## PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

**Meeting Date:** 

July 7, 2015

Consent [X]
Public Hearing [ ]

Regular []

**Department:** 

**Water Utilities Department** 

#### I. EXECUTIVE BRIEF

**Motion and Title: Staff recommends motion to approve:** Amendment No. 1 to the Contract for Water Treatment Plant No. 8 (WTP 8) Anion Exchange System design and construction services with Globaltech, Inc. (R2014-1589) in the amount of \$56,640.18.

**Summary:** On October 21, 2014, the Board of County Commissioners (BCC) approved the Water Utilities Department (WUD) Engineering/Professional Services Contract (Contract) for design and construction services for the WTP 8 Anion Exchange System with Globaltech, Inc. Amendment No. 1 to the Contract will expand the design consultant's scope of services to add a new sanitary sewer lift station and sludge pond pump station. The Small Business Enterprise (SBE) participation established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with Globaltech, Inc. provides for SBE participation of 75% overall. Amendment No. 1 has 92.93% of SBE participation. The cumulative SBE participation, including Amendment No. 1, is 99.08% overall. Globaltech, Inc. is a Palm Beach County company. This project is included in the FY15-16 Capital Improvement plan adopted by the BCC. (WUD Project No. 13-022) District 2 (MVE)

**Background and Justification:** WUD is expanding the anion exchange treatment system to improve the water quality and demolishing the energy intensive ozone system at WTP 8. Amendment No. 1 to the Contract provides for the design and construction of a new sanitary sewer lift station and sludge pond pump station. The brine waste from the anion exchange system will be disposed of through the new lift station. The sludge pond pump station will prevent overflows into the proposed dry retention basin.

#### Attachments:

Location Map

2. Three (3) Original Amendment No.1

Recommended By:

Department Director

18-15

Date

Approved By:

Assistant County Administrator

630-15

Date

#### II. FISCAL IMPACT ANALYSIS

#### A. Five Year Summary of Fiscal Impact:

Fiscal Years	2015	2016	2017	2018	2019
Capital Expenditures External Revenues Program Income (County) In-Kind Match County	\$56,640 0 0 0	<u>0</u> 0 0	<u>O</u> <u>O</u> <u>O</u>	<u>0</u> <u>0</u> <u>0</u>	<u>0</u> <u>0</u> <u>0</u> <u>0</u>
NET FISCAL IMPACT	\$56,640	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Budget Account No.: Fund	<u>4011</u> Agency	<u>721</u>	Org. <u>W001</u>	Object	<u>6541</u>

Reporting Category N/A

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

One (1) time capital expenditure from user fees with balances brought forward.

C. Department Fiscal Review:

v:	_ Allera r	n West	
			III

#### **III. REVIEW COMMENTS**

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

. | -(

Contract Development and Control

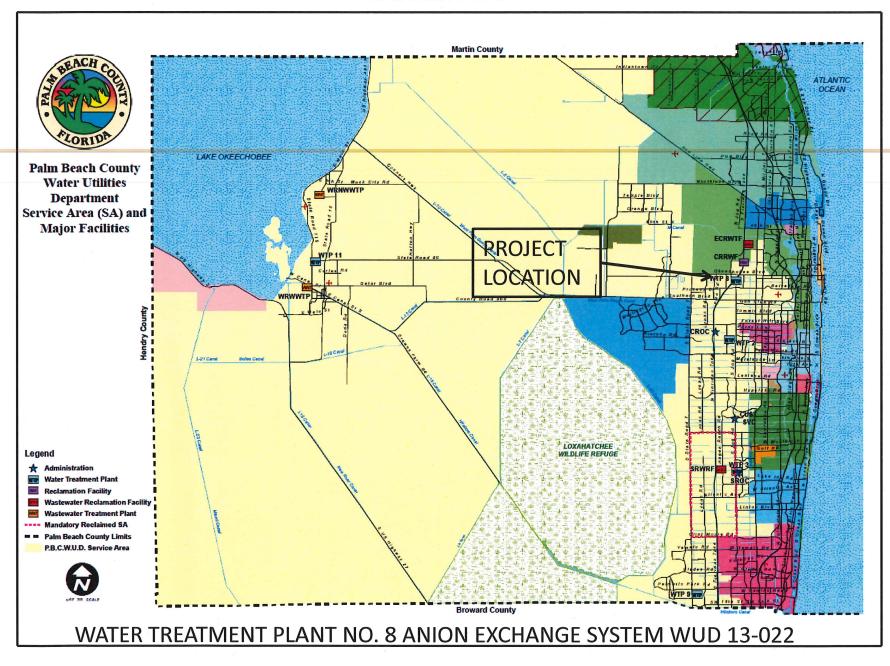
B. Legal Sufficiency:

C. Other Department Review:

Purchasing Department Director

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

## **LOCATION MAP**



# FIRST AMENDMENT TO CONTRACT FOR ENGINEERING/CONSULTING/PROFESSIONAL SERVICES WATER TREATMENT PLANT NO. 8 ANION EXCHANGE SYSTEM ENGINEERING DESIGN AND CONSTRUCTION SERVICES PROJECT NO. WUD 13-022 (TR04)

	Palm Board an ind	dividual, [ ] a partnership. [X] a corpo	f 20, by and ion of the State of Florida, by and the red to as the COUNTY, and Globalte ration authorized to do business in the GINEER, whose Federal I.D. is 65-05	ech, Inc. []
•	the pa	NEED agree that the Contract for Ca	es contained herein, the COUNTY possible of the country possible of the country Resolution Numb ded as follows:	ا بالسالة
	1.	Additional services are provided a made a part hereof.	s contained in Exhibit A1 attached h	nereto and
	2.	lump sum amount is hereby inc \$1,039,139,41 and the total compe	was a lump sum fee of \$982,499.2 of \$14,025.00 for a total of \$996,524 reased by \$56,640.18 from \$982, ensation is including the not to exceed contained in Exhibit B1 attached here.	1.23. The 499.23 to
	3.	The project schedule as depicted in as contained in Exhibit C1 attached	R2014-1589 is increased by 30 cale I hereto and made a part hereof.	ndar days
	4.	The SBE schedules 1 and 2 are cor a part hereof for the additional serv	ntained in Exhibit D1 attached hereto ices contained in this Amendment.	and made
		•	unchanged and in full force and effec	
,	ionau	NESS WHEREOF, the Board of Contract has made and executed this Contract reunto set its hand the day and year	ounty Commissioners of Palm Beac act on Behalf of the COUNTY and El above written.	h County, NGINEER
5		T: DN R. BOCK ( & COMPTROLLER	PALM BEACH COUNTY, BY ITS BOARD OF COUNTY COMMISSIC	DNERS
Е	Ву:	Deputy Clerk	By:Shelley Vana / Mayor	
		•		

## FIRST AMENDMENT TO CONTRACT FOR ENGINEERING/CONSULTING/PROFESSIONAL SERVICES WATER TREATMENT PLANT NO. 8 ANION EXCHANGE SYSTEM ENGINEERING DESIGN AND CONSTRUCTION SERVICES PROJECT NO. WUD 13-022 (TR04)

WITNESS:	ENGINEER
John R. Clean	
Signature	Signature \( \big  \)
Richard D. Olson, P.E.	Troy L. Lyn, P.E.
Name (Type or Print)	Name (Type or Print)
	Globaltech, Inc.
	Firm
	Corporate Seal)
APPROVED AS TO FÖRM AND LEGAL SUFFICIENCY	APPROVED AS TO TERMS AND CONDITIONS
Ву:	By: Jama States
Assistant County Attorney	(Department Director

#### EXHIBIT A1 SCOPE OF WORK

#### BACKGROUND

The design of a new anion exchange system at Water Treatment Plant #8 is currently underway by the CONSULTANT under this CONTRACT. The COUNTY has requested that the design, permitting, and bidding assistance for a new plant site lift station and backup weir structure with pumps at the lime sludge pond be added to that CONTRACT. The COUNTY originally excluded the design of the new larger plant site lift station from the original design work as the design of the new lift station was to be done by the COUNTY prior to the construction of the new anion exchange system. The design of the new forcemain associated with the new lift station is currently being designed by the COUNTY. The new larger plant lift station will receive the waste brine and backwash from the anion exchange regeneration vessels, the existing sanitary flows from the plant and laboratory sample sinks, and wash down water from the vacuum filters. The backup weir structure at the lime sludge pond was identified as an additional need to remove decanted water from the pond for disposal to the new lift station when the filter backwash recovery basin is taken off line for cleaning and the pond is at capacity.

#### SCOPE OF SERVICES

This Amendment to the Contract includes the design, permitting, and bidding assistance for the construction of a new submersible plant lift station and sludge pond backup weir structure / pump station at Water Treatment Plant #8.

CONSULTANT shall perform the Engineering Scope of Services as described herein.

- A submersible, tri-plex plant site lift station to handle approximately 1,000 gpm peak flow. The new station will receive flow from anion exchange regeneration from the waste holding tank (repurposed 1.25 MG storage tank), existing sanitary flows from the plant and laboratory sample sinks, wash down water from sludge vacuum filters, new analyzers sample lines, air scour drain, and lime sludge pond overflow. The lift stations valves shall be above ground rather than in a vault. It is anticipated that the three pumps will be rated at 25 HP and the lift station control panel will utilize soft starts for the motors. The scope of services includes all associated electrical and instrumentation.
- Conversion of the existing lift station into a terminal manhole.
- Gravity line extended from terminal manhole (converted lift station) to covey flow to new plant site lift station
- Discharge forcemain within 50 ft of new lift station location to new 12-inch forcemain currently under design by COUNTY.
- A new weir structure at the lime sludge pond to allow for the decanted flow to be captured and transferred to the new plant site lift station via submersible pump and pipeline.

#### Task 1 - Design

- The CONSULTANT will provide Engineering services consisting of preparation of Plans and Specifications for the newly proposed items identified above. The Plans and Specifications will be sufficient to convey the extent and nature of the work to be accomplished. COUNTY's standard lift station, wastewater, and water details will be utilized for the preparation of the plans. Available survey information, including location and layout of existing facilities, topographic information, easments and rights-of-way, etc. shall be utilized. This information will be used to prepare base drawings for the existing facilities and the proposed facilities. A limited geotechnical evaluation will be conducted, identifying the soil conditions in the area of the new plant site lift station utilizing a 30 ft deep soil boring and in the area of the weir structure utilizing a 15 ft deep soil boring.
- The CONSULTANT shall prepare design documents consisting of 90% (plan and profile) drawing and technical specifications for COUNTY review. Upon completion of the 90% review, the CONSULTANT shall proceed with the preparation of the 100% complete design drawings, technical specifications and construction cost estimate. Design documents shall include the civil, mechanical, electrical and I&C design for the above items. The design shall be incorporated into the overall project plan for the Water Treatment Plant No.8 Anion Exchange System.

Plans will utilize PBC standard submersible lift station detail and standard details as applicable. Tables and notes on the drawings will be utilized for pump information and other information as appropriate. The COUNTY's Minimum Design & Construction Standards will be supplemented with the CONSULTANT's standard specifications as applicable to the project for preparation of the project technical specifications to be included in the bidding documents.

The plans and specifications for this Supplement will be incorporated into the project deliverables for the original anion exchange system project. This includes half size (11" x 17") review sets of plans, CAD files and PDF files of the final (100% complete) drawings, "Word" files and one set of un-bound technical specifications and a bid schedule for preparation of bid sets.

- 1.3 CONSULTANT shall attend and participate in two project/site meetings with COUNTY staff to review and discuss the design or scope of work.
- 1.4 CONSULTANT shall include the items described above in the Engineer's opinion of probable construction cost based on the 100% complete design.

#### Task 2 - Permitting

- 2.1 CONSULTANT shall incorporate the items described above into the construction permit application to the Palm Beach County Health Department. Consultant will respond to all requests for additional information required to obtain the permit.
- 2.2 Provide signed/sealed copies of the drawings and well as Engineering calculations for the plant lift station sizing and criteria and uplift calculations for permitting as required.

2.3 CONSULTANT shall incoprorate these addition plans into the Palm Beach County Building Department permit sets. Consultant will respond to all requests for additional information required to obtain the permit.

#### Task 3 - Bidding Assistance Services

- 3.1 Respond to questions bidders may have concerning the bid documents and prepare addenda as necessary to clarify the bid documents for the items described above.
- 3.2 Attend the pre-bid meeting with the COUNTY, Contractors, and other interested parties.
- 3.3 Provide recommendation for award as provided in the CONTRACT

#### COMPENSATION

The CONSULTANT will be compensated in accordance with the budget contained in the original CONTRACT supplemented with the attached budget summary (Exhibit B1), a lump sum amount of \$56,640.18. Monthly progress payments will be authorized based on percent complete as determined by CONSULTANT and approved by the COUNTY.

#### OTHER PROVISIONS

All exclusions and additional provisions agreed to in the original contract are to remain in full effect during the implementation of the project. Certain assumptions have been made in preparing this Scope of Services. To the extent possible, these assumptions are stated herein and are reflected in the budget for services.

- This scope of services is for design, permitting and limited bidding services. Services during construction and preparation of record drawings are not included and will be considered additional services, if required.
- New forcemain extending from the new lift station to the tie-in point on Belvedere Road are assumed to be designed and permitted by Others (COUNTY).
- If the work tasks required are different from the assumptions presented herein or if CONSULTANT/COUNTY desires additional services, the resulting change in scope may serve as a basis for modifying this Supplement's scope and fee as agreed to by both COUNTY and CONSULTANT.
- Consistent with the professional standard of care and unless specifically provided herein, CONSULTANT shall be entitled to rely upon the accuracy of data and information provided by the COUNTY or others without independent review or evaluation.

- CONSULTANT is not responsible for the means, methods, sequences, techniques or procedures of the COUNTY or the COUNTY Contractor's operations or safety precautions and programs.
- COUNTY will pay for all permit fees.

## EXHIBIT B1 BUDGET SUMMARY

#### EXHBIT B1

PBCWUD WTP 8 Anion Exchange System Engineering Design - Amendment 1

#### **Budget Summary**

		E6	E6	E5	E4	T5				7	<b>_</b>   .
	·	\$57,68	\$5B.47	\$52.00	\$44.00		Office .	Office			
Task	Task Description	70.,00	455.47	452.00	\$44.00	\$28.56	\$29.65	\$17.68	Total Labor	*Sub-Consultant Services	
2C	Design								·	Services	Sub-Consultar
	Project Management/Coordination		8				. 4	4	<del></del>	<del></del>	<del> </del>
	Civil/Mechanical design		4			6		2		\$ 17,516,4	,
	Soil Boring/Geotechnical Design		4					2		11,010,7	IVIC
	Electrical/I&C Design	1	4			. 6		2		1,550.5	
	Prepare Cost Estimate	1	. 1		2		<del></del>			\$ 22,500.0	HEE
	Site/Review Meetings		6								
	Subtotal Task 2C	1	27	0	2	12	4	46			
						12		10	\$ 2,362.4	9 \$ 44,016.47	
3	Permitting Services										
	Project Management/Coordination		2					·····			
	FDEP/PBCHD Permit		2				2				
	Subtotal Task 3	. 0		0	0			2		\$ 2,292.30	MC
						0	2	2	\$ 328.5	4 \$ 2,292.30	
4	Bidding Services										
	Project Management/Coordination		2								
	Bidding Assistance	2				•	2	. 2			
	Subtotal Task 4	2	2			2		2			!
	7,000				0	2	2	4	\$ 419.4	4 \$ .	
	Labor Hours	3	33								
	Labor Costs	\$173,04	\$1,929.51	0	2	14	8	16			
	Labor Multiplier	3,00		\$0,00	\$88.00	\$399.84	\$237.20	\$282.88	\$3,110.4	7	
	Labor Total	\$519,12	3,00	3,00	3.00	3,00	3.00	3.00	3,0		
	Labor lotal	\$519,12	\$5,788,53	\$0.00	\$264.00	\$1,199,52	\$711.60	\$848.64	\$9,331.4	1	
	Subconsultant Total										ļ
	Subconsultant Multiplier									\$ 46,308.77	
										1.0	
	Subcontract Total									\$ 46,308.77	
	Reimbursable Expenses							***************************************		+ 46,306.77	
										\$ 500,00	
	Reimbursable Expenses .				,					\$ 500.00	MC
										Ψ 500.00	······································
	LUMP SUM TOTAL										
	Subconsultants:									\$56,640.18	
	MC - Mathews Consulting										-
	DET - Dunkelberger Engineering & Testing	, Inc., A Terra	con Company								
	HEE - Hillers Electrical Engineering		, ,								

Total Contract amount not to exceed amount of \$1,053,164.41

## EXHIBIT C1 PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice to Proceed [NTP]). This schedule updates the schedule labeled "Attachment B" included in the original contract.

Engineering Services	Original Contract Date from NTP	Revised Completion Date from NTP				
Task 1 – Preliminary Design	100 days	100 days (no change)				
Task 2 – Design for Bidding*						
30% Design	150 days	150 days (no change)				
60% Design	210 days	210 days (no change)				
90% Design	255 days	285 days (30 additional days)				
100% Design	285 days	315 days				
Task 3 – Permitting Services	330 days	330 days				
Task 4 – Bidding Services	330 days	360 days				

\*Includes 2 weeks of review time for COUNTY for each design period

The three (3) year term of the original Contract R2014-1589 remains the same.

## EXHIBIT D1 SBE SCHEDULE 1 AND 2

#### EXHIBIT D1

#### SCHEDULE #1

#### LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONSULTANTS

PROJECT NAME: PBC	PBCWUD WTP 8 Anion Exchange System - Amendment 1			PROJECT NUMBER: WUD 13-022				
NAME OF PRIME BIDDER: Glot CONTACT PERSON: Berr BID OPENING DATE: N/A	oaltech, Inc. lard P. Gandy, President		- - -	ADDRESS: PHONE NO. DEPARTMEN	561-997-6433		V Ste. 610, Boca Raton, FL 33487 561-997-5811	
	,	PLEASE IDENTIFY A	LL APPLICA	BLE CATEGOR	RIES			
Name, Address and Telephone	(Check one or	both Categories)				Dollar Amou	nt	
Number of Minority Consultant	Minority Business		Black	Hispanic	Women	Caucasian	Other (Please Specify)	
Globaltech, Inc. 6001 Broken Sound Pkwy NW, Ste 610, Boca Raton, FL 33487			\$	\$	\$	\$ 9,831.41	\$	
Hillers Electrical Engineering, Inc. 23257 State Rd 7, Ste. 100, Boca Raton, FL 33428	· 🔲		\$	\$ 22,500.00	\$	\$	\$	
Matthews Consulting, Inc. 1475 Centrepark Blvd. Ste. 250, W Palm Beach, FL 33401	est		\$	\$	\$20,308.77	7 \$	\$	
				\$	\$	\$	\$	
			\$	\$	\$	· · · · · · · · · · · · · · · · · · ·	\$	
			\$	\$	\$		\$	
PRIME CONSULTANT TO COMPL	ETE:	TOTAL	\$ -	\$ 22,500.00	\$ 20,308.77	\$ 9,831.41	\$	
BID PRICE: \$ 56,640.18		of SBE Participation:	·	\$ 52,640,18				

#### NOTE:

- 1. The amount listed on this form for a Subconsultant must be supported by price or percentage included on Schedule 2 or a proposal from each Subconsultant 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.

## EXHIBIT D

## SCHEDULE 2

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

PROJECT NO. <u>WUD 13-022</u> PROJECT NAME: <u>PBCWUD WTP 8 Anion Excha</u>	ange System – S	Supplement 1	·				
TO: Globaltech, Inc.							
(Name o	of Prime Bidder)						
The undersigned is certified by Palm Beach Cour	nty as a(n) – (ch	eck one or more,	as applicable):				
Small Business Enterprise XX	Minority Busines	ss Enterprise					
Black Hispanic Women Caucas	ian <u>XX</u> Other (P	lease Specify) _					
Date of Palm Beach County Certification: Novem	ber 24, 2012						
The undersigned is prepared to perform the following on the comparts the second of the control o			e above project				
Line Item/Lot Item Description No.	Qty / Units	Unit Price	Total Price				
2CDesign3Permitting Services4Bidding Services	1 1 1	L.S. L.S.	\$ 7,487.47 \$ 1,035.62 \$ 1,308.32				
at the following price \$ <u>9,831.41 (Nine thousand eight hundred thirty one c</u> (Subconsultant's Quote)	dollars and forty-o	ne cents)					
And will enter into a formal agreement for work with you County. If undersigned intends to sub-subcontract any portior amount of any such subcontract must be stated:	n of this subcontr	act to a non-certifi					
The undersigned subcontractor understands that the subcontractor from providing quotations to other bidde	ne provision of t	his form to prime	e bidder does not prevent				
		tech, Inc. ame of SBE-M/WB	E Subconsultant)				
	Ву:	(Signatur	re)				
	(Print na	Lyn, P.E./Vice P me/title of person f SBE-M/WBE Sub	executing on				
	Date:	<u>May 7, 2015</u>					

EXHIBIT

## ATTACHMENT D 1

#### SCHEDULE 2

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

	IO. <u>WUD 13-022</u> IAME: <u>PBCWUD WTP 8 Anion E</u>	Exchange System	- Supplement	<u>1</u>				
TO:	Giobaltech, Inc.							
	(Na	ıme of Prime Bidd	ler)					
The undersig	gned is certified by Palm Beach	County as a(n) -	(check one or n	nore, as applic	able):			
Sma	ıll Business Enterprise <u>XX</u>	Minority Busi	ness Enterprise	÷	•			
Black I	Hispanic XX Women Cau	casian Othe	er (Please Spec	ify)				
Date of Palm	n Beach County Certification: Oc	tober 17, 2012.						
	ned is prepared to perform the follow etail, particular work items or part			ith the above pr	oject			
Line Item/Lot No.	Item Description	Qty / Units		Total Pric				
2C	Design Services		<u> </u>	<u>S.</u>	\$22,500.00			
at the following	g price		•					
\$ 22,500.00	(Twenty two thousand five hundre (Subconsultant's Quot	ed dollars and no ce	ents)	<u> </u>				
County.  If undersigned	into a formal agreement for work wit d intends to sub-subcontract any p v such subcontract must be stated:	ortion of this subco						
The undersign subcontractor	ned subcontractor understands the from providing quotations to other be a subcontractor understands the from providing quotations to other because the following the follo	oidders <u>Hille</u> (Prin By:	ers Electrical I	Engineering/ MWBE Subcors gnature)  President	Anc. sultant)			
		Data	May 1 2015					

From:

Troy Lyn

Sent:

Friday, April 17, 2015 2:44 PM

To:

Rebecca Thomas

Subject:

FW: WTP Ion Exchange

From: Paul F. Hillers [mailto:phillers@hillersee.com]

Sent: Friday, April 17, 2015 2:43 PM

To: Troy Lyn

Cc: 'Thein Win'; 'Jacki Yasin' Subject: WTP Ion Exchange

Hi Troy;

below is our additional fee for the additional/relocation lift station and additional pond pump.

Our 60%,90% and 100% design fee for the above scope is \$ 22,500.

Please keep me posted.

Paul Hillers, P.E., President

Hillers Electrical Engineering, Inc.

23257 State Road 7, Suite 100

Boca Raton, FL 33428

tel 561-451-9165 x221

## ExHIBIT ATTACHMENT D 1

#### SCHEDULE 2

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

PROJECT NO. <u>WOD 13-022</u> PROJECT NAME: <u>PBCWUD WTP 8 Ani</u>	ion Exchange System –	- Supplement 1		
ТО:	Globaltech, Inc.			
	(Name of Prime Bidde	er)		
The undersigned is certified by Palm Be	ach County as a(n) – (c	check one or mo	re, as applicable):	
Small Business Enterprise XX	Minority Busin	ess Enterprise _	MANAGE OF THE STATE OF THE STAT	
Black Hispanic Women XX Ca	ucasian Other (Pl	ease Specify) _	***************************************	
Date of Palm Beach County Certification	n: <u>September 10, 2013.</u>			
The undersigned is prepared to perform the (Specify in detail, particular work items or	following described work i	n connection with formed):	the above project	
Line Item/Lot Item Description No.	Qty / Units	Unit Price	Total Price	
2C Design Services 3 Permitting	1	L.S. L.S.	\$17,916.47 \$ 2,392.30	
at the following price \$ 20,308.77 (twenty thousand three hundre (Subconsultant's  And will enter into a formal agreement for wo County.  If undersigned intends to sub-subcontract a amount of any such subcontract must be sta  The undersigned subcontractor understan subcontractor from providing quotations to c	ork with you conditioned up any portion of this subcor- ated: \$ ads that the provision of other bidders	oon your execution of this form to properly consulting Name of SBE-M/	ortified SBE subconsult  ime bidder does not	ant, the
	(Print behal	name/title of pers f of SBE-M/WBE	on executing on	



April 28, 2015

Mr. Troy Lyn Globaltech, Inc. 6001 Broken Sound Pkwy. N.W., Suite 610 Boca Raton, FL 33487

Palm Beach County Water Utilities
Water Treatment Plant No. 8 AIX Project
Revised Scope of Services

#### Dear Troy:

We are pleased to submit herewith a Revised Scope of Services for the referenced project. The following revisions are proposed:

- Remove the engineering services associated with the brine tank disposal system. This scope is no longer required as PBCWUD/Globaltech has elected to repurpose the existing 1.25 MG storage tank for this use. All engineering services associated with re-purposing the tank will be performed by Globaltech.
- Add engineering services associated with design and permitting of a new Plant Site Lift Station. Scope of work includes the following:
  - O Design of a new Submersible, tri-plex lift station to handle approx. 1,000 gpm peak flow. The new station will receive flow from brine waste, anion exchange regeneration backwash (from Waste Holding Tank), existing sanitary flows from the plant and laboratory sample sinks, wash down water from the sludge vacuum filters, new analyzer sample lines, air scour drain, and Lime Sludge Pond overflow. It is estimated that three submersible pumps rated for 25 Hp will be required for this purpose. The new submersible lift station is proposed to be located east of the existing lift station and east of the existing driveway. The lift station and associated gravity piping and forcemain piping will be located outside of the 100-foot setback distance from Well No. 14. Lift station discharge piping and valves shall be located above grade at the station.
  - The existing lift station will be demolished, as required, and converted into a terminal manhole. A gravity line will be extended from the terminal manhole to convey flow to the new Plant Site Lift Station.

- The discharge forcemain from the new Plant Site Lift Station will tie-in to a new 12-inch forcemain currently under design by PBCWUD. The tie-in location will be within 50 feet of the new lift station location.
- Add engineering services associated with design and permitting of new weir structure at the Lime Sludge Pond to allow decanted flow to be captured and transferred to the new Plant Site Lift Station. Captured decant flow shall be transferred through the use of a duplex, centrifugal or submersible pump station located adjacent to the pond. A gravity piping option shall also be evaluated. The 100-foot setback from Well No. 14 will have to be maintained. Cross-connection protection will be implemented between the sludge pond and the lift station.
- Add engineering services to provide assistance to Globaltech in the preparation of permit application to the Palm Beach County Health Department for Construction of Potable Water System Components for the new Plant Site Pump Station.

#### Scope of Services

#### TASK 1 - Design

MC shall prepare design documents consisting of 90% (plan and profile) drawings and technical specification sections for the proposed improvements. The above drawings and specifications will be furnished to provide sufficient detail as a basis for a 90% design review by the County. MC shall furnish two (2) copies and a PDF copy of the 90% design documents to Globaltech for review. Upon completion of the 90% review, MC shall proceed with the preparation of 100% completion design drawings, technical specifications and construction cost estimate.

MC shall provide two (2) copies and a PDF copy of the 100% review sets, consisting of design drawings, specifications and construction cost estimate as previously described above, to Globaltech for review,

Each modification to the cost opinion shall reflect changes in general scope, extent or character incorporated during previous design reviews with County staff.

MC shall prepare all drawings utilizing AUTOCAD Version 2013 software.

MC shall furnish six (6) signed and sealed, 100% completion drawings and one set of CADD and PDF drawing files on CD to Globaltech for use by the COUNTY.

MC shall attend a meeting for each of the design submittal stages to receive and discuss design review comments (maximum of two (2) meetings).

MC shall conduct QA/QC design review of the Contract documents at 90% and 100% submittal stages of the project. Design review shall be performed for the purpose of providing project document clarification, uniformity, and consistency. Design review shall also be conducted for the purpose of constructability.

#### TASK 2 - Permitting

Mathews Consulting shall provide assistance to Globaltech in the preparation of the permit application to the Palm Beach County Health Department for Construction of Potable Water System Components for the new Plant Site Pump Station. MC shall provide signed/sealed drawings, as well as signed/sealed engineering calculations for the Plant Site Lift Station sizing criteria and uplift calculations.

Consultation services shall include responding to request(s) for additional information from the regulatory agency for the Plant Site Lift Station design.

#### **ASSUMPTIONS**

The following assumptions have been used by MC in the preparation of this Scope of Work:

- Plant Site Lift Station forcemain extending from the station to the tie-in point on Belvedere Road to be designed and permitted by Others (PBCWUD).
- With the exception of the gravity piping from the existing lift station and from the Lime Sludge Pond, all gravity piping and/or pressure piping from plant process systems to the new Plant Site Lift Station shall be designed by Globaltech. MC shall coordinate gravity piping tie-in locations to the wetwell with Globaltech.
- Globaltech will assist in determination of flows to each of the lift station and/or pump stations to be designed.
- Electrical and instrumentation design for the pump stations shall be provided by others (Hillers).
- Globaltech shall furnish the services of a professional geotechnical engineer to provide subsurface investigations of the project area that will include one (1) 30-foot deep standard penetration test and the Plant Site Lift Station, and one (1) 15-foot standard penetration test at the pond pump station. A copy of the geotechnical engineering evaluation report which will include the results of the standard penetration tests and other geotechnical testing requested by others shall be provided to MC for informational purposes.

#### **FEES**

The fees for this Scope of Work are \$20,308.77 as detailed in the attached Fee Schedule.

We appreciate the opportunity to continue providing services to Globaltech on this project. Should you have any questions regarding this proposal, please contact me at 561-655-6175.

· Very Truly Yours,

MATHEWS CONSULTING, INC.

Rene L. Mathews, P.E.

President

C: Rebecca Travis, MC Jason Pugsley, MC

File: PBCWUD #1775 / Corresp. w/ Globaltech

	Mathews Consu					rvices			
ļ	PBCV	VUD WTP #8	AIX Project	- Amendme	nt No. I				i i t
		Eac D	⊥ roposal Su	mmañ					ś
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				Labo	r Classification	and Hourly R	ates		
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				Senior	Resident	Eng.			Sub-
	A VA - VALUE CO. 100 FO SECURITY OF VALUE AND COLUMN AS I I VALUE AND OTHER SECURITY OF VALUE AND COLUMN SECURITY OF VALUE AND COLUM	Principal	Principal	Engineer	Engineer	Technician	Clerical	Total Labor	Consultant Services
Task	Task Description	\$163,35	\$163.35	\$142,56	\$112.86	\$100.00	\$70.00	Laboi	Services
1	Design								
•	Credit for deletion of Brine Waste Tank Design	-4		-92		-40		(\$17,768.92)	
	90% Design Drawings, Specs & Cost Estimate	-	25	80		40		\$19,488.55	
	100% Design Drawings, Specs & Cost Estimate		20	25		40		\$10,831.00	
	Review/Design Coordination Meetings		4	4				\$1,223.64	
	QA/QC ·	16			10			\$3,742.20	
	Additional Fees Subtotal	12	49	17	10	40	0	\$17,516.47	\$0
5.	Permitting								
ų.	PBC Health Dept. Application documentation		2	10		4	2	\$2,292.30	
	Additional Fees Subtotal	. 0	2	10	0 .	4	. 2	\$2,292.30	\$0
	Labor Subtotal Hours	12	51	27	10	44	2	\$19,808.77	\$0
	Labor Subtotal Costs	\$1,960.20	\$8,330.85	\$3,849.12	\$1,128.60	\$4,400.00	\$140.00		
	Labor Total Costs	\$19,808.77			•				
	Subconsultant Costs Total	\$0.00							
	Subconsultant Multiplier	1,1						ľ	
	Subconsultant Total	\$0.00							
		-	·						
	Reimbursable Expenses	\$500.00							
errennen stater for skriver errende finland.	Project Total	\$20,308.77							<u> </u>

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4) E (	OKD"

## CERTIFICATE OF LIABILITY INSURANCE

GLOBA08 OP ID: S9

DATE (MM/DD/YYYY)

10/31/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED EPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

CONTACT NAME: PHONE (A/C, No, Ext): 954-776-2222 E-MAIL Brown & Brown of Florida, Inc. 1201 W Cypress Creek Rd # 130 P.O. Box 5727 Ft. Lauderdale, FL 33310-5727 Christopher M. Moore, CPCU FAX (A/C, No): 954-776-4446 ADDRESS: INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: Amerisure Insurance Company 19488 INSURED Globaltech, Inc. INSURER B: Torus National Ins Co 25496 6001 Broken Sound Pkwy NW #610 INSURER C: Amerisure Mutual Ins. Co 23396 Boca Raton, FL 33487 INSURER D: 36940 INSURER E: INSURER F COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR		TYPE OF INSURANCE		SUBR WVD POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMITS			
		NERAL LIABILITY					V	EACH OCCURRENCE	\$	1,000,000	
С	Х	COMMERCIAL GENERAL LIABILITY	Х		CPP2079657	11/01/2014	11/01/2015	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000	
		CLAIMS-MADE X OCCUR .						MED EXP (Any one person)	\$	5,000	
					•			PERSONAL & ADV INJURY	. \$	1,000,000	
		GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	· \$· ··· ·	2,000,000	
	GEI							PRODUCTS - COMP/OP AGG	\$	2,000,000	
		POLICY X PRO- JECT LOC							5		
•	AU"	AUTOMOBILE LIABILITY  X ANY AUTO ALL OWNED SCHEDULED AUTOS AUTOS				11/01/2014	11/01/2015	COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000	
А	X				CA2079654			BODILY INJURY (Per person)	\$		
								BODILY INJURY (Per accident)	\$		
		HIRED AUTOS NON-OWNED AUTOS			·		-	PROPERTY DAMAGE (PER ACCIDENT)	\$		
		.							\$		
		UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	\$	2,000,000	
В	X	EXCESS LIAB CLAIMS-MADE			09800D141ALI	11/01/2014	11/01/2015	AGGREGATE	\$	2,000,000	
	<u>,</u>	DED X RETENTION\$ 0							\$		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)		N/A			11/01/2014	11/01/2015	X WC STATU- OTH- TORY LIMITS ER		•	
A					WC2079655			E.L. EACH ACCIDENT	\$	1,000,000	
								E.L. DISEASE - EA EMPLOYEE	\$	1,000,000	
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	1,000,000	
D	Professional Liab				PEC0044423	08/21/2014	08/21/2015	Claim/Agg		3,000,000	
	Cla	ims Made			RETRO DATE 7/7/95			Ded		50,000	
						1				,	
DESC	CRIPT	TON OF OPERATIONS / LOCATIONS / VEHIC	LES (A	ttach.	ACORD 101, Additional Remarks Schedul	e. If more space is	required)	h			

Board of County Commissioners Palm Beach County, FL a political subdivision of the State of FL, Palm Beach County Water Utilities Department, The Engineer, their officers, directors and agents are Additional Insured's with respect to General Liability if required by written contract.

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CANCELLATION BOARDOF

Board of County Commissioners Palm Beach County c/o Water Utilities Department PO Box 16097 West Palm Beach, FL 33416

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2010/05)

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