-Phase Input

iQPUMP Micro

1-5 HP 200-230 VAC 1-Phase Input
1-25 HP 200-240 VAC 3-Phase Input
1-25 HP 380-480 VAC 3-Phase Input



iQpump1000 is your total pumping solution for whatever your system demands, while maintaining the simple pump terminology and programming customers have come to expect.

Yaskawa understands that many light commercial, industrial, agricultural and ground water well systems are looking for a more cost effective simplex and multiplex constant pressure pump control solution without sacrificing what they have come to enjoy from Yaskawa.

iQpump Micro offers many of the same comprehensive software features and control along with the same programming interface as iQpump1000, but in a package that saves cost.

BENEFITS

Proven Process Control and System Reliability

By matching pump output flow or pressure directly to the process requirements, applications can be fine tuned more rapidly by iQpump drives than by other control forms. Speed reduction results in reduced pump wear, particularly in bearings and seals.

Reduce Total System Cost

iQpump drives lower system cost by eliminating sensors, jockey pumps, and restriction valves, as well as reducing pressure tank sizing.

Energy Savings

iQpump drives reduce energy demand 20% to 50% by adjusting pump speed to match a lower flow/pressure.

Ease of Installation and Setup

iQpump drives use pump terminology on all setup parameters and monitors. Application presets apply most of the parameters for you. Also included is a "Pump Quick Setup" and "Modified Constants" menu.

Eliminate Complex Control Panels

iQpump drive installation eliminates many electro-mechanical controls. This reduces maintenance requirements.

Cooler Running Pump Motor

Soft starts eliminate high inrush current, dramatically increasing winding insulation life.

PC SOFTWARE TOOLS

DriveWizard® iQpump

Provides users a startup wizard, parameter management tools, drive status monitoring and trending.

Utility Harmonics Estimator

Estimation of harmonics contribution back to main power source.

Energy Savings Predictor

Analysis of energy savings with carbon footprint calculation.

Application Simulator Software

Allows for the user to program multiple pump applications and then simulate operation without the need for a drive.

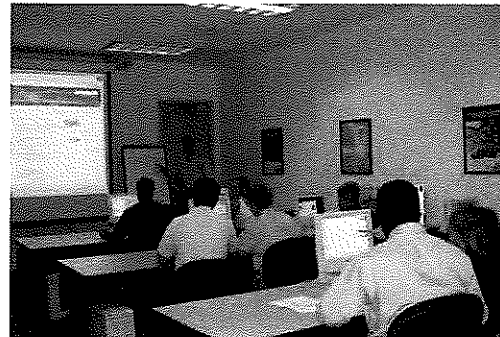
YASKAWA ADVANTAGE

THE DIFFERENCE THAT MATTERS

Yaskawa continually trains its people, partners and end-users. We design products to specifically prevent defects and qualify products through arduous testing procedures. This is all part of the way we differentiate ourselves from our competition.

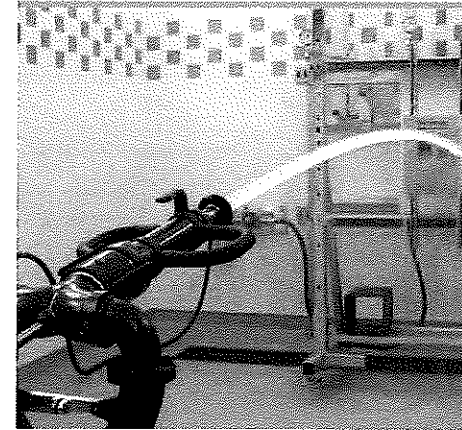
TECHNICAL TRAINING

Both standard and customized courses are available with hands-on activities and demonstrations. Instruction is offered at Yaskawa locations, as well as during travelling road shows. This is supplemented by live web classes and e-Learning modules / videos to provide the right level of training to fit your needs. Trainers are degreed engineers with extensive industry experience.



DEFECT PREVENTION

Yaskawa manufacturing processes are designed to prevent defects. Production associates have paperless on-line resources at their workstations, providing highly detailed and up-to-date work instructions for every process step. Practice mechanisms are available in the Kalzen center for them to improve their assembly skills. Complex assemblies are made simple with the use of animations and video. These processes enable us to approach our ultimate goal of zero-defect manufacturing.



PRODUCT QUALIFICATION AND TESTING

No other manufacturer puts its products through as many tests, or as arduous a testing process, as Yaskawa. All printed circuit boards are functionally tested while under power. All Yaskawa products are 100% tested under full current. Yaskawa conducts its own product qualification testing in its ISO certified test lab. Products are tested not only under normal spec conditions, but also for the following:

- Extreme Temperature/Humidity
- Vibration
- Package Drop
- Input Voltage Tolerance
- Noise Immunity
- Electrical Insulation Stress
- Under/Over Voltage Protection
- Momentary Power Loss
- Output Short Circuit Protection
- Overload Protection
- Ground Fault Protection
- Washdown Test
- Input/Output Phase Loss Test
- Power ON/OFF and Start-Up Iterations



ENVIRONMENTAL CONSIDERATIONS

Yaskawa maintains a corporate commitment to sustainability goals with an emphasis on the following environmental guidelines:

RoHS

Restriction of Hazardous Substances



Leadership In Energy and Environmental Design



EPA Program to Promote Superior Energy Efficiency

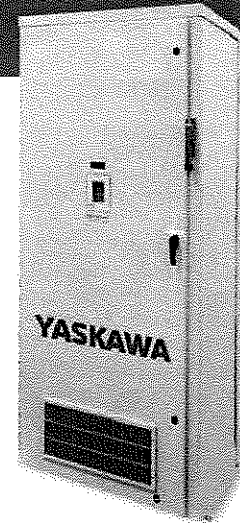


Energy Efficiency with Reduction of Carbon Footprint

IQPUMP DRIVE PACKAGES

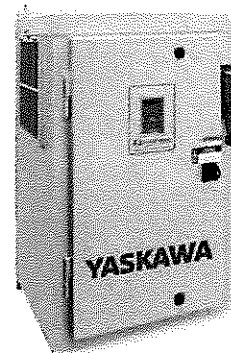
PACKAGES FOR ANY ENVIRONMENT

Yaskawa offers quick lead time on cost-effective IQpump drive standard packages. You can also get standard packages configured to meet your custom requirements.



UL TYPE 1 PACKAGES FOR IQPUMP1000

Yaskawa offers a standard UL Type 1 package for IQpump1000 drives and configured units. All units are UL rated, with the configured packages built to UL 508A (Industrial Control Panel) standards. Installation, setup, service and quick delivery have all been considered in these package designs.



UL TYPE 12 PACKAGES FOR IQPUMP1000

IQpump1000 configured packages are available with a UL Type 12 enclosure option. Fans, when required, are provided with Type 12 rated filters to maintain a Type 12 rating on the enclosure.

Standard construction features include:

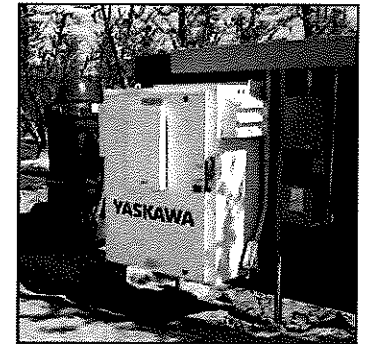
- 12-Gauge Steel
- Padlock Hasp
- Whole Door Gasket
- Integral ¼ Turn Door Latches
- Lifting Eyes
- Removable Air Filter from Outside of Cabinet

UL TYPE 3R PACKAGES FOR IQPUMP1000

IQpump1000 configured packages are also offered with a UL Type 3R enclosure option. This enclosure can be installed in direct sunlight without the need for additional cooling or sunshade protection.

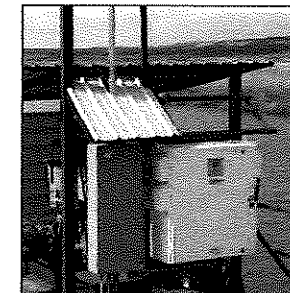
Standard construction features include:

- 12-Gauge Steel
- Padlock Hasp
- Whole Door Gasket
- Integral ¼ Turn Door Latches
- Brass Hinges
- UV/Type 3R Keypad Membrane
- Lifting Eyes
- Sun Reflective White Powder Coat Paint
- Stainless Steel Hardware



FULLY-ENGINEERED PACKAGES FOR IQPUMP1000

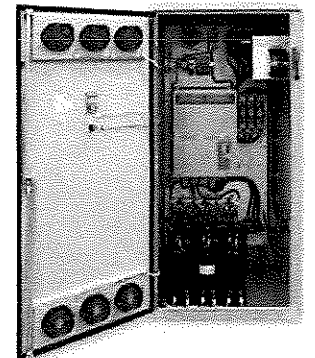
Both end users and OEM customers have come to rely on our custom product engineering capabilities. These products are based off of our standard configurations, but can evolve into a totally customized package.



Engineered packages include:

- Redundant Drive Packages
- 12- or 18-Pulse Configurations
- Soft Start Bypass Packages
- Integrated Trap Filter Packages
- Multiple Motor Configurations

Engineered packages can be provided as UL Type 1, 12 or 3R. They are supported with custom engineered drawings and documentation.



DESIGN CONTROLS

DESIGNED WITH THE USER IN MIND

iQpump drives use intuitive pump-related terminology with simple process control selection of engineering units such as PSI, GPM, feet, meters, degrees, inches of mercury and many other units.

REAL-TIME CLOCK

iQpump drives are supported with a real-time clock that will log the last 10 fault events with a date and time stamp to provide pump service technicians with real data for troubleshooting. This feature also enables the user to set calendar run and stop configurations, allowing the system to avoid high utility kW rates during peak operation hours.

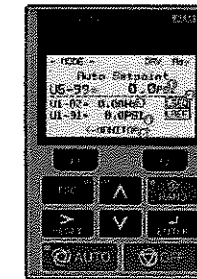
DATE &
TIME STAMP



PUMP SPECIFIC HAND-OFF-AUTO (H-O-A) OPERATOR

What makes iQpump drives the industry standard is the simplicity of the operator keypad messages that are formatted in pump terminology. This informs the user about the status of the system operation, along with alarms or specific pump algorithm functions that are being initiated.

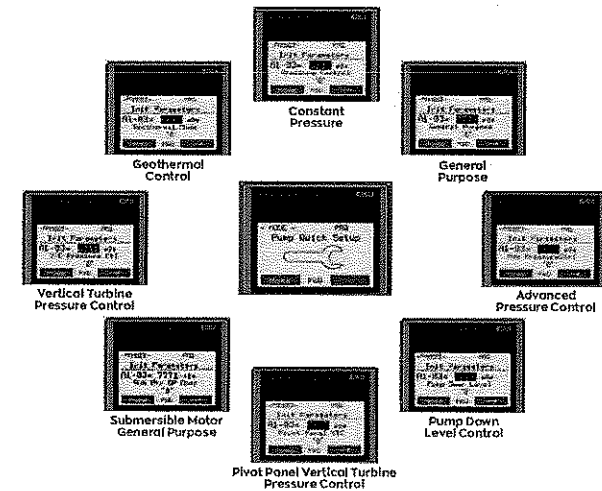
KEYPAD SCREEN



- 1. SYSTEM PRESSURE SETPOINT
- 2. CONTROL OPERATION STATUS
- 3. PUMP MOTOR OUTPUT FREQUENCY
- 4. TRANSDUCER FEEDBACK
- 5. DRIVE STATUS MONITORS

PRE-PROGRAMMED APPLICATION MACROS

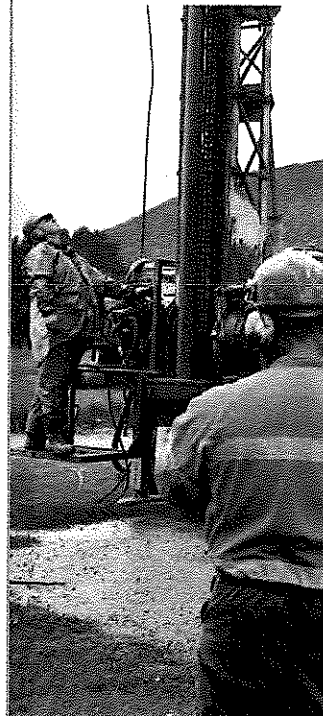
Pre-programmed application presets reduce start-up time significantly. Users enter simple motor and application information within the pump quick setup menu for each of the application macros.



APPLICATION MACROS

- Constant Pressure
- Pump Down Level Control
- General Purpose Made
- Submersible Motor, General Purpose Operator Control
- Geothermal Control*
- Vertical Turbine Pump Pressure Control (VTC)*
- Pivot Panel VTC*
- Advanced Constant Pressure*

*Not Supported with iQpump Micro

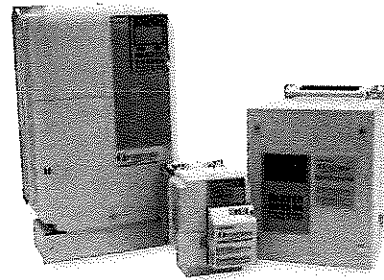


INVESTING MADE EASY

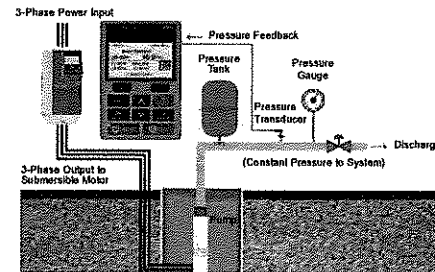
SIMPLEX PUMP FEATURES

The most common applications are simplex (single pump) constant pressure and pump down level control. For these applications, iQpump drives are an easy investment choice with preset application macros, dedicated pump control features and pump system protection.

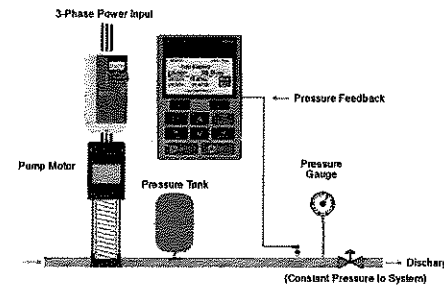
iQPUMP 1000 iQPUMP Micro



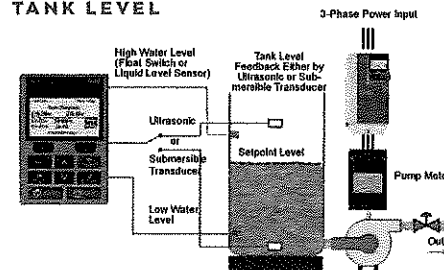
WELL PUMP



BOOSTER PUMP



TANK LEVEL



SLEEP MODE MINIMUM FLOW PROTECTION

Protects and shuts down the pump at low speeds or in low flow conditions.

NO FLOW / DEADHEAD PROTECTION

Detects changes in pressure and flow when the system has been closed off via mechanical valves or restrictions. If a system is not protected from this condition, the water within the pump can vaporize, building up excessive heat that can damage the pump and the discharge piping.

SUBMERSIBLE MOTOR THRUST BEARING CONTROL

Protects the bearings of submersible pump motors by ensuring proper start-up speeds and times.

AUTOMATIC SYSTEM RESTART

Programmable timers allow iQpump drives to automatically restart the system in Auto Mode for faults relating to brown outs, loss of power and pump specific faults.

LOSS OF PRIME (LOP) / PUMP DRY-RUN PROTECTION

Loss of prime protection is a feature protecting the pump and motor from damage caused by running the pump without water. If a pump were to lose prime and continue to operate without water moving through the pump, the pump would develop heat which would eventually damage the pump seal, motor, pipe manifold and related components.

LOW- AND HIGH-PRESSURE FEEDBACK DETECTION

iQpump drives continuously monitor the system feedback device to provide a warning alarm or fault based on the programmed level.

IMPELLER ANTI-JAM AUTOMATIC CONTROL

Provides a method for the iQpump drive to detect high current and attempt to expel corrosion or solids which are impeding the pump impeller. The system will perform a quick reversal attempt to dislodge a jam.

POWER LOSS UTILITY START DELAY TIMER

Used in conjunction with "Automatic Restart", a programmable timer will delay starting to allow for multiple pumps to sequence start on loss of power. This function ensures that the power system is not stressed when utility power has returned and the pump system is automatically restarted.

SLEEP BOOST

Intended for use with a pressure tank, the iQpump drive boosts the set pressure prior to shutdown, extending the pump's sleep time, reducing cycling and saving energy.

PRE-CHARGE CONTROL (CONTROLLED PIPE FILL)

This programmable feature eliminates water hammer and extends system life by gradually filling a pipeline before normal full pressure and flow operation. Pump motor speed can be controlled with a system timer, level or pressure control device to indicate when normal operation may begin.

CONSTANT PRESSURE WITH WELL DRAW DOWN CONTROL*

This function allows the iQpump drive to control constant pressure when there is adequate water in the well, while monitoring a second down hole transducer for water level. If the water level drops below user settings, the iQpump drive reduces pump speed to maximize well output. The system will return automatically to normal operation when well water is recharged to an adequate level.

SECONDARY TRANSDUCER BACKUP*

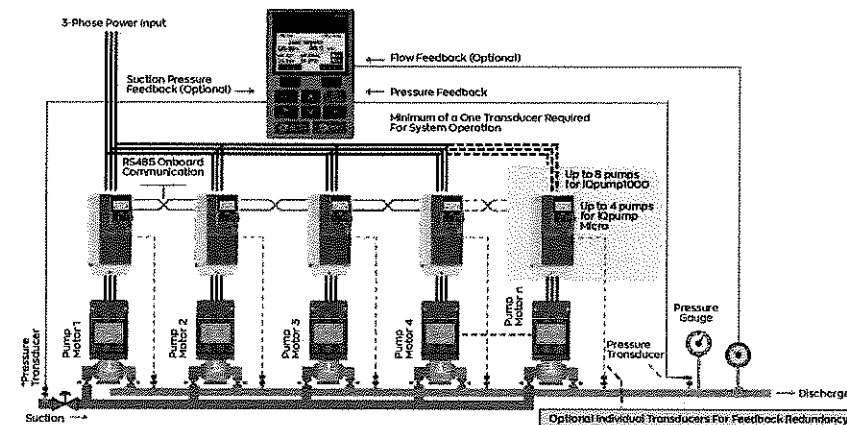
This option used for Simplex control allows for a secondary backup transducer to be automatically used if the main transducer has failed. The keypad text message will alert what feedback transducer is being used.

* Not Supported with iQpump Micro

WHEN ULTIMATE PUMP CONTROL FLEXIBILITY MATTERS

DRIVE-TO-DRIVE MULTIPLEXING FEATURES

iQpump drives have enhanced software not available in standard variable frequency drives, allowing for multiple drives to operate as a coordinated system. This allows pump system engineers the ability to add more modular pump systems together (duplex, triplex, etc.) to meet customer specifications and minimize cost by eliminating external control via PLCs and HMIs.



APPLICATION NOTES:

- Automatically alternates all pumps with a system programmable timer to provide even mechanical pump wear.
- Configurable transducer feedback settings to provide redundant backup, if failure occurs.
- With the use of an optional suction transducer, all iQpump drives will monitor inlet pressure with programmable PSI settings for faults, alarms and station controlled shutdown.
- Digital switch inputs for Low Suction / Low City Pressure / Low Water in Break Tank can be configured with a selectable keypad message to match application. With the use of an optional flow input, all iQpump drives can be configured to control staging and de-staging of lag pumps on GPM.

PUMP ALTERNATION

From duplex to quadplex systems, the pumps will be exercised evenly to ensure that they receive equal run times, thereby increasing the life cycle of the pumps and motors.

PUMP AND DRIVE REDUNDANCY

If a drive or pump falls during operation, or is taken out of service for maintenance, the remaining pumps continue to operate. The other drives on the network will automatically recognize when the drive and pump are restored to active healthy status and put them back into the pump rotation.

TRANSDUCER FEEDBACK REDUNDANCY

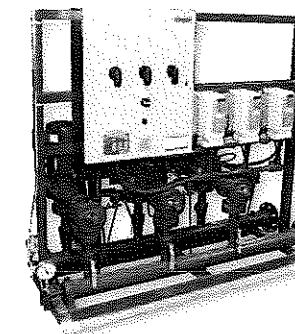
Systems can be configured using multiple transducers on the discharge, allowing for redundancy. A minimum of one transducer is required for system operation.

JOCKEY PUMP CONTROL

Pressure booster systems that use a Jockey pump to maintain minimum water flow with larger secondary booster pumps for peak demand require the Jockey pump to always be defined as the lead pump. The larger booster pumps will alternate based on time or run cycle for even pump wear.

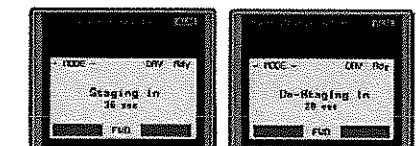
LAG PUMP LEAD SPEED FOLLOWER MODE

When enabled, all lag iQpump drives will follow the main output speed (Hz or RPM) of the lead iQpump drives, thereby allowing all lead and lag pumps to run at the same speed for better system efficiency.



PUMP STAGE AND DE-STAGE

System dynamics and pump curves will determine the best method of pump staging and de-staging. The user can select a variety of methods such as: pump output speed, pressure differential to setpoint, combination of output speed and differential pressure and flow rate using an in-line flow meter.

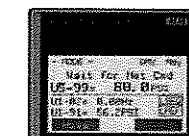


Typical multiplex keypad messages

The iQpump LCD keypad (recommended option on iQpump Micro) will provide the user with all the necessary system status operation and pump fault messages to ensure that service operators can efficiently monitor and diagnose any condition.



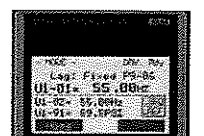
iQpump drive is In Off Mode (stopped) and has not been given an Auto Run command. Drive is taken out of the running queue.



iQpump drive is In Auto Mode and waiting for a run command from the network.



iQpump drive is In Auto Mode and is the Lead pump.

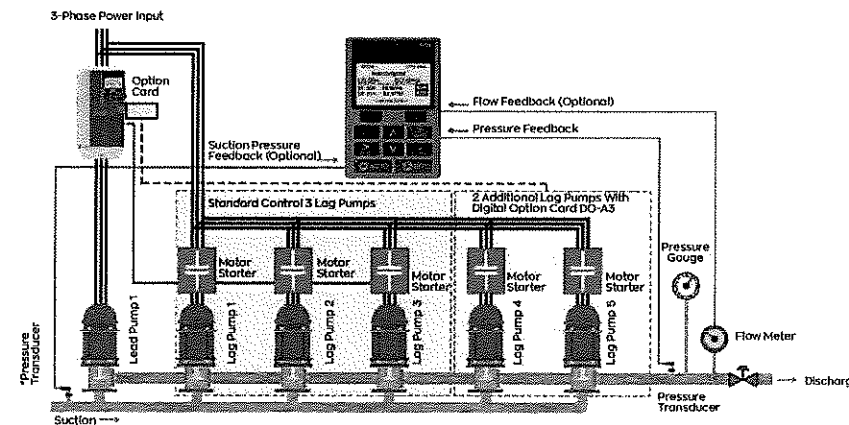


iQpump drive is In Auto Mode and when a new Lead pump is staged, the Lag pump will be locked at a fixed speed.

ENABLING MULTIPLE LARGE VERTICAL TURBINE PUMPS

CONSTANT SPEED LAG PUMP MULTIPLEXING

Many agricultural farms use multiple large vertical turbine pumps to provide pressurized water to large pivot irrigation systems. Applying a VFD to each of the booster pumps on these systems may not be practical. However, an iQpump drive, using its on-board digital outputs, can control up to 5 lag pump starters from a single VFD to maintain pressure by staging and de-staging the lag pumps.



APPLICATION NOTES:

- Automatically starts and stops up to 5 Lag pumps based on the system demand, and will automatically stage and de-stage the booster pumps.
- Alternation of lag pumps to provide even wear.
- Allows a single lag pump to be selected during Pre-Charge (Pipe Fill) to reduce fill rate time.
- For large water consumers, acre-feet can be selected for water accumulation units.
- When the discharge pressure exceeds a high level setting, all running lag pumps will be quickly de-staged to prevent unsafe high pressure conditions.
- When using Pre-Charge, Lag Pump Staging and De-Staging functions, the drive's keypad will provide a message of time remaining before pre-charge is finished and/or time remaining before lag pumps are to stage and de-stage.

INLET SUCTION CONTROL

When installed with an inlet suction transducer, the iQpump drive monitors suction pressure drop to a programmed pressure setpoint. It seamlessly switches over to control suction pressure, so the system runs efficiently. If the inlet pressure returns to the suction pressure setpoint, the iQpump drive will switch back to controlling outlet pressure. A suction pressure alarm/fault detection is available if the suction pressure drops below the Low Suction Pressure Detection Level for more than the Low Suction Pressure Detection Time.

SPEED REDUCTION "GO TO SPEED" AFTER LAG PUMP STAGING

Forces the lead iQpump drive, when in VTC mode, to operate at a lower fixed speed for a specified amount of time whenever a lag pump is staged on. This dampens the shock loading of a lag pump starting across the line to the system.

SETPOINT BOOST AFTER DE-STAGING

Automatically boosts the auto setpoint pressure to a new specified incremental amount for a programmable time whenever a pump is de-staged. This allows the lead iQpump drive, when in VTC mode, to accelerate more quickly to lessen the pressure drop on the system of a lag pump that is being de-staged.

LOW FLOW AND HIGH FLOW (GPM) PROTECTION

iQpump drives continuously monitor the system flow signal feedback to provide a warning alarm or fault based on the programmed level.

FLOW METER DATA LOGGING

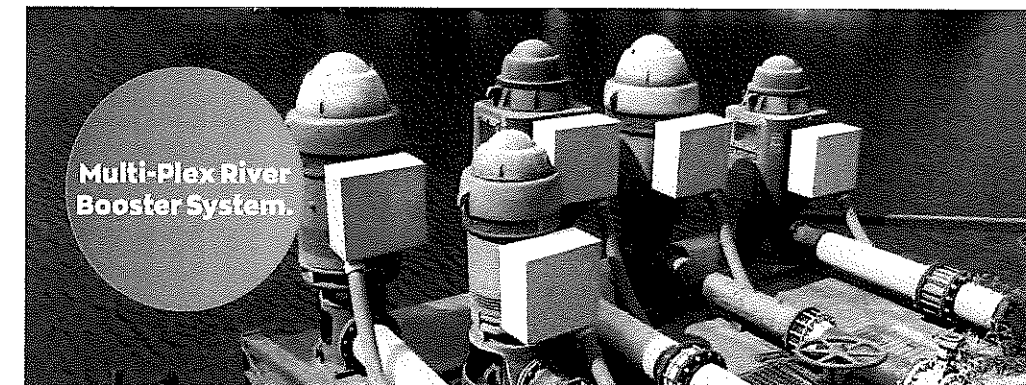
Through a secondary analog or pulse train input, a flow sensor can be connected inline with the pump system back to the iQpump drive to read and accumulate total system flow to report to authorities. The system can be configured to detect "No Flow" and switch to "Sleep" on low demand.

HARD CURRENT LIMIT

As the pump impeller wears over time, it changes the efficiency of the pump. In order to maintain a constant pressure or flow, the pump speed will increase, resulting in greater motor current. This can cause the drive to trip on nuisance motor overload (OL).

BACK SPIN TIMER

After "Stop" or "Hand" command, the iQpump drive will not restart until the timer expires, allowing the water column to flow back down the well.



SINGLE PHASE

MAKING THE MOST OF
SINGLE-PHASE

Single-phase motor control is limited and challenging. Yaskawa makes the complicated simple, combining the latest in power conversion technology with our straightforward iQpump drives.

Yaskawa's industry leading Single Phase Converter (SPC) cleanly converts single-phase AC power to DC power for Yaskawa variable frequency drives. The SPC marries Yaskawa reliability and drive technology with motor control solutions for businesses in remote areas.

The SPC eliminates the need to oversize variable frequency drives for single-phase applications while reducing distortion to less than 10% THD. With lower input harmonics and near unity power factor, the SPC also eliminates the need to significantly oversize transformers in single-phase applications, reducing overall installation costs.

SIMPLE, EFFICIENT PHASE CONVERSION

EASY TO INSTALL

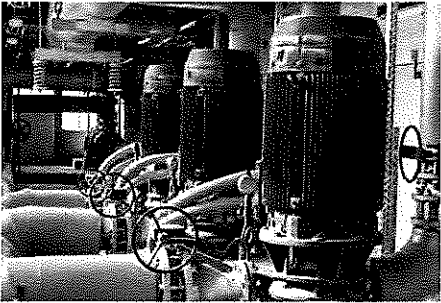
2 wires in - 3 wires out!

Type-3R Enclosure

Item	Specifications
Power Range	230 VAC: 20-60 HP 480 VAC: 30-125 HP
Input Voltage	230-240 VAC, Single-Phase 480-480 VAC, Single-Phase

SYSTEM ADVANTAGES

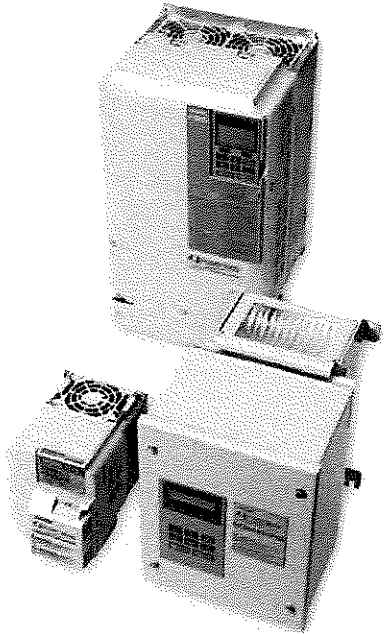
- Less than 10% THD reduces installation costs
- Eliminates the need for drive oversizing
- Three-phase motors are more efficient and less expensive than single-phase motors
- No rotating parts needed for phase conversion
- UL listed



PUMP FAULT AND ALARMS

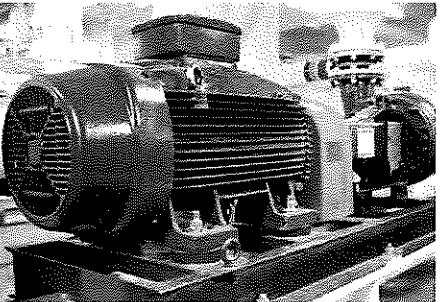
iQpump drives provide a comprehensive set of pump related alarms and faults. Faults are displayed on the keypad in clear text to eliminate confusion (the following is just a sample):

- Over Cycling
- Set Point Not Met
- Transducer Feedback Lost (Broken Pipe Detection)
- No Flow
- Over Torque
- Low and High Feedback Detection
- Pumping Over Cycle Protection
- Loss of Prime/Dry Run
- Pump Cavitation Protection



IQPUMP DRIVE PROTECTION

- Over / Under Voltage
- Short Circuit
- Input Phase Loss
- Over Temperature
- Phase Imbalance
- Heatsink Fan Failure



MOTOR PROTECTION

- Output Phase Loss
- Motor Over Temperature
- Hard Current Limit
- Ground Fault
- Broken Shaft
- Motor Overload
- Minimum Speed

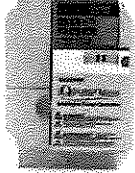
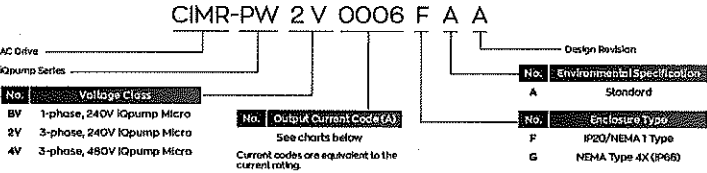
HARDWARE COMPARISON

Features	iQpump1000	iQpump Micro
Voltage / HP Range	1 - 175 HP 200 - 240 V 3-Phase	1 - 5 HP 200 - 240 V 1-Phase
	1 - 500 HP 380 - 480 V 3-Phase	1 - 25 HP 200 - 240 V 3-Phase
	2 - 250 HP 500 - 600 V 3-Phase	1 - 25 HP 380 - 480 V 3-Phase
Real Time Clock	Standard (Mounted on Drive)	With Optional Remote H-O-A Operator Installed
H-O-A Operator	Standard (Mounted on Drive)	Option (Externally Mounted)
Transducer Power Supply	24 V @ 150 mA	24 V @ 30 mA
Analog Inputs	Qty 3 - Programmable 0-10 VDC or 4-20 mA	Qty 1 - Non-Programmable 0-10 VDC Qty 1 - Programmable 0-10 VDC or 4-20 mA
Analog Outputs	Qty 2 - Programmable 0-10 VDC or 4-20 mA	Qty 1 - Programmable 0-10 VDC
Digital Inputs	8 Programmable	7 Programmable
	Qty 1 - Form C Fault Relay (Non-Programmable)	Qty 1 - Form C Fault Relay Programmable
Digital Outputs	Qty 1 - Form C Programmable Relay	Qty 2 - Programmable Photo-Couplers
	Qty 2 - Form A Programmable Relay	
Pulse Input	Standard	Not Used
Expansion I/O Adapters	2 Additional Programmable Analog Outputs 2 Additional Programmable Digital Outputs	Not Available
Standard Communications	RS-485/422	RS-485/422
Communications Network Options	EtherNet/IP	DeviceNet
	Modbus TCP/IP	MetaSys
	PROFIBUS-DP	Apogee
	PROFINET	BACnet LonWorks

SOFTWARE COMPARISON

Features	iQpump1000	iQpump Micro
Pump Control Configurations (P1-01 Group):		
Simplex	✓	✓
Drive to Drive Multiplexing	Up to 8 Pumps	Up to 4 Pumps
Simplex with Constant Speed Lag Multiplexing (VTC Mode)	✓	X
Pre-Programmed Application Macros (A1-03 Group):		
Constant Pressure	✓	✓
Pump Down Constant Level	✓	✓
General Purpose Mode - External Run and Speed Reference	✓	✓
Submersible Motor General Purpose Mode Using Digital Operator	✓	X
Geothermal Mode	✓	X
VTC (Vertical Turbine) Pressure Control with Lag Pump Multiplexing	✓	X
Advanced Pressure Control	✓	X
Pivot Panel Run VTC (Vertical Turbine) Pressure Control	✓	X
Pump Specific Software Features:		
Selectable Engineering System Units	✓	✓
Sleep Mode / Minimum Flow	✓	✓
Start Level / Drawdown	✓	✓
Hand Mode Control Operations	✓	✓
Minimum Pump Speed	✓	✓
Transducer feedback Scaling	✓	✓
No Flow / Deadhead Protection	✓	✓
Submersible Thrust Bearing Control	✓	✓
Automatic Fault Restarts for Drive and Pump Protection	✓	✓
Sleep Boost	✓	✓
Low and High Feedback Detection	✓	✓
Low and High Water Float Inputs	✓	✓
Pump Over Cycle Protection	✓	✓
Impeller Anti-Jam Protection	✓	✓
Loss of Prime (LOP) / Well Dry Run	✓	✓
Automatic Power Loss Utility Start Delay	✓	✓
Broken Pipe Protection	✓	✓
Transducer Feedback Loss	✓	✓
Transducer Feedback Loss with Programmable GOTO speeds	✓	✓
Pre-Charge / Controlled Pipe Fill	✓	✓
Hard Current Limit	✓	✓
Over Torque Detection	✓	✓
Pump Back Spin Timer	✓	✓
Single Phase Loss Speed Foldback Protection	✓	✓
Multiplex Drive to Drive Pump Setup and Adjustments	✓	✓
Pulse Input for Flow Meter Control and Water Usage Data Logging	✓	X
Pump De-Scale / De-Ragging	✓	X
Measuring Water Well Drawdown via transducer with Constant Discharge Pressure	✓	X
Inlet Suction Pressure Control via Transducer Feedback	✓	X
Real Time Clock Sequence Drive On/Off Run Timers	✓	X
Secondary Transducer Input for Redundancy in Simplex and Multiplex Mode	✓	X
	✓ = Supported	X = Not Supported

iQPUMP Micro MODEL SPECIFICATIONS



240V - DEDICATED SINGLE-PHASE MODELS

Model Number	Dedicated Single-Phase, 240 V		Dimensions (in.)					
	Max Capacity (HP)	Rated Current (A)	NEMA 1 (CIMR-PWBV-XXXX-FAA)			NEMA-4X (CIMR-PWBV-XXXX-GAA)		
CIMR-PWBV0006	1	6.0	Height	Width	Depth	Height	Width	Depth
CIMR-PWBV0010	3	9.5	5.89	4.25	6.47	10.04	7.36	9.25
CIMR-PWBV0012	3	12.0	6.02	5.51	7.48	10.04	7.36	9.25
CIMR-PWBV0018	5	17.5	6.02	6.69	8.35	Not Available		

240V - THREE-PHASE MODELS

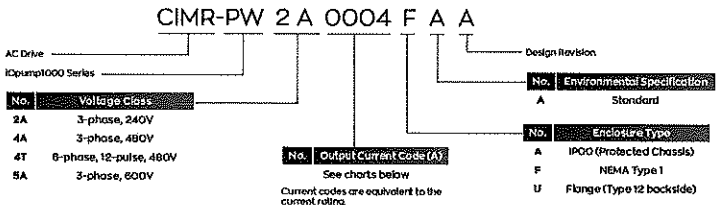
Model Number	3-Phase, 240V Ratings		Single-Phase, 240 V De-Rate (NEMA 1, 4X) - (Continuous Full Power)				Dimensions (in.)					
			Without Additional Input Reactor		With Additional Input Reactor		NEMA 1 (CIMR-PWBV-XXXX-FAA)			NEMA-4X (CIMR-PWBV-XXXX-GAA)		
	Max Capacity (HP)	Rated Current (A)	Max Capacity (HP)	Rated Current (A)	Max Capacity (HP)	Rated Current (A)	Height	Width	Depth	Height	Width	Depth
CIMR-PW2V0006	1.5	6.0	1	4.9	1	4.9	5.89	2.66	6.10	8.74	6.38	7.28
CIMR-PW2V0010	2/3	9.8	1.5	6.8	1.5	6.8	5.89	4.25	6.14	10.04	7.36	9.25
CIMR-PW2V0012	3	12.0	2	7.5	2	7.5	5.89	4.25	6.47	10.04	7.36	9.25
CIMR-PW2V0020	5	19.6	2	9.7	3	12.3	6.02	5.51	6.69	10.04	7.36	9.25
CIMR-PW2V0030	7.5/10	30	2	7.5	3	15.2	10.0	5.51	6.57	16.54	11.42	12.01
CIMR-PW2V0040	10	40	5	18.7	5	21.0	10.0	5.51	6.57	16.54	11.42	12.01
CIMR-PW2V0056	15/20	56	5	25.4	7.5	27.7	11.42	7.09	7.48	16.54	11.42	12.01
CIMR-PW2V0069	25	69	7.5	25.8	10	30.8	14.09	8.66	8.42	18.31	11.42	12.01

480V - THREE-PHASE MODELS

Model Number	3-Phase, 480 V Ratings		Single-Phase, 480 V De-Rate (NEMA 1, 4X) - (Continuous Full Power)				Dimensions (in.)					
			Without Additional Input Reactor		With Additional Input Reactor		NEMA 1			NEMA-4X		
	Max Capacity (HP)	Rated Current (A)	Max Capacity (HP)	Rated Current (A)	Max Capacity (HP)	Rated Current (A)	Height	Width	Depth	Height	Width	Depth
CIMR-PW4V0002	1	2.1	0.5	1.3	0.5	1.7	5.89	4.25	4.98	8.74	6.38	7.28
CIMR-PW4V0004	2	4.1	1	2.4	1	2.8	5.89	4.25	6.47	8.74	6.38	7.28
CIMR-PW4V0006	3	5.4	1.5	3.5	2	3.9	5.89	4.25	7.12	10.04	7.36	9.25
CIMR-PW4V0007	3	6.9	1.5	3.5	2	5.4	5.89	4.25	7.12	10.04	7.36	9.25
CIMR-PW4V0009	5	8.8	2	5.1	3	5.5	5.89	4.25	7.12	10.04	7.36	9.25
CIMR-PW4V0011	7.5	11.1	3	5.5	3	7.5	6.02	5.51	6.69	10.04	7.36	9.25
CIMR-PW4V0018	10	17.5	2	4.5	5	8.7	10.0	5.51	6.57	16.54	11.42	12.01
CIMR-PW4V0023	15	23	3	5.5	5	10.5	10.0	5.51	6.57	16.54	11.42	12.01
CIMR-PW4V0031	20	31	3	7.9	7.5	13.5	11.42	7.09	6.69	16.54	11.42	12.01
CIMR-PW4V0038	25	38	5	11.3	10	16.1	11.42	7.09	7.48	16.54	11.42	12.01

Reference User Manual for proper drive sizing when using service factors larger than 1.15.
When two or more drives in the same voltage class have the same power rating any drive with that rating can be selected.

iQPUMP 1000 MODEL SPECIFICATIONS



240V - THREE-PHASE MODELS

Model Number	3-Phase Input, 240V		Single-Phase Input, 240V; 3-Phase Output, 208-230V Maximum 1.15 Service Factor		iQump1000 Dimensions			Weight (lb)	
	Rated Current (A)	Max Capacity (HP)	Without Additional Input Reactor	With Additional Input Reactor	Height	Width	Depth	NEMA 1	Protected Chassis
CIMR-PW2A0004	3.5	3/4	1/3	1/2	12.06	5.51	5.79	7.3	--
CIMR-PW2A0006	6	1	3/4	3/4	12.06	5.51	5.79	7.3	--
CIMR-PW2A0008	8	2	1	1	12.06	5.51	5.79	7.5	--
CIMR-PW2A0010	9.8	3	1	1	12.06	5.51	5.79	7.5	--
CIMR-PW2A0012	12	3	1.5	2	12.06	5.51	5.79	7.5	--
CIMR-PW2A0018	17.5	5	2	3	12.06	5.51	6.46	8.2	--
CIMR-PW2A0021	21	7.5	2	3	12.06	5.51	6.46	8.2	--
CIMR-PW2A0030	30	10	3	3	12.06	5.51	6.57	9.3	--
CIMR-PW2A0040	40	15	3	5	12.06	5.51	6.57	9.3	--
CIMR-PW2A0056	56	20	7.5	7.5	13.38	7.09	7.36	13.0	--
CIMR-PW2A0069	69	25	7.5	10	15.47	8.66	7.76	20.1	--
CIMR-PW2A0081	81	30	10	15	15.47	8.66	7.76	22.0	--
CIMR-PW2A0110	110	40	10	10	21.37	10.00	10.16	50.7	46.2
CIMR-PW2A0138	138	50	15	15	24.52	10.98	10.16	61.7	55.0
CIMR-PW2A0169	169	60	20	20	30.08	12.95	11.14	90.2	81.4
CIMR-PW2A0211	211	75	25	25	30.08	12.95	11.14	92.4	83.6
CIMR-PW2A0250	250	100	30	30	37.80	17.95	12.99	191.6	167.8
CIMR-PW2A0312	312	125	40	40	37.80	17.95	12.99	191.6	176.4
CIMR-PW2A0360	360	150	50	50	45.98	19.84	13.78	233.7	216.1
CIMR-PW2A0415	415	175	60	60	45.98	19.84	13.78	233.7	218.3

Reference User Manual for proper drive sizing when using service factors larger than 1.15.
When two or more drives in the same voltage class have the same power rating any drive with that rating can be selected.

iQPUMP1000 MODEL SPECIFICATIONS

480V - THREE-PHASE MODELS

Model Number	3-Phase Input, 480 V		Single-Phase Input, 240 V; 3-Phase Output, 208-230 V Maximum 115 Service Factor		iQpump1000 Dimensions			Weight (lb)	
			Without Additional Input Reactor	With Additional Reactor					
	Rated Current (A)	Max Capacity (HP)	Max Capacity (HP)	Max Capacity (HP)	Height	Width	Depth	NEMA 1	Protected Chassis
CIMR-PW4A0002_AA	2.1	1	1/3	1/2	12.08	5.51	6.79	7.3	--
CIMR-PW4A0004_AA	4.1	2	3/4	1	12.08	5.51	5.79	7.3	--
CIMR-PW4A0005_AA	5.4	3	1	1.5	12.08	5.51	5.79	7.3	--
CIMR-PW4A0007_AA	6.9	4	1.5	2	12.08	5.51	6.46	8.2	--
CIMR-PW4A0009_AA	8.8	5	2	3	12.08	5.51	6.46	8.2	--
CIMR-PW4A0011_AA	11.1	7.5	2	3	12.08	5.51	6.46	8.2	--
CIMR-PW4A0018_AA	17.5	10	3	3	12.08	5.51	6.57	9.3	--
CIMR-PW4A0023_AA	23	15	3	5	12.08	5.51	6.57	9.3	--
CIMR-PW4A0031_AA	31	20	7.5	7.5	13.38	7.09	6.88	12.5	--
CIMR-PW4A0038_AA	38	25	7.5	10	13.38	7.09	7.36	13.0	--
CIMR-PW4A0044_AA	44	30	10	10	15.47	8.66	7.76	20.1	--
CIMR-PW4A0058_AA	58	40	15	15	18.65	10.37	10.16	50.6	50.6
CIMR-PW4A0072_AA	72	50	20	20	20.62	11.35	10.16	59.4	59.4
CIMR-PW4A0088_AA	88	60	20	20	25.16	13.32	10.27	85.8	79.2
CIMR-PW4A0103_AA	103	75	20	20	25.16	13.32	10.27	85.8	79.2
CIMR-PW4A0139_AA	139	100	40	40	30.08	12.95	11.14	99.0	90.2
CIMR-PW4A0165_AA	165	125	40	40	30.08	12.95	11.14	101	92.4
CIMR-PW4A0208_AA	208	150	50	50	37.80	17.95	12.99	191	174
CIMR-PW4A0250_AA	250	200	60	60	45.98	19.84	13.78	233	211
CIMR-PW4A0296_AA	296	250	60	75	45.98	19.84	13.78	246	224
CIMR-PW4A0362_AA	362	300	75	100	45.98	19.84	13.78	257	235
CIMR-PW4A0414_AA UUX000891 ¹⁾	414	350	125	125	48.3	20.29	14.69	292	275
CIMR-PW4A0515_AA UUX000862 ¹⁾	515	400	125	125	61.3	26.86	14.72	504	475
CIMR-PW4A0575_AA UUX000863 ¹⁾	675	500 - 550	150	150	61.3	26.86	14.72	515	486
CIMR-PW4A0930_AA	930	800 - 800	Consult Yaskawa Factory		80.4	50.2	14.73	1394	1195
CIMR-PW4A1200_AA	1200	900 - 1000	Consult Yaskawa Factory		80.4	50.2	14.73	1420	1221

Reference User Manual for proper drive sizing when using service factors larger than 1.15
When two or more drives in the same voltage class have the same power rating any drive with that rating can be selected

iQPUMP1000 MODEL SPECIFICATIONS

600V - THREE-PHASE MODELS

Model Number	3-Phase Input, 600 V		Single-Phase Input, 240 V; 3-Phase Output, 208-230 V Maximum 115 Service Factor		iQpump1000 Dimensions			Weight (lb)	
			Without Addi- tional Input Reactor	With Additional Reactor					
	Rated Current (A)	Max Capacity (HP)	Max Capacity (HP)	Max Capacity (HP)	Height	Width	Depth	NEMA 1	Protected Chassis
CIMR-PW6A0003_AA	2.7	1 & 2	1	1.5	12.08	5.51	5.79	7.3	--
CIMR-PW6A0004_AA	3.9	3	1.5	2	12.08	5.51	5.79	7.3	--
CIMR-PW6A0006_AA	6.1	5	2	3	12.08	5.51	6.46	8.2	--
CIMR-PW6A0008_AA	9	7.5	3	5	12.08	5.51	6.46	8.2	--
CIMR-PW6A0011_AA	11	10	2	3	12.08	5.51	6.57	9.3	--
CIMR-PW6A0017_AA	17.5	15	5	5	13.38	7.09	7.36	13.0	--
CIMR-PW6A0022_AA	22	20	5	7.5	13.38	7.09	7.36	13.0	--
CIMR-PW6A0027_AA	27	25	7.5	10	15.47	8.66	7.76	20.1	--
CIMR-PW6A0032_AA	32	30	7.5	10	15.47	8.66	7.76	20.1	--
CIMR-PW6A0041_AA	41	40	15	15	20.62	11.35	10.16	59.4	59.4
CIMR-PW6A0052_AA	52	50	15	15	20.62	11.35	10.16	59.4	59.4
CIMR-PW6A0062_AA	62	60	25	25	30.08	12.95	11.14	99.0	90.2
CIMR-PW6A0077_AA	77	75	30	30	30.08	12.95	11.14	99.0	90.2
CIMR-PW6A0099_AA	99	100	30	30	30.08	12.95	11.14	99.0	90.2
CIMR-PW6A0125_AA	125	125	50	50	37.80	17.95	12.99	191	174
CIMR-PW6A0145_AA	145	150	50	50	37.80	17.95	12.99	191	174
CIMR-PW6A0192_AA	192	200	75	75	45.98	19.84	13.78	233	235
CIMR-PW6A0242_AA	242	250	75	75	45.98	19.84	13.78	257	235

Reference User Manual for proper drive sizing when using service factors larger than 1.15
When two or more drives in the same voltage class have the same power rating any drive with that rating can be selected

YASKAWA.COM



Yaskawa is the leading global manufacturer of low and medium voltage variable frequency drives, servo systems, machine controllers and industrial robots. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.

YASKAWA

Yaskawa America, Inc. | Drives & Motion Division

1-800-YASKAWA | Email: info@yaskawa.com | yaskawa.com

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Howard Woodrow & Associates, Inc.

2903 Serenity Circle S
Fort Pierce, FL 34981
772-461-6227

Price Quote

DATE	QUOTE #
6/2/2025	6608

NAME/ ADDRESS
Globaltech, Inc. Attention: Marco Camero 6001 Broken Sound Pkwy NW, Ste 610 Boca Raton, FL 33487

TERMS	FOB	PROJECT
Net 30		400HP CPX 06-02-25

DESCRIPTION	QT	PER UNIT	TOTAL
Eaton Cutler-Hammer 18 Pulse VFD: 400HP, 460V, 477A with Features per Spec. Lead Time Approval Drawings:4-6 Weeks. Lead Time Build: 20-24 Weeks after Released	6	93,200.00	559,200.00T
Shipping & Handling: Prepay and Add. Estimated at \$1000.	6	1,000.00	6,000.00
1% Sales Tax Surcharge	6	50.00	300.00
		Subtotal	\$565,500.00
		Sales Tax (6.0%)	\$33,552.00
		TOTAL	\$599,052.00

FOB Factory.

#2 Solicitation

From: Nico Shaner
To: Sergine Francoeur
Subject: Fw: Waste water VFD
Date: Tuesday, June 17, 2025 12:43:37 PM
Attachments: [image009.png](#)
[image010.png](#)
[image011.png](#)
[image012.png](#)
[image013.png](#)
[image014.png](#)
[image015.png](#)
[image016.png](#)
[image017.png](#)

Vfds for system 9....

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From: RUIZ Jose <Jose.Ruiz@worldelectricsupply.com>
Sent: Thursday, May 29, 2025 4:21:33 PM
To: Nico Shaner <NShaner@globaltechdb.com>
Subject: RE: Waste water VFD

You don't often get email from jose.ruiz@worldelectricsupply.com. [Learn why this is important](#)

Nico,

I'm sorry to inform you, World Electric no longer distribute EATON/CUTLER HAMMER. Not sure if that is the only MANUFACTURER you are looking to use. Let me know if there is anything we can help you with.

Thank you,

Jose Ruiz

Inside Sales Representative II

Jose.Ruiz@worldelectricsupply.com

Mobile: 561-398-1014

6780 White Dr, W. Palm Bch., FL 33407

www.worldelectricsupply.com



If it's not in writing....It never happened!

From: Nico Shaner <NShaner@globaltechdb.com>
Sent: Thursday, May 29, 2025 2:40 PM
To: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>

Cc: ARANA Alex <Alex.Arana@worldelectricsupply.com>

Subject: RE: Waste water VFD

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

So....nothing?

From: Nico Shaner <NShaner@globaltechdb.com>

Sent: Thursday, March 20, 2025 3:31 PM

To: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>

Cc: ARANA Alex <Alex.Arana@worldelectricsupply.com>

Subject: Re: Waste water VFD

Possibly replacement

Wtp 9 and 3

Likely they are hsp

This is budgetary pricing

Get [Outlook for Android](#)

From: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>

Sent: Thursday, March 20, 2025 3:28:54 PM

To: Nico Shaner <NShaner@globaltechdb.com>

Cc: ARANA Alex <Alex.Arana@worldelectricsupply.com>

Subject: RE: Waste water VFD

Nico,

Good afternoon,

Please see below from eaton.

Are these replacements for existing on site? Any chance he has a schematic? If he does not, please have him let me know what plant they are for and the process they serve (HSP, TP, etc.). I can try my best to ballpark the controls from there.



Diego De Vito
Inside Sales Representative

☎ **P: 561-328-2020 M: 561-943-7222**
✉ diego.devito@worldelectricsupply.com
🌐 www.worldelectricsupply.com
📍 [6780 White Drive, West Palm Beach, FL](#)

From: Nico Shaner <NShaner@globaltechdb.com>
Sent: Wednesday, March 19, 2025 11:00 AM
To: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>
Cc: ARANA Alex <Alex.Arana@worldelectricsupply.com>
Subject: Re: Waste water VFD

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Here are some basic specs.

QTY = 2

Eaton CPX (18 Pulse) Series VFD: 600HP, 460V, 713A with Circuit Breaker, Transient Voltage Surge Suppressor (100KA per Phase), DV/DT Filter, Output Contactor, Standard Elapsed Time Meter, Speed Pot, HOA Switch, Power On/ Run/ Fault Indicator Lights, Push-To-Test Light Kit, and Ethernet/IP Communication mounted in a NEMA 1 Enclosure. Two Year Parts and Labor Warranty.

QTY = 6

Eaton CPX (18 Pulse) Series VFD: 350HP, 460V, 414A with Circuit Breaker, Transient Voltage Surge Suppressor (100KA per Phase), DV/DT Filter, Output Contactor, Standard Elapsed Time Meter, Speed Pot, HOA Switch, Power On/ Run/ Fault Indicator Lights, Push-To-Test Light Kit, and Ethernet/IP Communication mounted in a NEMA 1 Enclosure. Two Year Parts and Labor Warranty.

From: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>
Sent: Friday, March 14, 2025 2:01 PM

To: Nico Shaner <NShaner@globaltechdb.com>
Cc: ARANA Alex <Alex.Arana@worldelectricsupply.com>
Subject: RE: Waste water VFD

Good afternoon Nico,

I have CC our branch manage who is in charge of our waste water division,

Please feel free to send us the specs you are requiring.

He is gone for the day but will advise come Monday morning.

Thank you.



Diego De Vito
Inside Sales Representative

☎ P: 561-328-2020 M: 561-943-7222
✉ diego.devito@worldelectricsupply.com
🌐 www.worldelectricsupply.com
📍 6780 White Drive, West Palm Beach,
FL

From: Nico Shaner <NShaner@globaltechdb.com>
Sent: Friday, March 14, 2025 1:51 PM
To: DE VITO Diego <Diego.DeVito@worldelectricsupply.com>
Subject:

#3 Price Increase

Sales Quote
Q00540946



Bill-to Address
NICO SHANER
GLOBALTECH
901 YAMATO RD SUITE 220
BOCA RATON, FL 33487

Quoted To	Reference RFQ EATON ENCLOSED VFD'S	Terms CC	Valid to July 17, 2025
Document Date June 17, 2025	Salesperson Rich Bird	Email rbird@atechsales.com	Phone No.

Line No	ITEM	Description	QTY	Unit	Lead Time	Unit Price	Line Amount
1	NEWITEM	MI880404X5K1-0006	1	EA		1,059,561.18	1,059,561.18
BUDGETARY PRICE							
PROJECT TO INCLUDE (8) 450HP DRIVES							
PER ATTACHED							
THIS IS A BUDGETARY PRICE FOR THE COMPLETE PROJECT							
PRICE INCLUDES START-UP & 2-YR WARRANTY							
A ONE LINE DIAGRAM WILL BE REQUIRED WHEN PLACING ORDER							
Subtotal						1,059,561.18	
							8
Total Tax							0.00
Total \$						1,059,561.18	
							8

Lead times given in days are working days. Pricing and availability for all material is for quantities quoted and subject to prior sale.
Prices are subject to change without prior notice due to fluctuations in tariffs.

UNLESS OTHERWISE INDICATED ABOVE, THIS QUOTE: 1. Does NOT include certifications, testing documentation or software. 2. FOB is shipping point. 3. All returns must be authorized by Jo-Kell and are subject to restocking charges. 4. These commodities are subject to U.S. Export law and may be controlled under I.T.A.R. or E.A.R. It is the customer's responsibility to obtain a U.S. Government export license if the goods are exported outside of the United States. 5. Jo-Kell terms and conditions apply. <https://jokell.com/terms>



Jo-Kell Inc. is a WBENC certified Woman-Owned Small Business, EIN 54-104-1097, CAGE 5V049, UIED KNEFNMWXBK39, HII & EB SDI Certified

Detail Bill of Material

Project Name:	THE PALM BEACH WUD - DELRAY	Negotiation No:	M880404X5K1
General Order No:		Alternate No:	0006

Item No.	Qty	Product	Description
1		EESS SAT	***See Approval Drawings for Comments and Clarifications*** Start-up Contact Contractor Monushka J Estimated Start-up Date: A Coordination Study does not exist Catalog No U0210-104
	Qty	List of Materials	
	1	EESS Office: Miami, FL, quote as of 6/17/2025 7:23:56 PM	
	1	Jobsite: , West Palm, Florida 33020	
	1	Drive Time: 0.59 Hours	
	1	1 Test Equipment Setup Locations	
	1	Service Entrance Ground Fault / ARMS Testing	
	8	Drives - Enclosed	

Item No.	Qty	Product	Description
8		Drives - Enclosed	CPX18-Pulse Enclosed Drive, 500 HP (373 KW) Low Overload (IL) Rated, 480VAC Three Phase Input, NEMA 1 Enclosure Catalog No CPX50014AK2KOL1PEPGCQ+
Catalog No	Qty	List of Materials	
Isolation Fuses	1	Isolation Fuses	
Engineered Options	1	Engineered Options	
Circuit Breaker	1	Circuit Breaker	
—>100KAIC	1	—>100KAIC Rated	
Rated SPD (40KA per phase)	1	SPD (40KA per phase)	
Output Contactor	1	Output Contactor	
DV/DT Filter	1	DV/DT Filter	
Speed Pot	1	22mm Speed Pot - M22 Series	
HOA Switch	1	22mm HOA Switch - M22 Series	
Light Kit	1	22mm Power On (White), Drive Run (Green), & Drive Fault (Red) Push-To-Test Light Kit - M22 Series	
Elapsed Time Meter	1	Elapsed Time Meter	
CA Drawings by Plant	1	CA Drawings by Plant	
Ethernet/IP	1	Exp Comm - Ethernet/IP	
	1	Special: use the TVSS KIT 100 KA	

Eaton Selling Policy 25-000 applies.

If Eaton and the buyer entity listed on this purchase order have a separate executed written agreement for the products/services herein, then that agreement applies. Otherwise, Eaton's Selling Policy 25000 (<https://www.eaton.com/ca/en-gb/support/terms-conditions.html>) controls and supersedes all prior correspondence or communications between Eaton and the buyer, and any additional or different terms proposed by the buyer are rejected.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.



Detail Bill of Material

Project Name:	THE PALM BEACH WUD - DELRAY	Negotiation No:	M880404X5K1
General Order No:		Alternate No:	0006

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

Eaton Site Acceptance Testing Services

Notes

Comments and Clarifications

The information on this document is created by Eaton. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.

The information on this document is created by Eaton. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY		DATE	Eaton	
	Monushka J Sicar		6/17/2025		
	APPROVED BY		DATE	JOB NAME	
				THE PALM BEACH WUD - DELRAY	
				DESIGNATION	
	VERSION		TYPE		DRAWING TYPE
	1.0.0.0		EESS		Customer Appr.
NEG-ALT Number	REVISION		DWG SIZE	G.O.	ITEM
MI880404X5K1-0006			A		SHEET
					1 of 1

Eaton's Site Acceptance Testing Services

Eaton's Engineering Services provides the expertise needed to keep your power system safe, efficient, reliable, and up to date. Our extensive range of expertise helps businesses make the most of their existing equipment by optimizing performance and extending the lifespan. Our electrical services engineers and technicians diagnose problems, identify ways to improve performance and transform concepts into flexible, practical solutions that can improve productivity and use of capital. With more than 1500 highly trained professionals in 60 engineering service locations throughout the U.S. and Canada, Eaton's Engineering Services has a complete local, national, and international capability, to provide a full range of electrical, civil and mechanical equipment services.

Qualifications and Experience

Eaton is committed to providing the highest quality services, while providing advanced product-based solutions. Our team are experts in site acceptance testing for Eaton and third-party equipment. On a new construction project, or modification to an existing electrical system, the verification that a system is performing in accordance with the design professional's plans and specifications is one of the most important functions performed.

Scope of Work

Eaton will provide the necessary field service personnel, tools, materials, and approved test equipment to perform the scope of work as described in the attached Bill of Material.

Testing Clarifications

1. Standard factory warranty coverage is extended by 12 months, on Eaton manufactured equipment, when site acceptance testing is performed by Eaton's Electrical Engineering Services & Systems (EESS).
2. All testing will be performed by Eaton's Electrical Engineering Services & Systems (EESS) per Eaton's standard testing guidelines unless otherwise specified in Bill of Material.
3. If NETA testing is specified, and provided by Eaton, Eaton takes exception to NETA certification and membership or Nationally Recognized Testing Laboratory (NRTLs) requirements. Eaton field personnel are certified to test power distribution equipment per IEEE, NEMA, NFPA and NETA standards by the National Institute for Certification in Engineering Technologies (NICET) Electrical Power Testing Certification Program. This program provides an independent verification of the capabilities, knowledge, and experience of our field personnel for electrical testing. The Electrical Power Testing certification program is for technicians who test equipment used in the production, transmission, and distribution of electrical power. These technicians are engaged in inspection, testing, and periodic maintenance of electrical power equipment, and evaluation of such equipment for acceptance for service, continued serviceability, or required maintenance.
4. Testing will be completed on the specific electrical equipment, whereas, if not clearly identified, circuit breakers below 200 amperes and transformers below 75kVA are not tested.
5. All test results will be evaluated in accordance with manufacturer's published data where available.
6. No "Optional" NETA tests are included.
7. Customer to provide settings and relay logic configuration files for protective devices. Note: Eaton can provide an adder for the required power system studies and input/output logic.
8. If Eaton has quoted cable testing in the BOM, cable tests are performed with the cables disconnected from their normal position.
9. If Eaton has quoted cable testing in the BOM the customer should provide a safety watch at the opposite end of the cables to be tested.
10. If Eaton has quoted cable testing in the BOM the ends of the cables to be tested should NOT be taped up so that the ends are easily accessible.

GO/NEG-Alt-Date: MI880404X5K1-0006-6/17/2025		Job Name: THE PALM BEACH WUD - DELRAY
Item Number:	Catalog Number: U0210-104	Designation:

- 11. All liquid filled transformers listed in the BOM will have oil samples tested per the following: The DGA test is tested per ASTM D-3612 and the GQ oil test is tested per the following: Moisture content (ASTM D-1533b), Interfacial Tension (ASTM D-971), Acid Number (ASTM D-974), Color Number & Visual Exam (ASTM D-1500, 1524), Dielectric Breakdown (ASTM D-877), & Specific Gravity (ASTM D-1298).
- 12. No load bank testing is included with the testing of any battery systems listed in the Eaton BOM.

General Clarifications

Method of procedure (MOP) development or meeting time not outlined in the scope of work will be treated as an extra.

Customer will be responsible for the following:

- 1. Provide a stable 1P, 480V, 125A source of power capable of supplying power to Eaton’s Primary Current Injection test set. If not, generator rental fees will apply and will be billed separately from the dollar amount listed herein.
- 2. Identify site contact for this project.
- 3. Work together with Eaton on scheduling work.
- 4. Customer will supply a complete set of electrical plans, including the plant single-line diagram, specifications, and any pertinent change orders that may impact the acceptance testing of the equipment to Eaton before commencement of work.
- 5. Provide plant personnel to work with Eaton test engineers as required during the planning phase and during the on-site testing phase.
- 6. Customer shall supply a suitable and stable source of power for operation of test and motorized equipment at each test site when normal power is removed or authorize Eaton to obtain a source of auxiliary power, Eaton shall specify requirements. Any non-standard generators rentals will result in a price adder to this proposal.
- 7. Provide manufacturers maintenance manuals and tools (normally supplied with equipment) to Eaton for equipment prior to outage.
- 8. All equipment shall be set in place and assembled prior to arrival on site for acceptance testing. Coordination on site during equipment installation and assembly can be provided as a separate order at the quoted hourly rates.
- 9. The customer will coordinate all outages and perform all switching to de-energize and isolate equipment to be tested.
- 10. The customer shall make all equipment available upon arrival of Eaton personnel, including removal from service to permit continuous progression of work. Delay time in making equipment available will be treated as an extra.
- 11. Provide crane and operator if required.
- 12. Provide a secure storage area for any removed equipment, test equipment, and materials.

Eaton Responsibilities

- 1. Provide a project manager as a single point of contact that will work directly with customer personnel to create and manage the schedule and outages.
- 2. Organize team meetings and establish safety procedures in accordance with your plant protocol.
- 3. Survey project including electrical equipment contained within our scope of services.
- 4. Meet as a project team to finalize schedule and establish staging areas for plant approval.
- 5. Shall furnish test engineers, tools, equipment, materials, supplies and transportation.
- 6. Provide and install safety locks, as required.

GO/NEG-Alt-Date: M1880404X5K1-0006-6/17/2025		Job Name: THE PALM BEACH WUD - DELRAY
Item Number:	Catalog Number: U0210-104	Designation:

- 7. Perform voltage test and install necessary circuit / equipment safety grounds to assure safe working conditions.
- 8. Make necessary minor adjustments required to bring equipment to satisfactory operating condition.
- 9. Obtain authorization in advance before performing any extra work.
- 10. Upon completion of work:
 - 10.1. Remove safety grounds installed by Eaton.
 - 10.2. Remove safety locks installed by Eaton.
- 11. Provide detailed written reports on the condition of the equipment.

Terms

Any order arising out of this offer will be governed by the conditions contained in Eaton Selling Policy 25-000 for US work, or 25-000C for Canada, unless both parties mutually agree to other terms and conditions in writing. This offer is valid for 30 days unless otherwise extended, modified, or withdrawn, in writing, by Eaton. A 3% surcharge will be added to all credit card transactions except where prohibited.

This proposal, as presented, is not subject to prevailing wage requirements. In the event that the project necessitates the payment of prevailing wages by the contractor and all subcontractors, including Eaton, for work performed under this proposal, Eaton reserves the right to amend the pricing to ensure compliance with prevailing wage statutes.

Safety Training of Eaton Field Personnel

Safety standards are in place to meet or exceed NFPA 70E requirements, and appropriate Personal Protective Equipment (PPE) has been issued. Customer required safety training for Eaton personnel, beyond the time specified in the Bill of Material will be charged at the standard rates.

Safety Clarifications

- 1. Eaton will not perform work activities in situations where the proper level of PPE is not practical. At no time will work be performed when the arc-flash exposure levels are above 40 cal/cm2.
- 2. To establish an electrically safe work condition, the customer is to provide an up-to-date site electrical one-line diagram(s) for lockout/tagout purposes showing all sources of power.
- 3. For electrical outages requiring utility isolation, the customer and utility shall coordinate lockout/tagout requirements with Eaton in a written plan of execution.
- 4. Customer shall be responsible to perform all switching. Any requirement of Eaton for perform switching will require customer signature and a minimum of two EESS personnel present. Additional charges will apply.

On Site Customer Training Time

- 1. All training listed in the Eaton BOM is provided during normal business hours (8AM – 5PM) at straight time prices. Any training which occurs during overtime hours will result in a price adder.
- 2. Customer to provide classroom for onsite training if listed in the Eaton BOM. Customer to make equipment available for onsite training.
- 3. Requests for video recording of Eaton provided training will require signature of Eaton release form and privacy waiver by end customer. All video recording will be done by Eaton.

Communication Packages

Configuration and testing of communication systems is not included in site acceptance testing.

Lifts

The customer will need to supply any type of lift to mobilize equipment on site and the customer will supply personnel lifting equipment, if required. Any additional lifts supplied by Eaton will result in a price adder.

GO/NEG-Alt-Date: MI880404X5K1-0006-6/17/2025		Job Name: THE PALM BEACH WUD - DELRAY
Item Number:	Catalog Number: U0210-104	Designation:

Extended Warranty

Standard factory warranty coverage is extended by 12 months, on Eaton manufactured equipment, when site acceptance testing is performed by Eaton's Electrical Engineering Services & Systems (EESS)

Overtime

If straight time work is required to be performed on an overtime basis, Customer will be billed the difference between the straight time and overtime rate. Saturday overtime rate applies to all time worked in excess of eight (8) hours / day Monday through Friday and all time worked on Saturday. Sunday / Holiday overtime rate applies to all time worked on Sundays and Holidays.

Delay Time

If Eaton arrives onsite to perform scheduled work and the work is cancelled, Eaton will charge Customer four (4) hours minimum per person, plus travel expenses if no replacement work can be scheduled. If sufficient notice (72 hours) is given to Eaton when canceling scheduled work, no extra charge will apply. Weather delays may be considered as an extra, if required. Weather delays may increase the estimated completion time.

Outside Personnel

If Eaton is required to bring additional personnel in from outside the area the following travel policy will be in effect: Travel will be based on portal-to-portal time not to exceed 8 hours at the quoted hourly rate per hour plus travel expenses at cost plus 25 percent.

Standby & Reconnect Fees

Applicable fees for outage related costs including standby and reconnect services are not included.



Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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February 2025

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GO/NEG-Alt-Date: MI880404X5K1-0006-6/17/2025		Job Name: THE PALM BEACH WUD - DELRAY
Item Number:	Catalog Number: U0210-104	Designation:

Eaton's Electrical Engineering Services & Systems

Warranty extension terms Site acceptance testing (SAT) and study requirements Supplement to Selling Policy 25-000

Coverage requirements

When both the following services are completed, the factory warranty is extended by twelve (12) months at no additional charge.

1. Site acceptance testing (SAT) as specified and provided by Eaton.
2. A short-circuit and protective device coordination study performed by Eaton or a third-party under the supervision of a licensed professional engineer.

Limitations/exceptions/clarifications

Warranty coverage provided in accordance with Eaton Selling Policy 25-000

Twelve-month extension increases the warranty term as follows:

- Twenty-four (24) months from the date of installation of the product, or thirty (30) months from the date of shipment of the product, whichever occurs first

Excludes the following products covered under separate factory-supported warranty programs:

- Low-voltage drives: Coverage as detailed in drives sales bulletin TD040003EN
- Power quality products: e.g., uninterruptible power supplies (UPSs), surge protection devices (SPDs), power distribution units (PDUs), power factor correction, UPS batteries, etc.
- Power monitoring software: e.g., Intelligent Power Manager (IPM), Visual Power Manager (VPM), Eaton Foreseer®
- E-House enclosures and sourced non-Eaton transformers; extended warranties can be provided for a fee
- Eaton Omaha Power Center electro-centers



Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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February 2025

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GO/NEG-Alt-Date: M1880404X5K1-0006-6/17/2025		Job Name: THE PALM BEACH WUD - DELRAY
Item Number:	Catalog Number: U0210-104	Designation:

General Information: Drives - Enclosed

Drive Schedule

Item	Qty	Equipment ID	Catalog Number	Output HP	Output Amps	Output Voltage
	8		CPX50014AK2KOL 500 1PEPGCQ+		590	480VAC Three Phase

Item Information

Design Series:	Enclosed 18-Pulse SVX Drive
Output Power:	500 HP (373 KW)
Rated Output Current (Amps):	590
Input Voltage:	480VAC Three Phase
Input Frequency	45 to 66 Hz
Output Voltage:	480VAC Three Phase
Output Frequency	0 to 320 Hz
Branch Protection:	Circuit Breaker
Short Circuit Current Rating:	100KAIC
Enclosure NEMA Rating:	NEMA 1
Enclosure Size:	??
Drive Frame Size:	FR11
Onboard Comms:	None
Optional Comms:	Consult Factory

Enclosure Information

NEMA Rating:	NEMA 1
Height (in):	
Width (in):	
Depth (in):	
Weight (lbs):	

Circuit Protection

Protection Type:	
Lugs:	
Wire Range:	
Disconnect Current Rating:	None
Fuse Type:	0

Special Mods

Qty	Description
1	use the TVSS KIT 100 KA

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	Monushka J Sicar	6/17/2025			
	APPROVED BY	DATE	JOB NAME	THE PALM BEACH WUD - DELRAY	
			DESIGNATION		
	VERSION		TYPE	DRAWING TYPE	
	10.0.12.0		Drives - Enclosed	Customer Appr.	
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
M1880404X5K1-0006	0	A			1 of 1



Powering Business Worldwide

Missing File: Custom drawing required. Please place order with Factory to receive drawing.

< Grout

#1 Selected Quote



Five Star

Five Star Five Star 2 Cubic Feet Unit Dp Epoxy Grout

MFG#: 33610

SKU#: 535DPEG2CF

\$601.89 (KIT)

✓ Ready to Ship

QTY

1

Selected Branch

White Cap - Ecommerce 594
4500 5th Ave South

Building M4
Birmingham, AL 35222
(205) 714-3395

Select your local branch for best pricing and delivery options.

Orders ship in 1-3 business days.

Hazardous material shipping restrictions apply.
You may be contacted by Customer Service if
an alternate shipping method is required.

Item does not meet small parcel ground
shipping requirements.

PRODUCT DETAILS

Five Star DP Epoxy Grout is the only expansive, non-shrink, low exothermic epoxy system for machinery grouting. This versatile, dual purpose product is formulated for single, large volume placements and may be used as thin as 1/2 inch (13 mm) in depth. Five Star DP Epoxy Grout is a three component, 100% solids, solvent-free system formulated to provide high-strength and superior creep resistance combined with the highest effective bearing area. Five Star DP Epoxy Grout exhibits positive expansion when tested in accordance with ASTM C 827.

- Low Exotherm
- High Early Strength
- Long working time
- 95% EBA
- Foundation rebuilds and skid mounted equipment

SPECIFICATIONS

Material	Grout
Nominal Product Depth	0

COMPLIANCE AND RESTRICTIONS

 **Warning: California Prop 65 -** WARNING: Cancer and Reproductive Harmwww.P65Warnings.ca.gov www.P65Warnings.ca.gov



Re: Epoxy Grout

From Brandon Grimm <Brandon.Grimm@whitecap.com>

Date Mon 6/2/2025 4:11 PM

To Angelica Torres <ATorres@globaltechdb.com>

I don't carry it

BRANDON GRIMM

INSIDE SALES

SE Florida

O: 561-223-4396

BRANDON.GRIMM@WHITECAP.COM



From: Angelica Torres <ATorres@globaltechdb.com>

Sent: Monday, June 2, 2025 2:17 PM

To: Brandon Grimm <Brandon.Grimm@whitecap.com>

Subject: Epoxy Grout

Good afternoon,

Do you have fivestar DP epoxy grout?

Thank you,
Angelica Torres
Project Estimator

M: (561) 997-6433 | C: (561) 768-8980 | D: (561) 858 8125



www.globaltechdb.com



901 Yamato Rd., Suite 220, Boca Raton, FL 33431



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Re: Epoxy Grout

From Angelica Torres <ATorres@globaltechdb.com>

Date Fri 6/13/2025 9:15 AM

To Ryan Morgado <Ryan.Morgado@QXO.com>

Hi Ryan,

I'm not sure we I have asked you this buy do you carry Five Star DP epoxy grout?

Thank you,
Angelica Torres
Project Estimator

 M: (561) 997-6433 | C: (561) 768-8980 | D: (561) 858 8125

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 901 Yamato Rd., Suite 220, Boca Raton, FL 33431



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From: Ryan Morgado <Ryan.Morgado@QXO.com>

Sent: Tuesday, May 27, 2025 3:03 PM

To: Angelica Torres <ATorres@globaltechdb.com>

Subject: RE: Epoxy Grout

You don't often get email from ryan.morgado@qxo.com. [Learn why this is important](#)

Angelica,

My apologies on not returning your email, I thought I had already responded and in going back through my inbox I realized that I had not replied and wanted to apologize. I did notice that Cristian has an order in the system for you under invoice SB94235 for one of each kit. Please let me know if you need anything additional.

Ryan Morgado

Branch Manager



7835 Central Industrial Dr., Ste. 100

Riviera Beach, FL 33404

O: [\(561\) 478-2000](tel:(561)478-2000)

M: [\(561\) 895-7895](tel:(561)895-7895)

From: Angelica Torres <ATorres@globaltechdb.com>

Sent: Tuesday, May 20, 2025 10:42 AM

To: Ryan Morgado <Ryan.Morgado@QXO.com>

Subject: Fw: Epoxy Grout

CYBERSECURITY WARNING: External Sender is ATorres@globaltechdb.com. Pause and review before clicking links or opening attachments. When in doubt, click Report Phish.

Good morning,

Any updates on this?

From: Angelica Torres
Sent: Thursday, May 15, 2025 3:10 PM
To: rmorgado@coastalone.com <rmorgado@coastalone.com>
Subject: Epoxy Grout

Hi Ryan,

Could you please update with current prices?

Thank you,
Angelica Torres
Project Estimator

 M: (561) 997-6433 | C: (561) 768-8980 | D: (561) 858 8125

 www.globaltechdb.com

 901 Yamato Rd., Suite 220, Boca Raton, FL 33431



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Membrane Pricing Proposal

Confidential

Date: April 15th, 2025

Attention: Amir Keyvanzad

Company: Globaltech

Subject: **WTP9 – Boca Raton**

Dear Amir,

We are pleased to offer a quote for the following goods and services:

Product Name	Quantity	Price USD/EA	Total USD
Hydranautics ESPA4-LD	3584	\$ 450	\$ 1,612,800
Hydranautics ESNA1-LF2 – LD	672	\$ 485	\$ 325,920
Freight Cost (ESTIMATED)	4 Trucks		\$29,992

The quoted prices represent the base cost of the goods and exclude any applicable tariffs, duties, or government-imposed surcharges, including but not limited to those arising from Section 301 or similar trade measures implemented on or after April 2, 2025. If such charges are applicable at the time of sale, they will be invoiced separately and added to the final amount due.

Lead-Time:	Lead time is subject to change, and it should be confirmed at the time of order entry.
Delivery Terms:	FCA - Oceanside, CA, USA; Freight added at time of shipment
Freight:	Freight cost will be covered by the customer. Hydranautics will arrange transportation and freight charges will be added to the invoice separately. Alternatively, the customer can provide their shipping account for direct billing of freight costs.
Terms of Payment:	Cash In Advance or Current Terms Established with Hydranautics. To apply for credit terms, customer must submit a completed credit application for approval. Once approved, standard credit terms will be applied to the account.
Quote Validity:	<u>90 days from date of quote.</u>
Notes:	All Hydranautics membranes are 100% wet tested as per our quality standard and wet test data is available at time of shipment. Each Hydranautics element is furnished with an interconnector with O-rings and a brine seal. Hydranautics Terms and Condition of Sale are included as an integral part of this quotation.

Purchase Orders must be directed to Hydranautics' functional customer service email:
hy-purchase-orders@nitto.com

Thank you for your continued interest and support of Hydranautics' membrane solutions. Please do not hesitate to contact me if you need any further information.

Best Regards.



Mikhail Saltovets
Regional Account Executive, Eastern North America
Cell: + 1-760-496-9925
Mikhail.Saltovets@nitto.com

HYDRANAUTICS STANDARD MATERIALS AND WORKMANSHIP WARRANTY

This Materials and Workmanship Warranty (the "Warranty") is made by HYDRANAUTICS ("Hydranautics"), a California corporation, in connection with the Buyer's purchase of a Hydranautics product and the component parts thereof, as more fully defined in that certain purchase order of even date herewith (the "Covered Product"). This Warranty constitutes the entire agreement between Hydranautics and the Buyer as to any warranty provided by Hydranautics to the Buyer on the Covered Product and supersedes all agreements, understandings or discussions, whether oral or written, entered into prior to or contemporaneously herewith. This Warranty may not be modified or amended except in writing and signed by Buyer and Hydranautics.

I. ACKNOWLEDGEMENTS OF BUYER

By accepting this Warranty, Buyer acknowledges the following:

- A. That Buyer has read and understands the terms and limitations of this Warranty;
- B. That Buyer has been provided sufficient opportunity to consult with independent legal counsel regarding this Warranty and the limitations hereof, and that Buyer has not relied upon any statements or representations of Hydranautics for Buyer's understanding or interpretation of any provision hereof.

II. LIMITED WARRANTY ON MATERIALS AND WORKMANSHIP

- III. Hydranautics warrants to the Buyer that the Covered Product are free from defects in materials and workmanship for a period not to exceed twelve (12) months from the date that the Covered Product are shipped from Hydranautics for delivery to the Buyer, provided however, as a condition precedent to enforcement of this Warranty, the Covered Product are used and maintained in accordance with all Hydranautics specifications and specified engineering, operating, storage, shipment, and returned goods authorization ("RGA") procedures, as set forth in the TSBs relevant to the Covered Product, posted at <http://www.membranes.com>, and hereby incorporated by reference. Buyer agrees to review such TSBs and to periodically review the website, no less frequently than quarterly, for updates or supplements to the relevant TSBs.

IV. LIMITATIONS ON HYDRANAUTICS LIABILITY.

- A. If Hydranautics breaches this Warranty, the exclusive remedy of Buyer and the exclusive obligation of Hydranautics will be as Hydranautics elects within a reasonable time: (i) to repair defective Covered Product, (ii) to replace defective Covered Product, (iii) to refund Buyer a pro-rated amount of the amount paid for defective Covered Product based on the months left under the warranty period in section II, or (iv) add additional Covered Product.
- B. Buyer's remedies expressly set forth in this Warranty are Buyer's exclusive remedies in connection herewith. Customer waives all other remedies, statutory or otherwise including, without limitation, the remedies of specific performance or replevin.
- C. Hydranautics' maximum, aggregate, and total liability under this Warranty, whether in contract, tort, or otherwise, shall not exceed the the amount paid for defective Covered Product.

- D. EXCEPT FOR GROSSLY NEGLIGENT OR WILFUL MISCONDUCT, IN NO EVENT WILL NITTO BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF REVENUES OR PROFITS, LOSS OF USE, COST OF REPLACEMENT, COST OF CAPITAL AND CLAIMS OF CUSTOMERS, INTEREST CHARGES, OR ANY INCREASED COSTS) WHICH ARISE IN CONNECTION WITH THIS WARRANTY. This Warranty shall not be assigned or transferred by the Buyer without the prior written approval of Hydranautics.
- E. This Warranty shall be governed by and construed according to the laws of the state of California, U.S.A.

V. WARRANTY DISCLAIMERS.

- A. THIS WARRANTY SUPERSEDES AND REPLACES ANY PREVIOUS WARRANTY MADE OR OFFERED TO THE BUYER BY HYDRANAUTICS, INCLUDING BUT NOT LIMITED TO ANY WARRANTY SET FORTH IN ANY OTHER AGREEMENT BETWEEN THE PARTIES HERETO.
- B. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED AND EXCLUDED. FURTHERMORE, NO AFFIRMATION OF FACT OR PROMISE MADE BY HYDRANAUTICS, BY WORD OR BY ACTION, SHALL CONSTITUTE A WARRANTY.
- C. EXCEPT FOR THE PROVISIONS SET FORTH IN THIS WARRANTY, NO AGENT, EMPLOYEE, OR REPRESENTATIVE OF HYDRANAUTICS HAS ANY AUTHORITY TO BIND HYDRANAUTICS TO ANY OTHER AFFIRMATION, REPRESENTATION, OR WARRANTY CONCERNING THE PRODUCT SOLD TO THE BUYER. UNLESS AN AFFIRMATION, REPRESENTATION OR WARRANTY IS SPECIFICALLY INCLUDED IN THIS WARRANTY, IT SHALL NOT BE ENFORCEABLE BY THE BUYER.



May 15, 2025

Angelica Torres
Project Estimator
Globaltechdb
6001 Broken Sound Parkway NW, Suite 610
Boca Raton, Florida 33487

PENTAIR FILTRATION SOLUTIONS LLC
•CodeLine •XFlow •Aqualine
+1440.781-2654 office
Jill.Overflow@pentair.com

4301 West Davis Street
Conroe, TX 77304
United States
<http://codeline.pentair.com>
<http://xflow.pentair.com>

Dear Angelica:

WT9 Pressure Vessels
Quotation JO05152025A1-CL

Thank you for the opportunity to quote Pentair CodeLine products. The following quotation is based on your request.

QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
56	CodeLine 80S30-7 Membrane Housing Assembly 8 inch diameter, 300 psi maximum design and all components on drawing# 99160 Head Assy Code Compliant 1 " FNPT Permeate port connection (Noryl) Feed Concentrate Ports: Two x 1-1/2" IPS Groove PORT Location 1D5D Adapters included for MembraneESPA4-LD and ESNA1-LF2 – LD As Specified	\$ 1,108.00	\$62,048.00

Estimated Freight \$5500

Notes:

Lead time 10 to 12 weeks
Ex Works Dock Door(Fresno California) USA
Per Incoterms 2020 rules
Payment Terms: To be Established
Validity : 30 days

Best Regards,

Jill Overflow

cc: Amir Keyvanzad



PENTAIR FILTRATION SOLUTIONS LLC
•CodeLine •XFlow •Aqualine
+1440.781-2654 office
Jill.Overflow@pentair.com •Aqualine
+1440.781-2654 office
4301 West Davis Street
Conroe, TX 77304
United States
http://codeline.pentair.com
http://xflow.pentair.com
http://aqualine.pentair.com

May 15, 2025

Angelica Torres
Project Estimator
Globaltechdb
6001 Broken Sound Parkway NW, Suite 610
Boca Raton, Florida 33487

Spare Parts Codeline 80S30 Series
Quotation JO05152025A1-CL

Dear Angelica:

Qty for Each Housing	Part No	Description	Unit Price	Unit of Measure
2	96162	Permeate Port - 80S30	\$ 63.84	Each
2	45066	Port Nut - 80S30	\$ 21.84	Each
1	50292	Permeate Port Seal Kit of 20 of the 196215 -	\$ 32.48	Kit of 20
2	196223	Head Seal – 80S30	\$ 23.52	Each
2	47336	Head retaining Ring-80S30	\$ 72.80	Each
1	96163	Thrust Cone	\$ 42.56	Each
2	94157	Head Assly 80S30	\$ 304.08	Kit
2	50161	PWT Adapter Kit	\$ 39.20	Each (Kit)
1	52656	Adapter Kit	\$ 26.32	Kit of 10
1	50287	PWT Seals	\$ 32.48	Kit of 20
1	94101	Head Removal Tool	\$ 221.76	Each

Notes:
Lead time TBD
Ex Works Dock Door(Fresno California) USA
Per Incoterms 2020 rules
Payment Terms: To be Established
Validity : 30 days

Best Regards,

Jill Overflow



Post Office Box 16039 - Tampa, FL 33687-6039
(813) 740-1144 - FAX (813) 627-9387

May 16, 2025

Serving the Water & Wastewater Plant Industry for over 35 Years

Globaltech Design Build
Attn: Angelica Torres

☒ Net Price
☐ Cuts to follow (See

Project Name: PBC WTP 9 Membrane Expansion
McDade Project #:
Bid Date: N/A
Addendum: N/A
AIS, BABAA, WIFIA, Florida Statutes 255.0993, or Domestic Requirement - No
NSF/ANSI 61 and / or NSF/ANSI 372 Requirement - No

QTY	SIZE	DESCRIPTION	WEIGHT EACH	UNIT \$	EXT \$
DISCHARGE PIPING					
6	18" X 08"	316SS SCH 10 FABRICATED FITTING: 18" SO FLG X 18"X00'-03" SPOOL X 18" X 08" ECCENTRIC REDUCER X 08"X00'-06" SPOOL X 08" SO FLG) WITH PICKLING AND PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED)		\$5,008.69	\$30,052.14
SUCTION PIPING					
6	18" X 12"	316SS SCH 10 FABRICATED FITTING: 18" SO FLG X 18"X01'-00" SPOOL X 18" X 12" ECCENTRIC REDUCER X 12"X00'-06" SPOOL X 12" SO FLG) WITH PICKLING AND PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED)		\$6,426.7	\$38,559.90
TOTAL THIS BID ITEM - TAX NOT INCLUDED					\$68,612.04
FAS TOTAL ALL BID ITEM - TAX NOT INCLUDED					\$0.00
COUPLING TOTAL ALL BID ITEM - TAX NOT INCLUDED					\$0.00
STAINLESS TOTAL ALL BID ITEM - TAX NOT INCLUDED					\$68,612.04
MISC TOTAL ALL BID ITEM - TAX NOT INCLUDED					\$0.00
GRAND TOTAL ALL BID ITEM - TAX NOT INCLUDED					\$68,612.04

- Notes:
- All Fitting and Valves Quoted Less Accessories
 - Due to the volatile raw market All C-900 PVC, C-905 PVC, HDPE, SDR 35, Sch 80 PVC, Sch 40 PVC, Stainless Steel, Copper & Brass Pipe, Fittings, Valves, etc. will/may need to be re-quoted at the time of purchase. Pricing Subject to Availability.
*** Stainless Steel prices are good till May 23, 2025
 - McDade Waterworks, Inc. reserves the right to apply "Price in Effect" at time of delivery due to shortages, tariffs, and/or further "Force Majeure" declarations by manufacturer(s) or US government. McDade Waterworks, Inc will not be responsible for industry price changes, shortages, or tariffs beyond our control.
 - Flange Accessories Set Prices are Firm for 14 Days from Bid Date, & Must Ship Within 28 Working Days from Bid Date.
 - Line drawings are not included. If needed add \$1,000.00 per sheet.
 - No Spare Parts for any components on take-off are included, unless noted otherwise.
 - In lieu of using Nitric Acid at a proper temperature and length of time, we will be Electropolishing the material. Full immersion in a heated sulfuric and phosphoric acid,

DESCRIPTION

WEIGHT
EACH

UNIT \$

EXT \$

that is then electrochemically charged to insure removal of all free iron, weld scale, and other impurities and to insure the establishment of a superior passive surface which will be accompanied by a Certificate of Compliance stating the material has been processed and meets/surpasses the Passivation Standard ASTM A967.

**** DISCLAIMER:**
McDade Waterworks, Inc. reserves the right to increase prices and/or change escalation terms at any time based on the potential of continued cost volatility.

Confidentiality. Both McDade and Customer agree that the terms of this quotation, including the attached pricing are confidential and shall be held in strict confidence by both parties and may not be disclosed unless required by law. Customer agrees not to post or publicly display the terms or the pricing. Customer also agrees that any discussions or negotiations regarding the attached pricing or any changes thereto (including but not limited to future pricing offerings) are also confidential and are pursuant to this provision of confidentiality.

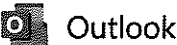
The above quotation is our interpretation of the plans and specifications and should be reviewed by your firm for accuracy. Prices do not include valve boxes, ext. stems, wrenches, start-up services, etc. unless specifically noted in our quotation. Prices are based on full freight allowed truckload shipments to the project. Additional materials ordered will be furnished on a case by case basis.

Terms: Net 30 Days
FOB: S/P - FFA to Jobsite (Based on Terms Above)

Please call should you have any questions or need any additional pricing.

Sincerely,

Mike Worrell



WTP 9 - New Feed Membrane Pumps

From Angelica Torres <ATorres@globaltechdb.com>
Date Mon 6/2/2025 11:59 AM
To Gary Morgan (gary.morgan2@ferguson.com) <gary.morgan2@ferguson.com>

Hi Gary,

Could you please provide us budgetary price for the following:

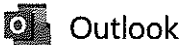
- DISCHARGE PIPING**
- | | | |
|---|-----------|---|
| 6 | 18" X 08" | 316SS SCH 10 FABRICATED FITTING: 18" SO FLG X
18"X00'-03" SPOOL X 18" X 08" ECCENTRIC REDUCER X
08"X00'-06" SPOOL X 08" SO FLG) WITH PICKILING AND
PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED) |
| 6 | 18" | FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61
EPDM GASKET) |
| 6 | 08" | FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61
EPDM GASKET) |
- SUCTION PIPING**
- | | | |
|---|-----------|---|
| 6 | 18" X 12" | 316SS SCH 10 FABRICATED FITTING: 18" SO FLG X
18"X01'-00" SPOOL X 18" X 12" ECCENTRIC REDUCER X
12"X00'-06" SPOOL X 12" SO FLG) WITH PICKILING AND
PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED) |
| 6 | 12" | FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61
EPDM GASKET) |
| 6 | 18" | FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61
EPDM GASKET) |

Thank you,
Angelica Torres
Project Estimator

 M: (561) 997-6433 | C: (561) 768-8980 | D: (561) 858 8125
 www.globaltechdb.com
 901 Yamato Rd., Suite 220, Boca Raton, FL 33431



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Outlook

WTP 9 - New Feed Membrane Pumps

From Angelica Torres <ATorres@globaltechdb.com>
Date Mon 6/16/2025 2:09 PM
To edgar.cepeda@coreandmain.com <edgar.cepeda@coreandmain.com>

Good afternoon,

Could you please provide us budgetary price for the following:

DISCHARGE PIPING

- 6 18" X 08" 316SS SCH 10 FABRICATED FITTING: 18" SO FLG X 18"X00'-03" SPOOL X 18" X 08" ECCENTRIC REDUCER X 08"X00'-06" SPOOL X 08" SO FLG) WITH PICKILING AND PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED)
- 6 18" FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61 EPDM GASKET)
- 6 08" FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61 EPDM GASKET)

SUCTION PIPING

- 6 18" X 12" 316SS SCH 10 FABRICATED FITTING: 18" SO FLG X 18"X01'-00" SPOOL X 18" X 12" ECCENTRIC REDUCER X 12"X00'-06" SPOOL X 12" SO FLG) WITH PICKILING AND PASSIVATION (NO SPECIAL ALIGNMENT INCLUDED)
- 6 12" FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61 EPDM GASKET)
- 6 18" FLG ACCY SET (316SS FINISH HEX W/ 1/8" FULL FACE NSF-61 EPDM GASKET)

Thank you,
Angelica Torres
Project Estimator

M: (561) 997-6433 | C: (561) 768-8980 | D: (561) 858 8125

www.globaltechdb.com

901 Yamato Rd., Suite 220, Boca Raton, FL 33431



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PLEASE ADDRESS ORDER TO
ACCUTECH INSTRUMENTATION, INC.
6500 BOWDEN RD, SUITE 304
JACKSONVILLE, FL 32216
904-721-0822



Quote #3578520414250335

Customer Information |

Customer Name | GLOBALTECH
Customer Number | 357852
Requested By | Angie Viloria
Req. By Email | aviloria@globaltechdb.com
Customer Phone Number | (561) 858-8142
Bill To Name | GLOBALTECH
Bill To Address | 6001 BROKEN SOUND PKWY NW,SUITE 610, BOCA RATON, FL 33487

Ship To Name | GLOBALTECH
Ship To Address | 6001 BROKEN SOUND PKWY NW,SUITE 610, BOCA RATON, FL 33487
Quote By | ENRIQUE RUEDA
Quote By Email | enrique@accutech.net
Quote By Phone Number | (561) 383-7457

Quote Information |

Date of Issue | 04-17-25
Expiration Date | 05-19-25
Delivery | 4 weeks for VA flowmeter and 8 weeks for mass controller type

Product

-	Product Detail	Qty	Unit Price	Extended Price
1	GT16XX-1610AKCA2AA13D10A LARGE GLASS TUBE VA FLOW METER LineDescription GT1600 - Large Glass Meter NH3 48 - 480 LB/D REF P/N Max Pressure 250 PSIG [17 BARG] Max Temp 250F [121C] Base Model GT161X Conn Orientation [0] Horizontal In / Horizontal Out Tube [K] R-8M-25-4FT Float [C] 8-XV-8-A Fitting Mat. [A] 316SS Conn Size [2] 1/2-inch Conn Type [AA] St'd / GT1000 Retrofit FNPT O-Ring Mat. [1] Viton Scale Type [3] Direct Reading Scale Accuracy [D] +/- 2% Full Scale Valve [1] Valve at Inlet Alarm [0] None Approvals [A] None Phase Gas Fluid AMMONIA Formula NH3 VASE Range 48 - 480 LB/D 2nd Scale Inscr N/A Operating Temp 70F Operating Press 10 psig Density 0.0012 GM/CC Viscosity 0.0102 cP Reference Conditions N/A	2	\$2,798.75	\$5,597.50
Note	Factor Tag Factor Tag2 Factor Tag3 CRN Province N/A Relay No Panel Mounting No Condulet Box No Meter Pressure Drop 5-in W.C. (1.3 kPA) Additional Services No Tag			
2	SLAMF53S2DDF2G2A1 SLAME5X Elastomer, Digital, Gas Mass Flow / Pressure Meters & Controllers, NH3 379 LB/D REF P/N Base Model SLAMF53 REV B Mass Flow Controller Max Press 1000 psig [69 BAR] Max Temperature 149F [65C] Temperature 70F Meter Material 316L SS Valve Type NC High DP Valve Seat PTFE (Teflon Diaphragm) O-Ring Kalrez Elect Conn PG11 Cable Gland Proc Conn Sz 1/2-in Conn Type Comp	2	\$8,512.50	\$17,025.00
Note	Fs Flow Rate 379 LB/D Gas NH3 Inl Pressure 50 psig Out Pressure 20 psig			

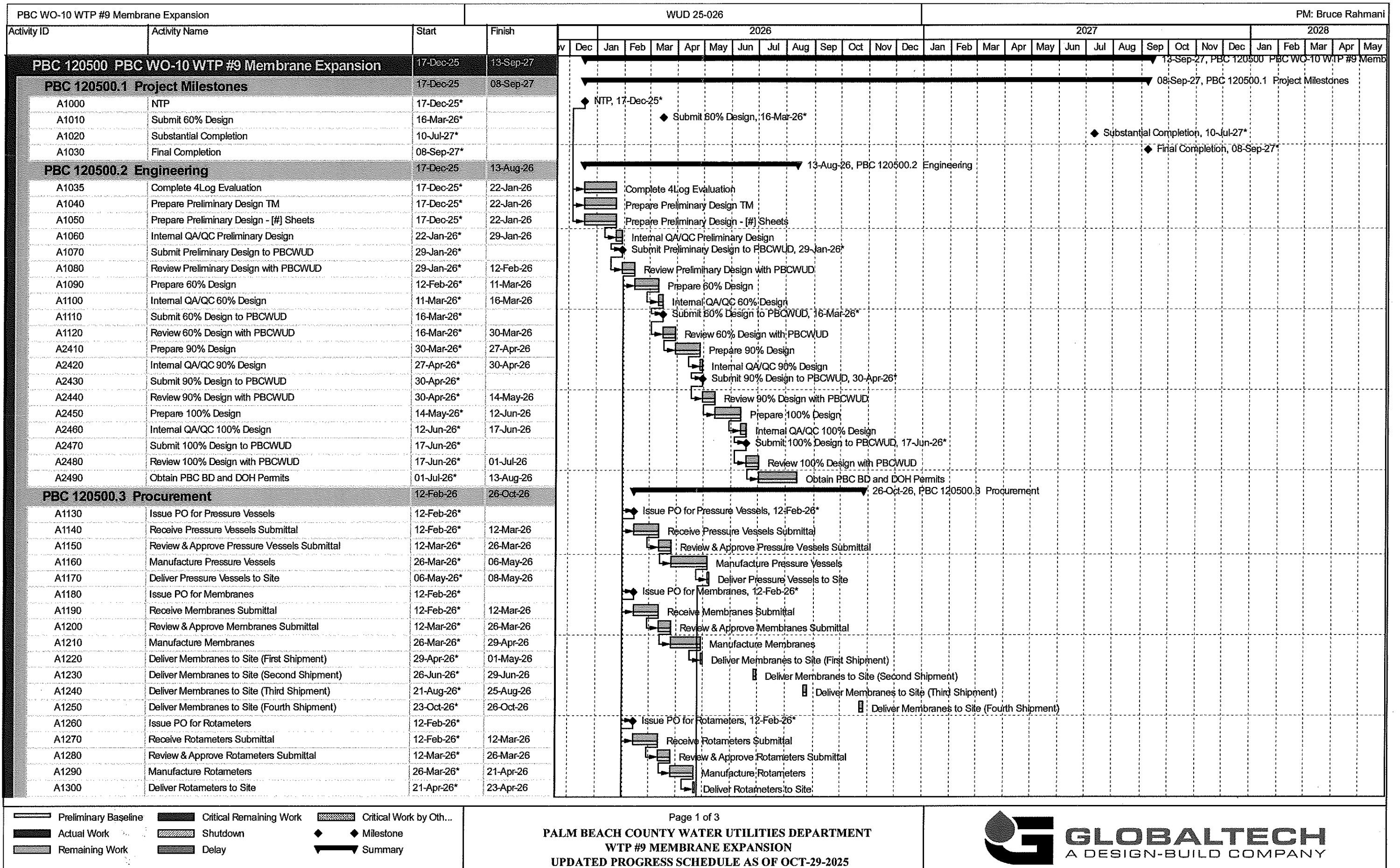
Product Detail		Qty	Unit Price	Extended Price
Cal Ref Temp N/A Input Signal 4-20mA Output Sig 4-20mA Comm Smart Emulation Baudrate 19200 OutputEnh Std Response PwrSpIyIn 24 Vdc Cert Safe Area Mtg Att Horizontal base down Calibration [B] Standard Calibration Oem Cust Standard Brooks label Orifice Size 0.032 Restrictor Type LFE Restrictor Size Size code B N2 E. Gas Factor 0.786 N2_EQ 199.893622 NLPM CRN Province N/A RT Aux Input N/A Viscosity 0.0098 Density 0.0031 GM/CC Specific Heat 2.1786 J/g K				
3	SLAMF53S2DDF2G2A1 SLAMF5X Elastomer, Digital, Gas Mass Flow / Pressure Meters & Controllers, NH3 450 LB/D REF P/N Base Model SLAMF53 REV B Mass Flow Controller Max Press 1000 psig [69 BAR] Max Temperature 149F [65C] Temperature 70F Meter Material 316L SS Valve Type NC High DP Valve Seat PTFE (Teflon Diaphragm) O-Ring Kalrez Elect Conn PG11 Cable Gland Proc Conn Sz 1/2-in Conn Type Comp	2	\$9,032.50	\$18,065.00
Note	Fs Flow Rate 450 LB/D Gas NH3 InI Pressure 50 psig Out Pressure 20 psig Cal Ref Temp N/A Input Signal 4-20mA Output Sig 4-20mA Comm Smart Emulation Baudrate 19200 OutputEnh Std Response PwrSpIyIn 24 Vdc Cert Safe Area Mtg Att Horizontal base down Calibration [B] Standard Calibration Oem Cust Standard Brooks label Orifice Size 0.032 Restrictor Type LFE Restrictor Size Size code C N2 E. Gas Factor 0.786 N2_EQ 237.340712 NLPM CRN Province N/A RT Aux Input N/A Viscosity 0.0098 Density 0.0031 GM/CC Specific Heat 2.1786 J/g K Filter None Filter Model No Additional Services No Tag			
Products Sub Total:				\$40,687.50

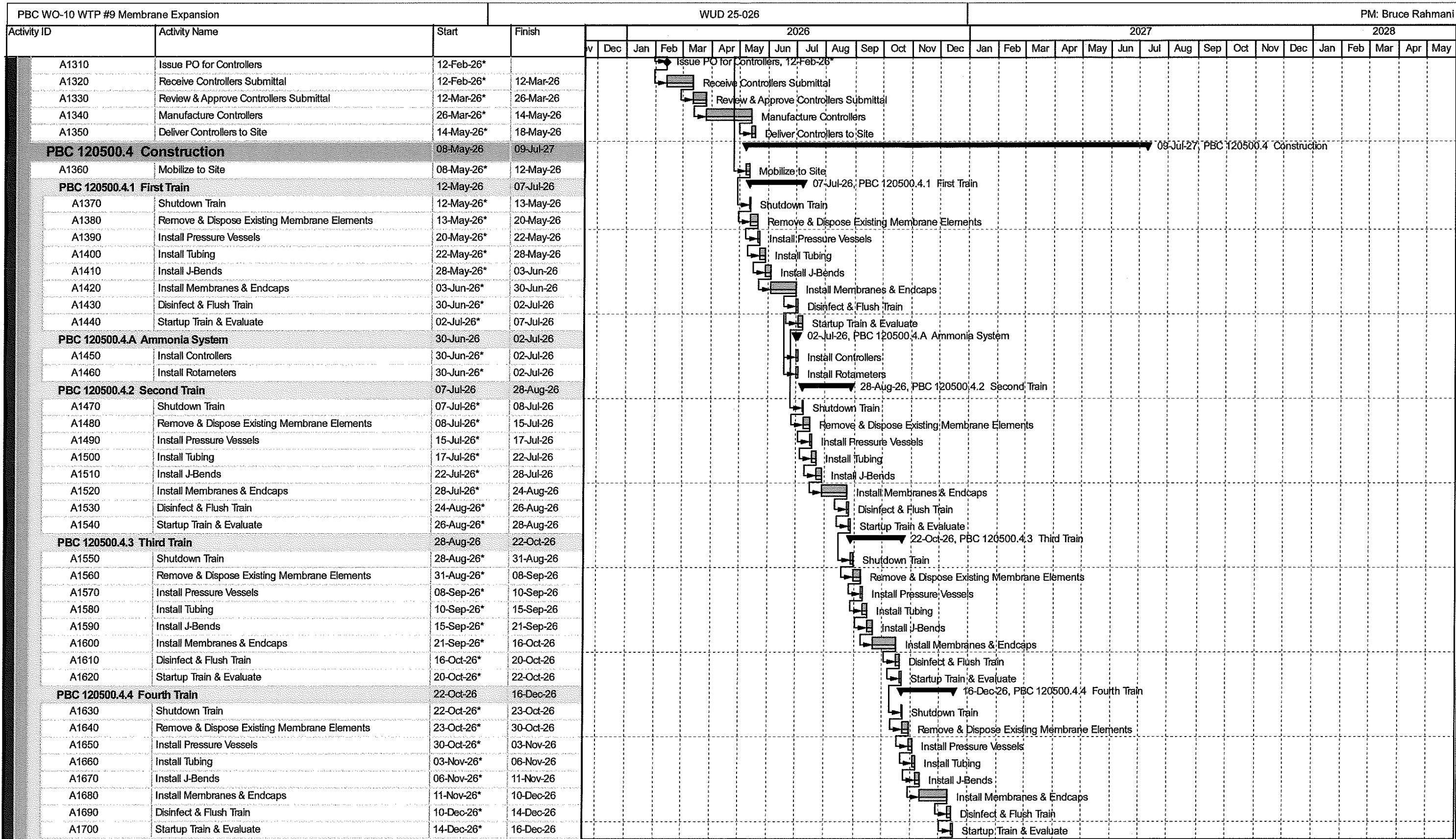
Total Value: \$40,687.50

Standard Terms and Conditions Apply. Payments Terms: NET 30. F.O.B. Shipping Point
Taxes and Shipping Charges/Fees Not Included

JACKSONVILLE, FL 32216

Adding value to quality products







Water Utilities Department
Engineering Division

8100 Forest Hill Blvd
West Palm Beach, FL 33413
(561) 493-6000
Fax: (561) 493-6085
www.pbcwater.com

Palm Beach County
Board of County
Commissioners

Maria G. Marino, Mayor
Sara Baxter, Vice Mayor
Gregg K. Weiss
Joel G. Flores
Marci Woodward
Maria Sachs
Bobby Powell Jr.

Interim County Administrator
Todd J. Bonlarron

"An Equal Opportunity Employer"
Official Electronic Letterhead

July 11, 2025

Mr. Bernard Paul Gandy, President/CEO
Globaltech, Inc.
901 Yamato Rd., Ste. 220
Boca Raton, Florida 33431

Re: Project Number: 21-072
Optimization & Improvement Design Build Engineering
Services
Notification of Contract Clauses No Longer Being
Enforced Pursuant to Emergency Ordinance 2025-014

Dear Mr. Gandy,

On June 3, 2025, the Board of County Commissioners (BCC) approved an emergency ordinance to suspend the race and gender conscious provisions of the County's EBO ordinance. The suspension will remain in effect for two years or until further direction by the BCC, whichever comes first. As a result, the provisions relating to minority/women-owned business enterprise (M/WBEs) participation contained in the Contract document (R2023-0086) under General Provisions section B Subcontracting of **will not be enforced** as of June 3, 2025, only the small business enterprise (SBE) provisions will apply.

Please sign below to acknowledge receipt of this notification. This acknowledgement will be included in, and made part of, the contract file.

Should you require any additional information please contact Ms. Christina Bervin at cbervin@pbcwater.com or at (561) 493 5203.

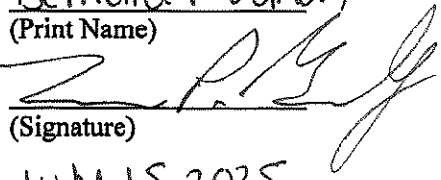
Cordially,


Jane House, P.E., LEED AP
Director of Engineering Division

Receipt Acknowledged and In Agreement:

GlobalTech, Inc.
(Design-Build Entity)

Bernard P. Gandy
(Print Name)


(Signature)

JUN 15, 2025
(Date)

ATTACHMENT 2

LOCATION MAP
WTP 9 Membrane Expansion
PBCWUD Project No. 25-026



WATER TREATMENT PLANT NO. 9

[illegible]

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
EXPENDITURE BUDGET TRANSFER

BGEX 110325*359

FUND 4011 Water Utilities Capital Improvement Fund

ACCOUNT NUMBER	ACCOUNT NAME	UNIT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED as of 11/03/25	REMAINING BALANCE
EXPENDITURES									
721-W005-6541	Water Treatment Plant	Capital Imp. System #9	4,199,731	4,199,731	3,298,831		7,498,562	0	7,498,562
721-W026-6547	Wastewater Force Mains	Glades Utility Authority Capital	14,706,134	14,096,764		3,298,831	10,797,933	7,559,842	3,238,091
	Total Expenditures				3,298,831	3,298,831			

SIGNATURES

DATES


Initiating Department/Division

04-Nov-25


Administration/Budget Department Approval

11/6/2025

OFMB Department - Posted

BY BOARD OF COUNTY COMMISSIONERS

At Meeting of: 2-Dec-25

Deputy Clerk to the Board of County Commissioners