

**EXHIBIT "A"**

**PROFESSIONAL SERVICES  
FOR  
NEIGHBORHOOD STREETS PROGRAM  
TASK ORDER NO. 06**

THIS TASK ORDER FOR PROFESSIONAL SERVICES ("Task Order" hereafter) is made on the \_\_\_ day of \_\_\_\_\_, 2021, between the **City of Lake Worth Beach**, a Florida municipal corporation located at 7 North Dixie Highway, Lake Worth Beach, Florida 33460 ("City" hereafter) and **Chen Moore and Associates**, a Florida municipal corporation, whose local business address is 500 Australian Ave South, Suite 850, West Palm Beach, FL, 33401 ("Consultant" hereafter).

**1.0 Project Description:**

The City desires the Consultant to provide those services as identified herein for the Neighborhood Streets Program. The services are generally described as: **District 4 - South Palm Park Sea Level Rise Mitigation Project** (the "Project").

**2.0 Scope:**

Under this Task Order, the Consultant will provide the City of Lake Worth Beach Water Utilities Department with plans, specifications, and bid and award services for the Project as specified in the **Consultant's proposal attached hereto and incorporated herein as Exhibit "1"**

**3.0 Schedule:**

The services to be provided under this Task Order shall be completed within 285 calendar days from the City's approval of this Task Order and issuance of a Notice to Proceed. This time includes an allocation of 60 days for permitting with various regulatory agencies.

**4.0 Compensation:**

This Task Order is issued for a lump sum, not to exceed amount of \$ 80,510 . The proposal identifies all costs and expenses included in the lump sum, not to exceed amount.

**5.0 Project Manager:**

The Project Manager for the Consultant is **Brent Whitfield, P.E.** phone: **561-329-1797**; email: **bwhitfield@chenmoore.com**; and, the Project Manager for the City is **Julie Parham**, phone: **561-586-1798**; email: **jparham@lakeworthbeachfl.gov**.

**6.0 Progress Meetings:**

The Consultant shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

**7.0 Authorization:**

This Task Order is issued in compliance with the Consultants' Competition Negotiation Act, section 287.055, Florida Statutes, and pursuant to the Agreement for Professional Services between the City of Lake Worth Beach and the Consultant, dated February 7, 2017 ("Agreement" hereafter). If there are any conflicts between the terms and conditions of this Task Order and the Agreement, the terms and conditions of the Agreement shall prevail.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order as of the day and year set forth above.

**CITY OF LAKE WORTH BEACH, FLORIDA**

By: \_\_\_\_\_  
Pam Triolo, Mayor

ATTEST:

\_\_\_\_\_  
Debbie Andrea, City Clerk

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY:

By: \_\_\_\_\_  
Glen J. Torcivia, City Attorney

APPROVED FOR FINANCIAL  
SUFFICIENCY

By: \_\_\_\_\_  
Bruce T. Miller, Financial Services Director

**Consultant:** Chen Moore and Associates

By: \_\_\_\_\_  
Name: Cristobal Betancourt  
Title: Director

[Corporate Seal]

STATE OF Florida )  
COUNTY OF Palm Beach )

THE FOREGOING instrument was acknowledged before me by means of physical presence or online notarization on this 4 day of March 2021, by Cristobal Betancourt, as the Director of Landscape Architect [title] of Chen Moore and Associates [vendor's name], a Florida Corporation [corporate description], who is personally known to me or who has produced \_\_\_\_\_ as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.



\_\_\_\_\_  
Notary Public Signature

Notary Seal:

**EXHIBIT B**

March 4, 2021

Julie Parham, P.E.  
Assistant Director | Water Utilities  
City of Lake Worth Beach  
301 College Street  
Lake Worth Beach, Florida 33460

**Subject: Scope of Professional Services  
District 4 - South Palm Park Sea Level Rise Mitigation Project**

Dear Mrs. Parham,

Chen Moore and Associates (CMA) is pleased to provide this Scope of Service in support of the City of Lake Worth Beach (CITY) addressing stormwater issues on 18<sup>th</sup> Avenue South as an extension of the previous design work performed under the Neighborhood Streets Program for District 4. This Scope of Service is in accordance with the contract between CMA and the CITY.

**SCOPE OF SERVICES**

This scope of service will include the following:

- Coordination with CITY
- Survey of all features within the right-of-way
- It is assumed that the project area consists of one fifth of an acre at the end of 18<sup>th</sup> Avenue South. Ther area includes the right of way of the hammerhead tee and drainage easement.
- Based on discussions with the CITY the project is to consist of the design and permitting of a stormwater pump station at the end of the street to mitigate the flooding condition during storm events coinciding with high tide conditions. The projected improvements will include a limited amount of regrading to tie in the proposed pump station elements to the existing conditions.

This scope will NOT include the following:

- Easement Acquisition (not anticipated)
- Geotechnical Investigations
- Construction Administration

The professional engineering services and the associated fees are described below.

**TASK 1 FIELD INVESTIGATION AND COORDINATION**

- 1.1 Desktop Utility Research: ENGINEER shall perform a Sunshine One design ticket call, send letters to all identified utilities, collect utility location information and digitize utility locations for drawings. ENGINEER will also review all existing record drawings, design plans, utility atlases, and GIS data for the project area to develop a reference layer for underground utilities.
- 1.2 Survey Coordination: ENGINEER will coordinate with the contracted survey firm (Engenuity) to perform a survey of the geometry of the project area, curb and gutter,

sidewalk, pavement limits, drainage rim and invert elevations, and all above ground features within the right-of-way and 10-ft beyond. The survey will also establish horizontal and vertical control for the pump station design.

- 1.3 Field Verification: ENGINEER shall conduct field visits to assess the existing conditions of the project area to determine the potential location for the stormwater pump station and a verification of the survey.

## **TASK 2 50% DESIGN SUBMITTAL**

- 2.1 Plans: ENGINEER will prepare and submit 50% design drawings to CITY. The drawings will incorporate the survey linework, existing conditions, demolition plans, preliminary utility locations based on record drawing research and design ticket data, plan view alignment of proposed underground utilities (watermain pipeline and drainage pipeline), and preliminary pump station design for review by the CITY. The 50% design submittal will not include the existing or proposed profile view.

For scoping purposes, the assumed sheet count will be as follows:

1. Cover Sheet
2. Vicinity Map, General Notes and Legends
3. General Notes 2
4. Existing Site
5. Existing Site Demo Plan
6. Proposed Site
7. Stormwater Pollution Prevention Plan (SWPPP)
8. Existing Plan and Section
9. Proposed Plan and Section
10. Electrical Plans and Details
11. Project Specific Details (2 Sheets)
12. City Details (2 Sheets)

For all existing condition sheets and any proposed plans, it is anticipated that the drawing scale used will be 1" = 20', 1" = 5', or 1" = 3' based on the subject of the sheet and the details shown. Based on this approach, the total sheet count for the drawing set will be 17 pages.

- 2.2 Technical Specifications: ENGINEER shall prepare a Table of contents for the technical specifications based on CITY standard documents and Qualified Products List.
- 2.3 Cost Estimate: ENGINEER shall submit a cost estimate of the probable construction costs which will reflect the proposed improvements included within the 50% design plans.
- 2.4 Review Meeting: ENGINEER will attend one review meeting with CITY to discuss the 50% design submittal and obtain any review comments.

## **TASK 3 90% DESIGN PLANS**

- 3.1 Plans: ENGINEER will prepare and submit 90% design drawings to CITY. The drawings will incorporate the CITY comments on the 50% plans and will include information regarding the location and depth of existing utilities based on the SUE testholes and will include detailed profile drawings. For scoping purposes, the assumed sheet count will be as follows:
1. Cover Sheet
  2. Vicinity Map, General Notes and Legends
  3. General Notes 2
  4. Existing Site
  5. Existing Site Demo Plan
  6. Proposed Site
  7. Stormwater Pollution Prevention Plan (SWPPP)
  8. Existing Plan and Section
  9. Proposed Plan and Section
  10. Electrical Plans and Details
  11. Project Specific Details (2 Sheets)
  12. City Details (4 Sheets)
- 3.2 Technical Specifications and Front Ends: ENGINEER shall prepare a full draft of technical specifications based on CITY standard documents and Qualified Products List. ENGINEER shall review and revise the CITY Front End documents as needed to accommodate the project.
- 3.3 Cost Estimate: ENGINEER shall submit a cost estimate of the probable construction costs which will reflect the proposed improvements included within the 90% design plans.
- 3.4 Review Meeting: ENGINEER will attend one review meeting with CITY to discuss the 90% design submittal and obtain any review comments.

#### **TASK 4 PERMITTING**

- 4.1 SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD): ENGINEER shall hold a pre-application meeting with SFWMD Staff regarding the ERP requirements of the proposed drainage improvements coincident with Task 2. The ENGINEER shall prepare all ERP application documents and submit along with related 90% design documents. For the purposes of this scope, it is assumed the ENGINEER shall respond to up to one Request for Additional Information from SFWMD review staff.
- 4.2 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP): ENGINEER shall prepare all application documents and submit to the FDEP any related 90% design documents for the purpose of permitting the discharge to the Lake Worth Lagoon. For the purposes of this scope, it is assumed the ENGINEER shall respond to up to one Request for Additional Information from FDEP review staff.
- 4.3 CITY OF LAKE WORTH BEACH BUILDING DEPARTMENT (CITY): It is assumed that all building department permits will be obtained by the CONTRACTOR after bid award. ENGINEER shall coordinate with the building department the 90% design documents for

the purpose of permitting project later. For the purposes of this scope, it is assumed the ENGINEER conduct one conversation with each department and incorporate comments.

**TASK 5 100% FINAL DESIGN**

5.1 Plans: ENGINEER shall prepare 100% final design plans which addresses previous review comments from the CITY and all regulatory agencies. For scoping purposes, the assumed sheet count will be as follows:

1. Cover Sheet
2. Vicinity Map, General Notes and Legends
3. General Notes 2
4. Existing Site
5. Existing Site Demo Plan
6. Proposed Site
7. Stormwater Pollution Prevention Plan (SWPPP)
8. Existing Plan and Section
9. Proposed Plan and Section
10. Electrical Plans and Details
11. Project Specific Details (2 Sheets)
12. City Details (4 Sheets)

5.2 Contract Documents: ENGINEER shall prepare 100% construction documents including technical specifications, final quantity list and additional special provisions as required by the CITY.

5.3 Cost Estimate: ENGINEER shall prepare a final cost estimate, which will be within 10% accuracy of construction cost for the time period at which the cost estimate was prepared. The cost estimate will be submitted with the final design plans and shall indicate all construction costs for items within the final design drawings.

**TASK 6 BID AND AWARD SUPPORT**

6.1 ENGINEER shall prepare for and attend Pre-Bid Meeting. Engineer shall prepare meeting summary of Pre-Bid Meeting.

6.2 ENGINEER shall respond to questions from Bidders and prepare up to two (2) addenda as necessary.

6.3 ENGINEER shall review price tabulation sheets and provide the CITY with a Letter of Recommendation to Award.

**TASK 7 REIMBURSABLES**

The following are estimated costs of reimbursable expenses. The CITY will only pay for those services which were used.

- 7.1 Printing and Postage: The costs for the printing and reproduction costs for submittal material will be billed to the project. The printing and postage costs for mailers distributed under Tasks 3 and 5 will also be billed to the project.
- 7.2 Subsurface Utility Engineering (SUE): ENGINEER will submit for reimbursement the invoices of the contracted SUE firm (Ritzel-Mason) to provide up to 5 utility location testholes where underground utilities work will proceed.
- 7.3 Survey: ENGINEER will submit for reimbursement the invoices of the contracted survey firm (Engenuity) to perform a survey of the geometry of the roadway, curb and gutter, sidewalk, and all above ground features within the right-of-way and 10-ft beyond. For locations where underground utilities design is occurring, the survey will include sump and invert elevations on any drainage structures. The survey will also establish horizontal and vertical control for the project.
- 7.4 Electrical: ENGINEER will submit for reimbursement the invoices of the contracted electrical engineering firm (C&W Engineering) to prepare drawings related to the service point connection, control panel and generator receptacle, oneline diagram, conduit and wiring design, electrical schedules and schematics, grounding and lightning protection and other related electrical and instrumentation and control items.

## **ASSUMPTIONS**

- This proposal does not include any services required for easement or right-of-way acquisitions.
- All review comments from the CITY on each design submittal shall be provided to ENGINEER at one time. Any revisions due to additional comments may result in the need for additional services.
- NPDES permitting will be performed by the Contractor.
- This proposal assumes discharge to Lake Worth Lagoon will be permitted by FDEP with limited coordination (8 hours) with USACE, PBC ERM or FIND.
- Structural assessments of bulkheads and TV inspections of existing underground facilities is not included.
- Dewatering permits for construction activities will be obtained by the CONTRACTOR and will not be the responsibility of the ENGINEER
- Standard details for utilities will be provided by CITY in CAD format.
- Front end contract documents will be provided by CITY.
- Approved Products List will be provided by CITY.
- Landscape architectural services are not included.
- CITY will provide copies of all past studies and reports relating to this area.
- CITY will provide list and location of resident(s), complaints relating to drainage within the project area.
- CITY will pay all permitting fees as required by governing regulatory agencies.
- Analysis of grades will be based solely on survey information.

## **DELIVERABLES**



Chen Moore and Associates will provide the following deliverables at each submittal:

Design plans:

- PDF copies at each submittal
- 2 half size sets (11"x17") for permitting submittals.
- 1 digital CAD copy

Progress Meetings:

- Meeting Agenda
- Meeting Summary

**ENGINEERING FEES**

The fees and schedule for the above tasks are as follows:

	Total per Task
TASK 1 – FIELD INVESTIGATION AND COORDINATION	\$4,195
TASK 2 – 50% CONCEPTUAL DESIGN SUBMITTAL	\$16,825
TASK 3 – 90% DESIGN PLANS AND PERMIT	\$14,970
TASK 4 - PERMITTING	\$10,490
TASK 5 – 100% DESIGN	\$8,290
TASK 6 – BID AND AWARD SUPPORT	\$2,575
TASK 7 – REIMBURSABLES	\$23,165
Total Without Subs (Tasks 1-6)	\$57,345
Total With Subs (Tasks 1-7)	\$80,510

The tasks will be billed as Lump Sum, based on the tasks delivered by CMA Team and the agreed upon rates in the Contract. The reimbursables task will be billed based on subconsultants' invoices billed at cost.

See **Exhibit C** for a breakdown of fees.

**DESIGN SCHEDULE**

CMA will meet with the CITY to agree upon a schedule. During the execution of the design, the schedule will be updated on a monthly basis to reflect progress and potential concerns. A draft schedule is included in **Exhibit D**.

**Exhibit C**  
4-Mar-21

**City of Lake Worth**  
**District 4 - 18th Ave S – Pump Station**  
**Fee Schedule**

Hourly Rate	Subconsultant or Material Costs	Professional Staffing				Principal \$200.00	Total
		Senior Technician \$85.00	Project Engineer \$125.00	Senior Project Manager \$170.00	Project Director \$185.00		
<b>TASK 1 – FIELD INVESTIGATION AND COORDINATION</b>							
			2	4	1		\$1,115
		5	5	1			\$1,220
				4			\$680
			4	4			\$1,180
	\$0	5	11	13	1	0	
	\$0	\$425	\$1,375	\$2,210	\$185	\$0	\$4,195
<b>TASK 2 – 50% CONCEPTUAL DESIGN SUBMITTAL</b>							
			4	1			\$670
			2	1			\$420
			2	1			\$420
		2	4	2			\$1,010
		1	4	2			\$925
		2	8	6	2		\$2,560
			4	1			\$670
		2	6	4			\$1,600
		2	8	6	2		\$2,560
		4	8	4	2		\$2,390
			4	2			\$840
			2	2	2		\$710
			4	2	1		\$1,025
			4	2	1		\$1,025
	0	13	62	36	10	0	
	\$0	\$1,105	\$7,750	\$6,120	\$1,850	\$0	\$16,825
<b>TASK 3 – 90% DESIGN PLANS AND PERMIT</b>							
			1	1			\$295
			1	1			\$295
			1	1			\$295
			2	1			\$420
			2	1			\$420
		1	8	4	1		\$1,950
			2	1			\$420
		1	4	2			\$925
		2	8	4	1		\$2,035
		2	8	4	1		\$2,035
			2	1			\$420
			8	12	2		\$3,410
			4	2	1		\$1,025
			4	2	1		\$1,025
	0	6	55	37	7	0	
	\$0	\$510	\$6,875	\$6,290	\$1,295	\$0	\$14,970
<b>TASK 4 - PERMITTING</b>							
			8	2	1		\$1,525
		4	12	3	1		\$2,535
		2	8	2	1		\$1,695
		2	8	2	1		\$1,695
		2	6	2	1		\$1,445
			2	2	1		\$775
		2	1	2	1		\$820
	0	12	45	15	7	0	
	\$0	\$1,020	\$5,625	\$2,550	\$1,295	\$0	\$10,490
<b>TASK 5 – 100% DESIGN</b>							
			1				\$125
			1	1			\$295
			1	1			\$295
			1				\$125
			1	1			\$295
			4	2			\$840
			1				\$125
			4	2			\$840
		1	4	2	1		\$1,110
		1	4	2	1		\$1,110
			1				\$125
			2	8	2		\$1,980
			4	2	1		\$1,025
	0	2	29	21	5	0	
	\$0	\$170	\$3,625	\$3,570	\$925	\$0	\$8,290

**Exhibit C**  
4-Mar-21

**City of Lake Worth**  
**District 4 - 18th Ave S – Pump Station**  
**Fee Schedule**

Hourly Rate	Subconsultant or Material Costs	Senior Technician \$85.00	Professional Staffing			Principal \$200.00	Total	
			Project Engineer \$125.00	Senior Project Manager \$170.00	Project Director \$185.00			
<b>TASK 6 – BID AND AWARD SUPPORT</b>								
	6.1 Attend Pre-Bid Meeting (Agenda / Summary)		2	1	1		\$605	
	6.2 Respond to RAI,; Prepare Addenda		4	4	1		\$1,365	
	6.3 Review bids; Letter of Award Recommendation		2	1	1		\$605	
<b>Task 6 Total</b>		\$0	\$0	\$1,000	\$1,020	\$555	\$0	\$2,575

<b>TASK 7 – REIMBURSABLES</b>								
	7.1 Printing and Postage	\$500					\$500	
	7.2 Subsurface Utility Engineering	\$3,575					\$3,575	
	7.3 Geo Tech	\$1,475					\$1,475	
	7.4 Survey	\$3,115					\$3,115	
	7.5 Electrical Plans and Specs	\$14,500					\$14,500	
<b>Task 7 Total</b>		\$23,165	\$0	\$0	\$0	\$0	\$0	\$23,165

	Total per Task
TASK 1 – FIELD INVESTIGATION AND COORDINATION	\$4,195
TASK 2 – 50% CONCEPTUAL DESIGN SUBMITTAL	\$16,825
TASK 3 – 90% DESIGN PLANS AND PERMIT	\$14,970
TASK 4 - PERMITTING	\$10,490
TASK 5 – 100% DESIGN	\$8,290
TASK 6 – BID AND AWARD SUPPORT	\$2,575
TASK 7 – REIMBURSABLES	\$23,165
Total Without Subs (Tasks 1-6)	\$57,345
Total With Subs (Tasks 1-7)	\$80,510

## EXHIBIT D: 18TH AVENUE SOUTH STORMWATER PUMP STATION DESIGN SCHEDULE

ID	Task Mode	Task Name	Start	Finish	Duration	March	April	May	June	July	August	September	October	November	December
1		TASK 1 – FIELD INVESTIGATION AND COORDINATION (SURVEY = 75 DAYS)	Mon 3/15/21	Fri 5/14/21	45 days	█									
2		TASK 2 – 50% DESIGN SUBMITTAL	Mon 5/17/21	Fri 6/25/21	6 wks			█							
3		TASK 3 – 90% DESIGN SUBMITTAL (SUE = 2 WEEKS)	Mon 6/28/21	Fri 7/23/21	4 wks				█						
4		TASK 4 – PERMITTING	Mon 7/26/21	Fri 9/17/21	8 wks					█					
5		TASK 5 – 100% DESIGN SUBMITTAL	Mon 9/20/21	Fri 10/1/21	2 wks						█				
6		TASK 6 – BID & AWARD SUPPORT	Mon 10/4/21	Fri 12/24/21	3 months							█	█	█	

Project: LakeWorth_18thAve_SW Date: Wed 2/3/21	Task		Inactive Task		Manual Summary Rollup		External Milestone	
	Split		Inactive Milestone		Manual Summary		Deadline	
	Milestone		Inactive Summary		Start-only		Progress	
	Summary		Manual Task		Finish-only		Manual Progress	
	Project Summary		Duration-only		External Tasks			

# C & W engineering Inc.

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Electrical Consultants

6903 Vista Parkway North, #10  
West Palm Beach, FL 33411  
(561) 642-5333

January 28, 2021

Mr. David Cowan, P.E.  
Chen & Associates  
500 West Cypress Creek Road, Suite 410  
Fort Lauderdale, FL 33309

Subject: City of Lake Worth 18<sup>th</sup> Avenue Storm Water Pump Station Project  
C&W Ref. 77091

Dear Jason:

I am pleased to submit this proposal for your consideration to provide Electrical Engineering Services for the above referenced project. This proposal contains three parts: Part 1-Design Phase, Part 2-Bidding assistance Phase; Part-3 Construction Phase.

## **PART 1 – DESIGN PHASE**

C&W Engineering will provide Electrical Engineering to prepare documents suitable for bidding, construction and permitting.

### Coordination

Chen Moore and Associates  
Owner  
Field Coordination with LWB Utilities  
1 Meeting with Owner

### Prepare Drawings

Site Plan with Service Point location  
Detailed Plan  
Online Diagram  
Control Panel with Generator Receptacle  
(No Generator/ATS)  
Control Systems design

- RTU system
- Conduit and Wire Design
- Electrical Schedules
- Electrical Schematics
- Other Details as may be required

- Prepare Technical Specifications
  - Electrical General Requirements
  - Basic Materials and Methods
  - Control Panels
  - Grounding and Lightning protection
  - Other Specs as may be required

- Provide Final Opinion of Cost

The fee for **Part 1- Design Phase** will be **\$12,000.00**, lump sum.

### **PART 2 - BIDDING SERVICES PHASE**

C&W Engineering will provide electrical engineering assistance during bidding phase to oversee the electrical portion of the project. The work will include the following:

- Attendance at the Prebid Meeting
- Response to Bidder Questions
- Provide Addendum, if needed
- Provide Conformed drawings.

The fee for **Part 2- Bidding Services Phase** will be **\$2,500.00**, lump sum.

### **PART 3 - CONSTRUCTION PHASE**

C&W Engineering will provide electrical engineering during construction to oversee the electrical portion of the project. The work will include the following:

- Attendance at the Pre-Construction Meeting
- Response to Contractor's RFIs,
- Review of Electrical shop drawings
- Review of Pump data & other mechanical equipment
- Provide 3 field observation visits.
- Witness startup of power and control equipment and prepare a punch list
- Review Contractor As-built red lines.

77091

The fee for **Part 3- Construction Phase** will be **\$12,000.00**, hourly not to exceed. Based on

I trust the scope and fee are in agreement with your needs and expectations. Please contact me with questions or comments. Thanks for this opportunity.

Very truly yours,

**C&W Engineering, Inc.**



Michael A. Guida, P.E.

File  
JLR/nl

January 25, 2021

Chen Moore and Associates  
Attn: Mr. David Cowan, Jr., PE  
500 Australian Avenue South #850  
West Palm Beach, FL 33401  
Phone: 561.746.6900/ Cell: 561.255.7494/ Email: dcowan@chenmoore.com

Re: Proposal/Agreement for Geotechnical Exploration Services  
18<sup>th</sup> Avenue South Pump Station  
End of 18<sup>th</sup> Avenue South  
Lake Worth, FL

Dear Mr. Cowan:

Nutting Engineers of Florida, Inc. (NE) is pleased to present this proposal/agreement for performing geotechnical engineering services at the referenced project.

Per your email dated January 25, 2021, we understand that plans for this project include the installation of a wet well at the referenced site. Exact construction details are unknown at this time; however, the wet well is anticipated to be six-foot box or diameter and less than 15-feet deep. At the time of this proposal a site plan was not available; however, we anticipate receiving one prior to the initiation of on-site activities. Based on your request for proposal and our understanding of the project, we propose the following scope of work and fee schedule.

#### **SCOPE OF WORK**

We propose to perform one Standard Penetration Test (SPT) boring in general accordance with ASTM D-1586 specifications to a depth of 15 feet in the area of the proposed wet well.

At the completion of the on-site work, the soil samples will be returned to our laboratory. We will provide an engineering report including a description of our findings and general site preparation and foundation design recommendations for support of the proposed construction. In order to provide information concerning the engineering properties of the soils encountered, it is anticipated that tests may be performed to determine natural water content, organic content, and sieve analysis on representative soil samples collected from the site. The engineering report will include graphic logs of the test borings and a test boring location plan. We assume the site is accessible to truck mounted drilling equipment and that underground utilities will be cleared by others prior to our performing the on-site work.

## **FEE SCHEDULE**

The above-indicated scope of work will be performed for an estimated cost of \$1,475.00 based on the following rates and quantities:

Tech. site visit, boring layout, utility clearance	Lump Sum	\$150.00
Mobilization of equipment/crew	1 @ \$150.00	\$150.00
SPT borings* (truck mounted drill rig)	Lump Sum	\$250.00 (min)
Soil classification/ laboratory analysis	Lump Sum	\$100.00
Project Engineer	Lump Sum	\$650.00
Principal Engineer	Lump Sum	\$125.00
Clerical/ Admin. for report preparation	Lump Sum	\$50.00

\*If loose or deleterious soil is encountered it may be necessary to extend the soil boring(s).

Additional requested and authorized services beyond those described above will be provided at customary unit rates with expenses at cost +20%.

### **Construction Materials Testing (as may be required):**

Pile monitoring - \$65.00/hour  
Proctors - \$150.00/test  
Density tests - \$30.00/test (5 min/trip)  
Concrete cylinders - \$85.00/set  
Trip charge - \$50.00/ea. (if required)  
Bearing capacity completion letter - \$150.00  
Clerical/ Admin. - \$50.00/hour  
Principal Engineer - \$125.00/hour

Once we receive the executed/ signed proposal, project scheduling will commence. The geotechnical report should be available within approximately 10 - 12 business days after the signed proposal is received.

NE has been offering engineering, testing and inspection services for over 50 years in South Florida and the Treasure Coast. Our commitment to practical, cost-effective solutions supported by responsive client service distinguishes the firm and enables us to solve your most demanding technical challenges. One of the key constituents for NE's success is our staff of experienced engineering and environmental professionals and technicians that are registered/certified and have been trained to provide a wide range of testing and inspection services. Our laboratory is certified and checked annually by Construction Materials Engineering Council (CMEC) and Florida Department of Transportation (FDOT).

Our sister company, Nutting Environmental of Florida, Inc. (NEF), can assist in your environmental needs. For thirty years, NEF has performed a wide variety of environmental consulting services throughout Florida including Phase I and II environmental site assessments, storage tank removal and tank closure assessments, contamination assessments, design and implementation of remedial action plans (RAP), groundwater monitoring for solid waste and Hazmat permit requirements, assistance with dewatering permitting and much more. Please call 561-732-7200 to speak with an NEF project manager regarding these services.

Thank you for providing us the opportunity to present this proposal/agreement. We look forward to working with you on this and future projects.

Respectfully submitted,  
**NUTTING ENGINEERS OF FLORIDA, INC.**

Scott Ersland  
Division Manager

Richard C. Wohlfarth, P.E.  
Principal/ Director of Engineering

Reports and invoices will be addressed to the client as listed below unless other instructions are provided in writing with this executed proposal. The undersigned, as an authorized representative of the entity listed below, approves this proposal and agrees to be bound by the terms and conditions contained in this proposal. Deposit amounts are collected at time of written authorization to proceed. If you are a first-time client, we request that the balance due for these services be paid at the time of report completion. Once your account is established, our terms are net 30 days. Any invoices over 30 days will be assessed a 1 1/2 percent service charge per month until paid in full.

**PLEASE ENTER INFORMATION LEGIBLY BELOW SO IT CAN BE UTILIZED FOR PROJECT SET-UP:**

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Boynton GEO

**General Terms and Conditions**

For the purpose of this project, the addressee of this proposal will be known as the Client. The client is expected to furnish NUTTING ENGINEERS OF FLORIDA, INC. ("NE"), with accurate information including sketch of survey and/or site plan, construction drawings/specifications as appropriate, details of proposed construction including the proposed structural system and loads or existing construction problem information and site accessibility information as appropriate. Other information requirements may be detailed in the enclosed proposal. IF ANY CONDITIONS CHANGE such as building layout, loading, project specifications/design, or unusual site conditions are observed, NE should be notified immediately in writing about the changed condition for possible review and comment. Should the Client wish to impose other conditions and requirements beyond those contained in this proposal such as in a separate contract, we reserve the option to modify contract language, fee amounts, to remove our proposal from consideration or other measures as may be indicated.

**Delivery** – Scheduled upon receipt of written authorization to proceed and deposit unless other arrangements are agreed to in writing. Additional report copies can be provided for a nominal fee to the Client. NE will exercise appropriate measures to ensure project completion within a reasonable time frame subject to existing workloads. However, NE will not be held responsible for unavailability of necessary project data and site access within the time frame agreed upon for the investigation. Project delivery may be delayed if the ENTIRE signed proposal and deposit are not received in a timely manner. The ENTIRE signed quotation should be returned along with the requested project information. This unsigned proposal is valid for 60 days.

**Payment** - No deposit required with signed agreement. Balance due upon completion of report. Directing NE to proceed with the work shall constitute acceptance of the terms of NE's proposal and these General Terms and Conditions. Interest at the rate of 18% per annum or the highest rate allowable by law whichever is less, will be added to all amounts not paid within 30 days after date of invoice. All attorney fees and expenses associated with collection of past due invoices will be paid by Client.

**Insurance** – NE maintains Workers' Compensation and Employer's Liability Insurance in conformance with state law. In addition, we maintain Comprehensive General Liability Insurance and Automobile Liability Insurance with bodily injury limits of \$1,000,000.00 and property damage limits of \$1,000,000.00. A certificate of insurance can be supplied evidencing such coverage which contains a clause providing that fifteen days written notice be given prior to cancellation.

**Right-of-Entry** - Unless otherwise agreed, Client will furnish right-of-entry on the property for NE to make the planned borings, surveys, and/or explorations. NE will not be responsible for removing fences, earth berms, vegetation or other obstructions for purposes of our investigation. NE will take reasonable precautions to minimize damage to the property caused by its equipment and sampling procedures, but the cost of restoration or damage which may result from the planned operations is not included in the contracted amount. If Client desires to restore the property to its former condition, NE will accomplish this and add the cost to its fee. Client agrees to waive all claims arising from or related to the failure to provide NE with proper access to conduct its work.

**Damage to Existing Man-made Objects** - It shall be the responsibility of the Owner or his duly authorized representative to disclose the presence and accurate location of all hidden or obscure man-made objects relative to routes of access, field tests, sampling, or boring locations. When cautioned, advised or given data in writing that reveal the presence or potential presence of underground or over-ground obstructions, such as utilities, septic tanks, etc., NE will give special instructions to its field personnel. In addition, Client waives any claim against NE arising from damage to existing man-made objects.

**Warranty and Limitation of Liability** - NE shall perform services for Client in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with the standards of competent consultants practicing in the same or a similar locality as the project. In the event any portion of the services fails to comply with this warranty obligation and NE is promptly notified in writing prior to one year after completion of such portion of the services, NE will re-perform such portion of the services, or if re-performance is impracticable, NE will refund the amount of compensation paid to NE for such portion of the services. This warranty is in lieu of all other warranties. No other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose is made or intended by the proposal for consulting services, by furnishing an oral response of the findings made or by any representations made regarding the services included in this agreement. In no event shall NE or any of its professional employees be liable for any special, indirect, incidental or consequential loss or damages, including but not limited to impact and delay claims. The remedies set forth herein are exclusive and the total liability of consultant whether in contract, tort (including negligence whether sole or concurrent), or otherwise arising out of, connected with or resulting from the services provided pursuant to this Agreement shall not exceed the total fees paid by Client or \$50,000.00, whichever is greater. At additional cost, Client may obtain a higher limit prior to commencement of services.

**PURSUANT TO §558.0035, FLORIDA STATUTES, NE'S INDIVIDUAL EMPLOYEES AND/OR AGENTS MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM THEIR SERVICES PROVIDED PURSUANT TO THIS AGREEMENT.**

**Indemnification** – Client agrees to defend, indemnify and save harmless NE from all claims, including negligence claims, suits, losses, personal injuries, death and property liability resulting from NE's performance of the proposed work, whether such claims or damages are caused in part by NE, and agrees to reimburse NE for expenses in connection with any such claims or suits, including reasonable attorney's fees. Client's obligation to indemnify is limited to \$2 million per occurrence, which Client agrees bears a reasonable commercial relationship to the Work undertaken by NE. Client further agrees that these general conditions are a part of the Work's specifications or bid documents, if any.

**Sampling or Testing Location** - Unless specifically stated to the contrary, the unit fees included in this proposal do not include costs associated with professional land surveying of the site or the accurate horizontal and vertical locations of tests. Field tests or boring locations described in our report or shown on our sketches are based on specific information furnished to us by others and/or estimates made in the field by our technicians. Such dimensions, depths or elevations should be considered as approximations unless otherwise stated in the report. It is understood that all drilling locations are accessible to conventional truck mounted drilling equipment unless otherwise specified by the client. If unscheduled remobilizations or use of portable or all terrain equipment is required additional charges will apply. NE will attempt to clear utilities at our excavation/test locations by manual drilling to 3' below land surface (BLS). Any damage to utilities/obstructions present at client specified test locations or below 3' BLS will be the responsibility of the client and will not be assumed by NE.

**Sample Handling and Retention** – Generally soil test samples are retained for approximately three months after which time they will be discarded unless written instructions to the contrary are received from the client.

**Legal Jurisdiction** - The parties agree that any actions brought to enforce any provision of this Agreement shall only be brought in a court of competent jurisdiction located in Palm Beach County, Florida. Any and all causes of action arising out of NE's performance of the Work, including but not limited to claims for indemnity, contribution and equitable subrogation, shall be deemed to have accrued and the applicable statutes of limitations shall commence to run not later than the date of NE's last invoice for the Work performed hereunder.

**Force Majeure** - NE shall not be held responsible for any delay or failure in performance of any part of this Agreement to the extent such delay or failure is caused by fire, flood, explosion, war, strike, embargo, government requirement, civil or military authority, acts of God, act or omission of subcontractors, carriers, client or other similar causes beyond its control.

**Documents** - NE shall be entitled to rely upon the accuracy and completeness of all surveys, reports and information furnished by the client. If conditions different from those described in our report are found at the site, NE should be notified in writing immediately upon discovery. NE reserves the right to revise conclusions and recommendations presented in the final report should additional information regarding the project become available. All permits will be obtained by others unless otherwise specified in this proposal or in writing to NE. NE has no liability for consequences of information not provided or unavailable or otherwise not reviewed or known from the normal sources customarily examined by NE in such investigations within the time frame allowed for this investigation under this agreement. The client, entities identified in writing on the address portion of our report, design team professionals engaged by our client and building official staff are entitled to use and rely upon NE'S reports for purposes of the current project. **Other parties are not authorized to use or rely upon NE'S reports unless NE so states in writing.**

NE - General Contract Terms and Conditions May 2017

cc: Connie Gworek – Business Development Associate  
James Lendl – CMT Division Manager

COMPROP BOYNTON 1-2020



January 25, 2021

David Cowan Jr., PE  
Chen Moore and Associates  
500 S. Australian Avenue #850  
West Palm Beach, Florida 33401

Ritzel-Mason, Inc.

5119 Beechwood Road  
Delray Beach, FL 33484

Phone: 786.472.0358

[www.ritzel-mason.com](http://www.ritzel-mason.com)

**Subject:** Fee Proposal for Utility Investigation Services

**Project:** City of Lake Worth – 18<sup>th</sup> Avenue S Pump Station

Dear Mr. Cowan:

Ritzel-Mason appreciates the opportunity to prepare this fee proposal for providing subsurface utility engineering (SUE) services on the above referenced project. Ritzel-Mason is registered and licensed in the state of Florida. This letter will serve as our official scope of services and is accompanied by the included fee estimate. The combination of our resources and experience will provide Chen Moore and Associates (the Client) with the confidence that Ritzel-Mason is the right choice to complete the project on time and on budget. Ritzel-Mason has been requested by the Client to provide utility designating and locating services to verify the horizontal and vertical positions of existing utilities.

**Project Limits:** The limits of our investigation the easterly ending of 18<sup>th</sup> Avenue South in Lake Worth, Florida. See attached exhibit for project limits as outlined in dashed red as provided by the Client via email. Limits will be extended to 100 feet east of the exhibit.

**Scope of Services:** Ritzel-Mason will complete a SUE investigation in general accordance with ASCE Standard 38-02: Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data. Ritzel-Mason will search for the existence and approximate location of subsurface utilities within the project limits except those listed under Exclusions below. The specific work includes:

- A. Records Research through customary means:
  - a. Identify utilities anticipated to exist in the project limits.
  - b. Document responses and compile record information.
- B. Field Investigation using appropriate surface geophysical techniques:
  - a. Documented conductive utilities – designate with the objective of achieving Quality Level B for conductive utilities. Where not possible, lower Quality Levels will be established. Utilities of non-conductive material installed with serviceable tracer wire or tape will be considered conductive. It is important

to note, however, that the depicted location of such utilities represents the tracer rather than the actual utility.

- b. Documented non-conductive utilities – investigate with the objective of achieving Quality Level C. Where not possible, depict at Quality Level D.
  - c. Undocumented utilities – are those utilities that may exist in the project area that have not been previously identified, are not discovered during records research, and for which there is no prior knowledge. Ritzel will use our standard search protocol in an attempt to determine the existence and approximate location of undocumented utilities; however, this work cannot guarantee that all utilities will be found and depicted.
- C. Quality Level exceptions – the following utilities will be investigated with the objective of achieving the specific Quality Level stated:
- a. Gravity sanitary sewers – Quality Level C.
  - b. Non-conductive utilities with ready access allowing sonde, metal tape or detection rod insertion and tracking – Quality Level B.
  - c. Subaqueous crossings – Quality Level D.
- D. Exclusions – the following utilities and/or components will not be investigated:
- a. Storm sewers and drains.
  - b. Utility vault or manhole interiors
  - c. Service lines
  - d. Traffic control loops
  - e. Street light and signage wiring
  - f. Irrigation lines
  - g. Cathodic protection
  - h. Thrust blocks.
  - i. Septic systems.
  - j. Underground storage tanks, piping and wiring.
  - k. Overhead utilities
- E. Vacuum Excavation – Test holes
- a. Ritzel-Mason proposes to use vacuum excavation equipment to perform up to **5 test holes** at locations as directed by the client. Vacuum excavation methods will enable Ritzel-Mason to visualize the utility in question for a high degree of certainty. Ritzel-Mason will make every effort to vacuum excavate to a depth of eight (8) feet using high pressure air methods. However, vacuum excavation will cease when these methods are unable to progress below refusal, such as bedrock or flowable fill. Ritzel-Mason will not employ destructive methods, such as jackhammers or chipping hammers, to break up bedrock or other refusal within a test hole due the high risk of damage to buried utilities and safety risk to employees. Utilities deeper than 8 feet may not be found.
  - b. At the completion of each excavation Ritzel-Mason will place an iron rod and cap or a nail and disk at the test hole location and further identify the test hole location with paint marks on the ground surface. We will backfill with native material and compact the soil in 6"-12" lifts as well as provide a

permanent restoration of the pavement or ground surface within the limits of the original excavation. We will record maximum depth of the test hole as well as vertical depth of any utility encountered. If a utility is encountered, we will also provide utility type, size, shape, material and orientation to the extent we are able to ascertain this information

- c. Ritzel-Mason will notify Sunshine 811 2 full business days in advance of excavation. Ritzel-Mason will mark the conductive utilities by inductive methods utilizing electromagnetic geophysical prospecting equipment. Known non-conductive utilities will be marked utilizing 2-D Radar (GPR).
- d. Due to mobilization costs a minimum of 4 test holes can be requested or mobilization costs will be charged.
- e. Ritzel-Mason cannot provide vacuum excavation in areas where obstructions, such as unmovable vehicles or storage exist.

**Survey:** Ritzel-Mason will provide a **Specific Purpose Survey** to include the following:

The survey will be exclusively focused on providing utilities found during the utility designating and vacuum excavation processes by Ritzel-Mason. Horizontal coordinates will be based on the North American Datum of 1983 (NAD83), adjustment 2011 based on the Trimble VRS, State Plane Coordinate System Florida East (0901), unless otherwise directed by the Client. Total station methods will be utilized in areas that GPS signals are obstructed. Excavated utilities' vertical data will be based on North American Vertical Datum 1988 (NAVD88), unless otherwise directed by the Client.

**Basis and Assumptions:** Unless specifically stated otherwise in the Scope of Services, this proposal is conditioned on the following. Differences may result in necessary changes to the proposed scope and fee.

- Ritzel-Mason will have ready access to the project area. Construction or clearing activities required for access to perform field services are not included.
- Standard Maintenance of Traffic (MOT), lane closure and flagman MOT is included. Extraordinary MOT such as crash trucks, off-duty police officer and other efforts deemed atypical are not included.
- Field work can be completed within normally accepted business hours and without the need for overnight or weekend work.
- Possible delays due to weather conditions will be discussed with the client and may affect schedule. Hazardous material, if encountered, will immediately stop work and Ritzel-Mason will not be responsible for any disposal.
- Confined space entry is excluded.
- Entry onto private property beyond incidental, or where prohibited, is not included.
- Entry into buildings is not included.
- Permits are not included but can be requested if needed.

**Client Responsibilities:**

- Participate in permit applications as needed.
- Provide all available records depicting owned utilities in the project area.
- Assist Ritzel-Mason as able in obtaining records of utilities in the project area owned by others.
- Provide or facilitate access to project area for field investigations.

City of Lake Worth – 18<sup>th</sup> Avenue S Pump Station

January 25, 2021



**Deliverables:**

- Paint marks and flags will depict the approximate horizontal position of underground utilities detected
- Test data sheet reports
- DWG and PDF Specific Purpose Survey

**Schedule:**

We propose to mobilize for this work 5 business days from receipt of this proposal duly signed and barring any unforeseen condition.

**Fees:**

**Utility Designating Services** as described above for a lump sum fee of **\$1,290**. Designating will be performed only at the proposed test hole location prior to excavation.

**Vacuum Excavation Services** as described above for a not-to-exceed fee of **\$1,695** for a maximum of 5 test holes (\$339 each).

**Specific Purpose Survey CADD Services** as described above for a lump sum fee of **\$590**.

**Invoices:** All invoices are due and **payable in full 30 days of Chen Moore and Associates receiving payment from their Client**. Surveyor reserves the right to withhold certified prints and files to client or client's consultants until payment is made in full. CAD file (if part of deliverables) will not be released until invoice is paid in full. If payment is not received within 35 days of the invoice date, a late charge may be added to the invoice in an amount not to exceed 1½ percent per month on the outstanding balance. If payment is not received within 60 days of the invoice date, Surveyor may terminate this agreement or suspend work under the agreement until payments have been made in full. The undersigned agrees to pay reasonable attorney fees up to 50% and all costs and expenses incurred by Ritzel-Mason in the collection of any past due obligation of the undersigned pursuant hereto.

**Basis:** The fees listed above are based on Ritzel-Mason's crews being able to work during the hours of 7:00am to 6:00pm and being granted access to the site. Nighttime or weekend work may incur additional fees. Nighttime work shall be any time outside of regular work hours being 7:00am to 6:00pm. Ritzel-Mason is equipped to supply minor MOT services. The client will be responsible for providing major MOT assistance, such as lane or runway closures. Ritzel-Mason's field crews and equipment are not equipped or prepared to work in any area that possibly are, or may have been, contaminated with hazardous materials at any time. Any fee or permit requested in order to perform the work will be submitted to the client at cost.

City of Lake Worth – 18<sup>th</sup> Avenue S Pump Station

January 25, 2021



Again, we appreciate the opportunity to provide our surveying services for Chen Moore and Associates. Please call me directly at 786.472.0358, if you have any questions or comments. We look forward to beginning work on this project upon receiving your authorization to proceed.

Sincerely,

Dennis Ritzel, PSM  
Director of Business Operations  
786.472.0358

Email: [dennis@ritzel-mason.com](mailto:dennis@ritzel-mason.com)

Date Accepted:	
Company:	
Signature:	
Title:	

**Exhibit**



January 28, 2021

David Cowan Jr., P.E., LEED A.P.  
Senior Engineer  
Chen Moore and Associates  
500 Australian Ave. S., Suite 850  
(Via email: [dcowan@chenmoore.com](mailto:dcowan@chenmoore.com))

**Re: Professional Surveying Services  
City of Lake Worth 18<sup>th</sup> Ave S - Pump Station  
Lake Worth, Florida  
Engenuity Group Project No. 21010.01**

Dear Mr. Cowan:

We are pleased to offer this proposal to render Professional Surveying services in connection with the above referenced project (hereinafter called the 'Project').

Engenuity Group, Inc. will prepare a Topographic Survey pursuant to Chapter 5J-17.050, Florida Administrative Code, of site as shown on the attached graphic in **red** which was provided by your office. The survey will extend easterly to the headwall as outlined in **blue** on the second graphic.

See the attached **Designated Scope of Services** for a list of items to be included on the Survey.

**Total Fee: \$3,115.00**

The final deliverable will be four (4) signed and sealed copies of the Topographic Survey which can be provided within thirty (30) business days of receiving authorization to proceed. In the event of rain delaying our field work, the delivery time will be pushed back the same number of days.

**Permit Fees, Reproduction Charges and Reimbursable Expenses**

The Total Contract Price **does not** include the payment of any governmental agency submittal or processing fees. The cost of these fees and any costs incurred by the office for printing, reproduction and other reimbursable expenses such as postage, travel, and document copy charges will be billed to the client monthly.

**Invoicing and Payment**

Work will be invoiced on a monthly basis for work completed to date. Invoice shall be paid in full by the Client within thirty (30) days of the invoice date, unless within such thirty (30) day period, Client notifies Engenuity Group, Inc. in writing of its objection to the amount of said invoice. Such notice shall be accompanied by payment of any undisputed portion of said invoice. If written objection is not received within thirty (30) days it shall constitute approval of invoice by Client. If the payment is not received

within fifteen (15) days of billing date, a late charge will be added to the invoice in the amount of 1½ percent per month on the outstanding balance. If payment is not received within sixty (60) days of the invoice date, work may be suspended on the project until the outstanding invoice(s) are paid in full.

This proposal represents the entire understanding between you and us with respect to the Project. If this satisfactorily sets forth your understanding of our agreement, please execute the attached Authorization and return it to us. If you have any questions, please do not hesitate to contact us.

**PURSUANT TO SECTION 558.0035 FLORIDA STATUTES, THE CONSULTANT IS THE RESPONSIBLE PARTY FOR THE PROFESSIONAL SERVICES IT AGREES TO PROVIDE UNDER THIS CONTRACT. NO INDIVIDUAL PROFESSIONAL EMPLOYEE, AGENT, DIRECTOR, OFFICER OR PRINCIPAL MAY BE INDIVIDUALLY LIABLE FOR NEGLIGENCE ARISING OUT OF THIS CONTRACT, AS LONG AS THE CONSULTANT MAINTAINS THE PROFESSIONAL LIABILITY INSURANCE REQUIRED UNDER THIS CONTRACT AND AS LONG AS ANY DAMAGES ARE SOLELY ECONOMIC IN NATURE AND THE DAMAGES DO NOT EXTEND TO PERSONAL INJURIES OR PROPERTY NOT SUBJECT TO THIS CONTRACT.**

Sincerely,



Jennifer Malin, P. E.  
Director of Surveying

Approved by,



Andre Rayman, P.S.M.  
President

**Authorization:** Professional Surveying Services  
City of Lake Worth 18<sup>th</sup> Ave S - Pump Station  
Lake Worth, Florida  
Engenuity Group Project No. 21010.01

**By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
(Name & Title)

**For:** \_\_\_\_\_  
(Name of Company)

**Contract Amount:** \$3,115.00

I am \_\_\_\_ I am not \_\_\_\_ The Owner of the Property

**The Property Owner Is:** \_\_\_\_\_  
\_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Email:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Fax:** \_\_\_\_\_

**DESIGNATED SCOPE OF SERVICES: TOPOGRAPHIC SURVEY**

**NAME: City of Lake Worth 18<sup>th</sup> Ave S - Pump Station**

**ENGENUITY PROJECT NO. 21010.01**

**DATE: 1/28/2021**

<b>TASK:</b>	<b>Included in Contract (Yes/No)</b>
<b>Topographical Survey</b>	
Minimum of two permanent benchmarks on site; description and elevation to nearest .01'.	<b>Yes</b>
Contours at 1 foot intervals; error shall not exceed one half contour interval.	<b>No</b>
Spot elevation at each intersection of a 50foot square grid covering the property.	<b>Yes</b>
Spot elevations at street intersection and at 100 feet on center curb, sidewalk and edge of paving including far side of paving.	<b>Yes</b>
Plotted location of structures, man-made (e.g., paved areas) and natural features.	<b>Yes</b>
Location of water mains, and other utilities on the property based on as-built information supplied by utility companies and as marked in the field.	<b>No</b>
Location of fire hydrants available to the property.	<b>Yes</b>
Location and characteristics of power and communications systems above grade.	<b>Yes</b>
Location, size, depth and direction of flow of sanitary sewers, storm drains and culverts serving, or on, the property; location of catch basins and manholes, and inverts of pipe at each.	<b>Yes</b>
Name of the operating authority of each utility.	<b>No</b>
Elevation of water in any excavation, well or nearby body of water.	<b>Yes</b>
Extent of watershed onto the property.	<b>No</b>
Trees of 6" and over (caliper 3' above ground); locate within 1' tolerance and give species in English or botanical terms.	<b>Yes</b>
Specimen trees flagged by the Owner or the Architect (___ in number); locate to the center within 1' tolerance; give species in English or botanical terms, give caliper and ground elevation on upper slope side.	<b>No</b>
Perimeter outline only of thickly wooded areas unless otherwise directed.	<b>Yes</b>
Confirm soil boring location(s).	<b>No</b>
Other (specify): <b>1. Datum will be National American Vertical Datum 1988 (NAVD 88)</b> <b>2. The storm utility easement as recorded in ORB 2518, page 329 will be depicted on the survey.</b>	

Graphic



Graphic

