

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: May 7, 2024

Consent [X]
Public Hearing []

Regular []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 6 to the Consulting/Professional Services Pressure Pipeline Engineering Services (Contract) with Mock, Roos & Associates, Inc. (Consultant) for the Regional Transfer Pump Station Location Evaluation (Project) for a not to exceed amount of \$199,507.

Summary: On April 20, 2021, the Board of County Commissioners approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2021-0505) with Consultant. CSA No. 6 provides professional engineering services to evaluate the feasibility of constructing a transfer pump station along with the proposed route and size of force main pipes to divert flow from the northern portion of the PBCWUD wastewater service area to the Southern Region Water Reclamation Facility (SRWRF).

This Contract was procured under the requirements of the Equal Business Opportunity Ordinance. On July 1, 2020, the Goal Setting Committee applied an Affirmative Procurement Initiative (API) of a mandatory 20% Small Business Enterprise (SBE) subcontracting goal and an evaluation preference for up to 15 points based upon the relative level of dollar participation by certified African American owned firms. The Contract provides for 34% SBE participation, which includes 34% MBE participation, 34% MBE (B). CSA No. 6 includes 39.54% SBE participation, which includes 39.54% MBE, 39.54% MBE (B). The cumulative SBE participation, including CSA No. 6, is 32.03%, which includes 32.03% MBE, 32.03% MBE (B). Consultant is a Palm Beach County based company. The Project is included in the PBCWUD FY24 budget. (PBCWUD Project No. 23-057) Countywide (MWJ)

Background and Justification: Consultant will assist PBCWUD by analyzing a hydraulic model to identify alternative locations and determine the feasibility of constructing a transfer pump station and sizing the force main piping system. This analysis will also take into account future wastewater demands projections and diversions to the SRWRF to accommodate the expected increase in demand and population growth that will affect the PBCWUD wastewater system. The Project is needed to improve the efficiency and reliability of the wastewater collection system.

Attachments:

1. Two (2) Originals of Consultant Services Authorization No. 6
2. Location Map
3. Ebix Compliance Summary Report

Recommended By: Kristin Bet for Department Director 4-10-2024 Date

Approved By: [Signature] Assistant County Administrator 4/16/24 Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2024	2025	2026	2027	2028			
Capital Expenditures	<u>\$199,507</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
NET FISCAL IMPACT	<u>\$199,507</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Budget Account No.:	Fund	4001	Dept	720	Unit	2323	Object	3120

Is Item Included in Current Budget? Yes X No

Is this Item using Federal Funds? Yes No X

Is this Item using State Funds? Yes No X

Reporting Category N/A

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

One (1) time expenditure from user fees, connection fees and balance brought forward.

C. Department Fiscal Review: Bony Foreman

III. REVIEW COMMENTS

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

Shirley M. Nantz 4/16/24
OFMB MF 4/11

Brenda M. Nantz 4/15/24
Contract Development and Control
Tel 4/15/24

B. Legal Sufficiency:

[Signature] 4/16/24
Assistant County Attorney

C. Other Department Review:

Department Director

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

CONSULTANT SERVICES AUTHORIZATION NO. 6
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Pressure Pipeline Engineering Services
Resolution No. R2021-0505 Contract Dated April 20, 2021

Project Title: Regional Transfer Pump Station Location Evaluation

PBCWUD Project No.: 23-057

Consultant: Mock, Roos & Associates, Inc.

Address: 5720 Corporate Way, West Palm Beach, FL 33407

Budget Line Item No.: 4001-720-2323-3120

District No.: 1, 2, 3, 4 and 5

This Consultant Services Authorization provides for: Professional Engineering Services to evaluate locations for constructing a transfer pump station and force main system to divert wastewater flows from the northern portion of Palm Beach County Water Utilities Department (PBCWUD) service area to the Southern Region Water Reclamation Facility (SRWRF).

(See ATTACHMENT A for detailed scope of services)

The Contract provides for 34% SBE participation which includes 34% MBE, 34% MBE(B). This Consultant Services Authorization includes 39.54% SBE participation, which includes 39.54% MBE, 39.54% MBE (B). The cumulative SBE participation, including this Consultant Services Authorization is 32.03% SBE participation, which includes 32.03% MBE participation, 32.03% MBE (B).

1. Services completed by the Consultant to date:
See ATTACHMENT B.
2. Consultant shall begin work upon receipt of Notice to Proceed correspondence.
3. The compensation to be paid to the Consultant for providing the requested services shall be:
 - A. Computation of time charges plus expenses, not to exceed \$ 199,507.00
 - B. Fixed price of \$ 0.00
 - C. Total \$ 199,507.00
4. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

CONSULTANT SERVICES AUTHORIZATION NO. 6
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Pressure Pipeline Engineering Services
Resolution No. R2021-0505 Contract Dated April 20, 2021

Project Title: Regional Transfer Pump Station Location Evaluation

PBCWUD Project No.: 23-057

5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent).
6. This Authorization does not amend, change, or modify the Contract dated April 20, 2021, which remains in full force and effect.
7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.

CONSULTANT SERVICES AUTHORIZATION NO. 6
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Pressure Pipeline Engineering Services
Resolution No. R2021-0505 Contract Dated April 20, 2021

Project Title: Regional Transfer Pump Station Location Evaluation

PBCWUD Project No.: 23-057

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

Joseph Abruzzo, Clerk of the Circuit Court
& Comptroller, Palm Beach County

Palm Beach County, Board
of County Commissioners

ATTEST:

Signed: _____

Signed: _____

RE RB Maria Sachs, Mayor

Typed Name: _____
Deputy Clerk

(Date)

Approved as to Form and Legal
Sufficiency

Mock, Roos & Associates, Inc.
(Consultant)

Signed: _____

Thomas A. Biggs, P.E.
(Print Name)

Typed Name: Michael W. Jones
County Attorney

[Signature]
(Signature)

Executive Vice President
(Title)

3/28/2024
(Date)

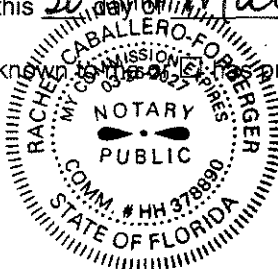
STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me by means of physical presence or online notarization,

this 28th day of March, 2024, by Thomas A. Biggs who is personally

known to me and _____ produced _____ as identification.



Rachel Caballero-Forberger
(Signature of Notary Public - State of Florida)

Rachel Caballero-Forberger
(Print, Type, or Stamp Commissioned Name of Notary Public)

CONSULTANT SERVICES AUTHORIZATION NO. 6
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Pressure Pipeline Engineering Services
Resolution No. R2021-0505 Contract Dated April 20, 2021

LIST OF ATTACHMENTS

ATTACHMENT A	Scope of Services
ATTACHMENT B	Summary and Status of Consultant Services Authorizations
ATTACHMENT C	OEBO Schedules 1 and 2
ATTACHMENT D	Project Schedule
ATTACHMENT E	Budget Summary
ATTACHMENT F	Summary of SBE-M/WBE Business Tracking
ATTACHMENT G	Location Map

Revised 12/20/2022

ATTACHMENT A

SCOPE OF SERVICES

Project Title: Regional Transfer Pump Station Location Evaluation

PBCWUD Project No.: 23-057

Background:

Palm Beach County Water Utilities Department (PBCWUD) recently completed the Integrated Utility Master Plan (IUMP). As part of the recommended Capital Improvement Projects under the IUMP, there is a proposed transfer pump station to divert flow from the northern portion of the wastewater system to the Southern Region Water Reclamation Facility (SRWRF) west of the turnpike and south of Lantana Road. This proposed transfer pump station project is often referred to as "Lantana Road Booster Pump Station Project. PBCWUD requested Mock Roos & Associates, Inc. (CONSULTANT) to perform a study to further evaluate the feasibility of this project. CONSULTANT has recently evaluated the wastewater system operation in the southern extent of the "north portion" of PBCWUD's service area and will utilize their understanding of system capacities in the Lake Worth Road Corridor to assist in this evaluation. CONSULTANT will utilize the services of C Solutions, Inc. (SUBCONSULTANT) to provide modeling services and other engineering services to support the CONSULTANT for the Transfer Pump Station Location Evaluation.

Scope of Services:

In the IUMP, Tetra Tech, Inc. (Tetra Tech) evaluated a new transfer pump station to be located at Lantana Road and Lyons Road. PBCWUD would like to evaluate other alternative locations for the transfer pump station and the required piping to determine which location(s) are the most suitable to divert flow from the northern portion of the wastewater system to Southern Region Water Reclamation Facility (SRWRF). CONSULTANT will provide preliminary evaluation of potential locations within PBCWUD wastewater transmission system to identify potential alternative locations for a transfer station to divert wastewater flows from North to South. Locations will be selected based on proximity to larger force mains and available sites for pump station construction. CONSULTANT will provide hydraulic modeling services to evaluate up to a total of five (5) locations for a new transfer pump station and/or force main improvements while identifying the wastewater flows available for transfer and impacts to the system pressures both downstream and upstream of the proposed improvements. These efforts are defined in detail below.

The existing hydraulic model previously created by Tetra Technologies, Inc. (Tetra Tech) and updated by Chen Moore and Associates, Inc. (Chen Moore). will be utilized to perform this evaluation. CONSULTANT assumes the existing model has been checked for quality assurance and quality control (QA/QC) and accepted as a final product by PBCWUD and agreed by PBCWUD. CONSULTANT to evaluate model results for each location that will be suggested by CONSULTANT and agreed by PBCWUD. CONSULTANT assumes to receive a complete calibrated model that is functional to perform this evaluation. CONSULTANT assumes the model does not need updates and calibration; and CONSULTANT will review the model flows at the wastewater treatment plants and inform PBCWUD if there are apparent issues regarding the model, or if any variables need to be corrected. If troubleshooting the model is necessary, it will be performed under a supplement Consultant Services Authorization (CSA). PBCWUD understands that the results for this evaluation are reliant on the hydraulic model's assumed wastewater flows and its accuracy. CONSULTANT

will review the wastewater flows provided in the model at each Wastewater Treatment Plant (SRWRF and the East Central Regional Water Reclamation Facility (ECRWRF)) for the existing flow condition scenarios, including average and maximum day (2019) and compare it to the data provided on PBCWUD's Wastewater Treatment Plant (WWTP) flow data (MOR's) for 2019. For future flow condition scenarios (2040), CONSULTANT assumes the projected wastewater flows in the model have been checked and approved by PBCWUD and CONSULTANT does not need to review wastewater flows for future scenarios. If the wastewater flows in the model for existing flow conditions do not match the data provided on PBCWUD's Monthly Operating Reports (MOR's). CONSULTANT will summarize the findings of the wastewater flow review and provide recommendations on updates to wastewater flows in the model to be performed under a supplement.

It is the CONSULTANT'S understanding that PBCWUD'S existing wastewater model has been configured to contribute flow into the transmission system by inserting a negative demand at a model node on the downstream (discharge) side of the pump station, equal to the individual pump station's flows calculated and assigned by either Tetra Tech or Chen Moore. The model does not include pumps or pump curves at each pump station but does include the pumps and the associated pump curves of the major inline booster stations in the system. The model does not have operating controls assigned to the pump stations except for those at the major inline booster stations. CONSULTANT will rely upon the accuracy of the data and information already in the model without field confirmation.

CONSULTANT will utilize its general knowledge of the PBCWUD wastewater transmission system to identify up to ten (10) locations where a transfer pump station and/or force main improvements could be located to beneficially transfer wastewater from the northern portion of the wastewater system to SRWRF. Up to five (5) of the ten (10) locations will be selected by PBCWUD for further evaluation and modeling based on CONSULTANT'S recommendation. The CONSULTANT will then perform hydraulic modeling evaluations for up to five (5) locations under existing demand conditions and future demand conditions as defined below. The existing and future demand conditions presented in the existing model will be utilized and are understood to represent the years 2019 (existing) and 2040 (future). The results of the modeling efforts will be summarized in a technical memorandum.

CONSULTANT will provide engineering and related services for the above-described project as more specifically outlined in the Scope of Services below.

Task 1 – Project Management

Project management includes activities related to initiating, planning, executing, controlling, and closing the Project. Project management activities include project accounting and regular communication with PBCWUD staff on project progress, including four (4) scheduled progress meetings.

Task 2 – Transfer Pump Station Location Selection

CONSULTANT will review available Geographic Information System (GIS) files and Palm Beach County Property Appraiser (PAPA) property ownership and develop exhibits identifying up to ten (10) alternative locations for transfer pump stations and/or force main improvements. CONSULTANT shall attend a review meeting with PBCWUD staff to review the proposed transfer pump station locations/piping connections and identify up to five (5) sites to be evaluated.

CONSULTANT will meet with PBCWUD staff to discuss the exhibits and update the exhibits that will be used for the Task 3 Hydraulic Modeling Evaluation.

Task 3 – Hydraulic Modeling Evaluation

CONSULTANT will provide the services of a SUBCONSULTANT and will briefly review the wastewater flows provided in the model at each Wastewater Treatment Plant (WWTP) for the existing flow condition scenarios, including average and maximum day (2019) and compare it to the data provided on PBCWUD's (WWTP) flow data (MOR's) for 2019. In the case that the flow in the model does not match the actual MOR's data, an effort to adjust the flow in the model will be part of a supplement CSA.

CONSULTANT will provide hydraulic modeling analysis to evaluate up to five (5) alternative locations as selected by PBCWUD for the proposed transfer pump station from the site currently proposed for an inline booster pump station on the existing county owned property on Lantana Road and Lyons Road (Baseline location). For each of the five (5) alternative locations, the available wastewater flow that could be diverted to SRWRF will be quantified based on fixed hydraulic grades at each location and the impacts to the system pressures upstream of the proposed location identified.

The following Extended Period Simulation (EPS) scenarios will be modeled under this scope of services for all five alternative locations:

- Average Day Demand and Maximum Day Demand for Existing Demand Conditions (2019 Scenario in Model)
- Average Day Demand and Maximum Day Demand for Future Demand Conditions (2040 Scenario in Model)

The following will be determined under each of the modeled scenarios mentioned above, for each alternative location:

- Available wastewater flow that could be diverted to SRWRF from each alternative location. These results will be provided as an inflow diurnal over a 24-hour period. Exhibits will be prepared to show new flow direction in force mains to determine which pump station basins are diverted to SRWRF.
- Impacts on system pressures upstream of the transfer pump station location. These results will be provided in a table for each contribution upstream pump station comparing the pressure difference before and after wastewater flow being diverted to SRWRF.

From these five (5) alternatives, locations with the potential to beneficially divert flow to SRWRF in comparison to the Baseline Location (Beneficial Locations) will be further analyzed as specified below. The CONSULTANT will coordinate with PBCWUD to determine the sizes and the location of the necessary force mains to divert flow to SRWRF. The necessary force mains for each beneficial location will then be modeled for analysis. A transfer pump station at each beneficial location will be modeled as a forced inflow node with an elevation set to emulate inline booster set point suction pressures typical for PBCWUD (between 4 pounds per square inch (psi) to 6 psi). The forced inflow will be modeled as an inflow diurnal derived from the analysis performed to determine the available wastewater flow that could be diverted to SRWRF for each specific location.

The following scenarios will be modeled for all beneficial locations:

- Maximum Day Demand for Existing Demand Conditions (2019 Scenario in Model)
- Maximum Day Demand for Future Demand Conditions (2040 Scenario in Model)

The following will be determined under each of the modeled scenarios mentioned above, for each Beneficial Location:

- The wastewater flow route from the transfer pump station to SRWRF. Exhibits will be prepared to show new flow direction in force mains to determine which pump station basins are diverted to SRWRF.
- Impacts on system pressures downstream of the transfer pump station location. These results will be provided in a table for each downstream pump station connected to the determined wastewater flow route from the transfer pump station to SRWRF comparing the pressure difference before and after wastewater flow being diverted to SRWRF.
- Impacts to existing downstream force mains connected to the determined wastewater flow route from the transfer pump station to SRWRF. These results will identify force mains with headloss that exceed an agreed-established criterion.

After performing the above-mentioned evaluations for each beneficial location, the CONSULTANT will identify potential improvements to the sizing of existing downstream force mains on the determined wastewater flow route to alleviate excessive headloss in pipeline segments caused by the additional flow diverted to SRWRF. The identified potential force main improvements will be provided to PBCWUD to evaluate the potential improvement's feasibility, develop existing force main improvement recommendations, and perform cost effectiveness analysis for each recommended alternative.

In addition, CONSULTANT will perform the same above-mentioned steps to verify the wastewater flow that can be diverted by the transfer pump station location on Lantana Road and Lyons Road, and the impacts it has on system pressures. Tetra Tech already evaluated this location, however, PBCWUD has requested CONSULTANT to verify Tetra Tech's findings.

Task 4 – Technical Memorandum

The CONSULTANT will summarize the findings of the above hydraulic evaluations in a Technical Memorandum. The technical memorandum is anticipated to include:

- Summary of the ten (10) potential locations
- Assumptions and coordinated requirements with PBCWUD
- Hydraulic evaluation methodology
- Hydraulic analysis for up to five (5) transfer pump station locations
- Discussion on model results and quantity of flow that can be transferred to SRWRF, impacts to current operation, and graphics showing basins that will be redirected to SRWRF
- Capital cost vs benefit analysis for up to five (5) transfer pump station locations
- Results and recommendations

CONSULTANT will attend a draft Technical Memorandum review meeting with PBCWUD staff and discuss the draft evaluation results and recommendations. CONSULTANT will update the draft evaluation based on feedback from PBCWUD and prepare a final Technical Memorandum. Final Technical Memorandum will be delivered as a Portable Document Format (PDF) and with five (5) hard copies.

Assumptions

- PBCWUD shall provide consultant with existing hydraulic model, current GIS files, and a current graphic showing the closed valves that separate the north and south wastewater collection systems to CONSULTANT within seven (7) days of the Notice to Proceed (NTP). CONSULTANT will rely on this data without field confirmation by the CONSULTANT.
- CONSULTANT assumes the existing model has been checked for quality assurance and quality control (QA/QC) and accepted as a final product by PBCWUD. No updates to the existing model (e.g., modification of inflow data, changes to the existing network configuration) will be made as part of this Scope of Services.
- CONSULTANT assumes that PBCWUD considers the Model to be reliable for performing this transfer pump station location evaluation.
- CONSULTANT assumes that no additional scenarios will be included under this scope of services besides the ones specifically stated in this scope of services.
- Hydraulic modeling will be performed in InfoWater (Compatible with InfoWater Pro) using GIS background information in ArcMap. All existing modeling and GIS information shall be provided in these formats.
- This scope of services does not include the evaluation of any specific upstream and downstream pump station but does identify the impacts on system pressures at upstream and downstream pump stations from the alternative transfer pump station locations.

Deliverables

- A PDF exhibit showing up to ten (10) locations for a proposed transfer pump station.
- A PDF exhibit showing the five (5) locations for a proposed transfer pump station and pipeline routes that are to be modeled.
- A draft PDF of the Technical Memorandum will be provided for PBCWUD's review and comment.
- A final PDF of the Technical Memorandum will be provided for PBCWUD's review.
- Up to five (5) hard copies of the Final Technical Memorandum will be provided to PBCWUD.
- Include GIS Shapefile to be used by PBCWUD.

**ATTACHMENT B
SUMMARY AND STATUS OF CONSULTANT SERVICES AUTHORIZATIONS**

Auth. No.	PBWUD Project No.	Title	Status	Project Total Amount	MBE Total Amount	MBE Participation %	Approved By	Approved Date
1	21-026	Florida Power and Light Water Main Redundancy Installation	Approved	\$428,274.84	\$146,844.34	34.28%	BCC	04/20/2021
2	22-035	Construction Phase Services for Miscellaneous Distribution and Collection Systems Projects	Approved	\$46,910.00	\$0.00	0.00%	WUD	05/09/2023
3	22-076	Lake Worth Road Force Main Improvements	Approved	\$175,242.00	\$48,000.00	27.39%	BCC	02/07/2023
4	22-056	Century Village South Water Main Improvements	Approved	\$336,136.00	\$118,560.00	35.27%	BCC	07/11/2023
5	23-039	Technical Assistance for Capital Improvement Projects	Approved	\$38,600.00	\$0.00	0.00%	WUD	08/10/2023
6	23-057	Regional Transfer Pump Station Location Evaluation	Pending	\$199,507.00	\$78,897.00	39.54%	BCC	Pending

ATTACHMENT C

OEBO SCHEDULE 1

Office of Equal Business Opportunity Compliance Programs

OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: Regional Transfer Pump Station Location Evaluation

SOLICITATION/PROJECT/BID NO.: 23-057

SOLICITATION OPENING/SUBMITTAL DATE: N/A

COUNTY DEPARTMENT: Palm Beach County Water Utilities Department

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

NAME OF PRIME RESPONDENT/BIDDER: Mock, Roos & Associates, Inc.

ADDRESS: 5720 Corporate Way, West Palm Beach, FL 33407

CONTACT PERSON: Thomas A. Biggs, P.E.

PHONE NO.: (561)683-3113, ext 216 E-MAIL: thomas.biggs@mockroos.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$120,610.00

*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE	MBE	WBE	SBE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE Minority Business	WBE Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Asian	Other
	1. C Solutions, Inc. - 610 S.E. 14th Court No. 2, Ft. Lauderdale, FL 33316 (954)320-7899	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$78,897.00	_____	_____	_____	_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____

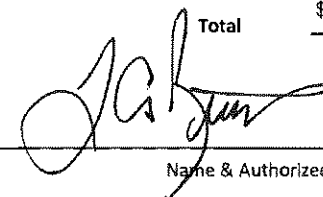
(Please use additional sheets if necessary)

Total \$78,897.00

Total Bid/Offer Price \$ 199,507.00

Total Certified S/M/WBE Participation \$ 78,897.00

I hereby certify that the above information is accurate to the best of my knowledge:



Name & Authorized Signature

Thomas A. Biggs, P.E. Executive Vice President

Title

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

ATTACHMENT C

OEBO SCHEDULE 2

Office of Equal Business Opportunity Compliance
Programs

Revised 12/20/2022

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 23-057

SOLICITATION/PROJECT NAME: Regional Transfer Pump Station Location Evaluation

Prime Contractor: Mock, Roos & Associates, Inc. Subcontractor: C Solutions, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 2/10/23-2/9/26

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.


Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Mechanical Engineering	1	LS		\$78,897.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$78,897.00

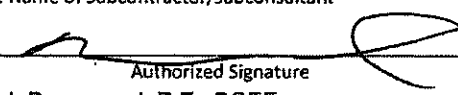
If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

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

Mock, Roos & Associates, Inc.

Print Name of Prime
 By: 
 Authorized Signature
Thomas A. Biggs, P.E.
 Print Name
Executive Vice President
 Title
 Date: 1/17/24

C Solutions, Inc.

Print Name of Subcontractor/subconsultant
 By: 
 Authorized Signature
Mark Drummond, P.E., BCEE
 Print Name
President
 Title
 Date: 1/17/2024

ATTACHMENT D

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

<u>Engineering Services</u>		<u>Completion Date from Notice to Proceed (Calendar Days)</u>
TASK 1	PROJECT MANAGEMENT	210
TASK 2	TRANSFER PUMP STATION LOCATION SELECTION	60
TASK 3	HYDRAULIC MODELING EVALUATION	150
TASK 4	TECHNICAL MEMORANDUM	210

**Calendar days included assume that PBCWUD review time for submittals will be 14 days.*

Revised 12/20/2022

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services: Pressure Pipeline Engineering Services
Resolution No.: R2021-0505 Contract Dated: April 20, 2021
Consultant Services Authorization: No. 6
Consultant: Mock, Roos & Associates, Inc.
Project Title: Regional Transfer Pump Station Location Evaluation
PBCWUD Project No.: 23-067

BUDGET SUMMARY FOR FIRM		MOCK, ROOS & ASSOCIATES, INC.								PRIME TOTALS			
Task Number	Task Description	Principal	Senior Project Manager	Senior Project Engineer	Project Engineer II	Project Engineer I	Sr. CAD/Jr. Designer	Sr. Field Representative	Sr. Project Administrator	Total Hours	Total Labor	Reimbursables and Reproducibles	Total Labor/Reimbursables and Reproducibles
	Raw Rate RANGE frm MASTER EXHIBIT C	\$75 - \$85	\$59 - \$80	\$45 - \$65	\$31 - \$45	\$28 - \$31	\$50 - \$60	\$47 - \$55	\$30 - \$35				
	Raw Rate >	\$76.67	\$63.33	\$53.67	\$34.67	\$29.33	\$53.33	\$47.33	\$31.00				
	Multiplier >	3	3	3	3	3	3	3	3				
	Bill Rate >	\$230	\$190.00	\$161.00	\$104.00	\$88.00	\$160.00	\$142.00	\$93.00				
TASK 1	PROJECT MANAGEMENT												
	<i>Project Management</i>	24	44	26					12				
	Task 1 - Subtotal Hours	24	44	26	0	0	0	0	12	106	\$ 19,182.00	\$0.00	\$ 19,182.00
TASK 2	TRANSFER PUMP STATION LOCATION SELECTION												
	<i>Transfer Pump Station Location Selection</i>	24	88	128					20				
	Task 2 - Subtotal Hours	24	88	128	0	0	0	0	20	260	\$ 44,708.00	\$0.00	\$ 44,708.00
TASK 3	HYDRAULIC MODELING EVALUATION												
	<i>Hydraulic Modeling Evaluation</i>	10	10	40	40				0				
	Task 3 - Subtotal Hours	10	10	40	40	0	0	0	0	100	\$ 14,800.00	\$0.00	\$ 14,800.00
TASK 4	TECHNICAL MEMORANDUM												
	<i>Technical Memorandum</i>	16	80	120					40				
	Task 4 - Subtotal Hours	16	80	120	0	0	0	0	40	256	\$ 41,920.00	\$0.00	\$ 41,920.00
	Labor Hours	74	222	314	40	0	0	0	72	722			
	Labor Raw Costs	\$ 5,673.33	\$ 14,060.00	\$ 16,851.33	\$ 1,386.67	\$ -	\$ -	\$ -	\$ 2,232.00		\$ 40,203.33		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 17,020.00	\$ 42,180.00	\$ 50,554.00	\$ 4,160.00	\$ -	\$ -	\$ -	\$ 6,696.00		\$ 120,610.00		
	PROJECT TOTAL									722	\$ 120,610.00	\$0.00	\$ 120,610.00

**EXHIBIT A-1
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services Lift Station Rehabilitation WUD Project No. 20-035 Package CD08
Resolution No. R2021-0505 Contract Dated April 20, 2021
Consultant Services Authorization: No. 6
Consultant: C Solutions, Inc. (Subconsultant to Mock Roos & Associates, Inc.)
Project Title: Regional Transfer Pump Station Location Evaluation
WUD Project No.: 23-057

BUDGET SUMMARY FOR FIRM									LABOR TOTALS			
Task Number	Task Description	Project Director	Senior Technical Expert	Senior Project Manager	Engineer	Senior Designer	Designer	Administrative Assistant	Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE	\$85 - \$98	\$75 - \$125	\$45 - \$85	\$23 - \$32	\$35 - \$55	\$20 - \$35	\$25 - \$35				
	Raw Rate >	\$ 96.00	\$ 79.00	\$ 53.00	\$ 32.00	\$ 45.00	\$ 25.00	\$ 31.00				
	Multiplier >	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	Bill Rate >	\$ 288.00	\$ 237.00	\$ 159.00	\$ 96.00	\$ 135.00	\$ 75.00	\$ 93.00				
TASK 1	Project Management	6	4	18				2	30	\$ 5,724.00	\$ -	\$ 5,724.00
TASK 3	Hydraulic Modeling Evaluation	16	35	164	101		30		346	\$ 50,925.00	\$ -	\$ 50,925.00
TASK 4	Technical Memorandum	16	16	50	34	14		8	138	\$ 22,248.00	\$ -	\$ 22,248.00
	Task 1 - Subtotal	38	55	232	135	14	30	10	514	\$ 78,897.00	\$ -	\$ 78,897.00
	Labor Subtotal Hours	38	55	232	135	14	30	10	514			
	Labor Raw Costs	\$ 3,648.00	\$ 4,345.00	\$ 12,296.00	\$ 4,320.00	\$ 630.00	\$ 750.00	\$ 310.00		\$ 26,299.00		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 10,944.00	\$ 13,035.00	\$ 36,888.00	\$ 12,960.00	\$ 1,890.00	\$ 2,250.00	\$ 930.00		\$ 78,897.00		
	PROJECT TOTAL								514	\$ 78,897.00	\$ -	\$ 78,897.00

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services: Pressure Pipeline Engineering Services
 Resolution No.: R2021-0505 Contract Dated: April 20, 2021
 Consultant Services Authorization: No. 6
 Consultant: Mock, Roos & Associates, Inc.
 Project Title: Regional Transfer Pump Station Location Evaluation
 PBCWUD Project No.: 23-057

BUDGET SUMMARY

Task Number	Task Description	PRIME	SUBCONSULTANTS	
			C Solutions, Inc.	TOTAL
	OEOB APPROVED AWARDED CATEGORY	Non-SBE	SBE + M/WBE (Black)	
TASK 1	PROJECT MANAGEMENT			
	<i>Project Management</i>	\$ 19,182.00	\$ 5,724.00	\$ 24,906.00
	Task 1 - Subtotal	\$ 19,182.00	\$ 5,724.00	\$ 24,906.00
TASK 2	TRANSFER PUMP STATION LOCATION SELECTION			
	<i>Transfer Pump Station Location Selection</i>	\$ 44,708.00	\$ -	\$ 44,708.00
	Task 2 - Subtotal	\$ 44,708.00	\$ -	\$ 44,708.00
TASK 3	HYDRAULIC MODELING EVALUATION			
	<i>Hydraulic Modeling Evaluation</i>	\$ 14,800.00	\$ 50,925.00	\$ 65,725.00
	Task 3 - Subtotal	\$ 14,800.00	\$ 50,925.00	\$ 65,725.00
TASK 4	TECHNICAL MEMORANDUM			
	<i>Technical Memorandum</i>	\$ 41,920.00	\$ 22,248.00	\$ 64,168.00
	Task 4 - Subtotal	\$ 41,920.00	\$ 22,248.00	\$ 64,168.00
	TOTAL PROJECT	\$ 120,610.00	\$ 78,897.00	\$ 199,507.00
	Percentage	60.454%	39.540%	100.000%
	PRIME	\$ 120,610.00	60.45%	
	SBE	\$ 78,897.00	39.54%	C Solutions, Inc.
	MBE (Black)	\$ 78,897.00	39.54%	C Solutions, Inc.

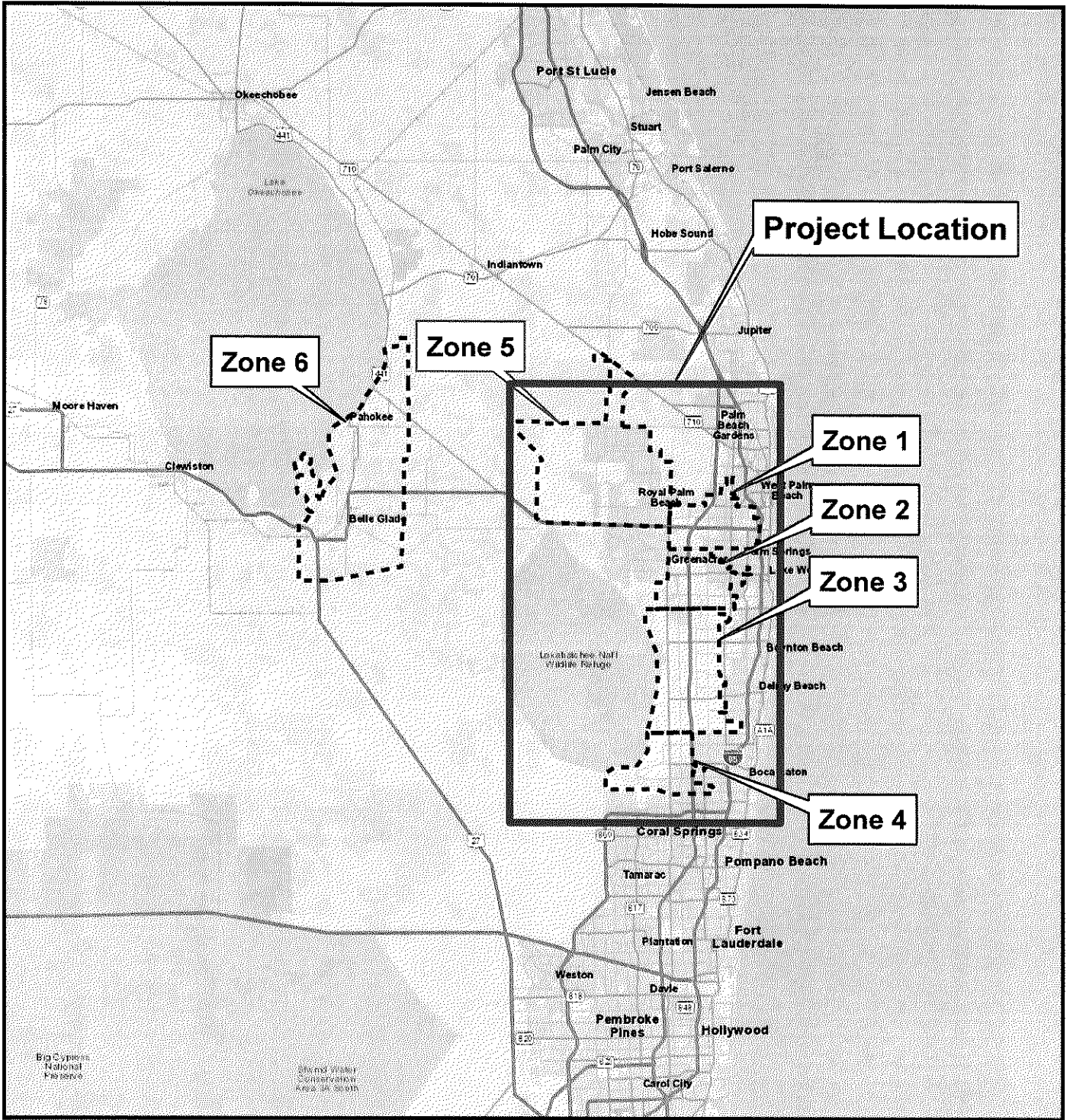
Revised 12/20/2022

ATTACHMENT F

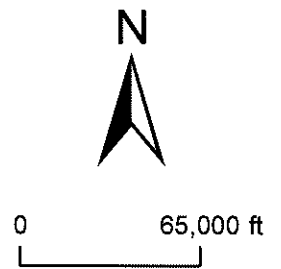
Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services
 Pressure Pipeline Engineering Services
 Resolution No. R2021-0505 Contract Dated April 20, 2021

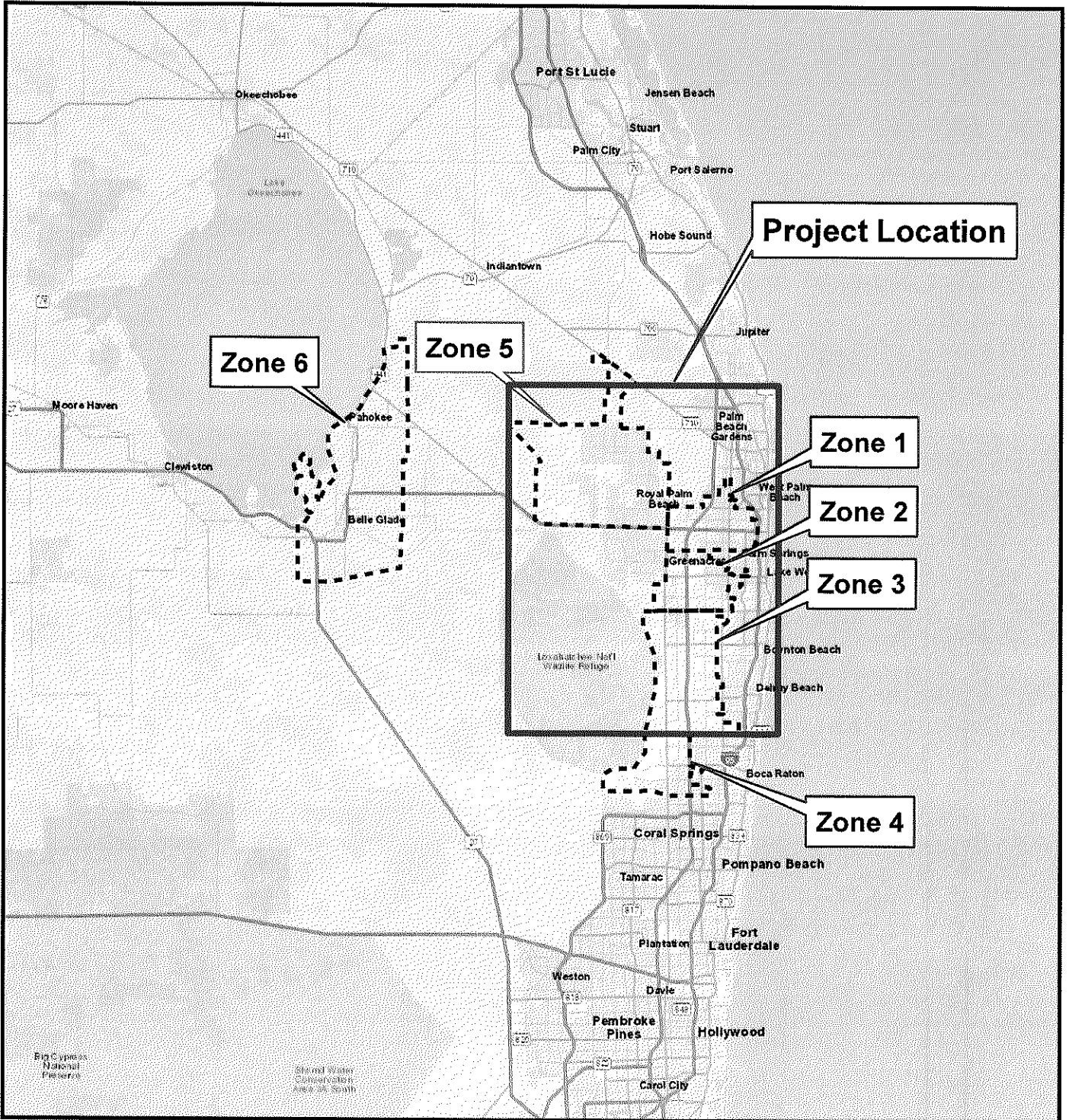
**SUMMARY OF
 SBE-M/WBE BUSINESS TRACKING**

Master Contract Goals	SBE: 34%	M/WBE: 34%	MBE (Black): 34%
Current Proposal			
Value of Authorization No. 6	\$ 199,507.00	\$ 199,507.00	\$ 199,507.00
Value of SBE-M/WBE Letters of Intent	\$78,897.00	\$78,897.00	\$ 78,897.00
Actual Percentage	39.54%	39.54%	39.54%
Signed/Approved Authorizations			
Total Value of Authorizations	\$1,025,162.84	\$1,025,162.84	\$1,025,162.84
Total Value of MBE Signed Subcontractors	\$313,404.34	\$313,404.34	\$313,404.34
Actual Percentage	30.57%	30.57%	30.57%
Signed/Approved Authorizations Plus Current Proposal			
Total Value of Authorization	\$1,224,669.84	\$1,224,669.84	\$1,224,669.84
Total Value of Subcontractors & Letters of Intent	\$392,301.34	\$392,301.34	\$392,301.34
Actual Percentage	32.03%	32.03%	32.03%



Attachment G
Project Location Map
CSA No. 6
Regional Transfer Pump Station
Location Evaluation
Palm Beach County Water Utilities Department
PBCWUD Project No. WUD 23-057





	<p style="text-align: center;"> Attachment 2 Project Location Map CSA No. <u>6</u> Regional Transfer Pump Station Location Evaluation Palm Beach County Water Utilities Department PBCWUD Project No. WUD 23-057 </p>	
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ATTACHMENT 3

**Palm Beach County
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00001988	Mock, Roos & Associates, Inc.	Modified	Compliant					20-044	Pressure Pipeline Engineering Services
		Ag , XV	The Continental Insurance Company	7063909307	1/1/2024	1/1/2025	Auto Liability		
		Ag , XV	The Continental Insurance Company	CUE5084970362	1/1/2024	1/1/2025	Excess Liability		
		Ag , XV	American Casuaity Company of Reading, Pennsylvania	5084971043	1/1/2024	1/1/2025	General Liability		
		A+g , XV	XL Specialty Insurance Company	DPR5011927	4/26/2023	4/26/2024	Professional Liability		
		Ag , XV	Valley Forge Insurance Company	WC5084970328	1/1/2024	1/1/2025	Workers Comp		

Risk Profile : Standard - Professional Services

Required Additional Insured : Palm Beach County Board of County Commissioners

Ownership Entity :