Agenda Item # 3K-12

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: JULY 12, 2016 **Consent [X]** **Regular [ ]**
Public Hearing [ ]

Department: **Water Utilities Department**

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Work Authorization (WA) No. 5 for Water Treatment Plant (WTP) No. 3 Chemical Improvements Project (Project) with Globaltech, Inc., in the amount of $658,262.64.

Summary: On March 10, 2015, the Board of County Commissioners (BCC) approved the Water Utilities Department (WUD) Contract for Optimization and Improvements Design-Build (Contract) with Globaltech, Inc. (R2015-0315). WA No. 5 provides for the replacement of chemical piping, pumps and trenches at WTP No. 3. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The Contract provides for SBE participation of 75%. WA No. 5 includes 93.84% overall SBE participation. The cumulative SBE participation including WA No. 5 is 96.13% overall. Globaltech Inc. is a Palm Beach County company. The Project is included in the FY16 Capital Improvement plan adopted by the BCC. (WUD Project No. 16-054) District 5 (MJ)

Background and Justification: WA No. 5 provides for improvements that are necessary to rectify existing deficiencies in the sodium hydroxide, sodium hypochlorite and sulfuric acid dosing systems at WTP No. 3. The chemical improvements include the replacement of improperly installed chemical piping, damaged chemical containment trenching and chemical dosing pumps that have reached the end of their serviceable life. WA No. 5 provides for professional design, permitting and construction services during the Project. Globaltech, Inc. will provide builders risk insurance prior to commencement of construction.

Attachments:

1. Location Map
2. Two (2) Original Work Authorization No. 5

Recommended By: Jim Stiles 5-3-16
Department Director **Date**

Approved By: 5-16-16
Assistant County Administrator **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2016	2017	2018	2019	2020
Capital Expenditures	$658,263	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
NET FISCAL IMPACT	$658,263	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

Budget Account No.: Fund 4011 Dept 721 Unit W003 Object 6541

Is Item Included in Current Budget? Yes X No ____

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.

C. Department Fiscal Review: Debra M West

III. REVIEW COMMENTS

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

OFMB 5/9

Contract Development and Control 5/11/16

B. Legal Sufficiency:

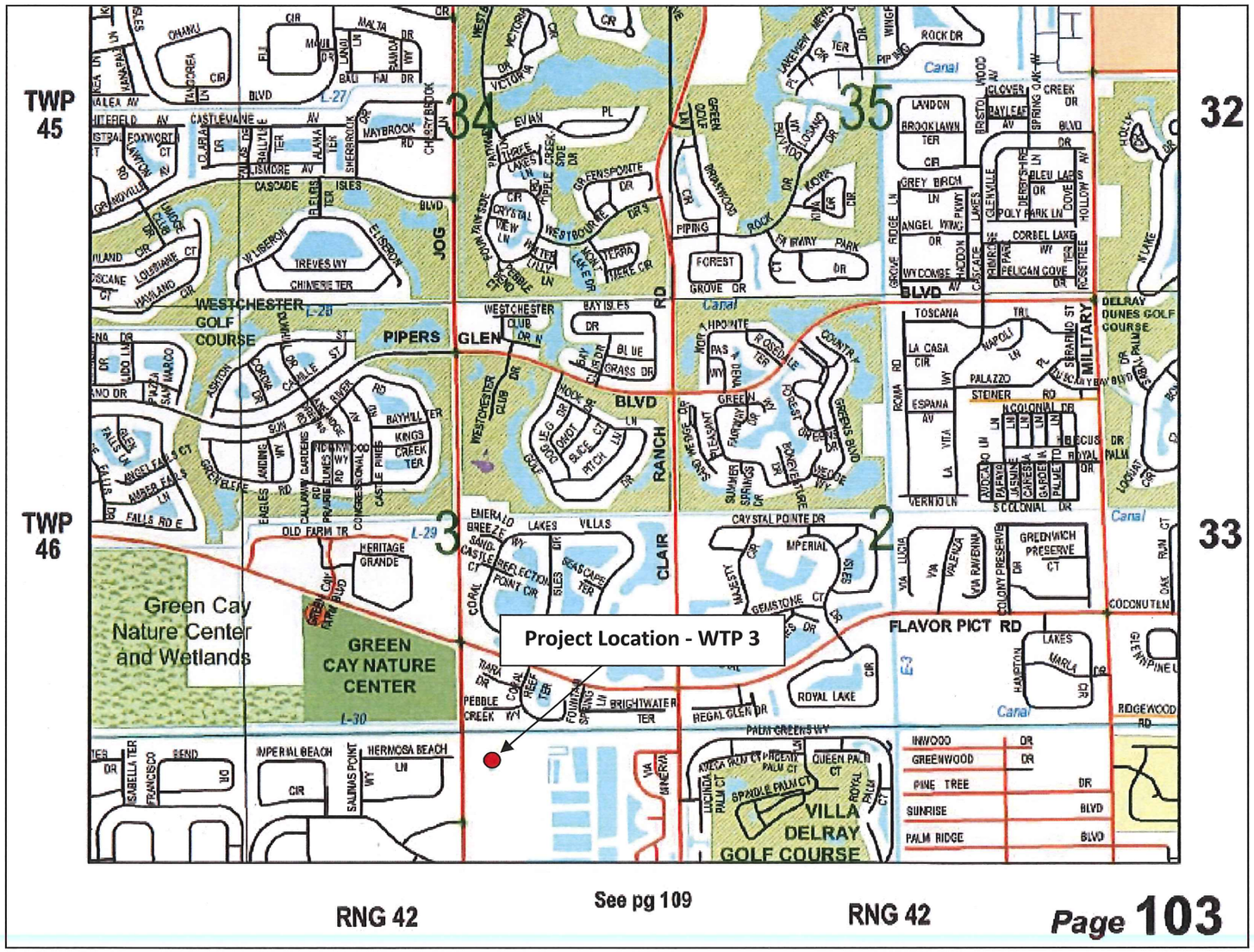
Assistant County Attorney 5/12/16

C. Other Department Review:

Department Director

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

ATTACHMENT 1
Location Map



WORK AUTHORIZATION NO. 05

Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build Contract

Project No.: WUD 16-054
District: 5
Budget Line Item No.: 4011-721-W003-6541
Project Title: Water Treatment Plant No. 3 – Chemical Improvements

THIS AUTHORIZATION # 05 to the Contract for Optimization and Improvements Design-Build Services dated March 10, 2015 (R 2015-0315), by and between Palm Beach County and the Design-Build Entity identified herein, is for the Design/Build Services of this Work Authorization. The Design-Build Entity provides for 75% SBE participation overall. This Work Authorization includes **93.84** % overall participation. The cumulative proposed SBE participation, including this authorization is **96.13** % overall. Additional authorizations will be utilized to meet or exceed the stated overall participation goal.

1. Design-Build Entity: Globaltech, Inc.

2. Address: 6001 Broken Sound Parkway NW, Suite 610, Boca Raton, FL 33487

3. Description of Services (Scope of Work) to be provided by the Design-Build Entity:

   See **ATTACHMENT - A**.

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

   See **ATTACHMENT - G**.

5. Design-Build Entity shall begin work promptly or deliver ordered materials within the following calendar days from the receipt of Building Permit and Notice to Proceed with construction:

   Substantial Completion **365** Calendar Days
   Final Construction Completion **425** Calendar Days
   Liquidated damages will apply as follows:
   $ **1,000** per day past substantial completion date.
   $ **500** per day past final completion date.
   (For Liquidated Damages Rates see **ATTACHMENT - B**)

6. The compensation to be paid to the Design-Build Entity for providing the requested services in accordance with the Guaranteed Maximum Price is $ **658,262.64**

7. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated March 10, 2015 remain in full force and effect.

WORK AUTHORIZATION NO. 05

Project No.: WUD 16-054

Project Title: Water Treatment Plant No. 3 – Chemical Improvements

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

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

Sharon R. Bock, Clerk & Comptroller,
Palm Beach County

ATTEST:

Signed:_____

Typed Name: _____
Deputy Clerk

Approved as to Form and Legal Sufficiency

Signed: _____

Typed Name: _____
County Attorney

Palm Beach County,
Board of County Commissioners

Signed:_____
Mary Lou Berger, Mayor

_____
Date

JCS

CONTRACTOR: Globaltech, Inc.

ATTEST:

Witness

(Signature)

Richard D. Olson, P.E. / Proposal Manager
(Name and Title)

Troy L. Lyn, P.E. / Vice President
(Name and Title)

(CORPORATE SEAL)

April 15, 2016
Date

LIST OF ATTACHMENTS

WORK AUTHORIZATION NO. 05

Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build Contract

ATTACHMENT - A	Scope of Work & Compensation
ATTACHMENT - B	Rate for Liquidated Damages
ATTACHMENT - C	Public Construction Bond
ATTACHMENT - D	Form of Guarantee
ATTACHMENT - E	Work Authorization Schedule of Bid Items
ATTACHMENT - F	SBE Schedule 1 & Schedule 2
ATTACHMENT - G	Authorization Status Report - Summary & Status of Authorizations
ATTACHMENT - H	Authorization Status Report - Summary of SBE/Minority Business Tracking
ATTACHMENT - I	Location Map
ATTACHMENT - J	Design-Build Criteria Report
ATTACHMENT - K	Vendor Quotes

ATTACHMENT A
WORK AUTHORIZATION NO. 05

Palm Beach County Water Utilities Department

Optimization and Improvements Design-Build Contract

SCOPE OF WORK
FOR

Water Treatment Plant No. 3 – Chemical Improvements
Project No. WUD 16-054

INTRODUCTION

Palm Beach County (County) entered into an agreement entitled Optimization and Improvements Design-Build Contract Project No. WUD 14-071 (CONTRACT) with Globaltech, Inc. (Design-Build Entity) to provide design-build services for various general activities on the Optimization and Improvements Design-Build Contract dated March 10, 2015, (R 2015-0315). This Work Authorization will be performed under that CONTRACT.

This Work Authorization encompasses providing services related to the following tasks at Water Treatment Plant (WTP) No. 3:

- Sulfuric Acid Piping - Furnish and install replacement sulfuric acid piping and chemical trench across the roadway south of the chemical containment area.
- Caustic Piping – Furnish and install replacement caustic and secondary containment from the two caustic tanks to the caustic pump room and from the caustic pump room to the injection points for both clearwells and to the both odor scrubbers.
- Caustic Pumps and Calibration Columns - Install five (5) Owner furnished caustic pumps and calibration column in the existing caustic room.
- Eye Wash and Shower - Provide Speakman 316SS eyewash and shower (including 316 SS accessories) inside the caustic room connecting to the existing eyewash water service outside the door.
- Sodium Hypochlorite Piping - Replace the sodium hypochlorite piping from the Chlorine Pump Room to Odor Scrubber No. 2.

SCOPE OF SERVICES

Design-Build Entity shall perform the Scope of Services described in the ***Design-Build Criteria for Water Treatment Plant (WTP) No. 3 – Chemical Improvements / WUD 16-054*** (PBCWUD, April 2016) and as described herein:

The proposed work to be performed by the Design-Build Entity generally includes furnishing all labor, equipment, materials, tools, supervision, and services required to design, construct, test, and startup the proposed work is generally described as follows:

Task 1 – Administrative and Engineering Services

1. Meet with the County to review project scope.
2. Develop subcontracts with structural and electrical engineers, elevated tank utility subcontractor, locator, and electrical contractor and other entities as may be required.
3. Conduct buried utility location services
4. Prepare a preliminary (60%) design.
5. Submit five (5) half-size copies of the 60% design to the County. Meet with the County to review the design.
6. Incorporate the County comments and proceed to 90% design. Submit five (5) half-size copies of the 90% design to the County. Meet with the County to review the design.
7. Incorporate the County comments and proceed to the final design stage in accordance with the PBCWUD Water Utilities Minimum Design and Construction Standards, Engineering Design-Manual and security requirement.
8. Submit Palm Beach County Building Department for permit applications and courtesy notification to FDEP/Palm Beach County Health Department.
9. Prepare detailed construction schedule to include as a minimum; engineering and permitting services, site mobilization, detailed construction activities, scheduled shutdowns and durations, equipment/material delivery times, testing, startup and commissioning.
10. Prepare submittals (or confirmation of compliance with County design standards), administer and track submittal process.
11. Schedule meetings, inspections, and testing with County staff.
12. Provide Engineer's site visits during construction to confirm construction is being performed in conformance with the Design Drawings and Specifications.
13. Prepare Record Drawings.
14. Provide O&M manuals supplied with new equipment

Task 2 – Construction Services

1. Sulfuric Acid Piping: Furnish and install replacement sulfuric acid piping and chemical trench across the roadway south of the chemical containment area. The existing chemical trench has partially collapse due to deterioration and truck traffic. The new H-20 traffic rated chemical trench shall be parallel to the existing trench. The chemical trench shall be either cast in place or precast concrete or polymer concrete with a minimum 28 day compressive strength of 4,000 psi. The chemical trench shall be coated to be impervious to 93% sulfuric acid. The new chemical trench covers and frames shall be Fibrelite® and rated for 40 ton traffic loads. The existing sulfuric piping shall remain in service until after the new chemical trench and piping has been commissioned for service and then shall be demolished. The roadway base and pavement shall be replaced where the existing chemical trench was removed and a spare 6" PVC sleeve with capped ends for future use shall be installed. Sulfuric acid pipe and containment pipe

size shall match existing piping size. The new sulfuric acid piping shall be suitable for continuous exposure to 93% sulfuric acid concentration and shall be Ultra Proline® E-CTFE Halar® (120 psi rating) manufactured by Asahi or approved equal. The secondary containment shall be ChemProline® Advanced Polyethylene manufactured by Asahi or approved equal. The secondary containment system shall have spacers (spiders) to adequately support the carrier pipe. All joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. Provide adequate safety measures for working on concentrated sulfuric acid with the existing system in operation. Unistrut shall be FRP within chemical trench. All anchors shall be 316 SS. Owner shall drain existing sulfuric acid system. Provide traffic barriers on both sides of the chemical trench during construction. Minimize shutdown of sulfuric acid piping to a single 8 hour period. Provide Asahi or approved equal pipe fusion machine and training for plant staff.

2. Caustic Piping and Pumps: The existing caustic room pumps and piping were constructed in 1997 and is scheduled for replacement. The caustic piping and secondary containment shall be replaced from the two (2) caustic tanks inside the chemical containment area to the caustic pump room and from the caustic pump room to the injection points for both Clearwell No. 1 and Clearwell No. 2 and to the Odor Scrubbers No. 1 and No.2. Design-Build Entity shall determine the appropriate size of the caustic piping. Carrier pipe and secondary containment system shall be suitable for continuous service with 50% caustic using ChemProline® HDPE manufactured by Asahi or approved equal with fused butt joints. Color coat the exterior exposed HDPE secondary containment or carrier pipe *yellow with green band for caustic chemical.* Provide adequate safety measures for working on concentrated caustic with the existing system in operation. The new piping shall generally be installed parallel to the existing caustic pipe which shall remain in service until the new piping is commissioned in phases. All caustic joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. The Design-Build Entity may propose alternate routes to minimize piping runs. If the new route requires new chemical trenches they shall have Fibrelite® covers and frames with minimum 25 ton rating in non-traffic areas and 40 ton rating for traffic areas. The chemical trench shall be either cast in place or precast concrete or polymer concrete with a minimum 28 day compressive strength of 4,000 psi. The chemical trench shall be coated to be impervious to 50% caustic. All piping shall be adequately supported to prevent sagging. Unistrut shall be FRP (within chemical containment areas) or 316 SS (outside of chemical containment areas). All anchors shall be 316 SS.

3. Install five (5) Owner furnished caustic pumps and calibration column in the existing caustic room: The Owner shall disconnect and re-connect the electrical for the pumps. Design-Build Entity shall furnish and install all piping and appurtenances. The piping shall be manifolded on the discharge side so that

there is one common spare and each of the pumps can be dedicated to either of the four (4) injection points (Clearwell No. 1 and No. 2 and Odor Scrubbers No.1 and No.2). The piping and associated manifold fittings with true-union valves shall be arranged similar to the existing sodium hypochlorite room. The new piping shall include a dual suction pipeline for redundancy with one suction line connected to the Owner furnished calibration column. Remove the existing 2-6" vent stacks and replace with new appropriately sized vent pipe and support to wall with 316SS pipe clamps and 316 SS or FRP unistrut. Provide Speakman 316SS eyewash and shower (including 316 SS accessories) inside the caustic room connecting to the existing eyewash water service outside the door. The new eyewash shall have a pressure switch for alarm. Furnish and install an overpressure valve for the positive displacement pumps which re-circulates back to the pump suction side. Provide a manual valve in the recirculation line so staff can check if the pump is in the recirculation mode. Avoid threaded joints whenever possible to prevent leaks and use butt welds. Provide true union valves for maintenance and replacement of equipment. The exposed carrier piping within the containment area shall have pipe labels (caustic) and flow arrows and be color coded. Each pump shall be labeled with its appropriate pump number.

During the pump and piping conversion the Owner shall provide caustic in totes as necessary. The work shall be sequenced with only one clearwell out of service at a time. The Design-Builder shall sequence work as needed for clearwell coatings which are being performed by others.

4. Sodium Hypochlorite Piping: Replace the sodium hypochlorite piping from the Chorine Pump Room to Odor Scrubber No. 2. Design-Build Entity shall determine the appropriate size of the caustic piping. Carrier pipe and secondary containment system shall be ChemProline® HDPE manufactured by Asahi or approved equal with fused butt joints. All joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. Color coat the exterior exposed HDPE secondary containment or carrier pipe *yellow for sodium hypochlorite*. All piping shall be adequately supported to prevent sagging. Unistrut shall be FRP (within chemical containment areas) or 316 SS (outside of chemical containment areas). All anchors shall be 316 SS.

5. Restore site to existing conditions.

PERMITS AND FEES

It shall be the Design-Build Entity's responsibility to secure all permits required to complete the work under this contract, except permits obtained by the County. The Design-Build Entity shall be responsible for all inspections and requirements to close-out the completed permits. The County shall pay all permit fees. The Design-Build Entity shall be responsible for all Business tax fees for work within the county or Municipalities.

SALVAGED MATERIALS

1. Scrap metal to be disposed of by the Design-Build Entity.
2. Non-metal waste such as concrete, PVC, fiberglass etc., to be hauled and legally disposed by Design-Build Entity.

ASSUMPTIONS

1. County will make available all existing record drawings as may be required to coordinate and complete this scope of services.
2. County will review all submittals and provide comments within one calendar week and notify Design-Build Entity of status.
3. Unless specifically stated, relocation of any existing utilities is not included in this scope of work.
4. A survey is not included. Soil borings will not be performed and no soil fortifications or support piles are included.
5. Existing acid piping will be re-used inside new acid trench.
6. Chlorine piping will be replaced from the end of the chemical trench, south side of Clearwell #2, to the injection point at Odor Scrubber #2.
7. Clearwell coatings are being performed by others.
8. During the pump and piping conversion the Owner shall provide caustic in totes as necessary.
9. Liquidated damages may be assessed at a rate of $1,000 per day up to Substantial completion and $500 per day from Substantial Completion until Final Completion.
10. Owner will provide five (5) caustic pumps and calibration columns.
11. County shall provide IP Addresses where required.
12. A permit is not required from Palm Beach County Health Department.

COMPENSATION

Compensation for this Work Authorization shall not exceed the Guaranteed Maximum Price of **$658,262.64** in accordance with the unit prices established in the Contract for construction services dated March 10, 2015, as approved by the Board of County Commissioners.

SBE/M-WBE PARTICIPATION

As described in the Contract (R 2015-0315), SBE/M-WBE participation is included in ATTACHMENT F under this Authorization. The attached Schedule 1 defines the SBE/M-WBE applied to this Authorization/Contract and Schedule 2 establishes the SBE/M-WBE contribution from each subcontractor (Letter of Intent to perform as an SBE/M-WBE).

ATTACHMENT - B

WORK AUTHORIZATION NO. 05

Palm Beach County Water Utilities Department
Optimization and Improvements Design-Build Contract

Rates for Liquidated Damages

Palm Beach County Water Utilities Department shall establish liquidated damages rates for each Work Authorization based on the dollar amount and time sensitivity of the project. The rates shall be as follows according to a criticality rating of 1 through 3 assigned to each Work Authorization by the Department as established below:

Moderately Important Project (Criticality 2): Liquidated Damages
$1,000 per day after Substantial Completion Date
$500 per day after Final Completion Date

ATTACHMENT – C

Public Construction Bond

ATTACHMENT - C

PUBLIC CONSTRUCTION BOND

BOND NUMBER:	SU1135614
BOND AMOUNT:	$658,262.64
CONTRACT AMOUNT:	$658,262.64
CONTRACTOR'S NAME:	Globaltech, Inc.
CONTRACTOR'S ADDRESS:	6001 Broken Sound Parkway NW Suite 610 Boca Raton, FL 33487
CONTRACTOR'S PHONE:	(561) 997-6433
SURETY COMPANY:	Arch Insurance Company
SURETY'S ADDRESS:	300 Plaza Three Jersey City, NJ 07311 201-743-4000
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:	Furnish and install replacement sodium hypochlorite piping, sulfuric acid piping and chemical trench, caustic and secondary containment, and install five owner furnished caustic pumps and calibration column, eye wash and shower.
COUNTY'S PROJECT No:	WUD 16-054, WA-05
PROJECT LOCATION:	PBCWUD Water Treatment Plant No. 3 (WTP 3), 13026 South Jog Road, Delray Beach, FL 33446, PCN 00-42-46-10-00-000-1020
LEGAL DESCRIPTION:	PCN 00-42-46-10-00-000-1020

PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

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 claimant as herein below defined, in the amount of

Dollars $658,262.64

Six hundred fifty eight thousand two hundred sixty two dollars and sixty four cents.

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 _____, 20____, entered into a contract with the County for:

Project Name: Water Treatment Plant No. 3 - Chemical Improvements
Project No.: WUD 16-054
Project Description: Furnish and install replacement sodium hypochlorite piping, sulfuric acid piping and chemical trench, caustic and secondary containment, and install five owner furnished caustic pumps and calibration column, eye wash and shower.
Project Location: PBCWUD Water Treatment Plant No. 3 (WTP 3), 13026 South Jog Road, Delray Beach, FL 33446, PCN 00-42-46-10-00-000-1020

in accordance with Design Criteria Drawings and Specifications prepared by:

Name of Design Firm: Globaltech, Inc.
Location of Firm: 6001 Broken Sound Parkway NW, Ste. 610, Boca Raton, FL 33487
Phone: (561) 997-6433
Fax: (561) 997-5811

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated _____, 20____, between Principal and County for the design and construction of WUD 16-054, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and

2. 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 contract; and

3. 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 contract; and

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

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

6. 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.

7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract 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.

8. 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.

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

Globaltech, Inc.

Principal _____ (Seal)

Witness

Print name

Print name

Title

Arch Insurance Company

Surety _____ (Seal)

Witness

Jackie Haynes

Print name

Print name

Brett Rosenhaus, Attorney-in-Fact

Title

NIELSON, ROSENHAUS & ASSOCIATES
A NIELSON HOOVER GROUP COMPANY

SMART. UNCOMPROMISING. TIMELY. EFFECTIVE. NIELSON, HOOVER & COMPANY, INC. SURETY SOLUTIONS THAT MAKE A DIFFERENCE.

April 19, 2016

Globaltech, Inc.
6001 Broken Sound Pkwy, Suite 610
Boca Raton, FL 33487

RE: Palm Beach County, as Obligee
Project: Water Treatment Plant No. 3 - Chemical Improvements, Project No. WUD 16-054
Bond No. SU1135614

Dear Ladies and Gentlemen:

Please supply us with the following information for the above captioned final bond:

Executed Contract with Date: X

This letter is also giving Globaltech, Inc. as Principal and/ or Palm Beach County, as Obligee, the authority to complete these bonds by dating the bonds with the contract date, execution and Power of Attorney dates. **The contract date MAY BE THE SAME date as the execution of the bond or PRIOR to the execution date of the bonds.**

We will forward this information onto your surety company upon our receipt. Please return as soon as possible.

Thank you for your cooperation.

Sincerely,

Brett Rosenhaus,
FL Resident Agent

8401 Lake Worth Road
Suite 2-231
Lake Worth, FL 33467
P: 561.713.1453
F: 561.713.1455
www.nielsonbonds.com

ATTACHMENT – D

Form of Guarantee

ATTACHMENT - D

FORM OF GUARANTEE

GUARANTEE FOR GLOBALTECH INC. (CONTRACTOR) AND ARCH INSURANCE COMPANY (SURETY)

We the undersigned hereby guarantee that the **Water Treatment Plant No. 3 - Chemical Improvements, WUD 16-054, WA-05.** 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 Substantial 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. 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.

DATED: _____
(notice of completion filing date)

SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY

Globaltech, Inc. _____(Seal)
(Contractor)

By: _____ Tray L Lyn
(Signature) (Printed Name)

Arch Insurance Company _____(Seal)
(Surety)

By: _____ Brett Rosenhaus, Attorney-in-Fact
(Signature) (Printed Name)

AIC 0000175029

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON BLUE BACKGROUND.

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 Mortgage, Note, Loan, Letter of Credit, Bank Deposit, 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:

Arthur Lawrence Colley of Charlotte, NC
Brett Rosenhaus of Lake Worth, FL
Charles D. Nielson, Charles J. Nielson and David R. Hoover 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 Ninety Million Dollars ($90,000,000.00).

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 September 15, 2011, 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 September 15, 2011:

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 September 15, 2011, 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 8th day of January, 2016.

Attested and Certified

Arch Insurance Company

Patrick K. Nails, Secretary

David M. Finkelstein, Executive Vice President

STATE OF PENNSYLVANIA SS

COUNTY OF PHILADELPHIA SS

I, Helen Szafran, a Notary Public, do hereby certify that Patrick K. Nails and David M. Finkelstein 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.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
HELEN SZAFRAN, Notary Public
City of Philadelphia, Phila. County
My Commission Expires October 3, 2017

Helen Szafran, Notary Public
My commission expires 10/03/2017

CERTIFICATION

I, Patrick K. Nails, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated January 8, 2016 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 David M. Finkelstein, 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_____.

Patrick K. Nails, 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 – Surety Division
3 Parkway, Suite 1500
Philadelphia, PA 19102

ATTACHMENT - E

Work Authorization Schedule of Bid Items

Globaltech
A DESIGN - BUILD COMPANY

Takeoff Worksheet

04/06/16

PBC Water Utilities Department
162000 PBC WTP 3 Caustic Piping Repl.

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
1 General Conditions								
Temporary Facilities		LOT						
Container Rental		EA	6	150.00	900.00	6.00	1.1500	1,097.10
Trailer Pick up/Delivery		EA	2	200.00	400.00	6.00	1.1500	487.60
Sanitary		MONTH	6	120.00	720.00	6.00	1.1500	877.68
Job Site Office Supplies		LOT	1	500.00	500.00	6.00	1.1500	609.50
Waste Hauling		LOT	4	600.00	2,400.00	6.00	1.1500	2,925.60
General Conditions		LOT						
Submittal Labor		HR	20	71.08	1,421.60		1.2992	1,846.94
O&M		HR	10	71.08	710.80		1.2992	923.47
Progress Meeting		HR	20	71.08	1,421.60		1.2992	1,846.94
Scheduling Labor		HR	40	71.08	2,843.20		1.2992	3,693.89
Construction PM		HR	250	71.08	17,770.00		1.2992	23,086.78
Construction Superintendent		HR	150	62.13	9,319.50		1.2992	12,107.89
Purchasing & Subcontracts		HR	50	71.08	3,554.00		1.2992	4,617.36
Safety		HR	10	71.08	710.80		1.2992	923.47
Safety Equipment		LOT	1	3,000.00	3,000.00	6.00	1.1500	3,657.00
Building Permits		HR	20	71.08	1,421.60		1.2992	1,846.94
				Bid Item Totals:	**47,093.10**			**60,548.16**
2 Sitework								
Mobilization								
Construction PM		HR	8	71.08	568.64		1.2992	738.78
Construction Superintendent		HR	8	62.13	497.04		1.2992	645.75
3 man Crew		CR-D	2	962.88	1,925.76		1.2992	2,501.95

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Locates		DAY	1	1,800.00	1,800.00		1.1000	1,980.00
Trenching, Backfilling, and Compaction		LOT						
New Chemical Trench		CR_D	5	1,166.16	5,830.80		1.2992	7,575.38
Demo Existing Tench, Backfill & Compaction		CR_D	4	1,166.16	4,664.64		1.2992	6,060.30
Stone/Fill		LOT	1	3,000.00	3,000.00	6.00	1.1500	3,657.00
Asphalt		TON	1	5,000.00	5,000.00		1.1000	5,500.00
Seed & Sod		LOT	1	2,000.00	2,000.00	6.00	1.1500	2,438.00
Installation		CR-D	2	962.88	1,925.76		1.2992	2,501.95
Startup Crew		CR-D	2	962.88	1,925.76		1.2992	2,501.95
Punch Out Crew		CR-D	2	962.88	1,925.76		1.2992	2,501.95
Demob								
Construction PM		HR	8	71.08	568.64		1.2992	738.78
Construction Superintendent		HR	8	62.13	497.04		1.2992	645.75
3 man Crew		CR-D	2	962.88	1,925.76		1.2992	2,501.95
				Bid Item Totals:	**34,055.60**			**42,489.49**
3 Concrete								
Concrete Cutting		CR-D	3	962.88	2,888.64		1.2992	3,752.92
Chemical Trench								
Form & Materials		LOT	1	5,000.00	5,000.00	6.00	1.1500	6,095.00
Cast In Place Concrete		LOT	60	185.00	11,100.00	6.00	1.1500	13,530.90
Concrete Pump		LOT	1	2,000.00	2,000.00	6.00	1.1500	2,438.00
Testing Services		LOT	1	1,500.00	1,500.00		1.1000	1,650.00
Installation		CR_D	16	1,166.16	18,658.56		1.2992	24,241.20
				Bid Item Totals:	**41,147.20**			**51,708.02**

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
5 Misc Metals								
SS/FRP Unistrut		LOT	20	120.00	2,400.00	6.00	1.1500	2,925.60
SS Unistrut Hardware		LOT	1	1,500.00	1,500.00	6.00	1.1500	1,828.50
SS Unistrut Pipe Clamp		LOT	1	2,000.00	2,000.00	6.00	1.1500	2,438.00
Misc Metals & Fasteners		LOT	1	1,500.00	1,500.00	6.00	1.1500	1,828.50
Fibrelite Trench Cover & Frame		LOT	1	58,432.50	58,432.50	6.00	1.1500	71,229.22
Installation		CR_D	5	1,166.16	5,830.80		1.2992	7,575.38
				Bid Item Totals:	**71,663.30**			**87,825.20**
9 Finishes								
Chemical Trench Coating		LOT						
Concrete Prep		CR-D	3	962.88	2,888.64		1.2992	3,752.92
Containment Coating		LOT	1	4,224.04	4,224.04	6.00	1.1500	5,149.10
Misc Application Material		LOT	1	500.00	500.00	6.00	1.1500	609.50
Installation		CR-D	6	962.88	5,777.28		1.2992	7,505.84
Pipe Coating & Labels								
Labels		LOT	1	2,000.00	2,000.00	6.00	1.1500	2,438.00
Coatings		LOT	1	1,000.00	1,000.00	6.00	1.1500	1,219.00
Misc Application Material		LOT	1	200.00	200.00	6.00	1.1500	243.80
3 man Crew		CR-D	5	962.88	4,814.40		1.2992	6,254.87
				Bid Item Totals:	**21,404.36**			**27,173.03**
15 Mechanical								
Halar Pipe & Fittings		LOT	1	5,000.00	5,000.00	6.00	1.1500	6,095.00
Chem Proline Pipe, fittings & Valves		LOT	1	107,848.80	107,848.80	6.00	1.1500	131,467.69
Fusion Rental Equipment for Halar		LOT	1	2,903.00	2,903.00	6.00	1.1500	3,538.76
Fusion Rental Equipment for Chem Pro (6X4)		LOT	1	2,620.00	2,620.00	6.00	1.1500	3,193.78
Fusion Equipment (Purchase)		LOT	1	13,742.08	13,742.08	6.00	1.1500	16,751.59

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price
Fusion Technician		DAY	25	1,200.00	30,000.00		1.1000	33,000.00
SCH 80 PVC/CPVC Pipe & Ftgs		LOT	1	6,000.00	6,000.00	6.00	1.1500	7,314.00
Misc Material for Clearwell Injection		LOT	1	2,000.00	2,000.00	6.00	1.1500	2,438.00
Eyewash/Shower & Accessories		EA	1	2,500.00	2,500.00	6.00	1.1500	3,047.50
Demo & Installation		CR_D	46	1,166.16	53,643.36		1.2992	69,693.45
				Bid Item Totals:	**226,257.24**			**276,539.77**
16 Electrical								
Electrical Sub		LOT	1	4,000.00	4,000.00		1.1000	4,400.00
				Bid Item Totals:	**4,000.00**			**4,400.00**
18 Rental Equipment								
Backhoe		WEEK	8	1,200.00	9,600.00	6.00	1.1500	11,702.40
Mini Excavator		WEEK	8	950.00	7,600.00	6.00	1.1500	9,264.40
Misc Tools, Equipment & Traffic Plates		LOT	1	4,000.00	4,000.00	6.00	1.1500	4,876.00
Equipment Fuel		LOT	150	4.00	600.00	6.00	1.1500	731.40
				Bid Item Totals:	**21,800.00**			**26,574.20**
50 Engineering/Record Drawing								
Engineering		LOT	1	63,112.04	63,112.04		1.0000	63,112.04
				Bid Item Totals:	**63,112.04**			**63,112.04**
60 Bonds, Insurance & Certifications								
Bonds & Certifications		LOT	1	12,868.18	12,868.18		1.1500	14,798.41
Builders Risk Insurance		LOT	1	2,690.71	2,690.71		1.1500	3,094.32
				Bid Item Totals:	**15,558.89**			**17,892.73**
				Grand Totals:	**546,091.73**			**658,262.64**

Description	Quote/Vendor	Unit	Quantity	Cost	Ext. Cost	Tax (%)	Markup*	Ext. Price

Note: CR-D=8Hrs
**Contract Markups Per Master Agreement:*
Materials = 1.15, Subcontractors = 1.1, Labor at Burden = 1.2992

ATTACHMENT - E

WA-05: WTP No. 3 - Chemical Improvements

Engineering Fee Summary

Task	Task Description	E6 $56.22	E5 $54.81	E4 $52.88	E3 $37.50	T4 $27.46	OS $17.00	Total Labor	*Sub-Consultant Services	Sub-Consultant
1	**Project Coordination**									
	Project Mangement/Coordination	2	4				8			
	Meet w/ staff to review project/collect info	2	8							
	Electrical/I&C	2	4		8		2			
	Prepare design/construction schedule		4	4	6					
	Subtotal Task 1	**6**	**20**	**4**	**14**	**0**	**10**	**$ 2,340.04**	**$ -**	
2	**60% Design**									
	Project Mangement/Coordination	4					8			
	Mechanical Design	4	10		8	10	2			
	Structural Design	2				2	1		$ 3,000.00	WGI
	Electrical/I&C Design	2			12	2	1			
	Drawings (CAD)	2	8	40		30				
	Specifications	4	8		8		2			
	Update schedule	2		6						
	Meet with staff and review	2	8	12						
	Subtotal Task 3	**22**	**34**	**58**	**28**	**44**	**14**	**$ 8,663.66**	**$ 3,000.00**	
5	**100% Design**									
	Project Mangement/Coordination	1	4				4			
	Mechanical Design	1	8			10	2			
	Structural Design	1				1	1			
	Electrical/I&C Design	1			6	1	1			
	Specifications	1	4		4		4			
	Update schedule			2						
	QC/QA	4	6	6			2			
	Subtotal Task 5	**9**	**22**	**8**	**10**	**12**	**14**	**$ 3,077.36**	**$ -**	
6	**SDC**									
	Project Mangement/Coordination	1	4	4			8			
	Site Visits	1	4	3	6					
	Submittals	1	4	4	4		2			
	Structural	1	4				1		$ 1,000.00	WGI
	Electrical/I&C	1	4		4		1			
	Record Drawings	1	4	16		20	2			
	Programming	1		2		2			$ 1,000.00	ADS
	Office Admin						40			
	Subtotal Task 6	**7**	**24**	**29**	**14**	**22**	**54**	**$ 5,289.62**	**$ 2,000.00**	
	Labor Hours	44	100	99	66	78	92			
	Labor Costs	$2,473.68	$5,481.00	$5,235.12	$2,475.00	$2,141.88	$1,564.00	$19,370.68		
	Labor Multiplier	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
	Labor Total	$7,421.04	$16,443.00	$15,705.36	$7,425.00	$6,425.64	$4,692.00	**$58,112.04**		
	Subconsultant Total								$ 5,000.00	
	TOTAL ENGINEERING FEE								$ 63,112.04	

Subconsultants:

ATTACHMENT - F

SBE Schedule 1 & Schedule 2

ATTACHMENT - F

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME: Water Treatment Plant No. 3 - Chemical Improvements

PROJECT No: WUD 16-054

NAME OF PRIME BIDDER: Globaltech, Inc.
CONTACT PERSON: Bernard P. Gandy, President
BID OPENING DATE: N/A

ADDRESS: 6001 Broken Sound Parkway NW, Suite 610
PHONE NO.: 561-997-6433 FAX NO.: 561-997-5811
DEPARTMENT: N/A

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

Name, Address and Telephone Number of Minority Contractor	(Check one or both Categories) Minority Business	Small Business	Dollar Amount Black	Hispanic	Women	Caucasian	Other (Please Specify)
Globaltech, Inc., (561) 997-6433 6001 Broken Sound Parkway NW, Suite 610, Boca Raton, FL 33487	☐	☑	$ -	$ -	$ -	$ 610,962.64	$ -
Energy Efficient Electric, Inc. 1600 Mercer Avenue, Suite 6 West Palm Beach, FL 33401 (561) 655-7211	☐	☑	$ -	$ -	$ -	$ 4,000.00	$ -
Ground Hound Detection Services, In 2930 NW Commerce Park Dr. #1 Boynton Bch., FL 33426 (561) 737-9800	☐	☑	$ -	$ -	$ -	$ 1,800.00	$ -
ADS Engineering, PLLC Pompano Bch 33064 (954) 415-7378	☐	☑	$ -	$ -	$ -	$ 1,000.00	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
PRIME CONTRACTOR TO COMPLETE:		TOTAL	$ -	$ -	$ -	$ 617,762.64	$ -

BID PRICE: $ 658,262.64 Total Value of SBE Participation: $ 617,762.64

NOTE:
1. The amount listed on this form for a Subcontractor must be supported by price or percentage included on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
3. M/WBE information is being collected for tracking purposes only.

ATTACHMENT - F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 16-054 PROJECT NAME Water Treatment Plant No. 3 - Chemical Improvements

TO: Globaltech, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise XX Minority Business Enterprise _____

Black ____ Hispanic ____ Women ____ Caucasian XX Other (Please Specify) _____

Date of Palm Beach County Certification: November 24, 2015

The undersigned is prepared to perform the following described work in connection with the above project **(Specify in detail, particular work items or parts thereof to be performed):**

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
1	Engineering	1	N/A	$ 58,112.04
2	Mechanical Construction	1	N/A	$ 534,957.87
3	Bonds & Certifications	1	N/A	$ 17,892.73

at the following price:
$610,962.64 (Six hundred ten thousand nine hundred sixty-two dollars and sixty-four cents)
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: NONE.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Globaltech, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: _____
(Signature)

Troy L. Lyn, P.E. / Vice President
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: April 15, 2016

ATTACHMENT - F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 16-054 PROJECT NAME Water Treatment Plant No 3 - Chemical Improvements

TO: Globaltech, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise XX Minority Business Enterprise _____

Black ____ Hispanic ____ Women ____ Caucasian XX Other (Please Specify) _____

Date of Palm Beach County Certification: September 4, 2015

The undersigned is prepared to perform the following described work in connection with the above project **(Specify in detail, particular work items or parts thereof to be performed)**:

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
1	Electrical Subcontracting	1	N/A	$ 4,000.00

at the following price:

$ 4,000.00 (Four thousand dollars and no cents)
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: NONE.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Energy Efficient Electric, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: _____
(Signature)

Rene Viau / Vice President
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: April 21, 2016

ATTACHMENT - F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 16-054 PROJECT NAME Water Treatment Plant No. 3 – Chemical Improvements

TO: Globaltech, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise XX Minority Business Enterprise _____

Black ____ Hispanic ____ Women ____ Caucasian XX Other (Please Specify) _____

Date of Palm Beach County Certification: November 15, 2013

The undersigned is prepared to perform the following described work in connection with the above project **(Specify in detail, particular work items or parts thereof to be performed):**

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
1	SDC Programming	1	N/A	$ 1,000.00

at the following price:

$,1,000.00 (One thousand dollars and no cents)
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: NONE.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

ADS Engineering, PLLC
(Print Name of SBE-M/WBE Subcontractor)

By: _____
(Signature)

Alexander Stojanovic / President
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: April 21, 2016

ATTACHMENT - F

SCHEDULE 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 16-054 PROJECT NAME Water Treatment Plant No. 3 – Chemical Improvements

TO: Globaltech, Inc.
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise XX Minority Business Enterprise _____

Black ____ Hispanic ____ Women ____ Caucasian XX Other (Please Specify) _____

Date of Palm Beach County Certification: August 18, 2014

The undersigned is prepared to perform the following described work in connection with the above project **(Specify in detail, particular work items or parts thereof to be performed):**

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
1	Utility Location Services	1	N/A	1,800.00

at the following price:

$1,800.00 (One thousand eight hundred dollars and no cents)
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: NONE.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Ground Hound Detection Services, Inc.
(Print Name of SBE-M/WBE Subcontractor)

By: _____
(Signature)

Sean Halsey
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: April 21, 2016

ATTACHMENT - G

AUTHORIZATION STATUS REPORT
April 15, 2016

SUMMARY AND STATUS OF AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Globaltech Project No.
	CONSULTANT SERVICE AUTHORIZATIONS					
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
			$0.00			
	Total CSAs		$0.00			
	WORK AUTHORIZATIONS					
WA-1	WTP 11 Degasifier Cleaning System	Approved	$1,051,189.81	4/21/15	WUD 14-073	
WA-1.1	WTP 11 Degasifier Cleaning System - Supplement 1	Approved	$135,714.04	2/09/16	WUD 14-073	
WA-2	WRWWTF Power Improvements - Phase 1	Approved	$598,998.02	9/01/15	WUD 14-050	
WA-2.1	WRWWTF - Alternative Power Improvements Phase 2 - Supplement 1	Pending			WUD 14-050	
WA-3	Improvement to the Pahokee 0.5 MG Elevated Water Storage Tank	Approved	$504,301.41	9/01/15	WUD 15-073	
WA-3.1	Improvement to the Pahokee 0.5 MG Elevated Water Storage Tank - Supplement 1	Pending			WUD 15-073	
WA - 4	WTP 9 - Permeate Flush	Pending				
WA - 5	WTP 3 - Chemical Improvements	Pending	$658,262.64		WUD 16-054	
	Total WAs		$2,948,465.92			
	Total CSAs + WAs		**$2,948,465.92**			

ATTACHMENT - H

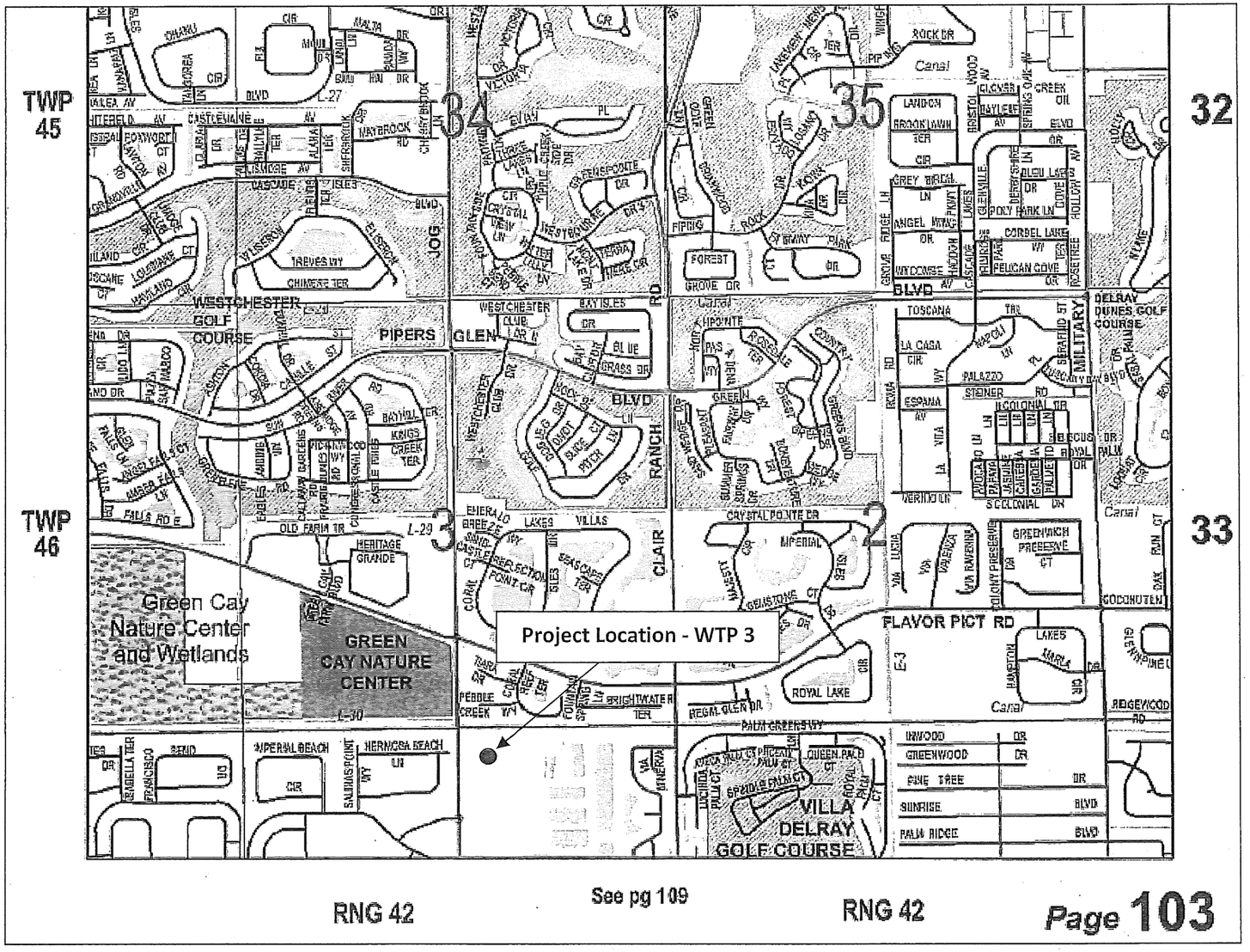
AUTHORIZATION STATUS REPORT
OPTIMIZATION AND IMPROVEMENTS DESIGN-BUILD CONTRACT

SUMMARY of SBE / M/WBE TRACKING

WUD 16-054 Water Treatment Plant No. 3 - Chemical Improvements

	Total
Current Proposal	
Value of Consultant Service Authorization	$0.00
Value of Work Authorization	$658,262.64
Value of CSA and WA	$658,262.64
Value of SBE Minority Letter of Intent	$617,762.64
Actual Percentages	93.84%
Signed / Approved Authorizations	
Total Value of Approved Consultant Service Authorization	$0.00
Total Value of Approved Work Authorization	$2,290,203.28
Total Value of CSAs and WAs	$2,290,203.28
Total Value of SBE Signed Subcontracts	$2,216,608.28
Actual Percentages	96.78%
Signed Authorizations Plus Current Proposal	
Total Value of Approved CSAs Plus Current CSA Proposal	$0.00
Total Value of Approved WAs Plus Current WA Proposal	$2,948,465.92
Total Value of Approved and Proposed CSAs and WAs	$2,948,465.92
Total Value of SBE Subcontracts and Letters of Intent	$2,834,370.92
Actual Percentages	96.13%
GOAL	75%

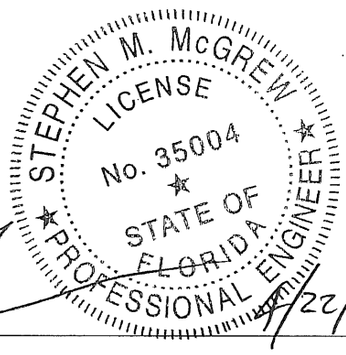
ATTACHMENT I
Location Map



ATTACHMENT - J

Design – Build Criteria Report

Design-Build Criteria
Water Treatment Plant No. 3
Chemical Improvements
Project No. WUD 16-054



7/22/16

Stephen M. McGrew, P.E., **Date**
Palm Beach County Water Utilities
8100 Forest Hill Blvd.
West Palm Beach, FL 33413

Design-Build Criteria
Water Treatment Plant No. 3
Chemical Improvements
Project No. WUD 16-054

PART 1 GENERAL REQUIREMENTS

1.1 Overview Information:

1.1.1. Location: Water Treatment Plant No. 3 (WTP 3) 13026 South Jog Road, Delray Beach, FL 33446, PCN 00-42-46-10-00-000-1020.

1.1.2. Survey information concerning the site: Owner will provide recent survey from WTP 3 and record drawings. Refer to Section 1.5 Site elevations, Lines, and Grades for Design-Build Entity requirements.

1.1.3. Interior space requirements: Interior work within the caustic room which is an active chemical area. Other work areas are outside.

1.1.4. Material quality standards: Adhere to current version of Palm Beach County Water Utility Department (PBCWUD) Minimum Design Standards and Approved Material List.

1.1.5. Schematic layouts: See 1.2 Design-Build Criteria descriptions.

1.1.6. Cost or budget estimates: $700,000.00.

1.1.7. Design and construction milestones:

1.1.7.1. 60% Design Completion 100 days after receipt of executed Work Authorization and notice to proceed with design. Procurement of large lead time equipment shall start after 60% design.

1.1.7.2. 100% Design Completion 160 days after receipt of executed Work Authorization and notice to proceed with design.

1.1.7.3. Substantial Construction Completion 365 Calendar Days after receipt of executed Work Authorization and notice to proceed with construction.

1.1.7.4. Final Construction Completion 60 Calendar Days after Substantial Construction Completion.

1.1.7.5. Liquidated damages for design and construction will apply as follows:

1) $1,000 per day past substantial completion date.
2) $500 per day past final completion date.

1.1.8. The following items must be complete (at a minimum) to achieve substantial completion:

1.1.8.1. Existing systems in place and operating as intended.
1.1.8.2. Commissioning and Testing of all new equipment completed.
1.1.8.3. O&M Manuals have been delivered to the Owner and equipment training is completed.
1.1.8.4. Release of applicable permits required to operate the facility.

1.1.9. Site development requirements: Not Applicable.

1.1.10. Provisions for utilities: Refer to Sections 1.3 Utilities and 1.7 Underground Utilities for Design-Build Entity requirements.

1.1.11. Storm water retention and disposal: Provide siltation barriers for all existing storm drainage catch basins impacted by construction activities.

1.1.12. Parking requirements: Only current Palm Beach County security badge holders can park inside the plant gate. 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.

1.1.13. Staging Area: Staging areas will be west of Clearwell No. 1.

1.1.14. Coordination: Design-Build Entity will need to coordinate its work activities with the Owner and other construction contractors performing work activities at this facility.

1.1.15. Shutdown Plan: A shutdown plan, developed in conjunction with the OWNER must be prepared by the Design-Build Entity for any planned plant or process shutdowns shall be submitted to the Owner for review and approval at least 30 days prior to commencing any of these work activities.

1.1.16. Reference Documents: The following documents shall be used to develop signed and sealed Construction Documents.

1.1.16.1 Palm Beach County Water Utility Department (PBCWUD) Minimum Design Standards
1.1.16.3 Palm Beach County Water Utility Department (PBCWUD) Approved Materials List

1.2 Design-Build Criteria

1.2.1 Sulfuric Acid Piping: Furnish and install replacement sulfuric acid piping and chemical trench across the roadway south of the chemical containment area. The existing chemical trench has partially collapse due to deterioration and truck traffic. The new H-20 traffic rated chemical trench shall be parallel to the existing trench. The chemical trench shall be either cast in place or precast concrete or polymer concrete with a minimum 28 day compressive strength of 4,000 psi. The chemical trench shall be coated to be impervious to 93% sulfuric acid. The new chemical trench covers and frames shall be Fibrelite® and rated for 40 ton traffic loads. The existing sulfuric piping shall remain in service until the new chemical trench and piping is ready for transfer of piping (existing piping maybe re-used) and then the existing damaged chemical trench shall be demolished. The roadway base and pavement shall be replaced where the existing chemical trench was removed and a spare 6" PVC sleeve with capped ends for future use shall be installed. Sulfuric acid pipe and containment pipe size shall match existing piping size. The new sulfuric acid piping shall be suitable for continuous exposure to 93% sulfuric acid concentration and shall be Ultra Proline® E-CTFE Halar® (120 psi rating) manufactured by Asahi or approved equal. The secondary containment shall be Polypropylene (pp) Pro45 manufactured by Asahi or approved equal. The secondary containment system shall have spacers (spiders) to adequately support the carrier pipe. All joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. Provide adequate safety measures for working on concentrated sulfuric acid with the existing system in operation. Unistrut shall be FRP within chemical trench. All anchors shall be 316 SS. Owner shall drain existing sulfuric acid system. Provide traffic barriers on both sides of the chemical trench during construction. Minimize shutdown of sulfuric acid piping to a single 8 hour period unless approved by WTP 3 Superintendant. Provide Asahi or approved equal pipe fusion machine and training for plant staff.

1.2.2 Caustic Piping and Pumps: The existing caustic room pumps and piping were constructed in 1997 and is scheduled for replacement. The caustic piping and secondary containment shall be replaced from the two (2)

caustic tanks inside the chemical containment area to the caustic pump room, inside the caustic pump room, and from the caustic pump room to the injection points for both Clearwell No. 1 and Clearwell No. 2 and to the Odor Scrubbers No. 1 and No.2. Design-Builder shall determine the appropriate size of the caustic piping. Carrier pipe and secondary containment system shall be suitable for continuous service with 50% caustic using ChemProline® HDPE manufactured by Asahi or approved equal with fused butt joints. Color coat the exterior exposed HDPE secondary containment or carrier pipe *yellow with green band for caustic chemical*. Provide adequate safety measures for working on concentrated caustic with the existing system in operation. The new piping shall generally be installed parallel to the existing caustic pipe which shall remain in service until the new piping is commissioned and shall be phased to maintain one clearwell in service at all times. All caustic joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. The Design-Builder may propose alternate routes to minimize piping runs. If the new route requires new chemical trenches they shall have Fibrelite® covers and frames with minimum 25 ton rating in non-traffic areas and 40 ton rating for traffic areas. The chemical trench shall be either cast in place or precast concrete or polymer concrete with a minimum 28 day compressive strength of 4,000 psi. The chemical trench shall be coated to be impervious to 50% caustic. All piping shall be adequately supported to prevent sagging. Unistrut shall be FRP (within chemical containment areas) or 316 SS (outside of chemical containment areas). All anchors shall be 316 SS.

Install five (5) Owner furnished caustic pumps and calibration column in the existing caustic room. The Owner shall disconnect and re-connect the electrical for the pumps. Design-Builder shall furnish and install all piping and appurtenances. The piping shall be manifolded on the discharge side so that there is one common spare and each of the pumps can be dedicated to either of the four (4) injection points (Clearwell No. 1 and No. 2 and Odor Scrubbers No.1 and No.2). The piping and associated manifold fittings with true-union valves shall be arranged similar to the existing sodium hypochlorite room The new piping shall incude a dual suction pipeline for redundancy with one suction line connected to the Owner furnished calibration column. Remove the existing 2-6" vent stacks and replace with new appropriately sized vent pipe and support to wall with 316SS pipe clamps and 316 SS or FRP unistrut. Provide Speakman 316SS eyewash and shower (including 316 SS accessories) inside the

caustic room connecting to the existing eyewash water service outside the door. The new eyewash shall have a pressure switch for alarm.. Furnish and install an overpressure valve for the positive displacement pumps which re-circulates back to the pump suction side. Provide a manual valve in the recirculation line so staff can check if the pump is in the recirculation mode. Avoid threaded joints whenever possible to prevent leaks and use butt welds. Provide true union valves for maintenance and replacement of equipment. The exposed carrier piping within the containment area shall have pipe labels (caustic) and flow arrows and be color coded. Each pump shall be labeled with its appropriate pump number.

During the pump and piping conversion the Owner shall provide caustic in totes as necessary. The work shall be sequenced with only one clearwell out of service at a time. The Design-Builder shall sequence work as needed for clearwell coatings which are being performed by others.

1.2.3 Sodium Hypochlorite Piping: Replace the above grade sodium hypochlorite piping from the exit point of the chemical trench to Odor Scrubber No. 2. Design-Builder shall determine the appropriate size of the caustic piping. Carrier pipe and secondary containment system shall be ChemProline® HDPE manufactured by Asahi or approved equal with fused butt joints. All joints shall be butt fused by a manufacturers trained or certified operator for the fusion machine. Color coat the exterior exposed HDPE secondary containment or carrier pipe *yellow for sodium hypochlorite*. All piping shall be adequately supported to prevent sagging. Unistrut shall be FRP (within chemical containment areas) or 316 SS (outside of chemical containment areas). All anchors shall be 316 SS.

1.3 Owner Furnished Equipment

1.3.1 Five (5) caustic pumps and calibration columns.

1.5 Permits and Fees

It shall be the Design-Build Entity's responsibility to determine which permits are necessary 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 shall 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 Design-Build Entity shall notify the County of the permit fees and allow three (3) weeks for a check for the permit fee(s) to be issued to the Design-Build Entity. All permit documents shall be signed and sealed by a Florida

registered Professional Engineer. Design-Builder shall be responsible for meeting all necessary permit requirements.

1.6 Utility Services

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.

1.7 Tests

The Design-Build Entity shall pay for all required tests. Labor, equipment and consumables for tests and testing shall be the responsibility of the Design-Build Entity. Water required for pressure/leakage tests shall be furnished by the Owner.

1.8 Site elevations, Lines, and Grades

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.

1.9 Work Area

The Design-Build Entity shall confine his activities to the site(s) designated by Owner for the work or staging areas for materials storage. 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.

The Design-Build Entity shall protect their work. When required to complete the work, the Design-Build Entity shall maintain of suitable lighting to maintain a safe

working environment. Work performed outside of the established working hours requires the permission from the owner. The Design-Build Entity shall also comply with all laws or ordinances covering the protection of such work and the safety measures to be employed therein. The Design-Build Entity shall carry out his work so as not to deny access to private property. All utility access manholes, valves, and fire hydrants shall be kept accessible at all times. 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 is responsible for the security of their work, equipment, and material at all times.

1.10 Underground Utilities

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 in order that necessary changes may be made. Where fences, walls, or other man made obstructions exist illegally in the public right-of-way, the Owner will have them removed upon adequate prior notice by the Design-Build Entity.

The Design-Build Entity shall notify "SUNSHINE STATE" at 1 (800)-432 4770 at least forty-eight (48) hours prior to performing any excavating activities. Evidence of such notice shall be furnished to the Owner prior to excavating. Design-Build Entity is responsible for all utility locates within the project site and will provide an independent locate service for all PBC WUD buried pipelines and electrical.

Design of all underground piping shall comply with the Palm Beach County Water Utilities Minimum Engineering Standards (latest edition), General Electrical Design Requirements, Palm Beach County Wellfield Protection Ordinance, Environmental Control Rule 1 (wastewater), Environmental Control Rule II (water), and applicable provisions of the Florida Administrative Code. Design submittal requirements shall be in accordance with the Palm Beach County Water Utilities Design Manual.

1.11 Maintenance of Operations

The Design-Build Entity's activities or any partial plant shutdowns shall minimize disruption to the treatment facilities and conveyance systems. 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 existing valves, gates and equipment shall be performed by Owner.

1.12 Plant Shutdowns

Owner shall approve all shutdowns. If, in the opinion of 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 Owner. Owner shall be provided a minimum of 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.

A shutdown work plan shall be prepared by the Design-Build Entity and submitted to the Owner for review 7 calendar days prior to the start of the shutdown event. The shutdown work plan shall include descriptions of the following at a minimum:

- Facilities to be shutdown,
- Duration of shutdown,
- Work to be conducted during shutdown (work sequence and activity descriptions),
- Special requirements and constraints (night work, temporary works, confined space etc.),
- Startup sequencing for facilities that have been shutdown.

1.13 Project Coordination

Design-Build Entity shall be solely responsible for coordination of all of the proposed work. He 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 ensure 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 representative of his organization at the site at all time during performance of the work who may be reached at any time while work is in progress.

1.14 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.

1.14.1 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
- 90 percent submittal
- Issue for Construction submittal
- Each required permitting submittal

1.14.2 Construction Schedules

The basics of the construction schedule submittals are outlined below.

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

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 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).

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. Specific schedules (e.g., 90 days to Completion, 4-week look-ahead) shall be provided.

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
- Substantial Completion
- Commissioning Startup and Performance Testing
- Final Completion

1.14.3 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.

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.

All chemical piping shall have no leaks or weeping. Safety shower with alarm shall be tested. WTP 3 staff will assist with the startup of the caustic pumps.

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, chemicals, 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 shall 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 shall assume responsibility for operation of the equipment upon completion of start-up and placing equipment in operation.

2.2 Minimum Start-Up Requirements

2.2.1. The Design-Build Entity shall inspect for cleanliness, and clean and remove all foreign materials, verify alignment, replace defective bearings and those, which run rough or noisy, and grease as necessary in accordance with manufacturer's recommendations.

2.2.2. The Design-Build Entity shall vent gasses trapped in any part of systems and verify that liquids are drained from all parts of gas or air systems.

2.2.3. The Design-Build Entity shall check glands and seals for cleanliness and 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. The Design-Build Entity shall inspect both hand and automatic control valves, clean bonnets and stems; tighten packing glands

to assure no leakage, but permit valve stems to operate without galling; replace packing on any valve that continues to leak; remove and repair bonnets that leak; and coat packing gland threads and valve stems with a surface preparation of "Moly-Cote" or "Fel-Pro" after cleaning. The Design-Build Entity shall verify that control valve seats are free from foreign material and are properly positioned for intended service.

2.2.5. 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.

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 (COPI) for equipment from the applicable equipment supplier/manufacturer. COPIs will be provided to the Owner or the Owner's Representative prior to commencing any commissioning, startup and testing activities. COPIs will be included in the O&M Manual.

2.4. Instruction of Operations and Maintenance Personnel

Design-Build Entity shall provide services of manufacturer's operation and maintenance training specialists to instruct Owner's personnel in recommended operation and maintenance procedures for products and equipment. Manufacturer's representative shall provide a combination of classroom and field training activities. All training shall be conducted at the site, unless otherwise stated in the Specifications. Owner reserves the right to videotape training sessions.

Training of Owner's personnel shall commence only after acceptable preliminary operation and maintenance data has been provided and, equipment has been started and placed into operation, equipment and system startup and performance testing has been completed. The Design-Build Entity shall provide written documentation and checklists outlining important training items, and provide spreadsheets needed to document new processes for input by operators.

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 (See Summary of Work)

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 written consent of 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, including but not limited to cabling system and generator pad. Written documentation shall be provided indicating compliance with Florida Trench Safety Act.

All remaining spoil piles shall be removed from site.

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.

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.

The use of explosives will not be permitted.

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.

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.

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 to prevent galling. All anchor bolts shall be 316 stainless steel. Stanchions, pipe supports, equipment bases, braces, unistrut and straps shall be 316 stainless steel or aluminum. Dissimilar metal protection shall be 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 final sizing and selection of all equipment, pipe, 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.

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; and
- Signed and sealed calculations for pipe support systems.

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, which 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 coated aluminum 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. 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.

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 start up of the various unit processes.

System supplier shall provide all test equipment necessary to perform the 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 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 pan 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. Demolition Plan
- 4.1.2. Shutdown Plan
- 4.1.3. Commission Plan for startup and testing activities
- 4.1.4. 60% Drawings
- 4.1.5. 90% Drawings

4.1.6. 100% Drawings
4.1.7. Shop Drawings including wind load calculations
4.1.8. O&M Manuals
4.1.10.1. Certificate of Proper Installation (COPI)
4.1.10.2. Record drawings in PDF and CAD
4.1.9. Schedules
4.1.15.1. Baseline Schedule
4.1.15.2. Initial 30-day Plan of Operation
4.1.15.3. Four week Look Ahead Schedules
4.1.15.4. Minimum monthly schedule updates
4.1.15.5. Lightning Protection System
4.1.15.6. 90-days to Completion Schedule
4.1.10. Permits
4.1.11. Warranty

ATTACHMENT - K

Vendor Quotes

QUOTATION

Ryan Herco Flow Solutions

Billing Inquiries: (305) 599-22

Bid Number: 6198389
Quote Date: 02/05/2016
Entered By: Kevin Wagner - 025
Description: GLOBALTECH PBC WTP3 CHEMPROLINE

Sell To:
Globaltech Inc
6001 Broken Sound Pkwy N W
Suite 610

Boca Raton, FL 33487

Ship To:
Globaltech Inc
6001 Broken Sound Pkwy N W
Suite 610

Boca Raton, FL 33487

Account Number: 086619
Contact Name:
Contact Phone: (561) 997-6433

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
	FROM TANK TO PUMP SUCTION				
070.185283	4"X6" HDPE DUAL CONTAINMENT PIPE SOLD IN 5 METER STICKS	LTH	20	829.6000	16,592.00
070.187110	HDPE LS 90 EL DBL CONT 4" 4 X 6 90 DEGREE ELBOW POLYFLO PE	EA	20	424.8000	8,496.00
070.187109	HDPE 45 EL DBL CONT 4"	EA	8	380.0000	3,040.00
070.187293	HDPE END TERM 4" X 6"	EA	1	352.0000	352.00
070.199998	PE100-RC REDUCER 4"X3" SDR11 BUT	EA	1	355.0000	355.00
4700A1030	PE100-RC PIPE 3" SDR11 5MTR	EA	9	192.7500	1,734.75
070.195345	PE100-RC 90 EL 3" SDR11 BUTT FUSION	EA	6	99.0000	594.00
070.187301	BUTT FUSION	EA	22	150.0000	3,300.00
5272.030	PVC/EPDM DIA VLV 3" FLG	EA	2	650.0500	1,300.10
070.201715		EA	4	180.0000	720.00
2112.030	PPG BACKING FLG RING 3" PP-FRP COATED OVER STEEL INSERT. FOR USE WITH STUB ENDS.	EA	4	52.5000	210.00
070.195347	PE100-RC REDUCER 3"X2" SDR11 BUT	EA	26	285.0000	7,410.00
4706A249	PE100-RC RDC BUSH 2x1" SDR7 *THE 2 FITTINGS ABOVE MAKE UP A 3" X 1" REDUCTION	EA	26	53.2500	1,384.50
/07102267902	5816010101 PVC/EPDM TU B VLV 1" CHEM PROLINE BUTT FUSED ENDS	EA	20	157.1400	3,142.80
	FROM PUMP TO OUTSIDE BLDG				
/07102267904	5816010101 PVC/EPDM TU B VLV 1" CHEM PROLINE BUTT FUSED ENDS	EA	60	157.1400	9,428.40
070.213790	PE100-RC SDR11 BUTT TEE 1" BLK LONG	EA	30	21.0000	630.00
4702A2010	PE100-RC 1" 90 EL B-FUS SDR11	EA	20	25.0000	500.00
4707A010	PE100-RC UNION 1" SDR7 SOCKET FUSION	EA	20	66.7500	1,335.00
/07102269441	1" BACKPRESSURE/RELIEF VALVE STRAIGHT/INLINE WITH BUTT/IR ENDS CHEMPROLINE 588601110 EPDM	EA	5	798.5100	3,992.55
/07102269443	CHEMPROLINE DIAPHRAGM GAUGE GUARD PTFE/FKM 1/2" SPIGOT 582414005	EA	5	220.1500	1,100.75
5335.100	PRM PRESS GAUGE 100 PSI 2.5"FACE ALL STAINLESS STEEL, GLYCERINE- FILLED, 1/4" LOWER MOUNT	EA	5	53.9000	269.50

DMPRTBID

QUOTATION

Ryan Herco Flow Solutions

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Bid Number: 6198389
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Description: GLOBALTECH PBC WTP3 CHEMPROLINE

Sell To:
Globaltech Inc
6001 Broken Sound Pkwy N W
Suite 610

Boca Raton, FL 33487

Ship To:
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Boca Raton, FL 33487

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Contact Phone: (561) 997-6433

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
	1/4" NPT LOWER MOUNT GLYCERINE FILLED				
4706A130	PE100-RC RDC BUSH 1x1/2" SDR7 SOCKET FUSION	EA	5	12.0000	60.00
4700A1010	PE100-RC PIPE 1" SDR11 5MTR	EA	16	81.0000	1,296.00
070.193590	HD PE TREMINATION DBL CONT 1" POLYFLO PE 1 X 1.5 END TERM FTG	EA	3	165.0000	495.00
/07102269444	HDPE TERMINATION DBL CONT 1" POLYFLO PE 1 X 1.5 END TERM FTG WITH TAP 587860211	EA	1	268.6600	268.66
	FROM PUMP TO SCRUBBER 1				
26065.415	POLY-FLO PE 90 EL 3-PC 1" X 1.5"	EA	5	140.0000	700.00
/07102268069	587855211 1X1-1/2 TERM FITTING	EA	1	165.0000	165.00
4706A130	PE100-RC RDC BUSH 1x1/2" SDR7 SOCKET FUSION	EA	1	12.0000	12.00
070.195820	1 X 1.5" PF PE-RC PIPE 11X17 5M LT 5 METER / 16.4' LENGTH	EA	4	275.0000	1,100.00
4700A7005	PE100-RC PIPE 1/2" SDR7 5MTR	EA	2	31.5000	63.00
4703A005	PE100-RC 45 EL 1/2" SDR7 SOCKET FUSION	EA	4	11.2500	45.00
4702A005	PE100-RC 90 EL 1/2" SDR7 SOCKET FUSION	EA	4	9.7500	39.00
/07102268115	PVC/EPDM TU B VLV 1/2" CHEM PRO 5816010051 WITH BUTT FUSE ENDS	EA	1	96.1900	96.19
4707A005	PE100-RC UNION 1/2" SDR7 SOCKET FUSION	EA	1	71.0000	71.00
4745A005	PE100-RC MALE ADPT 1/2" SDR7 SOCKET FUSION	EA	1	16.5000	16.50
4704A005	PE100-RC CPLG 1/2" SDR7	EA	1	9.7500	9.75
	FROM PUMP TO SCRUBBER 2				
/07102268020	587863211 1X1-1/2 POLY FLOW 90DE	EA	16	195.0000	3,120.00
070.206481	1 X 1.5" PE DBL 45 DEG POLYFLO 587870211	EA	4	75.0000	300.00
/07102268027	587855211 1X1-1/2 TERM FITTING	EA	1	165.0000	165.00
4706A130	PE100-RC RDC BUSH 1x1/2" SDR7	EA	1	12.0000	12.00
070.195820	1 X 1.5" PF PE-RC PIPE 11X17 5M LT 5 METER / 16.4' LENGTH	EA	20	285.0000	5,700.00
4700A1010	PE100-RC PIPE 1" SDR11 5MTR	EA	2	81.0000	162.00
4700A7005	PE100-RC PIPE 1/2" SDR7 5MTR	EA	2	31.5000	63.00
/07102269447	1/2" PRESSURE SUSTAIN VALVE	EA	1	574.6300	574.63

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Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
	STRAIGHT/INLINE WITH BUTT/IR ENDS CHEMPROLINE 588601105 EPDM				
/07102268118	PVC/EPDM TU B VLV 1/2" CHEM PRO 5816010051 W/BUTT FUSE ENDS	EA	1	96.1900	96.19
4702A005	PE100-RC 90 EL 1/2" SDR7 SOCKET FUSION	EA	4	9.7500	39.00
/07102268056	581244010 1"CHEM PRO BUTT 45	EA	4	18.0000	72.00
4702A2010	PE100-RC 1" 90 EL B-FUS SDR11	EA	4	25.0000	100.00
/07102268031	5816010101 1"PVC/CHEM PRO/BUTT BALL VALVE	EA	1	92.2500	92.25
4707A010	PE100-RC UNION 1" SDR7 SOCKET FUSION	EA	1	66.7500	66.75
4745A005	PE100-RC MALE ADPT 1/2" SDR7 SOCKET FUSION	EA	1	16.5000	16.50
4704A005	PE100-RC CPLG 1/2" SDR7	EA	1	9.7500	9.75
4745A005	PE100-RC MALE ADPT 1/2" SDR7 SOCKET FUSION-REQ'D FOR MALE AD	EA	1	16.5000	16.50
/07102269449	CHEMPROLINE DIAPHRAGM GAUGE GUARD PTFE/FKM 1/2" SPIGOT 582414005	EA	1	220.1500	220.15
5335.100	PRM PRESS GAUGE 100 PSI 2.5"FACE ALL STAINLESS STEEL, GLYCERINE-FILLED, 1/4" LOWER MOUNT 1/4" NPT LOWER MOUNT GLYCERINE FILLED FROM TRENCH TO SCRUBBER 2 BLEACH COMPATIBLE	EA	1	53.9000	53.90
/07102268120	581135010 1" STUB END	EA	1	29.8500	29.85
2112.010	PPG BACKING FLG RING 1" PP-FRP COATED OVER STEEL INSERT. FOR USE WITH STUB ENDS.	EA	1	26.2500	26.25
3655G010	CPVC VAN STONE FLG N80 1" SLOANE 3 PARTS ABOVE SHOULD BE SUFFIC-IENT TO TRANSITION FROM 1" CPVC PIPE TO 1" CHEMPROLINE PIPE USING FLANGES ON BOTH SIDES	EA	1	6.4200	6.42
26065.415	POLY-FLO PE 90 EL 3-PC 1" X 1.5"	EA	10	150.0000	1,500.00
/07102268026	587855211 1X1-1/2 TERM FITTING	EA	2	165.0000	330.00
070.195820	1 X 1.5" PF PE-RC PIPE 11X17 5M LT 5 METER / 16.4' LENGTH	EA	7	255.0000	1,785.00

DMPRTBID

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Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
4700A1010	PE100-RC PIPE 1" SDR11 5MTR	EA	2	51.0000	102.00
/07102269450	1" PRESSURE SUSTAIN VALVE STRAIGHT/INLINE WITH BUTT/IR ENDS CHEMPROLINE 588600110 VITON	EA	5	798.5100	3,992.55
/07102268035	5812130101 PVC/FKM 1"BUTT END CHECK VLV,CHEM PRO	EA	1	162.4500	162.45
4702A2010	PE100-RC 1" 90 EL B-FUS SDR11	EA	6	25.0000	150.00
/07102268037	5816050101/1600018 PVC/FKM 1" CHEM PRO BUTT BALL VLV/VENTED	EA	1	151.0500	151.05
4707A010	PE100-RC UNION 1" SDR7 SOCKET FUSION	EA	1	66.7500	66.75
4745A010	PE100-RC MALE ADPT 1" SDR11 SOCKET FUSION	EA	1	24.7500	24.75
4704A010	PE100-RC CPLG 1" SDR7 SOCKET FUSION-REQ'D FOR MALE AD FROM PUMP TO CLEARWELL 1	EA	1	14.2500	14.25
26065.415	POLY-FLO PE 90 EL 3-PC 1" X 1.5"	EA	15	150.0000	2,250.00
070.206481	1 X 1.5" PE DBL 45 DEG POLYFLO 587870211	EA	4	75.0000	300.00
/07102268049	587855211 TERM FITT 1 X 1-1/5	EA	1	165.0000	165.00
070.195820	1 X 1.5" PF PE-RC PIPE 11X17 5M LT 5 METER / 16.4' LENGTH	EA	7	255.0000	1,785.00
4700A1010	PE100-RC PIPE 1" SDR11 5MTR	EA	3	81.0000	243.00
/07102269451	1" PRESSURE SUSTAIN VALVE STRAIGHT/INLINE WITH BUTT/IR ENDS CHEMPROLINE 588601110 EPDM	EA	1	798.5100	798.51
4702A2010	PE100-RC 1" 90 EL B-FUS SDR11	EA	15	25.0000	375.00
/07102268057	581244010 1"CHEM PRO 45 BUTT	EA	4	18.0000	72.00
070.213790	PE100-RC SDR11 BUTT TEE 1" BLK LONG	EA	6	21.0000	126.00
/07102268059	5816010101 1"PVC/EPDM BALL VLV W/CHEM PRO BUTT ENDS	EA	6	156.8500	941.10
4707A010	PE100-RC UNION 1" SDR7 SOCKET FUSION	EA	2	66.7500	133.50
4706A130	PE100-RC RDC BUSH 1x1/2" SDR7	EA	1	12.0000	12.00
/07102269453	CHEMPROLINE DIAPHRAGM GAUGE GUARD PTFE/FKM 1/2" SPIGOT 582414005 FROM PUMP TO CLEARWELL 2	EA	1	220.1500	220.15
26065.415	POLY-FLO PE 90 EL 3-PC 1" X 1.5"	EA	12	150.0000	1,800.00

DMPRTBID

QUOTATION

Ryan Herco Flow Solutions

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Account Number: 086619
Contact Name:
Contact Phone: (561) 997-6433

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
070.206481	1 X 1.5" PE DBL 45 DEG POLYFLO 587870211	EA	4	75.0000	300.00
/07102268070	587855211 1X1-1/2 TERM FITT "	EA	1	165.0000	165.00
070.195820	1 X 1.5" PF PE-RC PIPE 11X17 5M LT 5 METER / 16.4' LENGTH	EA	20	285.0000	5,700.00
4700A1010	PE100-RC PIPE 1" SDR11 5MTR	EA	3	81.0000	243.00
/07102269454	1" PRESSURE SUSTAIN VALVE STRAIGHT/INLINE WITH BUTT/IR ENDS CHEMPROLINE 588601110 EPDM	EA	1	798.5100	798.51
4702A2010	PE100-RC 1" 90 EL B-FUS SDR11	EA	10	25.0000	250.00
/07102268075	581244010 1"CHEM PRO 45 BUTT	EA	4	18.0000	72.00
070.213790	PE100-RC SDR11 BUTT TEE 1" BLK LONG	EA	6	21.0000	126.00
/07102268076	5816010101 1"PVC/EPDM BALL VLV W/CHEM PRO BUTT ENDS	EA	6	157.1400	942.84
4707A010	PE100-RC UNION 1" SDR7 SOCKET FUSION	EA	2	66.7500	133.50
4704A010	PE100-RC CPLG 1" SDR7	EA	1	14.2500	14.25
4706A130	PE100-RC RDC BUSH 1x1/2" SDR7	EA	1	12.0000	12.00
/07102269455	CHEMPROLINE DIAPHRAGM GAUGE GUARD PTFE/FKM 1/2" SPIGOT 582414005	EA	1	220.1500	220.15
5335.100	PRM PRESS GAUGE 100 PSI 2.5"FACE ALL STAINLESS STEEL, GLYCERINE- FILLED, 1/4" LOWER MOUNT 1/4" NPT LOWER MOUNT GLYCERINE FILLED	EA	1	53.9000	53.90
	PRICES ARE FOB FACTORY LEAD TIME: 4 - 6 WEEKS TO SHIP COMPLETE ARO PRICES VALID FOR 60 DAYS NON-CANCELLABLE/NON-RETURNABLE				
	---- Package Subtotal: 107,848.80				

Subtotal: 107,848.80

DMPRTBID

QUOTATION

Ryan Herco Flow Solutions

Billing Inquiries: (305) 599-22

Page: 1 of 1
Bid Number: 6201161
Quote Date: 02/12/2016
Entered By: John Asha - 031
Description: PBC3 WELD MACH & SITE SVC

Sell To:
Globaltech Inc
6001 Broken Sound Pkwy N W
Suite 610

Boca Raton, FL 33487

Ship To:
Globaltech Inc
6001 Broken Sound Pkwy N W
Suite 610

Boca Raton, FL 33487

Account Number: 086619
Contact Name:
Contact Phone: (561) 997-6433

Note: The following does not include Shipping & Handling, Tax, or other applicable charges.

Product #	Description/Notes	Uom	Qty	Price	Total
/07102269586	PER DAY CHARGE FOR ASAHI TECH TO PROVIDE ONSITE SERVICES - JOHN GALVIN.	EA	1	1,200.0000	1,200.00
3315.700	PROWELD B-FUS WELDING UNIT PROWELD SHOP 4 MINIPLAST (110) R INCLUDES WELDING MACHINE, PLANER HEATING ELEMENT, HOLDER, FLANGE ADAPTER, 4" CLAMPS, 1/2" - 3" INSERTS, 1X2 & 2X3 POLY-FLO INSERTS. ASAHI MINIPLAST SHOP 4 TO BE USED FOR ALL BUTT WELDING OF 1" AND LARGER SINGLE AND DBL WALL ASAHI HDPE P&F, EXCEPT FOR 4X6 POLYFLO, TO BECOME THE PROPERTY OF THE COUNTY AFTER IN-STALL IN COMPLETE	EA	1	12,524.3900	12,524.39
2102.100	PROWELD S-FUS HAND WELDER 2" ASAHI HANDHELD SOCKET TOOL FOR 1/2" SOCKET WELDS	EA	1	861.5900	861.59
070.190013	ASAHI PREP SCRAPER TOOL 1/2" *REQUIRED FOR USE W/ THE HAND HELD SOCKET TOOL MAXIPLAST 6 9622000 FOR WELDING THE 4 X 6 POLYFLO HDPE $160 PER DAY OR $530 PER WEEK RENTAL RATE PRICES ARE FOB FACTORY LEAD TIME: 1 WEEK TO SHIP IS STD MACHINES WHICH ARE PURCHASED ARE NON-CANCELLABLE/NON-RETURNABLE ---- Package Subtotal: 14,942.08	EA	1	356.1000	356.10

Subtotal: 14,942.08

DMPRTBID

Bruce Rahmani

From: Hunt, Gene <gene.hunt@opwglobal.com>
Sent: Tuesday, March 29, 2016 1:11 PM
To: Bruce Rahmani
Subject: RE: Global Tech and Palm Beach Water
Attachments: Trench-Cover-Frame-Inst.pdf

Bruce,
Here are the frame directions along with the updated quote.

55'

22	~~16~~	FS24-30-4-SD	BLACK COMPOSITE TRENCH COVER 24" x 30" x 4" DEEP STANDARD DUTY C250 (25 TON LOAD) KEY HOUSING	$460.00	$7,360.00
1.375	~~1~~	FRAME	FRAME for 24"x ~~40~~ FOR SD FRAME (16) FM24-30-4-SD SLIT TRENCH	$3,100.00	$3,100.00
60	~~24~~	FS24-30-4-HD	BLACK COMPOSITE TRENCH COVER 24" x 30" x 4" DEEP HEAVY DUTY D400 (40 TON LOAD) KEY HOUSING	$560.00	$13,440.00
2.5	~~1~~	FRAME	FRAME for 24"x ~~60~~ FOR HD FRAME (24) FM24-30-4-HD SLIT TRENCH	$4,180.00	$4,180.00
					$28,080.00

150'

TOTAL: $58432.50

Gene Hunt
Fibrelite Industrial Sales & OPW Flexworks Specialist

FIBRELITE

Fibrelite/OPW Retail Fueling
3250 US Hwy 70 Business West
Smithfield, North Carolina 27577

Gene.Hunt@Opwglobal.com

O: (919)-209-2404
C: (919)-450-5755

GROUND HOUND DETECTION SERVICES, INC.™ A Professional Utility Locating Service

February 23, 2016

Mr. Rick Olson
Globaltech
6001 Broken Sound Pkway
Suite 610
Boca Raton, FL 33487
rolson@globaltechdb.com

Re: "PBC WTP No. 3- 13026 Jog Road, Delray Beach"

Mr. Schuman,

Ground Hound Detection Services, Inc. (GHD) is pleased to provide the following proposal for utility locating services. Electromagnetic induction (EM) and Ground Penetrating Radar (GPR) methods will be used to identify any detectable utilities within to be determined areas on an as needed basis.

DESCRIPTION OF SERVICES:

Ground Penetrating Radar (GPR) method transmits electromagnetic waves, which are pulsed at discrete distance/time intervals. The transmitted pulse radiates through the earth whereby a portion of the energy is reflected from interfaces of contrasting electrical properties (e.g. pavement and soil interface, soil stratigraphic changes and buried metallic and nonmetallic objects) while the remaining energy continues until reaching additional reflectors where the process is repeated. Reflected energy is received by the antennae and recorded for later processing and interpretation. Factors such as soil moisture, clay content, and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet conductive soils severely attenuate GPR signals and thus the effective depth of exploration. The presence of foreign product leeched into the soil can eschew the data collected. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. Freshly-poured concrete (less than 60 days), concrete containing metal fibers, fine-mesh screenings beneath tile, Styrofoam between floor or roof slabs can inhibit the effective permeability and accuracy of GPR. In order to accurately conduct a radar survey, orthogonal scans must be made across the target area. Confined or obstructed areas that restrict an even scanning pattern can impede the data collected and reduce the accuracy of the final results. GPR does not measure diameter of objects, just their location(s).

Electromagnetic induction is a method in which a transmitter signal is applied by directly coupling to a target. As long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Additionally, passive VLF signals can be detected on other metallic utilities that are typically long in length and are well grounded electrically.

Locating underground utilities is not an exact science. Therefore, Ground Hound Detection Services, Inc. (GHD) expresses no guarantees that using one or any of the available technologies for identifying utilities/structures will identify all utilities/structures and/or meet the objective of this or any individual project. Globaltech understands that limitations within the available technology, the complexity of site conditions and circumstances beyond the control of GHD may limit the performance/results of the GHD's services. Project Owners, Globaltech and any of its Subcontractors shall hold harmless and indemnify GHD against any and all losses as a result of inability to locate or mislocate due to limitations within the available technology, the complexity of site conditions and circumstances beyond its control, but not against negligence on the part of GHD or its employees. The services provided by GHD shall be performed in accordance with generally accepted professional practices as related to the nature of services performed. Payment to GHD shall not be contingent upon its performance or results due to any limiting condition as described. Hand digging is required in all situations when excavating within 24" of GHD's markings. If any legal action or other proceeding is brought for the enforcement of this contract, or because of an alleged dispute, breach, default or misrepresentation in connection with any provisions of this Contract, the successful or prevailing party or parties shall be entitled to recover reasonable attorney's fees, expenses and court costs, including appellate fees incurred in the action or proceeding, in additional to any other relief to which such party or parties may be entitled.

This proposal constitutes the entire agreement between the parties. The agreement may not be altered, modified or conditioned in any respect without the prior written consent of all parties. Documents such as but not limited to "change orders", "purchase orders", sub-contract agreements, and statements of terms and conditions of work shall require prior written acceptance by GHD to be binding. Payment to GHD for work performed pursuant to this proposal shall not be contingent upon GHD's consent to any proposed alteration, modification or condition to the agreement.

CONDITIONS: Locating underground utilities for design/pre-excavation:

- Utility locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation and /or provide design information.
- Areas to be investigated must be level and free of obstructions. EM and GPR discovery may be limited up to 24" within any vertical impediment, structure or otherwise.
- Results are dependent upon field conditions at the time of locating services.
- GHD's inability to complete the project due to delays, conditions outside GHD's control does not void this contract.
- If GHD is to produce an AutoCAD drawing (optional, additional fee), customer is responsible for providing an electronic AutoCAD file for GHD to record its discoveries. If a file is not available, additional costs and time to produce the drawing are likely.
- Drawings produced by GHD (optional, additional fee) are not considered to be "survey grade" drawings. GHD will include dimensions from a fixed feature in the field/drawing to the horizontal position of the target being depicted. Drawings are not prepared by a licensed Engineer, Surveyor or Draftsman. In addition, drawings are not prepared to any State survey or drafting standard.
- APWA color marking standards will be used whenever possible.
- GHD is not responsible for, moved, altered, obliterated or maintaining marks. GHD will impose an additional fee to relocate/remark facilities.
- If underground facilities are damaged, whether marked by GHD or not, it is your obligation to notify a representative of GHD immediately at the time of damage.
- GHD is not a substitute for Chapter 556 of the FL State Statute (Underground Facility Damage Prevention and Safety Act). Prior to project construction, excavating contractor is responsible for securing locations of public utilities through Sunshine State One Call of Florida (Phone # 811).
- Any available as-builts, engineered or other record drawings with regards to any utilities within the project limits shall be made available to GHD for its review prior to commencement of field work.
- The performance of GHD's services is limited to full and unobstructed access to include but not limited to: mechanical rooms, manholes, hand holes, vaults, meter rooms, telecom rooms, fixtures (plumbing, electrical, communication), dispensers, fenced compounds, tanks and structures. Full cooperation from the on site personnel is necessary to perform a complete survey.

COST ESTIMATE:

Electromagnetic, GPR Investigation

- Perform/verify horizontal locations of existing detectable utilities using EM & GPR techniques.
- Mark selected targets on the ground surface as necessary.
- Review all site discoveries with on site personnel.

EM & GPR Investigation	**$1,800.00/ day***

Price based on $225/ hour with a four hour minimum.

The above cost is effective for 30 days from the date of this proposal. Costs are subject to change upon unforeseen conditions, any changes will be negotiated accordingly. In no event shall payment to GHD be made later than 45 days from submission of its invoice, irrespective of Contractor's receipt of payment from Owner.

Mr. Olson, thank you for allowing us to present this proposal. Should you have any questions please contact me at: 561-737-9800.

Sincerely,

Sean R. Halsey

Sean Halsey, South Florida Director
Ground Hound Detection Services

_____ _____
Accepted by Title/Company

_____ _____
Print Name of Signer Date

Re: "PBC WTP No. 3- 13026 Jog Road, Delray Beach"

Energy Efficient Electric, Inc.
1600 Mercer Ave. Unit 6
West Palm Beach, FL. 33401
Phone (561) 655-7211 Fax (561) 655-9661
Mobile (561) 722-1381
E-Mail Address: rene@energyeff.com

State License #EC 0001096

April 15, 2016

Electrical Scope of Work
PBC WTP 3 Chemical Improvement

Quote # 31091

We are pleased to provide your firm with our scope and proposal for the necessary electrical work on the above referenced project. Our scope and proposal is based on a verbal conversation with Bruce.

Included:

1. Furnish and install conduit and wire for (2) Eyewash stations furnished by GT.

Lump Sum **$4,000**

We appreciate the opportunity to quote your organization on this project. If you have any questions, please call me at the office.

Thank You Very Kindly,

Rene Viau

Vice President

ADS Engineering

March 4, 2016.

Bruce Rahmani
Globaltech, INC
6001 Broken Sound Pkwy. NW, Suite 610
Boca Raton, FL 33487

Subject: PBC WTP 3 Chemical Improvements

Dear Bruce,

ADS Engineering (ADS) is pleased to provide to Globaltech a proposal for the service consists of:

- Programming modification to add an additional safety eye washer/shower station inside caustic pump room at WTP 3.
- Loop Check and start-up

Our proposed lump-sum for above service is $1000.00

If you have any questions, please call.

Sincerely,
Alex Stojanovic