

The services rendered pursuant to this Consultant Agreement are in accordance with the terms and conditions of the Contract for Professional Services between the City of Pompano Beach and Mathews Consulting, a Baxter & Woodman company, for Single Project Contract for Engineering Services for Gateway Drive Stormwater Improvements as set forth in the RLI L-03-16 dated June 8, 2016 and Resolution 2016-251 dated July 27, 2016.

## **Gateway Drive Stormwater Improvements – Engineering Design, Permitting, Bidding & Construction Administration Services**

---

### **A. Background**

The City of Pompano Beach (CITY) previously selected Mathews Consulting (CONSULTANT) to prepare a Drainage Preliminary Design Report for the Gateway Drive area under Resolution 2016-251. The Preliminary Design Report provided the recommended improvements to the Gateway Drive area in order to address widespread roadway ponding and standing water for an extended period of time after rainfall events. The Gateway Drive project limits are bounded on the north by the C-14 Canal, on the east by Powerline Road, on the south by McNab Road and on the west by the B-1 Canal, plus the properties along SW 32<sup>nd</sup> Avenue, SW 14<sup>th</sup> Court and SW 31<sup>st</sup> Avenue.

As discussed in the Preliminary Design Report, Alternative 4A was our recommended drainage alternative since it provides the most overall benefit in terms of reducing the duration of the roadway flooding. Refer to **Figure 6-1** (attached) that shows the recommended drainage facilities.

### **B. Scope of Services**

The CONSULTANT will provide professional engineering services to the CITY for the installation of new Drainage System within the project area. The Engineering Services of CONSULTANT shall include the following tasks:

- Task 1 – Design Workshop Meetings
- Task 2 – Data Collection
- Task 3 – Design
- Task 4 – Permitting
- Task 5 – Public Outreach
- Task 6 – Bidding
- Task 7 – Construction Administration
- Task 8 – Periodic Inspections

The specific scope of services to be provided by CONSULTANT in this Work Authorization includes the following:

#### **Task 1 – Design Workshop Meetings**

##### **Subtask 1.2 Design Workshop Meetings**

CONSULTANT shall attend one (1) kick-off meeting and three (3) design workshop meetings with the CITY and provide a written summary of the issues discussed.

## Task 2 - Data Collection

### Subtask 2.1 Field Verification (soft digs)

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 approximately forty (40) utility locations will need to be pot-holed. The cost of providing the professional underground services company will be treated as a utility allowance with an authorized upper limit (\$12,000).

### Subtask 2.2 Additional Survey - SW 29<sup>th</sup> Ave Outfall

CONSULTANT shall utilize the survey data obtained during preparation of the Preliminary Design Report within the Project Area shown in yellow on attached **Exhibit 1**. The Stormwater Master Plan report did not anticipate an additional outfall along SW 29<sup>th</sup> Avenue and therefore the alignment was not surveyed for the Preliminary Design Report. Upon further analysis in the Preliminary Design Report, it was determined that the additional outfall is required to address stormwater ponding. Therefore, additional survey is proposed in this scope of work along SW 29<sup>th</sup> Avenue for the proposed outfall pipe as shown in red on **Exhibit 1**.

For this additional survey, the CONSULTANT shall provide survey services consisting of field topography, locating existing vertical and horizontal control (GPS Localization), baseline stationing and locating all above ground existing facilities and utilities within the proposed drainage. The horizontal control will be referenced from the North American Datum of 1983/90 (**NAVD 83/90**). The vertical control will be referenced to the North American Vertical Datum of 1988 (**NAVD 88**). Survey baseline will be provided. The survey work shall subsidize the survey information obtained during the preparation of the Preliminary Design Report and shall include the following:

1. Topography survey at 50-foot intervals and at major ground elevation changes to depict existing ground profile along the proposed outfall pipe from the terminus of SW 29<sup>th</sup> Avenue to the C-14 Canal.
2. Pertinent topographic data to be collected shall include the following:
  - a. Location of all visible fixed improvements within the right-of-ways, easements and parcels of the project limits, including physical objects, roadway pavement, driveways, sidewalks, walls, curb, drainage swales, shrubs, trees with diameter (use approved tree symbols), sprinkler heads and control valves, lift stations, signs, fences, canal bank and EOW, power poles, buildings, and any other encumbrances.
  - b. This will include coordination with Sunshine, Caltrop and City of Pompano Beach.
  - c. Additional survey work shall reference the benchmarks of the original survey. Elevations to be referenced to an existing established City or County Benchmark.

## Task 3 - Design Services

### Subtask 3.1 Utility Coordination

Coordination with utility agencies (electric, phone, gas, cable TV, and fiber optics, etc.) shall be performed to collect record information. This Subtask includes reconciling apparent discrepancies between record information and existing photographic and field-verification information.

### **Subtask 3.2      Design Drawings**

Preparation of construction documents shall include contract drawings and technical specifications. Contract drawings shall include: cover sheet, general notes, plan/profile drawings, and miscellaneous detail sheets. The drawing scale shall be 1-inch equals 20 feet for pipeline plan and 1-inch equals 2 feet for pipeline profile. Roadway centerline profile will be adjusted to slope towards roadside swales and drainage inlets. Trench repair with mill and overlay will be proposed for the roads unless the extent of the trench repair requires full roadway reconstruction. The majority of the roadway improvements are anticipated to be trench repair with mill and overlay and striping replacement. CONSULTANT shall prepare the engineering design elements on topographic survey information in an AutoCAD release 2016 format and the layering system for design elements shall be CONSULTANT's standard. Drawings shall be submitted for CITY review at 60% (plan view only), 95% (plan/profile) and 100% (plan/profile) stages. CONSULTANT shall meet with the CITY to discuss comments, and incorporate comments into final documents. CONSULTANT shall furnish with the 100% design drawings, one (1) set of AutoCAD Version 2016 files in electronic format on CD.

### **Subtask 3.3      Technical Specifications**

Specifications are to be prepared by CONSULTANT for bidding purposes for the drainage system. The Front-End Contract Documents are to be prepared by the CITY. Specifications shall be submitted for CITY review at 60% and 100% stages. CONSULTANT shall meet with the CITY to discuss comments, and incorporate comments into final documents.

### **Subtask 3.4      Construction Cost Opinion**

An opinion of probable construction cost will be prepared for the 60%, 95% and 100% drawings and specifications. The cost estimate format will be consistent with the bid proposal tabulation sheet for the project. The cost opinion will be provided to the CITY during the 60%, 95% and 100% design reviews.

### **Subtask 3.5      Quality Assurance**

CONSULTANT shall provide internal QA/QC reviews on the 60%, 95% and 100% Design Documents (e.g. drawings, specifications, and cost estimates).

## **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:

- South Florida Water Management District (Water Use Application for Dewatering).
- South Florida Water Management District ROW Permit.
- Broward County Environmental Licensing & Building Permitting Division (Surface Water Management License Application).
- Broward County Environmental Licensing & Building Permitting Division (Environmental Resource Permit Application).
- Broward County Water Control District #4
- City of Pompano Beach Building Department

Permit applications shall be completed for each of the permitting agencies. Associated permit application fees shall be determined by CONSULTANT and paid by CITY.

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

- Attend up to one (1) pre-application meeting with the staff of each regulatory agency.
- Attend up to one (1) meeting with each of the regulatory agencies during review of the final permit applications.
- Respond to request(s) for additional information from each regulatory agency.

#### **Subtask 4.1      Dewatering Permit (SFWMD)**

CONSULTANT shall prepare and submit “Water Use Permit Application” for dewatering to South Florida Water Management District (SFWMD).

#### **Subtask 4.2      SFWMD ROW Permit**

CONSULTANT shall prepare and submit a “Standard Permit Application” to South Florida Water Management District (SFWMD) for the installation of a drainage outfall to the C-14 Canal.

#### **Subtask 4.3      Surface Water Management License (Broward County)**

CONSULTANT shall prepare and submit “Surface Water Management License Application” to Broward County Environmental Licensing & Building Permitting Division.

#### **Subtask 4.4      Environmental Resource Permit (Broward County)**

CONSULTANT shall prepare and submit “Environmental Resource Permit Application” to Broward County Environmental Licensing & Building Permitting Division.

#### **Subtask 4.5      Broward County Water Control District #4**

CONSULTANT shall prepare and submit an application to the Broward County Water Control District #4 for proposed work within the B-1 Canal.

#### **Subtask 4.6      Pompano Beach Tree Evaluation and Mitigation (if needed)**

CONSULTANT shall obtain the services of an ISA Certified Arborist and/or Florida Registered Landscape Architect to conduct a tree appraisal and evaluation of the trees anticipated to be removed for the construction of the proposed improvements. Approximately 15 trees are anticipated to be removed based upon the preliminary design layout of the drainage improvements. The appraisal shall be in tabular format and will include the common and botanical name; describe the overall size and caliper of each tree; evaluate the health condition; and provide a dollar value for each existing tree. This information is for the purposes of submittal to the City’s Building Department for the approval of the mitigation valuation. This assumes replacement trees will be located in proximity to the removed tree and the proposed location will be shown on the construction drawings. It is anticipated that preparation of a separate landscape mitigation plan will not be required and work to prepare such a plan is not included.

## **Task 5 – Public Outreach**

### **Subtask 5.1      Public Meetings**

CONSULTANT shall attend up to one (1) meeting prior to construction with the property owners and business entities in the project area. The meetings shall be coordinated by the CITY and the meeting shall also be attended by the Contractor. This will also include assistance with the development of presentation materials for the public meeting for the affected property owners and businesses.

## **Task 6 - Bid Phase Services**

### **Subtask 6.1      Prepare Bid Documents**

Prepare Contract Document packages (i.e. drawings and specification) for CITY advertisement and bidding purposes. Drawings to be full size (22" x 34") format. CONSULTANT shall also provide the CITY with a copy of Contract Documents in pdf format.

### **Subtask 6.2      Pre-Bid Conference**

CONSULTANT shall prepare agenda and conduct pre-bid conference with interested contractors and CITY staff. CONSULTANT shall prepare and distribute meeting minutes.

### **Subtask 6.3      Bid Clarification**

Respond to questions from prospective bidders and suppliers. CONSULTANT shall prepare addenda and shall provide supplemental information or clarification as appropriate, to interpret, clarify, or expand the bidding documents to the CITY for distribution to all prospective bidders during the bid period.

### **Subtask 6.4      Conformed Contract Documents**

CONSULTANT shall prepare conformed Contract Documents for use by the Contractor and CITY during construction.

## **Task 7 - Construction Administration**

### **Subtask 7.1      Preconstruction Conference**

CONSULTANT shall attend a preconstruction conference with representatives of CITY, contractors and major subcontractors for the construction contract. CONSULTANT shall prepare, in writing, minutes of conference.

### **Subtask 7.2      Submittal Review**

CONSULTANT shall review and process shop drawings, samples, schedules, certifications and any other data which the construction contractor is required to submit. The review will be for general conformance with the design intent and compliance with the construction contract documents. Consultant will submit reviewed shop drawings/submittals to CITY for their records. Shop drawings shall be processed as electronic copies unless otherwise requested or for samples.

**Subtask 7.3      Progress Meetings**

Consultant shall attend construction progress meetings with the City and Contractor and provide an agenda and written summary of the issues discussed. Project progress meetings will be conducted by the Construction Manager with the Resident Project Representative also in attendance and will be held approximately twice per month basis. Following the meeting, the Construction Manager will prepare and distribute meeting minutes (within 36 hours after meeting) to the City and other attendees. Meetings will be held at the City facilities. Up to twenty (20) progress meetings are included in the budget for this task.

**Subtask 7.4      Pay Estimate & Construction Schedule Review**

Consultant shall review monthly payment applications (total of 10) submitted in a format acceptable to the City. Consultant shall verify the quantities as represented on the pay request and make a recommendation to the City to proceed, with the payment as requested, or as modified based on Consultant review. The Consultant shall review the construction schedule as submitted by the Contractor on a monthly basis, and report to the City conditions which may cause delay in a timely completion. A 10-month construction period is assumed in budgeting this task.

**Subtask 7.5      Construction Administration**

The Construction Manager shall provide construction administration required for the Contract. The Construction Manager will also visit the project site an average of 8 hours a month for the ten (10) month construction time frame.

**Subtask 7.6      Construction Clarifications**

Respond in writing to Contractor's Request for Information (RFI) regarding design documents during the 10-month construction period. CONSULTANT shall issue interpretations and clarifications of the Contract Documents, along with associated support materials, such as Change orders and Field Change Orders, as necessary. Those interpretations will be rendered and a response prepared and submitted to the City within 2-3 working days.

**Subtask 7.7      Record Drawing Review**

Consultant shall review monthly as-builts from the Contractor. The Contractor shall prepare final Record Drawings at the completion of the project in accordance with City standards and approval and acceptance of the Consultant.

**Subtask 7.8      Punchlists, Certification of Construction Completion**

In conjunction with City staff, Consultant shall make preliminary and final inspections and assist in the preparation of a Contractor "punch list" to achieve Substantial Completion. Consultant shall review completion of identified punch list items to assist in the determination that Substantial Completion has been achieved by the Contractor. Consultant shall advise the City that Final Acceptance of the project has been reached in accordance with the Contract Documents.

CONSULTANT shall certify to Broward County, BCWCD#4, the City and SFWMD based on the visible project features; MC's periodic inspections; and review of the testing reports, that the project was constructed in substantial accordance with the plans and specifications submitted for the permit applications and as may be modified (with approval) during construction.

## Task 8 – Resident Project Representative

The Resident Project Representative Phase services to be provided by the Consultant include the following:

### Subtask 8.1 Site Inspections

Consultant shall provide a part-time (20 hours/week) Resident Project Representative (RPR) during the construction (assumed average 8-months of the 10-month construction duration) of the work in a total period of not-to-exceed 160 working days (for a total of 640 hours) for the construction contract. Activities performed by Consultant under this task consist of furnishing an RPR during the construction of the project, to observe the quality of the construction work, and to determine, in general, if the construction is proceeding in accordance with the contract documents so that an engineering certification of construction completion can be made regarding the construction of the proposed improvements.

The RPR shall:

- Serve as Consultant's liaison with construction contractor, working principally through the contractor's superintendent and assisting him in understanding the intent of the contract documents.
- RPR shall coordinate their schedule with the City's inspector's schedule in order to provide a combined coverage of inspections of the construction contract.
- Conduct on-site observations of the work in progress to assist in determining if the work is proceeding in accordance with the contract documents and that completed work conforms to the contract documents. Consultant's Project Manager shall report, in writing to the City, whenever Consultant believes that work is unsatisfactory, faulty or defective, or does not conform to the contract documents, or does not meet the requirements of inspections, tests or approval required to be made, or has been damaged prior to final payment.
- Prepare daily report logs, including photographs, describing the work performed. The logs and photographs will be provided electronically to the City on a weekly basis.
- Accompany visiting inspectors representing public or regulatory agencies having jurisdiction over the project. Record, in writing, the outcome of these inspections and report same to City.
- Consider and evaluate construction contractor's suggestions for modifications in drawings or specifications and report them to the City, in writing. Consultant shall make recommendation for action by the City.
- Review Contractor As-Built information on a monthly basis to confirm proper updates are being made.
- Observe, approve and certify all flushing and pressure and leakage testing of the piping.
- Assist the Contractor in coordinating all required density testing, etc. as required by the Construction Documents.

- RPR shall work with the Contractor and develop a Daily Quantity Sheet (based on the approved Schedule of Values) to be reviewed and accepted each day agreeing to the quantities of Schedule of Value items installed.

## LIMITATIONS OF AUTHORITY

Limitations of RPR Authority. Except upon written instructions of Consultant, RPR:

1. Shall not exceed limitations on Consultant's authority as set forth in the Contract Documents.
2. Shall not undertake any of the responsibilities of Contractor, Subcontractors or Construction Manager, or expedite the Work.
3. Shall not issue directions relative to any aspect of the means, methods, techniques, sequences or procedures of construction unless such is specifically called for in the Contract Documents.
4. Shall observe but not participate in specialized field or laboratory tests.

## C. Assumptions

In addition to, the work items discussed above, the following assumptions were made in establishing the scope of this Work Authorization and associated fee. Changes and/ or modifications in the above work items or these assumptions are considered an Additional Services Item under the terms of the contract. Assumptions include:

1. The scope and budget are based on the design, permitting and bidding of a storm water system and resultant roadway improvements only. If additional underground utilities are added to the project, an Amendment to this Work Authorization will be executed for this work.
2. CITY will provide CONSULTANT available record drawings prior to NTP date, of facilities within the project area which have been modified since the Preliminary Design Report was prepared.
3. CONSULTANT shall utilize the survey data obtained during preparation of the Preliminary Design Report. Any survey information the CONSULTANT failed to obtain within the limits of the Preliminary Design Report study limits, will be obtained at no additional cost to the CITY. Additional survey is proposed herein along SW 29<sup>th</sup> Avenue for the proposed outfall to the C-14 Canal which was identified during the course of the Preliminary Design Report stormwater analysis. This additional outfall was not anticipated in the original stormwater master plan and therefore was not included in the limits of the initial survey conducted for the Preliminary Design Report.
4. Landscape architectural and irrigation design services are not included. Services for tree condition analysis and valuation of trees to be removed as described in Task 4.6 will be provided if necessary and only if specifically directed to proceed by the City.
5. The CITY will provide CONSULTANT an electronic version of "front end" contract documents in MICROSOFT "WORD" version format.
6. Surveying and legal work necessary to prepare document for and to secure easements (temporary for construction and/or permanent) required for installation of the piping and improvements is proposed under separate services proposal.
7. The CITY is responsible for all permitting fees, including costs of public notification in local newspapers.
8. The CITY will provide CONSULTANT an electronic version of latest CITY standard details in AUTOCAD Version 2016 format.
9. A single bidding effort is assumed for the project. Re-bidding of the project is considered an Additional Services item.



10. 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. However, CONSULTANT shall inform the CITY of any known impending changes to allow the CITY time to mitigate costs.
11. An area of contaminated soil/groundwater has been identified within the project area. The CONSULTANT will design the drainage system improvements with minimal impacts to the contamination plume; and it is anticipated that dewatering efforts can be completed by the contractor with means and methods to contain those impacts; and that the appropriate permits may be obtained for the improvements in this area. CONSULTANT shall identify the proposed methods for containing the plume in the dewatering permit application.
12. During construction, CITY Staff will be the Contractor's primary point of contact. CITY will provide CONSULTANT with copies of applicable daily inspection reports and digital project photos, as available. The CITY's inspection efforts will be coordinated with the CONSULTANT's periodic inspections.
13. Deviations from the Final Design Drawings will be compiled by the Contractor and electronically incorporated onto the drawing files for approval by CONSULTANT. Two sets of signed and sealed RECORD drawings by Florida Registered Surveyor will then be submitted by the Contractor to the CITY. One set of RECORD drawings for each permit certification (total of 3) will be provided to CONSULTANT for submittal to the permitting agencies. One (1) set to be retained by the CITY.
14. No pre-purchase of materials and/or equipment is presumed.
15. The construction duration is estimated to be 300 calendar days.
16. Part-time inspections are based on an average of 20 hrs/week (Monday-Friday).
17. Assisting the City in the settlement of construction contract claims is considered Additional Services and is not included in this Scope of Services.
18. Attendance at the bid opening, review of bids, preparation of bid tabulation and recommendation of award to contractor is not included herein.
19. Submittal to the City's Building Department is not included herein.

## **D. Additional Services**

Consultant shall provide additional engineering services relating to the provision of surveying, geotechnical, and utility locates to the project area that are not covered under this Work Authorization. These additional services may be required due to uncertainties discovered during survey, soils, investigations, field verification of existing facilities and conditions, and potential property or easement acquisitions.

Services performed under this task will be on as-directed basis in accordance with a written Notice-to-Proceed from the CITY. The Notice-to-Proceed issued shall contain the following information and requirements when applicable:

- A detailed description of the work to be undertaken.
- A budget establishing the amount of the fee to be paid in accordance with the Agreement.
- A time established for completion of the work.

## E. Obligations of the CITY

1. The CONSULTANT, with the CITY as applicant, shall process applications for approval and permits from all governmental authorities having jurisdiction over the project. The CITY is responsible for the payment of all permit application fees. CITY will sign as Owner.

## F. Compensation

Compensation by the CITY to the CONSULTANT for all tasks will be on a Not-to-Exceed (time utilized) basis in accordance with the terms and conditions of the Agreement for Professional Services between the City of Pompano Beach and Mathews Consulting for Single Project Contract for Engineering Services for Gateway Drive Stormwater Improvements. The estimated compensation for the services described in this Work Authorization is **\$196,023.00** as shown in **Table 1** below and further detailed in **Attachment A**.

**TABLE 1: LABOR AND EXPENSE SUMMARY**

<u>Engineering Services</u>	<u>Estimated Fees</u>
Task 1 – Design Meetings	\$ 3,816.00
Task 2 – Data Collection	\$ 19,941.00
Task 3 – Design Services	\$ 61,254.00
Task 4 – Permitting	\$ 21,751.00
Task 5 – Public Outreach	\$ 1,573.00
Task 6 – Bidding	\$ 3,268.00
Task 7 – Construction Administration	\$ 24,820.00
Task 8 – Resident Project Representative	\$ 57,600.00
Reimbursables* (NTE)	\$ 2,000.00
<b>TOTAL PROJECT COST</b>	<b>\$196,023.00</b>

\* Reimbursables include postage, printing & mileage (except for site inspectors)

## G. Schedule

The completion dates for this work will be as follows (starting at time that CONSULTANT receives the hardcopy of the executed Contract).

<b>Engineering Services</b>	<b>Time per Phase</b>	<b>Cumulative Time</b>
Task 1 – Project Management	On-going	On-going
Task 2 – Data Collection	4 weeks	4 weeks
Task 3 – Design	16 weeks	20 weeks
Task 4 – Permitting	8 weeks <sup>(1)</sup>	28 weeks
Task 5 – Public Outreach	As required	As required
Task 6 – Bidding	8 weeks	36 weeks
Task 7 – Construction Administration	40 weeks	76 weeks
Task 8 – Resident Project Representative	36 weeks	76 weeks

<sup>(1)</sup> Estimated, based upon usual regulatory agency review period.

## H. Deliverables

TASKS	DELIVERABLES	QUANTITY
3 Design	60% Drawings & Specs 95% Drawings & Specs 100% Drawings & Specs  Cost Estimate @ 60%, 95% and 100%	Electronically in .pdf + 2 hard copies plans Electronically in .pdf Electronically in .pdf & Autocadd, 2 hard copies plans, 1 hard copy spec book
4 Permitting	Permit Application Package(s)	Electronic submittal
6 Bidding	Bid Sets	2 – Sets (22" x 34")& .pdf 1 hard copy spec book
6 Conformed Documents	City Sets Contractor Construction Sets	4 – Sets (22" x 34")& .pdf 2 – Sets (22" x 34")& .pdf 3 copies contract books

**"CITY":**

Witnesses:

**CITY OF POMPANO BEACH**

\_\_\_\_\_

By: \_\_\_\_\_  
LAMAR FISHER, MAYOR

\_\_\_\_\_

By: \_\_\_\_\_  
GREGORY P. HARRISON, CITY MANAGER

Attest:

\_\_\_\_\_  
ASCELETA HAMMOND, CITY CLERK

(SEAL)

Approved as to Form:

\_\_\_\_\_  
MARK BERMAN, CITY ATTORNEY

STATE OF FLORIDA  
COUNTY OF BROWARD

The foregoing instruments were acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 2018, by **LAMAR FISHER** as Mayor, **GREGORY P. HARRISON** as City Manager, and **ASCELETA HAMMOND** as City Clerk of the City of Pompano Beach, Florida, a municipal corporation, on behalf of the municipal corporation, who are personally known to me.

NOTARY SEAL:


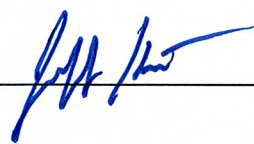
\_\_\_\_\_  
NOTARY PUBLIC, STATE OF FLORIDA

\_\_\_\_\_  
(Name of Acknowledger Typed, Printed or Stamped)


\_\_\_\_\_  
Commission Number

**"CONSULTANT":**

Witnesses:

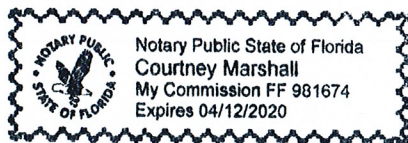
**MATHEWS CONSULTING,  
A Baxter & Woodman Company**

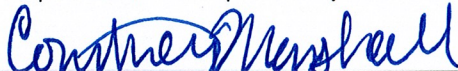
By:   
 Rebecca Travis, P.E., Vice President  
 477 S. Rosemary Avenue, Suite 330  
 West Palm Beach, FL 33401

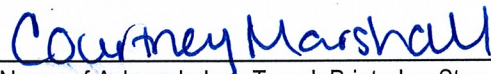
STATE OF FLORIDA  
 COUNTY OF PALM BEACH

The foregoing instruments were acknowledged before me this 2 day of August, 2018, by **REBECCA TRAVIS** as Vice President of Mathews Consulting, a Baxter & Woodman Company, an Illinois corporation, on behalf of the corporation, who is personally known to me.

Notary's Seal:



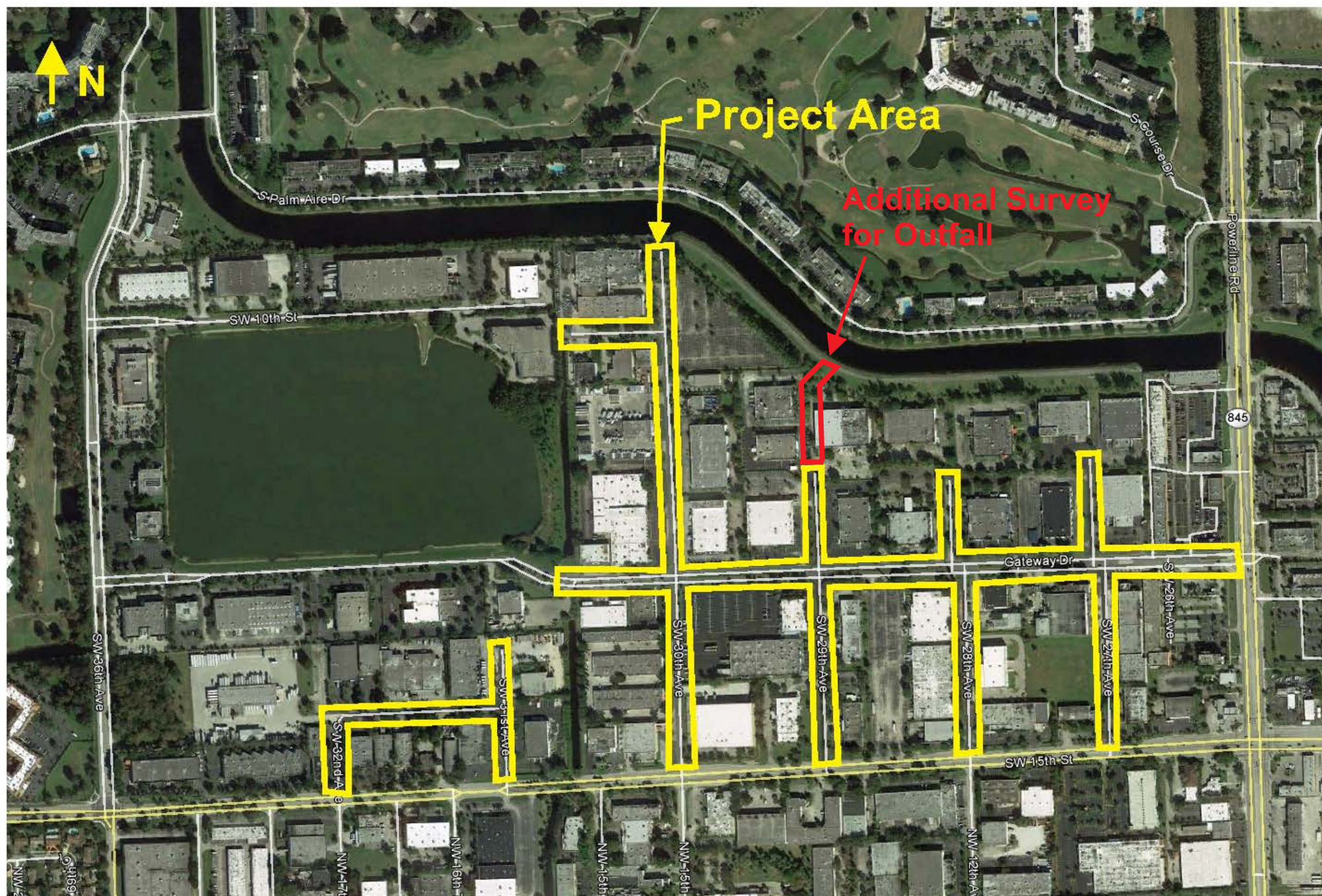
  
 Notary Public, State of Florida

  
 (Name of Acknowledger Typed, Printed or Stamped)

FF 981674  
 Commission Number

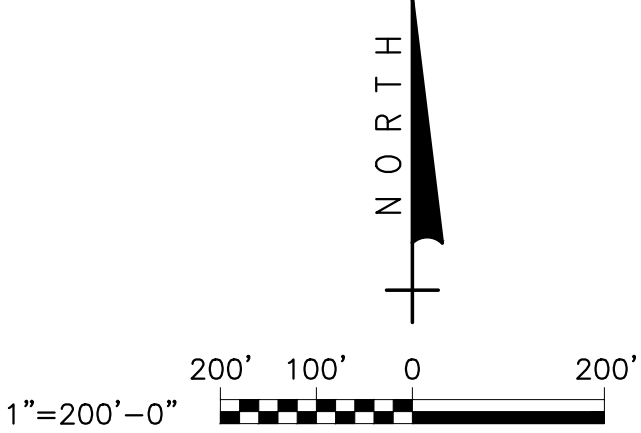
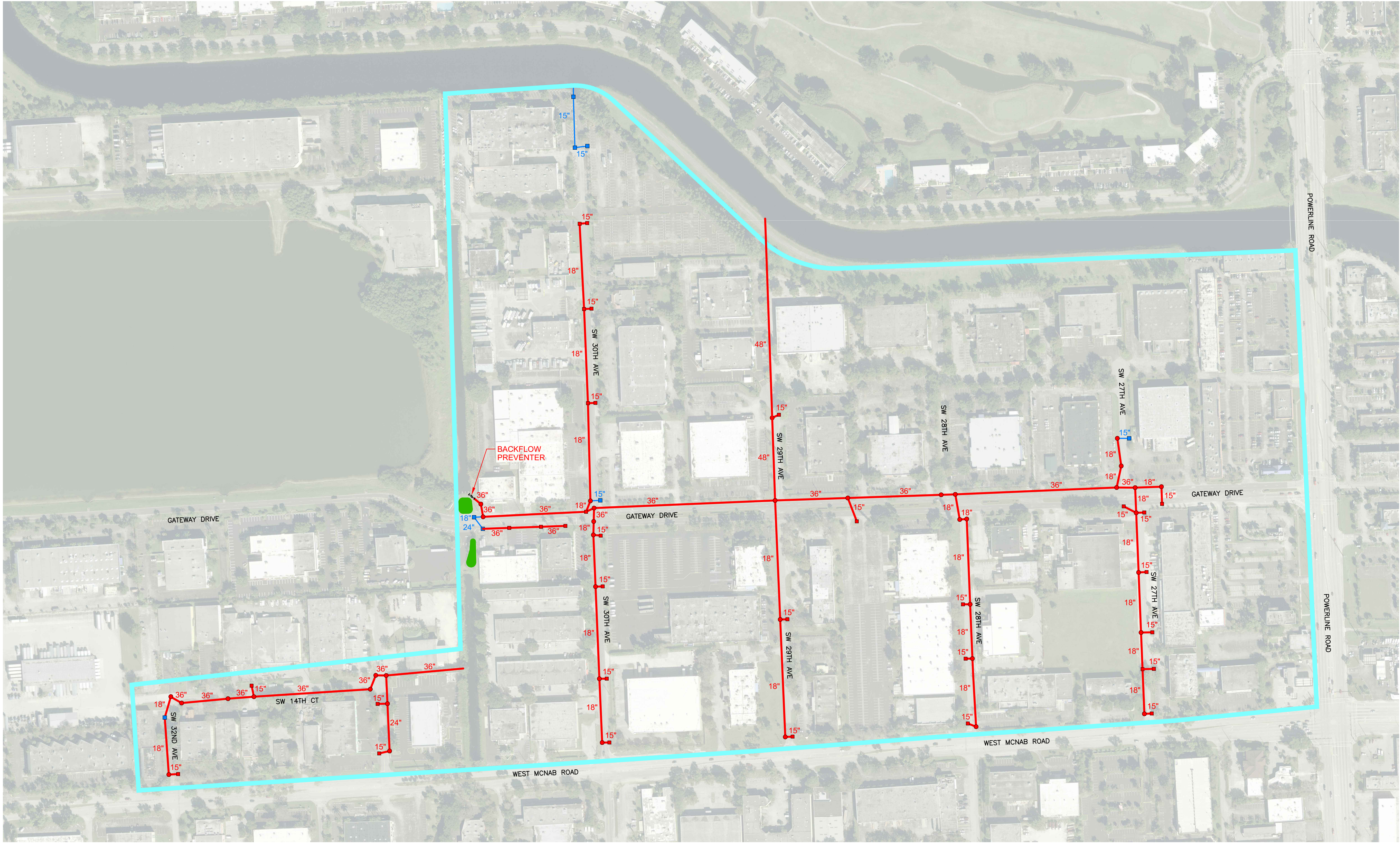


# Exhibit 1 Project Location Map





Acad Version : R20.1s (LWS Tech) User Name : 766ddp Date/Time : Thu, 31 Aug 2017 - 7:49am Current Plotstyle : ByColor Layout Tab: Figure 6-1 - 4A Path Name : I:\WestPalmBeach\POMBC\161867-Gateway Drive Stormwater PDR\CAD Exhibits\Figure 6-1-ALT 4A\_Prelim Design Map.dwg



**LEGEND**

PROPOSED INLET

PROPOSED MANHOLE

PROPOSED STORM PIPE

EXISTING INLET

EXISTING MANHOLE

EXISTING STORM PIPE

STUDY AREA BOUNDARY

SWALE AREA

NO.	DATE	ISSUED FOR	APRV'D BY

DESIGNED:	M.R.T.
DRAWN:	J.A.J.
CHECKED:	D.L.M./A.C.
APPROVED:	D.L.M.

MATHEWS  
CONSULTING



a BAXTER & WOODMAN company

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

Phone: 561-656-6175 • Fax: 561-656-6179

www.baxterwoodman.com EB-31795

VERIFY SCALE

1"



BAR IS ONE INCH  
ON FULL SIZE  
(22x34) ORIGINAL  
DRAWING. ADJUST  
SCALES AS  
NECESSARY.

ENGINEER NO.:	161867
CLIENT	
PROJECT NO.:	
CAD REF.:	Prelim Design Map

CITY OF POMPANO BEACH  
GATEWAY DRIVE STORMWATER PDR

PRELIMINARY DESIGN LAYOUT  
ALTERNATE 4A

DATE:	AUGUST 2017
SHEET:	1 of
DRAWING:	

FIGURE 6-1



**Attachment A**  
**City of Pompano Beach**  
**Gateway Drive Stormwater Improvements**

**Engineering Fee Proposal**

Task No.	Task Description	Labor Classification and Hourly Rates									
		Principal Engineer \$165.00	Senior Project Engineer II \$142.00	Engineer I \$115.00	2-Man Survey Crew \$130	Senior Eng. Tech. \$105.00	Senior Inspector \$110.00	Inspector \$90.00	Clerical \$65.00	Total Labor	Sub-Consultant Services
<b>1</b>	<b>Design Meetings</b>										
1.1	Design Workshop Meetings (kickoff mtg & 3 progress)		13	16					2	\$3,816	
	<b>Subtotal Task 1</b>	<b>0</b>	<b>13</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>\$3,816</b>	<b>\$0</b>
<b>2</b>	<b>Data Collection</b>										
2.1	Field Verification (soft-digs)		5	5		12				\$2,545	\$12,000
2.2	Survey SW 29th Ave Outfall		3		29					\$4,196	
	<b>Subtotal Task 2</b>	<b>0</b>	<b>8</b>	<b>5</b>	<b>29</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$6,741</b>	<b>\$12,000</b>
<b>3</b>	<b>Design Services</b>										
3.1	Utility Coordination		2	8		8			6	\$2,434	
3.2a	60% Design Drawings	10	45	80		90				\$26,690	
3.2b	95% Design Drawings		30	50		60				\$16,310	
3.2c	100% Design (Bid) Drawings		15	25		5				\$5,530	
3.3	Technical Specifications (60% & 100%)	12		10					15	\$4,105	
3.4	Construction Cost Opinion (60%, 95% & 100%)		10	15		8				\$3,985	
3.5	Quality Assurance/Constructability Reviews	8					8			\$2,200	
	<b>Subtotal Task 3</b>	<b>30</b>	<b>102</b>	<b>188</b>	<b>0</b>	<b>171</b>	<b>8</b>	<b>0</b>	<b>21</b>	<b>\$61,254</b>	<b>\$0</b>
<b>4</b>	<b>Permitting</b>										
4.1	SFWMD Water Use Permit (dewatering)		20	6					2	\$3,660	
4.2	SFWMD Standard Permit for Outfall in ROW		5	10					2	\$1,990	
4.3	Broward County Surface Water Mgmt License		20	10					2	\$4,120	
4.4	Broward County Environmental Resource Permit		10	10					2	\$2,700	
4.5	BCWCD #4 Permit		5	5					2	\$1,415	
4.6	Pompano Landscape Evaluation & Mitigation (as needed)		8						2	\$1,266	\$6,000
	<b>Subtotal Task 4</b>	<b>0</b>	<b>68</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>\$15,151</b>	<b>\$6,000</b>
<b>5</b>	<b>Public Outreach</b>										
5.1	Public Meetings (total of 1)		4	6		3				\$1,573	
	<b>Subtotal Task 5</b>	<b>0</b>	<b>4</b>	<b>6</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$1,573</b>	<b>\$0</b>
<b>6</b>	<b>Bidding</b>										
6.1	Prepare Bid Documents		3			3			2	\$871	
6.2	Pre-Bid Conference		3	3					1	\$836	
6.3	Bid Clarification		3	3						\$771	
6.4	Conformed Contract Documents			3		3			2	\$790	
	<b>Subtotal Task 6</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>\$3,268</b>	<b>\$0</b>
<b>7</b>	<b>Construction Administration</b>										
7.1	Preconstruction Conference		4				4			\$1,008	
7.2	Submittal Review		8				30			\$4,436	
7.3	Progress Meetings (total of 20)		5				80			\$9,510	
7.4	Pay Estimate & Schedule Review						30			\$3,300	
7.5	Construction Administration		5				20			\$2,910	
7.6	Construction Clarifications		10							\$1,420	
7.7	Record Drawing Review						10			\$1,100	
7.8	Substantial & Final Punchlist, Certifications		8							\$1,136	
	<b>Subtotal Task 7</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>\$24,820</b>	<b>\$0</b>
<b>8</b>	<b>Construction Inspection</b>										
8.1	Site Inspections							640		\$57,600	
	<b>Subtotal Task 8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>640</b>	<b>0</b>	<b>\$57,600</b>	<b>\$0</b>
	Labor Subtotal Hours	30	244	265	29	192	182	640	40		
	Labor Subtotal Costs	\$4,950	\$34,648	\$30,475	\$3,770	\$20,160	\$20,020	\$57,600	\$2,600	\$174,223	\$18,000
	<b>Labor Total Costs</b>	<b>\$174,223</b>									
	Subconsultant Costs Total	\$18,000									
	Subconsultant Multiplier	1.1									
	<b>Subconsultant Total</b>	<b>\$19,800</b>									
	Reimbursable Expenses	\$2,000									
	<b>Project Total</b>	<b>\$196,023</b>									