

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: March 13, 2018

Consent Regular
Public Hearing

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 3 for Improvements to Lift Stations 393, 1023, 5133 and the Abidjan Estates' Lift Station Project (Project) with Baxter & Woodman, Inc., d/b/a Mathews Consulting in the amount of \$191,739.31

Summary: On June 20, 2017 the Board of County Commissioners (BCC) approved the Water Utilities Department (WUD) Contract for Consulting/Professional Services for General Utility, Architectural & Value Engineering Services with Baxter & Woodman, Inc., (R2017-0815). Lift Stations 393, 1023, 5133 and the Abidjan Estates' Lift Station are operating with components past their expected service life and require improvements to meet WUD standards. CSA No. 3 provides engineering services, including but not limited to, design, permitting and bidding services for these improvements. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance is 15% overall. The Contract with Baxter & Woodman, Inc., provides for SBE participation of 26% overall. CSA No. 3 includes 39.04% overall participation. The cumulative SBE participation, including CSA No. 3, is 30.35% overall. Baxter & Woodman, Inc., is headquartered in Crystal Lake, Illinois but maintains an office in Palm Beach County from which the majority of the work under CSA No. 3 will be undertaken. The Project is in the FY18 Capital Improvement Plan adopted by the BCC. (WUD Project No. 17-064) District 1, 4, and 6 (MJ)

Background and Justification: Completion of this work will restore the service life of the identified lift stations and improve the long-term operability and reliability of the County's wastewater system.

Attachments:

1. Location Map
2. Four (4) Original CSA No. 3
3. ITS Summary Certificate

Recommended By: Jim Stiles Department Director 2-9-18 Date

Approved By: [Signature] Deputy County Administrator 2/20/18 Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2018	2019	2020	2021	2022
Capital Expenditures	<u>\$191,740</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>\$191,740</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Budget Account No.:	Fund <u>4011</u>	Dept <u>721</u>	Unit <u>W031</u>	Object <u>6546</u>	

Is Item Included in Current Budget? Yes X No
 Does this item include the use of federal 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: _____

III. REVIEW COMMENTS

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

Juan Ponce 2/14/18
 OFMB (P) 2/14/18
John J. Janshaw 2/15/18
 Contract Development and Control 2/15/18

B. Legal Sufficiency:

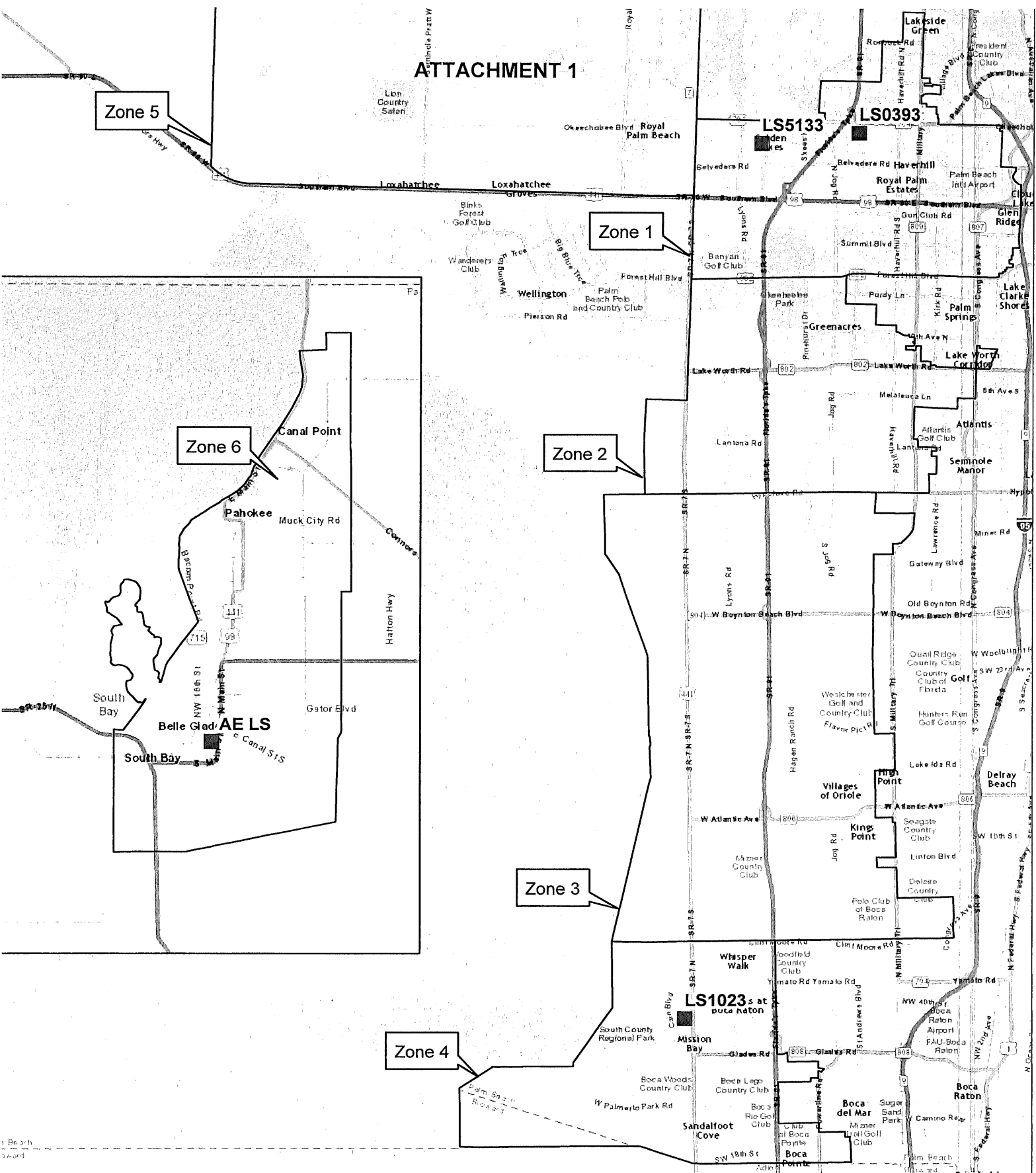
[Signature] 2/26/18
 Assistant County Attorney

C. Other Department Review:

 Department Director

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

ATTACHMENT 1




**Palm Beach County
Water Utilities
Department**


8100 Forest Hill Blvd.
West Palm Beach, FL 33416
(561) 493-6251

**Improvements to Lift Station
(LS) 393, 1023, 5133, and
Abidjan Estates (AE)**

WUD Project No. 17-064


Location Map


N



1 in = 20,000 ft

Legend

 WUD Zones

 Lift Station

CONSULTANT SERVICES AUTHORIZATION NO. 3

Project Title: Improvements to Lift Stations 393, 1023, 5133 and the Abidjan Estates Lift Station

Project No. WUD: 17-064

Budget Line Item No.: 4011-721-W031-6546

District No.: 1 (Lift Station No's. 5133 and 393), 4 (Lift Station No. 1023), 6 (Abidjan Estates Lift Station)

THIS AUTHORIZATION No. 3 to the Contract for Consulting/Professional Services dated June 20, 2017 (R2017-0815), by and between Palm Beach County and the Consultant identified herein, is for the Consultant Services described in Item 3 of this Authorization. The Contract provides for 26% SBE participation overall. This Consultant Services Authorization includes 39.04% overall participation. The cumulative SBE participation, including this authorization is 30.35% overall. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. CONSULTANT: Baxter & Woodman, Inc.,
d/b/a Mathews Consulting, a Baxter & Woodman Company (MC/B&W)

2. ADDRESS: 477 S. Rosemary Ave., Suite 330, West Palm Beach, Florida 33401

3. Description of Services to be provided by the Consultant:

Baxter & Woodman will provide engineering services, including, but not limited to, project management, data collection, hydraulic modeling for Lift Station (LS) 5133 service area, design, permitting, and bidding services for the improvements at LS 393, 1023, 5133 and the Abidjan Estates Lift Station. For a description of these services, see **ATTACHMENT A.**

4. Services completed by the Consultant to date (Summary and Status of Authorizations):

See ATTACHMENT E.

5. Consultant shall begin work upon receipt of Notice to Proceed correspondence.

6. 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 \$ XXX

B. Fixed price of \$ 191,739.31

7. 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.

Project Title: Improvements to Lift Stations 393, 1023, 5133, and the Abidjan Estates Lift Station

8. SBE participation is included in Attachment D under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each subconsultant (Letter of Intent to perform as an SBE).
9. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated June 20, 2017 remain in full force and effect.

Project No. WUD: 17-064

Consultant Services Authorization No. 3

Project Title: Improvements to Lift Stations 393, 1023, 5133, and the Abidjan Estates Lift Station

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

Palm Beach County,
Board of County Commissioners

ATTEST:

Signed: _____

Signed: _____

Melissa McKinlay, Mayor

JCS

Typed Name: _____
Deputy Clerk

_____ Date

Approved as to Form and Legal
Sufficiency

Signed: _____

Typed Name: _____
County Attorney

CONSULTANT: _____
Baxter & Woodman, Inc., d/b/a
Mathews Consulting, a Baxter & Woodman
Company

(Signature)

Rene L. Mathews, P.E., Vice President
(Name and Title)

12-19-17
_____ Date

LIST OF ATTACHMENTS

Project No. WUD: 17-064

Consultant Services Authorization No. 3

Project Title: Improvements to Lift Stations 393, 1023, 5133, and the Abidjan Estates Lift Station

ATTACHMENT - A	Scope of Work
ATTACHMENT - B	Budget Summary
ATTACHMENT - C	Project Schedule
ATTACHMENT - D	SBE Schedule 1, 2, 3a and 4
ATTACHMENT - E	Authorization Status Report - Summary and Status of Authorizations
ATTACHMENT - F	Authorization Status Report – Summary of SBE Tracking
ATTACHMENT - G	Location Map

ATTACHMENT A

CONSULTANT SERVICES AUTHORIZATION NO. 3

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK FOR

Improvements to Lift Stations 393, 1023, 5133 and the Abidjan Estates Lift Station

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services - Palm Beach County Water Utilities Department, WUD Project No. 17-004 (CONTRACT) with Baxter & Woodman, Inc., d/b/a/ Mathews Consulting, a Baxter & Woodman Company (MC/B&W or CONSULTANT) to provide engineering services for various general activities on June 20, 2017 (Reference Document R2017-0815). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses services related to providing engineering services for design, permitting, bidding services and assistance with the development of the Construction WA for the upgrades and improvements at COUNTY LS's 393, 1023, 5133 and the Abidjan Estates Lift Station.

BACKGROUND

The COUNTY has requested the CONSULTANT to provide data collection, hydraulic modeling for the LS 5133 service area, engineering design, permitting and bidding services for the upgrades and improvements at Lift Stations 393, 1023, 5133 and the Abidjan Estates Lift Station. A summary of the proposed upgrades and improvements at each lift station site are included herein.

Lift Station 393 (PBCWUD – Zone 1)

The existing submersible type lift station is located within the right-of-way of Drexel Road in West Palm Beach, Florida. As part of the current project, consideration will be given to the design of a new lift station, including wet well and valve vault, at an alternate location outside of the right-of-way. If relocation of the lift station is not feasible, the existing wet well will be rehabilitated including new hatch cover, safety grate system and protective coatings. Enhancements shall also include protection of the lift station from errant traffic and the existing canal located immediately north of the station. The existing valve vault will also be replaced with a larger vault. The hatch covers for the wet well and valve vault will be H-20 rated for occasional traffic. The project scope will also include the replacement of all mechanical components (pumps, piping, fittings, valves, base elbows, base plates, guide rails, etc.). The replacement pumps will be sized based on a desktop review of the current influent flows to the station. The COUNTY shall provide the CONSULTANT with existing operational data including pump run times, performance curves and discharge pressure data. The project will also include the demolition of the existing electrical system and components. New electrical systems

including a new rack mounted control panel and interconnecting conduit and cabling shall be included in the design. The existing RTU shall be retained and reused. If the station is relocated the project will include the design of a new primary electrical service feed. The new control panel will be equipped with a generator receptacle. A permanently installed generator unit is not included in the current scope of work. All instrumentation and control (I&C) system components including field elements will be replaced as part of the current project.

Lift Station 1023 (PBCWUD – Zone 4)

The existing submersible type lift station is a dry-pit type lift station which is located between and in close proximity to two (2) residential properties off Back Nine Drive in Boca Raton, Florida. The COUNTY desires to replace the existing dry-pit type lift station with a submersible type lift station including wet well and valve vault in accordance with the COUNTY's current standards. All new structures and components will be located within an existing easement. The project scope also includes the installation of all mechanical components (pumps, piping, fittings, valves, base elbows, base plates, guide rails, etc.). The replacement pumps will be sized based on a desktop review of the current influent flows to the station. The COUNTY shall provide the CONSULTANT with existing operational data including pump run times, performance curves and discharge pressure data. Demolition of the existing dry-pit, wet well and electrical systems and components will also be completed. New electrical systems including a new rack mounted control panel, RTU (if adequate space available) and interconnecting conduit and cabling shall be included in the design. The new control panel will be equipped with a generator receptacle. A permanently installed generator unit is not included in the current scope of work. All instrumentation and control (I&C) system components including field elements will be replaced as part of the current project.

Lift Station 5133 (PBCWUD – Zone 1)

The lift station is located at the east end of 15th Street North in West Palm Beach, Florida. Project scope generally includes the replacement of the existing submersible type lift station, which includes two (2) interconnected wet wells, with an inline booster pump station (See **Subtask 3.1**), if feasible. CONSULTANT shall prepare a hydraulic model to evaluate the impacts which an inline booster pump station would have, if any, on the twenty-four (24) upstream lift stations. If conversion to an inline booster pump station is determined to be infeasible, Staff indicated that the preference is to install a single wet well, with dedicated valve vault, which is appropriately sized for the significant flows diverted to the station. If demolition of the two existing wet wells is also not feasible, the existing wet wells and valve vault will be rehabilitated including new hatch covers, safety grate systems and protective coatings. Under any scenario, all mechanical components (pumps, piping, fittings, valves, base elbows, base plates, guide rails, etc.) will be included or replaced as part of the design. The project will also include the demolition of the existing electrical building and components. New electrical systems including a new primary electrical service feed as well as a rack mounted (i.e. no electrical building) control panel, variable frequency drives (VFD's), remote telemetry unit (RTU) and interconnecting conduit and cabling shall be included in the design. There is an existing standby generator unit with dedicated fuel tank at the site which, per Staff, are newer and adequately sized for the current loads. As part of the project, a review of the generator unit sizing will be performed to verify that the unit will be appropriate for continued use following the completion of the proposed improvements. The existing manual transfer switch will be upgraded to an automatic transfer switch (ATS). The design of a replacement standby generator unit, if required, is not included in the current scope of work. All instrumentation and control (I&C) system components including field elements will be replaced as part of the current project.

Abidjan Estates Lift Station (PBCWUD – Zone 6)

The Abidjan Estates submersible type lift station is located adjacent to the northeast corner of Dabou Loop in Belle Glade, Florida. The station was originally designed to convey wastewater collected from Phase 1 of the Abidjan Estates Development area. Phase 1 was originally intended to include approximately ninety-one (91) residences. At the present time only nineteen (19) homes have been constructed within the development with no apparent plans for future development. As part of the current project, a review of the current and future wastewater flow demands of the Abidjan Estates community will be performed to ensure that all replacement pumps and systems are appropriately sized for the level of service required.

The project rehabilitation scope generally entails the rehabilitation of the existing lift station wet well, valve vault and electrical and I&C systems. Replacement of all mechanical components (pumps, piping, fittings, valves, base elbows, base plates, guide rails, etc.) is anticipated. Based on a visual inspection of the lift station, the existing wet well top slab and hatch will also need to be replaced due to non-standard conditions. Consideration will also be given to replacement of the existing valve vault, piping and valves due to significant wear as a result of regular and persistent submergence in raw sewage. All replacement hatches shall be equipped with safety grate systems. The surface preparation and recoating of the interior of the existing wet well and valve vault structures (if retained) will be performed. The project will also include the complete demolition and replacement of the existing electrical system and components. New electrical systems including a new rack mounted control panel, RTU and interconnecting conduit and cabling will be included in the design. The new control panel will be equipped with a generator receptacle. A permanently installed generator unit is not included in the current scope of work. All instrumentation and control (I&C) system components including field elements will be replaced as part of the current project. A review of the existing FPL electrical service will be completed to determine the adequacy of the existing service.

SCOPE OF SERVICES

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

Task 1 – Project Management

Subtask 1.1 Overall Project Management

CONSULTANT shall provide overall project management, which includes monitoring progress of work on a weekly basis for billing and compliance with established schedule, budget and work quality requirements, and coordination with COUNTY and team subconsultant(s) to ensure timely project deliverables and budget management.

Subtask 1.2 Design Workshop Meetings

CONSULTANT shall attend one (1) Kick-off Meeting and three (3) Design Review Meetings with the COUNTY. CONSULTANT will lead each of these Meetings and provide Meeting Agendas with Sign-in Sheet. Meeting Minutes shall be produced by the CONSULTANT within three (3) calendar days of the Meeting. These Meetings will be exclusive of other Meetings identified herein.

Task 2 – Data Collection

Subtask 2.1 Survey Verification

CONSULTANT shall provide survey services through its subconsultant, consisting of site boundary and field topography including vertical and horizontal locations for the existing site features and structures. All existing facilities and utilities within the project area (design limits) will be referenced and will include the following:

1. Topographic surveys shall be performed at all submersible type lift station sites, excluding LS-1023 (Total of 3). Topographic survey data shall be collected at 25-foot intervals and at major ground elevation changes to depict existing ground profile within the proposed project areas. This shall be accomplished by collecting pertinent data which shall include the following:
 - a. Location of all visible fixed improvements within the project areas, including physical objects, roadway pavement, driveways, sidewalks, curb, trees, signs, fences, power poles, buildings (including finished floor elevations), and other permanent site features.
 - b. Location of all known above and below ground existing utilities: FPL, AT&T, Cable TV, Natural Gas, Potable Water (pipe diameter, top of pipe (TOP), valves, fire hydrants, and meters), Force Mains (pipe diameter, TOP, and valves), Sanitary Sewer (pipe diameter, manhole inverts and direction, rim elevations, laterals, and clean-outs), Storm Sewers (pipe diameter, manhole inverts and direction, catch basins, and rim/grate elevations), and all other accessible structures and facility piping.
 - c. Elevations within each lift station area shall be indicated on a minimum 25-foot grid (based on NAVD 88 datum), and will indicate site grades, edge of pavement grades and shoulder grades, low points and all property or easement lines. Intermediate grades shall also be indicated at all structures, above grade features, driveways and sidewalks.
 - d. Elevations to be referenced to an existing established City or County Benchmark.
2. Site boundary surveys shall be performed at all submersible type lift station sites, excluding LS-1023 (Total of 3). The boundary surveys shall identify platted rights-of-way, property boundaries, lot numbers, addresses, block numbers, dedicated easements and encumbrances at all lift stations. Title searches shall be performed at each site as required to identify all encumbrances, easements, rights-of-way, etc. Boundary survey extents shall be shown to 25-ft beyond the established boundary or easement at each lift station site.
3. The above boundary and topographical survey data will be prepared in AutoCAD (Version 2016) format at a scale of 1"=20'. The CAD drawing shall also include:
 - Location of utility pot holing performed at all project lift stations.
 - Location of buried structures and utilities discovered during subsurface utility targeting at each lift station site.
4. Upon receipt of the survey data, CONSULTANT shall "ground truth" the new information through field verification. CONSULTANT shall perform a field reconnaissance at each lift

station site. Photograph log walk-through will be included. Potential existing conflicts will be identified.

5. Upon finalizing the site layouts for each lift station site it is anticipated that the COUNTY may be required to acquire and record appropriate land use easements from potentially affected property owners. It is estimated that Sketch and Descriptions will be required for up to three (3) lift station sites (LS-1023 excluded). The cost of providing the services of a professional land surveyor to prepare a "Sketch and Description" for each lift station site will be treated as an allowance with an authorized upper limit (\$1,500.00). The COUNTY shall be responsible for securing and recording all required easements.

Subtask 2.2 Field Verification

CONSULTANT shall furnish the services of a professional underground services company to provide underground field locations of affected existing utilities. The work shall consist of measuring and recording the approximate horizontal, vertical, width and depth data of affected utilities within the project limits. It is estimated that a maximum of thirty (30) utility locations will need to be pot-holed.

The professional underground services company shall also provide subsurface utility targeting at each lift station site. The work shall consist of conducting a thorough electronic search for buried utility systems and infrastructure. The investigation will be accomplished using active and passive type utility detection gear that detects induced or naturally occurring energy fields present on conductive utilities. Field sheets will be generated that show the location, trend and configuration of utilities detected. The cost of providing the professional underground services company will be treated as a utility allowance with an authorized upper limit (\$13,500.00).

Subtask 2.3 Geotechnical Evaluation

CONSULTANT shall furnish the services of a professional geotechnical engineer to provide subsurface investigations of the project area that will include:

- Perform three (3) standard penetration test (SPT) borings at LS 5133, 393, and 1023 to a depth of 30-ft below grade, as required. The SPT boring shall be located within the limits of the footprint of the proposed wet well at each lift station site.
- Evaluate field data collected and provide geotechnical engineering evaluation report.
- One (1) hard copy of the signed & sealed Geotechnical Report shall be provided to the COUNTY along with an electronic copy.

Task 3 - Design Services

Subtask 3.1 Hydraulic Modeling and Technical Memorandum

CONSULTANT shall provide engineering services to evaluate and determine the feasibility of decommissioning, demolishing and replacing existing LS 5133 with an inline booster pump station. The work scope shall consist of evaluating and establishing the wastewater flow requirements of up to twenty-four (24) upstream lift stations as well as LS 5133. The intent of the flow evaluation will be to determine the impacts which the installation of an inline booster pump station will have on the site specific operating characteristics of each station. This subtask shall include:

- CONSULTANT shall review and summarize the capacity and equipment characteristics for each of the area lift stations which include up to twenty-four (24) minor lift stations as

well as “master” LS 5133. Data will include: number of pumps, pump make/model, design capacity, run times, daily start/stops and daily wastewater flows.

- CONSULTANT shall utilize pump run time data (previous 1 to 2 years) and pump curve data for each of the lift stations to establish current (baseline) wastewater flows for each lift station.
- CONSULTANT shall perform field pump drawdown tests at up to twenty-four (24) lift stations to confirm the pump operating capacities and system pressures. CONSULTANT shall compare the field data with the historical operations data (flow, pump run times and daily start/stops).
- CONSULTANT shall perform a general hydraulic analysis of the force main network for up to twenty-four (24) upstream lift stations. The hydraulic analysis shall be performed using WaterCad® computerized hydraulic modeling software.
- Upon completion of the hydraulic modeling, CONSULTANT shall evaluate and develop conceptual design criteria for the proposed inline booster pump station at the LS 5133. The following design criteria shall be considered:
 - Number of pumping units
 - Pump capacities
 - Suction and discharge pressure criteria, including minimum “boost” pressure.
 - Suction and discharge pipe sizing and material types.
 - Site layout
 - Process control and instrumentation
 - Site electrical requirements.
- CONSULTANT shall prepare a conceptual level, Engineer’s Opinion of Probable Construction Cost estimate for the implementation of an in-line booster pump station at the existing lift station at LS 5133 site.
- CONSULTANT will prepare a PowerPoint presentation to review the findings of the evaluation, present on the feasibility, and provide a recommendation on this selection with PBCWUD staff. An alternative analysis shall be done on the feasibility of converting the lift station to an in-line booster as opposed to leaving as a submersible type.
- CONSULTANT shall prepare and submit a DRAFT Technical Memorandum (TM) which summarizes the findings and conclusions of the hydraulic modeling and booster pump station evaluation. Upon receipt of comments from the COUNTY, CONSULTANT shall address and/or incorporate any comments and submit a FINAL TM. Four (4) copies of the DRAFT and FINAL Summary Technical Memorandum shall be prepared and submitted to the COUNTY.

Subtask 3.2 Utility Coordination

CONSULTANT shall coordinate with the utility agencies (electric, phone, gas, cable TV, and fiber optics, etc.) to collect record information to identify the locations of the existing above grade and buried utilities within the limits or immediately adjacent to each lift station area. This Subtask includes reconciling apparent discrepancies between record information and existing photographic and field-verification information.

Subtask 3.3 Meeting and Coordination with Regulatory Agencies

CONSULTANT shall coordinate and meet, if necessary, with Palm Beach County Land Development, Florida Department of Transportation (FDOT), and any other Roadway Departments to discuss and determine the necessary permitting conditions, constraints and/or upcoming road improvement projects that may coincide or conflict with this project. The CONSULTANT shall discuss and explore cost-sharing possibilities for potential milling and resurfacing or any other opportunities that may be available as part of this project. CONSULTANT shall advocate the advancement of the COUNTY's objectives relevant to this project with others. Meeting minutes shall be provided for all meetings within three (3) calendar days of the meeting. A total of three (3) meetings with regulatory agencies is included within the scope of work.

Subtask 3.4 Design Drawings

CONSULTANT shall prepare Construction Documents which shall include: cover sheet, general notes, civil plan drawings, mechanical, structural, electrical, instrumentation and miscellaneous detail sheets conforming to the requirements of COUNTY's minimum construction standards. Consultant shall prepare the engineering design elements on topographic survey information prepared by CONSULTANT's surveyor using AutoCAD (Version 2016) and available as-built drawings. CONSULTANT shall coordinate with COUNTY in order to design the proposed lift station modifications and improvements in accordance with the requirements and design standards of the COUNTY.

CONSULTANT shall prepare the engineering design elements utilizing the CONSULTANT'S standard layering system. Three (3) sets of hard copy 22x34 and two (2) sets of hard copy 11x17 drawings shall be submitted for COUNTY review at 60% and 90% completion stages. CONSULTANT shall meet with the COUNTY to discuss comments, and incorporate comments into final documents.

CONSULTANT shall furnish the COUNTY with four (4) sets of hard copy 22x34 and two (2) sets of hard copy 11x17, 100% Construction Set drawings, plus one (1) set of PDF and AutoCAD (Version 2016) files in electronic format on CD.

Subtask 3.5 Specifications

CONSULTANT shall prepare construction documents consisting of technical specifications which include the specific product and execution requirements for the proposed upgrades and improvements at each lift station site. The technical specifications shall conform to the requirements of the COUNTY's minimum construction standards and Approved Materials and Equipment List.

CONSULTANT shall prepare the technical specifications in WORD.doc format. Three (3) sets of hard copy technical specifications shall be submitted for COUNTY review at 60% and 90% completion stages. CONSULTANT shall meet with the COUNTY to discuss comments, and incorporate comments into final documents.

CONSULTANT shall furnish the COUNTY with four (4) sets of hard copy technical specifications, plus one (1) set of PDF and WORD.doc files in electronic format on CD.

Subtask 3.6 Construction Cost Opinion

At the 60%, 90% and 100% design completion stages, CONSULTANT shall prepare a detailed opinion of probable construction cost based upon the level of design drawings and
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specifications approved by the COUNTY. The cost opinion shall reflect changes in general scope, extent or character of design requirements incorporated during the various design review stages. Three (3) hard copies of the Construction Cost Opinion shall be submitted at the 60% and 90% completion stages. Four (4) hard copies of the Construction Cost Opinion shall be submitted at the 100% completion stage. One (1) electronic copy in PDF format shall be submitted at each design stage.

Subtask 3.7 Quality Assurance

CONSULTANT shall provide internal QA/QC reviews on the 60%, 90% and 100% Construction Set Documents.

Subtask 3.8 Community Outreach Support

MC shall attend a total of two (2) community outreach meetings prior to construction with the homeowners in the project area. The meeting shall be coordinated by the COUNTY or their designated Community Outreach Consultant. This will also include assistance with the development of presentation materials for the public meeting with the affected residents. The CONSULTANT has budgeted a total work effort equivalent to ten (10) hours for these meetings. Any time in excess of this budgeted amount will be considered as additional services.

Task 4 - Permitting

During the Design Phase, the CONSULTANT shall meet with the potential permitting and other interested agencies to determine all potential design permitting requirements. Agencies anticipated to have interest in the project include:

- Palm Beach County Health Department (Wastewater Collection/Transmission Permit).
- Lake Worth Drainage District (Right-of-Way Permit)
- Palm Beach County Engineering (Right-of-Way Permit)
- City of Belle Glade Permitting (Building Permit)

Permit applications shall be completed for each of the permitting agencies. Associated permit application fees shall be determined by CONSULTANT and paid by COUNTY. Services do not include preparing permit application for SFWMD construction dewatering permit (Contractor will be required to secure this permit if needed for construction).

In addition to preparing the permit applications for appropriate agencies, CONSULTANT shall assist COUNTY in consultations with the appropriate authorities. Consultation services shall include the following:

- Attend up to one (1) meeting with the staff of each regulatory agency.
- Respond to request(s) for additional information from each regulatory agency.

Subtask 4.1 Palm Beach County Health Dept. Permitting

CONSULTANT shall prepare and submit "Wastewater Collection Construction Permit Applications" to the Palm Beach County Health Department. Based on MC's previous experience with permitting separate lift station facilities under the same project, which are not located within the same service area or interconnected, it is estimated that a total of four (4) separate permits will be required for this project.

Subtask 4.2 Lake Worth Drainage District Permit

CONSULTANT shall prepare and submit up to one (1) LWDD "ROW Utility Permit Application" (if required). The scope includes the preparation and submission of the required permit application documents for the proposed scope of work to be completed at Lift Station No. 393, only.

Subtask 4.3 PBC Engineering Permit

CONSULTANT shall prepare and submit up to one (1) PBC Engineering "ROW Utility Permit Applications" (if required). The scope includes the preparation and submission of the required permit application documents for the proposed scope of work to be completed at Lift Station No. 393.

Subtask 4.4 City of Belle Glade Permitting

CONSULTANT shall prepare and submit for the City of Belle Glade "Application for Building Permit" (if required) to initiate the building department review process for the proposed scope of work to be completed at the Abidjan Estates lift station. CONSULTANT shall prepare a response for up to one (1) RFI issued by the City's building department. Upon bidding and selection of a Contractor, the selected Contractor will be required to assume the permit prior to formal issuance of the permit by the City.

Task 5 - Bid Phase Services

Subtask 5.1 Bid Advertisement

CONSULTANT shall assist the COUNTY in advertising for and obtaining bids or negotiating proposals for construction (including materials, equipment and labor). It is anticipated that work shall be awarded under a single Construction Contract. CONSULTANT shall provide up to twenty (20) sets of bid documents in PDF format on CDs. COUNTY shall receive and process deposits for bidding documents and shall maintain a record of prospective bidders to whom bidding documents have been issued.

Subtask 5.2 Pre-Bid Conference

CONSULTANT shall conduct pre-bid conference and attend site visits with Contractor's in conjunction with COUNTY staff and provide a written summary of issues discussed.

Subtask 5.3 Bid Clarification/Addenda

CONSULTANT shall issue addenda and shall provide supplemental information or clarification, as appropriate, to interpret, clarify, or expand the bidding documents to all prospective bidders during the bid period.

Subtask 5.4 Contract Award

CONSULTANT shall assist COUNTY in evaluating bids and proposals, including reference checks. CONSULTANT shall submit to COUNTY written recommendation concerning contract award to the lowest responsive responsible bidder.

Subtask 5.5 Conformed Contract Documents

CONSULTANT shall prepare conformed Contract Documents for use by the Contractor during construction which shall incorporate any changes issued by Addendum during the bidding of the project.

ASSUMPTIONS

The scope of work presented herein is based on the following assumptions:

1. COUNTY will provide CONSULTANT record drawings of all available existing facilities which shall serve as the basis of design in this project. The information will be provided to Consultant within 5 calendar days of NTP.
2. COUNTY will provide CONSULTANT with operational data including but not limited to pump run times, pump performance curve, lift station construction data and discharge pressure data for Lift Station No. 5133 as well as up to twenty-four (24) lift stations located upstream.
3. COUNTY personnel will assist in field verification of affected existing COUNTY facilities. This includes painting the locations of water mains and services, force mains, reclaimed water mains, and sanitary sewers and laterals and other plant piping in the field for the surveyor in a timely manner.
4. It is assumed that if the COUNTY elects to replace existing Lift Station No. 5133 with an in-line booster pump station, the proposed pumping system will be designed as a shop fabricated skid mounted pumping system which is suitable for exterior applications. The cost associated with the design of a building or other type of enclosure and associated infrastructure and/or improvements for the skid mounted pumping system is specifically excluded from the scope of work.
5. The proposal includes an allowance for the survey costs associated with preparing "Sketch and Descriptions" for COUNTY easement acquisition purposes at Lift Station No's. 5133 and the Abidjan Estates Lift Station, as required. The COUNTY shall be responsible for acquiring and recording all easements at these sites.
6. The proposal includes an allowance for the survey costs associated with preparing a "Sketch and Description" for acquisition of an easement from Lake Worth Drainage District (LWDD) at Lift Station No. 393. CONSULTANT shall coordinate with LWDD and the COUNTY for the acquisition of the required easement. COUNTY shall supply standard easement formwork and provide legal review and acceptance. Upon finalization of the easement documents and execution by all parties having interest, the COUNTY shall perform formal recordation of the easement documentation.
7. In the event that the COUNTY and LWDD are unable to agree upon acceptable terms and conditions for the relocation of Lift Station No. 393 to the LWDD right-of-way, CONSULTANT and COUNTY shall review the design costs associated with rehabilitation (excluding wet well replacement) of the existing lift station at its current location. Any change to the design costs for the rehabilitation of the existing lift station in place shall take into consideration all work completed to date associated with the anticipated relocation of the lift station and any cost change shall be agreed upon by all parties.

8. COUNTY will prepare and provide for CONSULTANT review prior to bidding front-end documents in electronic format.
9. CONSULTANT shall provide to COUNTY and Contractor with AutoCAD files of the As-Bid drawings. Deviations from the Final Design Drawings will be compiled by the CONSULTANT and electronically incorporated onto the drawing files.
10. The Contract Documents will be prepared as a single contract inclusive of the work required at all lift station sites. No pre-purchase of materials and/or equipment is presumed. Re-bidding of the project is considered an Additional Services item and is not included in this Scope of Work.
11. A single bidding effort is assumed. Re-bidding of the project is considered an Additional Services item not currently included in this Scope of Work.
12. Scope does not include services for addressing a bid protest or for rebid of the project.
13. The design is to be based on the federal, state and local codes and standards in effect at the beginning of the project. Revisions required for compliance with any subsequent changes to those regulations is considered an Additional Services Item and is not currently included in this Scope of Work.
14. Design shall comply with COUNTY'S Minimum Engineering and Construction Standards, latest edition.
15. CONSULTANT assumes that there are no contaminated soils or groundwater in the project area.
16. COUNTY is responsible for all permitting fees, including costs of public notification in local newspapers.

COMPENSATION

COUNTY agrees to pay MC/B&W a fee of **\$191,739.31** of the CONTRACT, by the Lump Sum method of payment. A further breakdown of the fee is as follows and as shown in Attachment B.

SBE PARTICIPATION

1. SCHEDULE 3(A) – Professional Services Activity Report

This form shall be submitted by the prime contractor with each payment application when SBE and/or M/WBE sub-consultants are utilized in the performance of the contract. This form shall contain the names of all SBE and M/WBE sub-consultants, specify the sub-consultants dollar amount for each sub-consultants and show amount drawn and payments to date issued to sub-consultants.

2. SCHEDULE 4 – SBE-M/WBE Payment Certification

A schedule 4 for each SBE and/or M/WBE sub-consultant shall be completed and signed by the proposed SBE and/or M/WBE after receipt of payment from the prime. When applicable, the prime shall submit this form with each application submitted to the

county for payment to document payment issued to a sub-consultant in the performance of the contract.

SBE participation is included in the **ATTACHMENT F** under this authorization. The attached Schedule 1 defines the SBE applied to this CSA/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intent to perform as an SBE).

ATTACHMENT B
CSA #3 - Improvements to Lift Stations 393, 1023, 5133 and the Abidjan Estates Lift Station
Budget Summary

Task No.	Task Description	Labor Classification and Hourly Rates							Total Labor	Sub-Consultant Services
		Principal \$57.82	Sr. Engineer III/IV \$51.02	Engineer III \$35.71	CAD/GIS III/IV \$35.71	Const. Mgr Eng. Tech III/IV \$40.00	Inspector Eng. Tech I/II \$31.00	Clerical I/II \$23.81		
1	Project Management									
1.1	Overall Project Management	8	12					6	\$1,217.66	
1.2	Design Workshop Meetings at PBCWUD Offices (4 Meetings)	8	12	14					\$1,574.74	
	Subtotal Task 1	16	24	14	0	0	0	6	\$2,792.40	\$0.00
2	Data Collection									
2.1	Survey Verification (3 of 4 LS Sites)	2	6	6	6			2	\$897.90	
2.2	Field Verification (Soft Digs) (3 of 4 LS Sites)	2	6	8	4			2	\$897.90	
2.3	Geotechnical Evaluation (3 of 4 LS)	2	2	4				2	\$408.14	
	<i>Subconsultant Survey (CAS)</i>									\$14,120.00
	<i>Subconsultant Easement S&D (CAS) - Allowance</i>									\$1,500.00
	<i>Subconsultant Soft Digs (CAS) - Allowance</i>									\$13,500.00
	<i>Subconsultant Geotech (Radise)</i>									\$11,285.00
	Subtotal Task 2	6	14	18	10	0	0	6	\$2,203.94	\$40,405.00
3	Design Services									
3.1	Hydraulic Modeling and Technical Memorandum (LS 5133)	12	72	110	8			6	\$8,723.92	
3.2	Utility Coordination	4		6	6				\$659.80	
3.3	Meeting and Coordination with Regulatory Agencies	8		12	14				\$1,391.02	
3.4a	60% Design Drawings	4	32	72	92			4	\$7,815.60	
3.4b	90% Design Drawings	4	10	30	38			4	\$3,265.00	
3.4c	100% Construction Set Drawings	4	6	12	16			4	\$1,632.52	
3.5a	60% Technical Specifications	2	6	24				6	\$1,421.66	
3.5b	90% Technical Specifications	2	4	10				4	\$772.06	
3.5c	100% Technical Specifications	2	4	6				4	\$629.22	
3.6	Construction Cost Opinion	2	4	10				2	\$724.44	
3.7	Quality Assurance		8			8		4	\$823.40	
3.8	Community Outreach Support	10							\$578.20	
	<i>Subconsultant Electrical (Gartek)</i>									\$34,463.72
	Subtotal Task 3	54	146	292	174	8	0	38	\$28,436.84	\$34,463.72
4	Permitting									
4.1	PBC Health Department Permitting (Up to 4 Applications)	2	4	8	4			2	\$795.86	
4.2	Lake Worth Drainage District Permitting (1 Application)	2	4	8	4			2	\$795.86	
4.3	PBC Engineering ROW Utility Permitting (Up to 1 Applications)	2	4	8				2	\$653.02	
4.4	City of Belle Glade Permitting	2	2	6				2	\$479.56	
	Subtotal Task 4	8	14	30	8	0	0	8	\$2,724.30	\$0.00
5	Bid Phase Services									
5.1	Bid Advertisement	3						4	\$268.70	
5.2	Pre-Bid Conference, Including Site Visits	4	8	8					\$925.12	
5.3	Bid Clarification / Addenda	2	2	6				4	\$527.18	
5.4	Contract Award	2		2		5			\$387.06	
5.5	Conformed Contract Documents	1	2	4	4			8	\$636.02	
	Subtotal Task 5	12	12	20	4	5	0	16	\$2,744.08	\$0.00
	Labor Subtotal Hours	96	210	374	196	13	0	74		\$74,868.72
	Labor Raw Costs	\$5,550.72	\$10,714.20	\$13,355.54	\$6,999.16	\$520.00	\$0.00	\$1,761.94	\$38,901.56	
	Labor Multiplier	2.94	2.94	2.94	2.94	2.94	2.94	2.94		
	Labor Subtotal	\$16,319.12	\$31,499.75	\$39,265.29	\$20,577.53	\$1,528.80	\$0.00	\$5,180.10	\$114,370.59	
	Labor Total Costs	\$114,370.59								
	Subconsultant Costs Not Subject to Multiplier	\$74,868.72								
	Subconsultant Costs Subject to Multiplier	\$0.00								
	Subconsultant Multiplier	1.1								
	Subconsultant Costs Total	\$74,868.72								
	Reimbursable Expenses	\$2,500.00								
	Project Total	\$191,739.31								

ATTACHMENT - C

PROJECT SCHEDULE

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

Task	Completion Dates (Calendar Days from NTP)
Task 1 – Project Management	330 days
Task 2 – Data Collection Survey Geotechnical Engineering Report Utility Locates Data	90 days 210 days 210 days
Task 3 – Design Services Hydraulic Modeling Technical Memo County Review of Technical Memo 60% Design Submittal County Review of 60% package 90% Design Submittal County Review of 90% Package 100% Construction Set Submittal	90 days 105 days 165 days 180 days 240 days 255 days 285 days
Task 4 – Permitting	285 days
Task 5 – Bid Phase	330 days
Total Duration	330 days

ATTACHMENT D

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE CONSULTANT/SUBCONSULTANTS

PROJECT NAME: Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates Lift Station **PROJECT NO.** WUD-17-064
NAME OF PRIME CONSULTANT: Baxter & Woodman Inc. d/b/a Mathew Consulting **ADDRESS:** 477 S. Rosemary Ave., Suite 330, West Palm Beach, FL 33401
CONTACT PERSON: Rene L. Mathews, P.E. **PHONE NO.:** 561-655-6175 **FAX NO. :** 561-655-6179
DESCRIPTION OF SERVICES: Engineering Design and Bidding Services

PLEASE LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT.
 PLEASE ALSO LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUB-CONSULTANTS ON THIS
 PROJECT. IDENTIFY ALL APPLICABLE CATEGORIES OF CONSULTANT/SUBCONSULTANTS

Name, Address and Phone Number	(Check one or both Categories)		Consultant/Sub-consultant Dollar Amount and Percentage of Services				
	<u>M/WBE</u>	<u>SBE</u>					
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Craig A. Smith & Associates	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$29,120.00 15.18%	_____
2. Radise International, L.C.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	\$11,285.00 5.89% (Asian)
3. Gartek Engineering Corporation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	\$34,463.72 17.97%	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
(Please use additional sheets if necessary)			Total				
Total SBE-M/WBE Participation	39.04%		_____	\$34,463.72 17.97%	_____	\$29,120.00 15.18%	\$11,285.00 5.89%

NOTE: 1. The percentages listed on this form must be supported by the sub-consultant included on Schedule 2 in order to be counted toward goal attainment.
 2. Firms may be certified by Palm Beach County as an SBE and/or M/WBE

OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-064 PROJECT NAME: Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates Lift Station

TO: Baxter & Woodman, Inc. d/b/a Mathews Consulting
(Name of Prime Consultant)

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

Small Business Enterprise * Minority Business Enterprise _____
Black _____ Hispanic _____ Women _____ Caucasian _____ Other (Please Specify) _____

Date of Palm Beach County Certification: _____

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Boundary and Topographic Survey, Utility Locates and Title Search

* Per the Palm Beach County Office of Small Business Assistance, Craig A. Smith & Associates' SBE certification was extinguished on January 15, 2018; but may still be used for projects until the expiration of the General Services Contract.

Total SBE-M/WBE Participation 15.18%

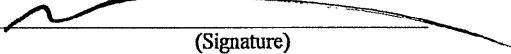
If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage \$29,120.00 _____
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Craig A. Smith & Associates
Print name of
SBE-M/WBE Sub-consultant

By: 
(Signature)

Robert D. Keener, P.S.M.
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 02/01/2018

CRAIG A. SMITH & ASSOCIATES

PROPOSED SCOPE OF SERVICES AND PROPOSED FEE

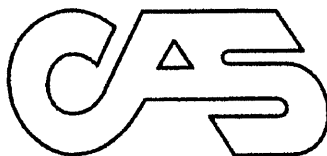
FOR

PROFESSIONAL SURVEYING SERVICES

AT

**MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
FOR
THREE (3) LIFT STATION SITES
PBCWUD PROJECT WUD 17-064
PALM BEACH COUNTY, FLORIDA**

DATED: August 14, 2017
REVISED: August 15, 2017
REVISED: August 21, 2017
REVISED: August 22, 2017
REVISED: October 26, 2017
REVISED: November 1, 2017
REVISED: November 28, 2017
REVISED: December 7, 2017



CRAIG A. SMITH & ASSOCIATES

Engineers • Surveyors • Utility Locators • Grant Specialists

7777 GLADES ROAD, SUITE 410, BOCA RATON, FL 33434

(561) 314-4445 FAX (561) 314-4457

EMAIL: CASRPB@CRAIGASMITH.COM



PBCWUD WUD 17-064
CAS Proposal No: 17-9999-3611
August 14, 2017
Revised: August 15, 2017
Revised: August 21, 2017
Revised: August 22, 2017
Revised: October 26, 2017
Revised: November 1, 2017
Revised: November 28, 2017
Revised: December 7, 2017
Page 2 of 6

CRAIG A. SMITH & ASSOCIATES

PROPOSED SCOPE OF SERVICES AND PROPOSED FEE

FOR

PROFESSIONAL SURVEYING AND UTILITY LOCATING SERVICES

PROJECT NAME: PBCWUD Project WUD 17-064
Palm Beach County, Florida

PROPOSAL NUMBER: 17-9999-P3611

PROJECT DESCRIPTION: Map of Boundary and Topographic Survey

PROJECT PLANS: N/A

CLIENT: Baxter & Woodman, Consulting Engineers

Name: Mr. Jason Pugsley, P.E.

Address: 477 S. Rosemary Avenue, Suite 330
West Palm Beach, Florida 33401

Phone: 561-655-6175

E-Mail: jpugsley@baxterwoodman.com

GENERAL:

Craig A. Smith and Associates (CAS) propose to accomplish the professional surveying services for the above project as outlined in this proposal. When the parties have agreed upon the details of the services to be provided, the fees to be



PBCWUD WUD 17-064
CAS Proposal No: 17-9999-3611
August 14, 2017
Revised: August 15, 2017
Revised: August 21, 2017
Revised: August 22, 2017
Revised" October 26, 2017
Revised: November 1, 2017
Revised: November 28, 2017
Revised: December 7, 2017
Page 3 of 6

paid for the services, and sign this proposal, this proposal will become a formal written agreement. CAS proposes to accomplish the services as follows:

S01 MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY

Surveying services to produce a Map of Boundary and/or Topographic Survey for each of the lift station sites listed below. Each site will be searched in the Public Records of Palm Beach County, Florida for Ownership and Encumbrances with exceptions (easements) (included). If a legal boundary exists for each site, they will be surveyed and property corners found or set based on their description. If only a lift station easement exists for each site, easement corners will be monumented as above. In all cases, above ground visible improvements, including utilities, will be located and shown to twenty-five feet beyond each boundary or easement line that encompasses the site. Optionally, using AWP standards for marking, a sub-surface ground penetrating radar (GPR) unit shall be used in addition to electromagnetic induction (EM) to perform/verify horizontal locations of existing sub-surface utilities in the survey areas referenced. Lines will be painted on the ground or pin flags set to show said lines on the surface (included) of which survey will locate and show on the survey. Also, optionally, up to Ten Utility Excavation Test Holes per site will be performed based on the Engineer's requested locations and the type, size, material, etc. will be shown for each based on the reports provided to the surveyor. (Included). Elevations will be gathered and shown relative to North American Vertical Datum of 1988 (NAVD '88) on an approximate 25-foot grid. A minimum of two (2) benchmarks will be referenced at each site. The survey will be conducted relative to the Florida Standards of Practice as defined by chapter 5J-17, Florida Administrative Code.

This proposal does not include adherence to any other standards or requirements with the exception of those applicable and required by Florida law or possible review comments by the named undersigned client. Revisions requested for adherence to additional standards or



PBCWUD WUD 17-064
CAS Proposal No: 17-9999-3611
August 14, 2017
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Revised: November 1, 2017
Revised: November 28, 2017
Revised: December 7, 2017
Page 4 of 6

lender requirements by others will be charged at the appropriate hourly rates indicated hereon or at a mutually agreed upon Lump Sum Fee.

The fees for each Station are below and include:
Survey and Title Search as one, Utility locates (Option 1) and Utility Test holes (10) (Option 2). Please be advised that utility locates must performed if utility test holes are requested. The fee for individual test holes are \$330.00 per hole and a minimum of Five holes must be requested per site, if required.

Palm Beach County Water Utility Department
Lift Station No. 5133, 393, 5209, 1023, and 1032 Upgrades and Improvements.
Abidjan Estates Lift Station added October 26, 2017.
Lift Station No. 1043 and 1045 added November 1, 2017.
Optional easement sketch and description for Lift Station No. 5133, 5209,1023,1032 and Abidjan Estates added November 1, 2017.
Revised fees and removed Lift Station No. 1023, November 28, 2017.
Revised proposal to include only Lift Station Nos. 5133, 393 and Abidjan Estates, December 7, 2017.

Lift Station No. 5133

Site Survey and Field Verification

- Completion of site boundary and topographic survey required including title search to identify all encumbrances, easements, rights-of-way, etc. PBC is unclear of current land rights at the site.
- Site investigation required to locate previously buried infrastructure which could impact construction (Ground Penetrating Radar and Soft Digs). Minimum ten (10) soft digs shall be assumed. Work shall be incorporated into an overall project allowance.
- Provide Sketch and Description for proposed Lift Station Easement suitable for inclusion as Exhibit "A" to documents prepared by others.

Survey = \$5,750.00
Utility Locates (Option 1) = \$1,200.00
Soft Digs (Option 2) = \$3,300.00



PBCWUD WUD 17-064
CAS Proposal No: 17-9999-3611
August 14, 2017
Revised: August 15, 2017
Revised: August 21, 2017
Revised: August 22, 2017
Revised" October 26, 2017
Revised: November 1, 2017
Revised: November 28, 2017
Revised: December 7, 2017
Page 5 of 6

Lift Station No. 393

Site Survey and Field Verification

- Completion of site boundary and topographic survey required including title search to identify all encumbrances, easements, rights-of-way, etc.
- Survey shall include limits of Lake Worth Drainage District (LWDD) property to north of station. Desire is to locate a new/replacement lift station in this area. PBC is unclear of current land rights at the site.
- Minimum ten (10) soft digs shall be assumed. Work shall be incorporated into an overall project allowance.
- Provide Sketch and Description for proposed Lift Station Easement suitable for inclusion as Exhibit "A" to documents prepared by others.

Survey = \$4,820.00
Utility Locates (Option 1) = \$1,200.00
Soft Digs (Option 2) = \$3,300.00

Abidjan Estates Lift Station (Belle Glade)

Site Survey and Field Verification

- Completion of site boundary and topographic survey required including title search to identify all encumbrances, easements, rights-of-way, etc.
- Site investigation required to locate previously buried infrastructure which could impact construction (Ground Penetrating Radar and Soft Digs). Minimum ten (10) soft digs shall be assumed. Work shall be incorporated into an overall project allowance.
- Provide Sketch and Description for proposed Lift Station Easement suitable for inclusion as Exhibit "A" to documents prepared by others.

Survey = \$5,050.00
Utility Locates (Option 1) = \$1,200.00
Soft Digs (Option 2) = \$3,300.00



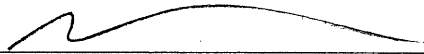
PBCWUD WUD 17-064
 CAS Proposal No: 17-9999-3611
 August 14, 2017
 Revised: August 15, 2017
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 Revised" October 26, 2017
 Revised: November 1, 2017
 Revised: November 28, 2017
 Revised: December 7, 2017
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FEE TOTAL (ALL OPTIONS)

The fee for items listed above will be **TWENTY NINE THOUSAND ONE HUNDRED TWENTY AND 00/100 DOLLARS (\$29,120.00)**. Any service not specifically included in the Final Agreement will be considered as an Additional Service. CAS will accomplish Additional Services upon proper written authorization from the CLIENT. The fees for Additional Services are at the following hourly rates or at a mutually agreed upon Lump Sum Fee:

AGREED TO AND ACCEPTED BY:

CRAIG A. SMITH & ASSOCIATES



 Robert D. Keener, PSM
 Vice President

 Signature

 Name of Authorized Representative

 Title

 Date

**OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT**

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-064 PROJECT NAME: Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates Lift Station

TO: Baxter & Woodman, Inc. d/b/a Mathews Consulting
(Name of Prime Consultant)

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

Small Business Enterprise Minority Business Enterprise
Black _____ Hispanic _____ Women _____ Caucasian _____ Other (Please Specify) (Asian)

Date of Palm Beach County Certification: _____

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Geotechnical Investigation

Total SBE-M/WBE Participation 5.89%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

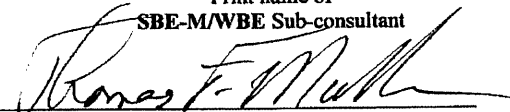
Price or Percentage: \$11,285.00 _____
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

RADISE International, L.C.

Print name of
SBE-M/WBE Sub-consultant

By: 
(Signature)

Vice President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 2/2/18



December 7, 2017

Mathews Consulting
Attn.: Mr. Jason A. Pugsley, P.E.
477 S. Rosemary Avenue, Suite 330
West Palm Beach, FL 33401

Phone: (561) 655-6175, Ext. 7706
Mobile: (561)-352-4703
jpugsley@baxterwoodman.com

RE: Geotechnical Services Proposal
PBCWUD Project WUD 17-064 –
Lift Station No. 393, 1023, 1032, 5133 and 5209 Upgrades and Improvements
Palm Beach County, Florida
RADISE Project No: TBD

Dear Mr. Pugsley,

RADISE International, L.C. (RADISE) is pleased to submit this proposal for the above referenced project. This proposal discusses our understanding of the project, presents our proposed scope of work, and establishes our schedule and fee for performing the work.

PROJECT INFORMATION

We understand that the Palm Beach County Water Utilities Department (PBCWUD) has retained Mathews Consulting for the PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 1032, 5133 and 5209 Upgrades and Improvements. The project includes the rehabilitation/replacement of five (5) existing wastewater lift stations. Geotechnical investigations at 3 of the sites (LS No's. 5133, 393, and 1023) has been requested for the design and installation of a new wet well. Two of the three lift stations are located in PBCWUD Zone 1 – West Palm Beach Area (LS No's. 5133 and 393). The other lift station is located in PBCWUD Zone 4 – Boca Raton Area (LS No's. 1023).

SCOPE OF SERVICES

The proposed scope of work for the project consists of the following:

1. We will visit each of the three sites to field mark (paint and/or stake) the planned boring locations and observe existing site conditions.
2. We will contact Sunshine 811 to request field location and clearance of underground utilities in the areas of the borings as per Florida Statutes.
3. We will mobilize a truck-mounted drilling rig to each site.

4. Set up basic maintenance of traffic (MOT) where necessary for traffic control and safety (i.e. signs, cones and traffic flagmen).
5. Perform a total of 9 Standard Penetration Tests (SPT) borings to depths of 30 feet below the existing ground surface (3 SPT borings at each site).
6. Following completion of the drilling operations, the boreholes will be backfilled with grout and the pavement patched with asphalt cold patch.
7. We will visually classify the collected soil samples in the field with laboratory confirmation/QC verification of classifications using the Unified Soil Classification System (USCS).
8. We will assign and perform a series of laboratory test to ascertain soil index properties for the soils encountered in each boring.
9. Perform appropriate geotechnical engineering analyses and prepare a geotechnical engineering report providing the results of the SPT borings, the soil laboratory testing, bearing capacity and foundation recommendations for the lift station wet wells. Additionally, the report will provide recommendations regarding proposed backfilling and compaction, dewatering, and other considerations for site construction including utility and foundation excavations.

SCHEDULE/DELIVERABLES

Upon receiving written authorization to proceed, we will commence with field marking of the boring locations and preparation of the utility locate request. Mobilization for the drilling operations will occur soon after Sunshine 811 clearance of boring locations is received from the contacted utilities. These two upfront activities are expected to require no more than 2 weeks to complete.

The specified field drilling work is expected to require one day at each lift station, with a total of four to five days to complete. Laboratory visual classification of the soils and report preparation will require about two weeks to complete following completion of field work. We expect to provide the final report signed and sealed by a registered professional engineer within four to six weeks however, accelerations of this schedule may be facilitated if needed.

COMPENSATION & TERMS

Based upon our understanding of the project and interpretation of your requirements, we propose to perform the scope of work outlined previously for a Lump Sum Fee as detailed in the Fee Breakdown on Attachment A. Our work will be performed in accordance with the General Terms and Conditions included as part of this proposal as Attachment B.

Soil samples obtained from the drilling operations will be retained by RADISE for a period of 90 days from the date of drilling and then they will be discarded unless alternate terms are agreed to in writing with the client.



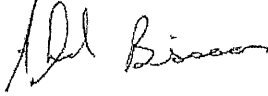
CLOSURE

RADISE appreciates the opportunity to provide our services for this project, and trust that the scope of work and fee presented in this proposal are clear and understandable. Should the proposal contents require any clarification or amplification, please feel free to contact us.

Sincerely,

RADISE International, L.C.

Infrastructure Engineers & Software Consultants



Akash Bissoon, P.E.
Project Engineer

Thomas F. Mullin, P.E.
Chief Engineer

Attachments: A - Fee Breakdown





**ATTACHMENT A
FEE BREAKDOWN
GEOTECHNICAL ENGINEERING SERVICES
PBCWUD Project WUD 17-064
Palm Beach County, Florida**

	Qty	Unit	Unit Price	Total
1.0 FIELD EXPLORATION (Estimated 2 Weeks)				
1.1 Stake borings and Utility Clearance (Sr. Eng. Technician)	3	Hour	\$ 85.00	\$ 255.00
1.2 Mobilize Equipment - Drill Rig (Truck)	1	Each	\$ 350.00	\$ 350.00
1.3 MOT for project				
1.3.1 Coordinate and Develop MOT Plans (Staff Engineer)	1	Hour	\$ 105.00	\$ 105.00
1.3.2 MOT Cones, Sign, Flags	1	Day	\$ 250.00	\$ 250.00
1.3.3 MOT Flagmen (2 man crew. Sr. Technicians)	0	Hour	\$ 130.00	-
1.4 Preparation/Secure Right-of-Way Permit	0	Each	\$ 200.00	-
1.4.1 Project Engineer for permit prep/followup	0	Hour	\$ 105.00	-
 1.5 SPT Borings (Estimated 4 days, one day for each site)				
Site	Boring Depth (feet)	No. of Borings	Total Boring Footage	
LS No. 5133	30	3	90	
LS No. 393	30	3	90	
LS No. 1023	30	3	90	
<u>Total Boring Depth for 1.5</u>			270	feet
1.5.1 SPT Boring-0' to 50' (Truck-Mounted) LAND	270	Foot	\$ 12.00	\$ 3,240.00
1.5.2 Casing Allowance - 0' to 50' - To keep borehole open in caving soil conditions	270	Foot	\$ 5.00	\$ 1,350.00
1.5.3 Grout Seal/Cold Patch Boreholes (3") - 0' to 50'-LAND	270	Foot	\$ 4.00	\$ 1,080.00
 1.6 Engineering Support Services during Field Work				
1.6.1 Field Engineer for Logging Borings	0	hours	\$ 105.00	-
TOTAL FIELD WORK				\$ 6,375.00
 2.0 LABORATORY SERVICES (Estimated 2 Weeks)				
2.1 Laboratory Visual Classification QC/Verification- (Engineer Intern)	2	Hour	\$ 85.00	\$ 170.00
2.2 Natural Moisture Test	0	Each	\$ 15.00	-
2.3 Full Grain Size Analysis	4	Each	\$ 75.00	\$ 300.00
2.4 Fine Content Determination	0	Each	\$ 45.00	-
2.5 Organic Content Test	0	Each	\$ 45.00	-
2.6 Atterberg Limits	0	Each	\$ 85.00	-
TOTAL LABORATORY SERVICES				\$ 470.00
TOTAL FIELD & LABORATORY SERVICES				\$ 6,845.00
 3.0 PROFESSIONAL ENGINEERING AND REPORTING SERVICES (Estimated 2 Weeks)				
3.1 Principal Engineer - QC Review	2	Hour	\$ 185.00	\$ 370.00
3.2 Sr. Engineer	10	Hour	\$ 155.00	\$ 1,550.00
3.3 Engineer	12	Hour	\$ 125.00	\$ 1,500.00
3.4 Staff Engineer	6	Hour	\$ 105.00	\$ 630.00
3.5 Drafter / CADD	6	Hour	\$ 65.00	\$ 390.00
TOTAL PROFESSIONAL SERVICES				\$ 4,440.00
TOTAL AMOUNT				\$ 11,285.00

OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-064 PROJECT NAME: Improvements to Lift Stations 393, 1023, 5133 and Abidjan Estates Lift Station

TO: Baxter & Woodman, Inc. d/b/a Mathews Consulting
(Name of Prime Consultant)

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

Small Business Enterprise Minority Business Enterprise
Black Hispanic Women Caucasian Other (Please Specify) _____

Date of Palm Beach County Certification: 10/25/2016

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Electrical Engineering Design and Bid Assistance Services

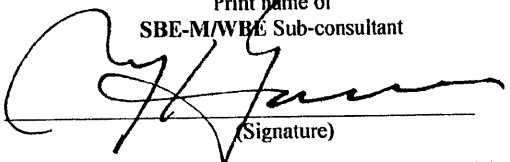
Total SBE-M/WBE Participation 17.97%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage \$34,463.72 N/A
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Gartek Engineering Corporation
Print name of
SBE-M/WBE Sub-consultant
By: 
(Signature)
Mel F. Garcia, P.E., LEED AP Vice President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: February 1st, 2018

Gartek

Mechanical, Electrical,
Plumbing and Fire
Protection Engineers

December 8th, 2017

Via E-Mail

jpugsley@baxterwoodman.com

Mr. Jason A. Pugsley, P.E.
Water/Wastewater Department Manager
Mathews Consulting
Baxter Woodman Company
477 S. Rosemary Avenue, Suite 330
West Palm Beach, FL. 33401

Dear Jason:

Re: PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 5133 and Abidjan Development Upgrades and Improvements. (This Proposal supersedes one dated November 28th; It was revised to remove Lift Stations 1032, 1043, 1045 & 5209 from proposal.

This is to present our proposal for Electrical Engineering Services for the referenced project and as outlined in recent emails on the subject. The scope of our services is as indicated below:

Lift Station No. 5133

1. Electrical, controls, and stand-by power assessment of existing LS for feasibility of replacing submersible type with skid mounted, inline booster pump system.
2. Demolition of existing electrical building with all electrical
3. Replacement of Control panel and RTU with new equipment, mounted on common rack per current PBCWUD Standards.
4. Evaluation of existing generator and fuel supply for re-use using new loads. If adequate, design fee includes connection of generator to new lift station load via new ATS.
5. Replace existing Manual Transfer Switch with an Automatic Transfer Switch.
6. Incorporate Pressure Indicating Transmitter into Telemetry.
7. Incorporate flow level monitoring per WUD standards
8. New electrical service for new station; coordination with FPL.
9. Upgrade Site Lighting.

Lift Station No. 393

1. Demolition of existing building with all electrical
2. Complete upgrade of the electrical and I&C systems per current PBCWUD standards
3. Re-use existing RTU
4. Use of new low-profile control panel per PBCWUD standards.
5. Control Panel shall incorporate quick-connect outlet for portable generator cables.
6. Incorporate flow level monitoring per WUD standards
7. New electrical service for new station; coordination with FPL.
8. Upgrade Site Lighting

Gartek Engineering Corporation

Miami-Dade County CBE, Broward County CBE, Florida DBE, M/WBE and SBE
Corporate Office: 7210 SW 39 Terrace • Miami, Florida 33155 • Phone (305) 266-8997 • Fax (305) 264-9496
Broward Office: 2700 N. 29 Ave • Suite 303 • Hollywood, Florida 33020 • Phone (954) 404-8100 • Fax (954) 404-8133
Palm Beach Office: 6801 Lake Worth Rd. • Suite 117 • Greenacres • FL 33467 • Phone (561) 249-3431 • Fax (561) 249-3472
www.gartek-engineering.com

December 8th, 2017

Page 2 of 5

Mathews Consulting

Re: PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 5133 and Abidjan Development Upgrades and Improvements. (This Proposal supersedes one dated November 28th; It was revised to remove Lift Stations 1032, 1043, 1045 & 5209 from proposal.

Lift Station No. 1023

1. Demolition of the existing electrical and I&C systems
2. Complete upgrade of the electrical and I&C systems per current PBCWUD standards
3. New RTU will be used.
4. Use of new low-profile control panel per PBCWUD standards.
5. Relocate existing transformers outside lift station easement.
6. Control Panel shall incorporate quick-connect outlet for portable generator cables
7. Incorporate flow level monitoring per WUD standards
8. Upgrade Site Lighting

Lift Station at Abidjan Development

1. Demolition of the existing electrical and I&C systems
2. Complete upgrade of the electrical and I&C systems per current PBCWUD standards
3. Replacement of Control panel and RTU with new equipment, mounted on common rack per current PBCWUD Standards Control Panel shall incorporate quick-connect outlet for portable generator cables
4. Incorporate flow level monitoring per WUD standards
5. Upgrade Site Lighting

The scope of our services also includes the following:

1. Grounding and Lightning Protection per PBCWUD Standards.
2. Site visits to document existing conditions affecting electrical design.
3. Prepare design submittals including drawings, specs (on drawings) and Engineer's cost estimate, at the 60%, 90% and 100% completion levels.
4. Specifications in book form.
5. Blueprinting for design coordination. Fee includes reproduction internal to our office. Printing for progress reviews, or additional reproduction will be invoiced at cost plus 10%.
6. Three (3) meetings with PBCWUD for the design kick-off, 60% design review and 90% design review meetings.
7. One (1) design coordination meeting with Mathews Consulting during course of design.
8. Responses to Building Department and WUD comments in a timely manner.
9. Responses to contractor's Bid RFI's in a timely manner.
10. Attendance to pre-bid meeting. It is assumed that all stations will be released for permitting, bidding, and construction as one project.

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Mechanical, Electrical,
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Protection Engineers

December 8th, 2017

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Mathews Consulting

Re: PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 5133 and Abidjan Development Upgrades and Improvements. (This Proposal supersedes one dated November 28th; It was revised to remove Lift Stations 1032, 1043, 1045 & 5209 from proposal.

The following is to be provided to Gartek Engineering:

1. Gartek is to be provided with electronic ACCAD files of site background drawings on which to show the electrical design.
2. Mathews will provide Gartek with the cut sheets for the proposed pumping units (or mechanical equipment) selected for each lift station site. All other electrical/I&C equipment specified or otherwise included in the project shall be per the County standards. Gartek shall be responsible for obtaining cut sheet/informational data for all such equipment as required to complete the electrical and I&C design.
3. Gartek is to be provided with access to PBC WUD Current Standards.
4. Gartek select all electrical equipment, panels, I&C components, etc., in accordance with County standards. Where a specific manufacturer/supplier is not indicated in the County standards, Gartek shall coordinate equipment/manufacturer selection with County staff as part of standard design work.

The following **will not** be included in the Basic Fee:

1. Services during construction are not included in the fee.
 - a. Review of shop drawings
 - b. Responses to contractor's RFI's during construction in a timely manner.
 - c. Site visits during the construction period.
2. Incorporation of contractor generated as-built information into final documents
3. Fire Protection, Plumbing and HVAC Plans.
4. Re-design as a result of value engineering recommendations received after completion of design.
5. Our Scope of services does not include Preparation of As-built drawings. As-builts of the completed installations are to be prepared by the contractor. Fee includes incorporating contractor generated As-Built information into final documents.
6. Observations during construction, and special meetings with the owner or sub-contractors, if requested and approved by you, are to be charged separately at the hourly rate specified herein.

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Mechanical, Electrical,
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Protection Engineers

December 8th, 2017

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Mathews Consulting

Re: PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 5133 and Abidjan Development Upgrades and Improvements. (This Proposal supersedes one dated November 28th; It was revised to remove Lift Stations 1032, 1043, 1045 & 5209 from proposal.

7. Messenger and/or delivery services are not included and will be invoiced at cost plus 10% administrative fee.

Our fee for the above described scope of services for each Lift Station is as indicated below:

- LS-5133: \$10,331.46
- LS-393: \$ 8,501.74
- LS-1023: \$ 8,501.74
- Abidjan Estates: \$ 7,128.79

Total: \$34,463.72

Work approved by you to be completed on an hourly basis will be charged at the following rates:

Principals	US\$180.00/hr
Engineer	US\$130.00/hr
CAD Designer	US\$ 80.00/hr
Administrative	US\$ 45.00/hr

Our fee will be invoiced and payable on a percentage of completion basis.

We will invoice in proportion to services rendered and payment will be expected within thirty (30) days. Interest on overdue accounts beyond 30 days of billing date will be charged at a rate of 1.5% per month beginning at the invoice date. Payment for services is your direct obligation and is not contingent upon any other payment schedules pursuant to other contracts or financial arrangements. If payment is not received within thirty (30) days of your receiving our invoice, we have the option to cease providing services during that time and we cannot be held responsible for costs generated by our work stoppage. The successful party to litigation related to agreement will be entitled to collect legal fees. Our fee is valid provided that the design of this project is completed within six (6) months of the date of this proposal.

Please review our proposal and let me know if I can help clarify any item in more detail.

Gartek Engineering Corporation

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Mechanical, Electrical,
Plumbing and Fire
Protection Engineers

December 8th, 2017

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Mathews Consulting

**Re: PBCWUD Project WUD 17-064 - Lift Station No. 393, 1023, 5133 and Abidjan Development
Upgrades and Improvements. (This Proposal supersedes one dated November 28th; It was revised to
remove Lift Stations 1032, 1043, 1045 & 5209 from proposal.**

Thank you for reaching out to Gartek Engineering. We hope to receive your favorable consideration. If you are in agreement with our proposal, kindly return a signed copy as authorization. We will be ready to start upon receipt of final architectural backgrounds.

Best Regards,
GARTEK ENGINEERING, CORP.,

Mel F. Garcia, P.E. LEED AP
Vice President
MFG:pcy

Authorized by **Mathews Consulting, a Baxter
Woodman Company** for Gartek Engineering Corp.,
to provide the above services:

Signed: _____

Name: _____

Title: _____

Date: _____

Gartek Engineering Corporation

Miami-Dade County CBE, Broward County CBE, Florida DBE, M/WBE and SBE

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ATTACHMENT - E

AUTHORIZATION STATUS REPORT GENERAL UTILITY, ARCHITECTURAL AND VALUE ENGINEERING SERVICES

SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

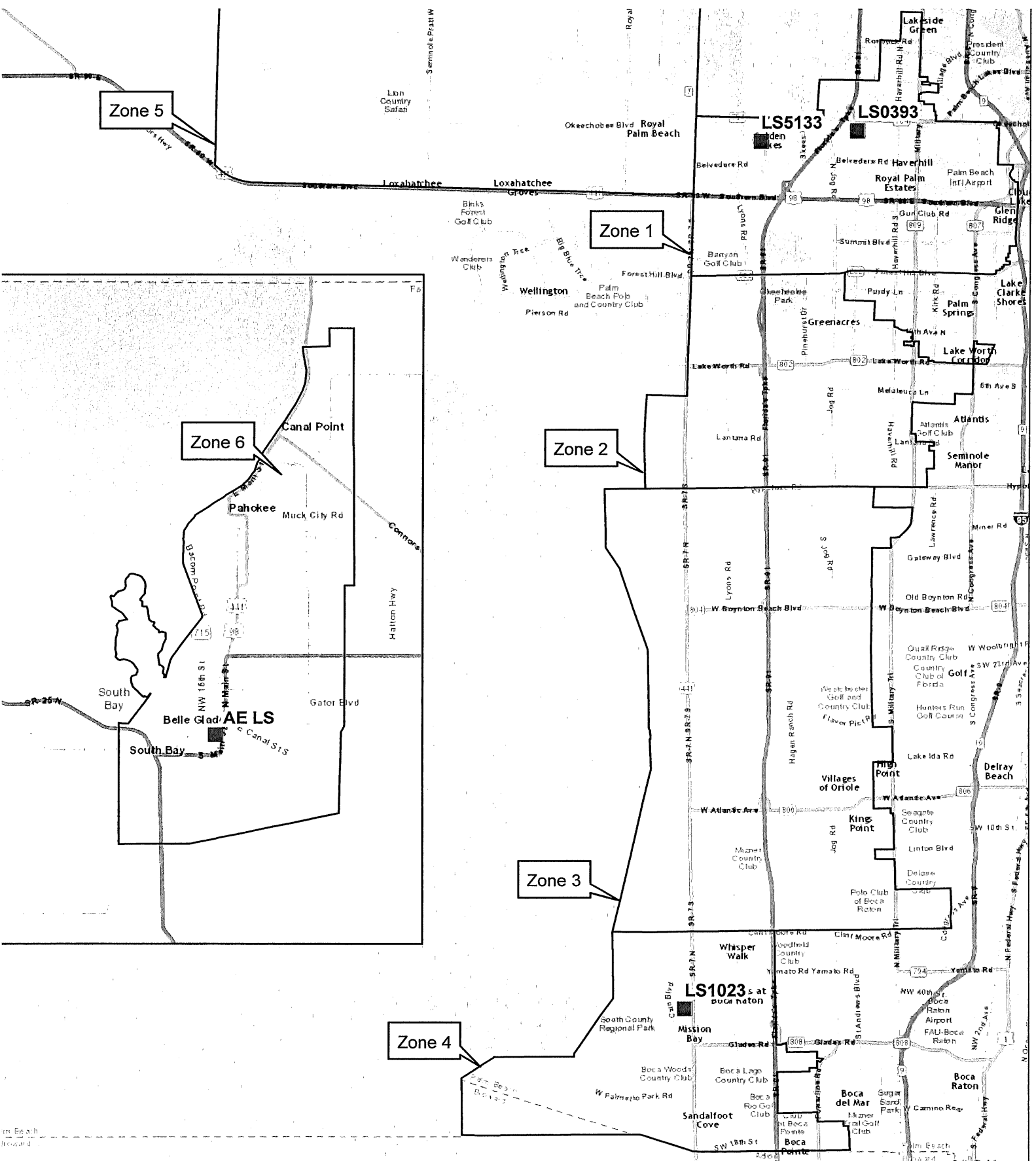
Auth. No.	Description	Status	Project Total Amount	Value of SBE Letters of Intent		Approved By (BCC, CRC, Director)	Date Approved	WUD No. Assigned	MC Project No.
				Total	% Partic.				
1	Glades Region Leak Detection	Approved	\$ 71,813.76	\$ -	0.000000%	CRC	8/2/2017	17-048	170835.3
2	Forcemain Improvements on Lyons Road from Norte Lago to Palmetto Park Rd.	Approved	\$ 89,576.84	\$ 32,320.00	36.080755%	CRC	8/2/2017	17-047	170907
3	Improvements to Lift Stations 393, 1023, 5133 and the Abidjan Estates Lift Station	Pending	\$ 191,739.31	\$ 74,868.72	39.047142%	CRC	—	17-064	—
Total Approved/Pending			\$ 353,129.91	\$ 107,188.72	30.35%				
Actual Percentage									

ATTACHMENT - F

AUTHORIZATION STATUS REPORT

SUMMARY OF SBE / MINORITY BUSINESS TRACKING

	Total	SBE
Current Proposal		
Value of Authorization No.3	\$191,739.31	
Value of SBE Letters of Intent	\$74,868.72	\$74,868.72
Actual Percentage	39.04%	39.04%
Signed/Approved Authorizations		
Total Value of Authorizations	\$161,390.60	
Total Value of SBE Signed Subcontracts	\$32,320.00	\$32,320.00
Actual Percentage	20.02%	20.02%
Signed/Approved Authorizations Plus Current Proposal		
Total Value of Authorizations	\$353,129.91	
Total Value of Subcontracts & Letters of Intent	\$107,188.72	\$107,188.72
Actual Percentage	30.35%	30.35%
GOAL	26%	30.35%




**Palm Beach County
Water Utilities
Department**


8100 Forest Hill Blvd.
West Palm Beach, FL 33416
(561) 493-6251

**Improvements to Lift Station
(LS) 393, 1023, 5133, and
Abidjan Estates (AE)**

WUD Project No. 17-064


**Location Map
Attachment G**


N



1 in = 20,000 ft

Legend

 WUD Zones

 Lift Station

ATTACHMENT 3

Summary of Certificates

This report displays detailed Certificate of Insurance information for a selected Insured. Any items shown in red are deficient.

Monday, February 05, 2018

- | | | |
|-------------|--------------------|-----------|
| Simple View | Certificate Images | Documents |
|-------------|--------------------|-----------|

Insured: Baxter Woodman, Inc.

Insured ID: 17-004-PBC

Status: Compliant

ITS Account Number: PLC2615

Project(s): Palm Beach County - Water Utilities

Insurance Policy	Required	Provided	Override
<u>General Liability</u>			
Expiration: 1/1/2019			
General Aggregate:	\$500,000	\$2,000,000	
Products - Completed Operations Aggregate:	\$0	\$0	
Personal And Advertising Injury:	\$0	\$0	
Each Occurrence:	\$500,000	\$1,000,000	
Fire Damage:	\$0	\$0	
Medical Expense:	\$0	\$0	
<u>Automobile Liability</u>			
Expiration: 1/1/2019			
	All Owned Autos	Any Auto not provided	X
	Hired Autos	not provided	X
	Non-Owned Autos	not provided	X
Combined Single Limit:	\$500,000	\$1,000,000	
<u>Workers Compensation/Employers Liability</u>			
Expiration: 1/1/2019			
<u>Professional Liability</u>			
Expiration: 1/1/2019			
Each Occurrence:	\$3,000,000	\$5,000,000	
Aggregate Limit:	\$3,000,000	\$5,000,000	

Notifications ([Show All](#))

The following letters were issued:

Dec 04 2017 - Renewal Letter

Do you have an updated Certificate? Click the button below to submit a Certificate.

Certificate Submittal
