

EXHIBIT I

SCOPE OF SERVICES

CITY OF ORLANDO, FLORIDA LIFT STATION NOS. 28, 54, 60, & 67 UPGRADES

A. PROJECT DESCRIPTION

The City of Orlando intends to implement various improvements to four (4) lift stations throughout the service area. The improvements are described in greater detail below.

LS No. 28

This facility is a duplex wet pit/dry pit can station located on the south side of Gulfstream Road adjacent to Catalina Elementary School. Major improvements at this location will include installation of a liner and duplex submersible pumping system within the existing wet well in accordance with City Standards, proper abandonment of the existing dry pit, installation of a new control panel, replacement of the existing standby generator set, and related piping and electrical modifications. Site improvements that will be provided at this location generally include removal of existing brick pavers, trees, and fencing, fencing and installation of a new driveway, filter fabric, FDOT No. 57 stone, concrete curb and fencing. There appears to be some settlement on the north and east sides of the building. The cause and significance of this settlement are not known and will be investigated under this project.

LS No. 54

This facility is a duplex wet pit/dry pit can station located at 418 Sun Court within the street right of way. Major improvements at this location will include construction of a new submersible pump station in accordance with City Standards, proper abandonment or removal of the existing wet well and dry pit, installation of a new control panel, and related piping and electrical modifications. It is anticipated that the new lift station will be located on an adjacent stormwater retention pond site owned by the City. Appropriate modifications to the gravity and force main piping to provide a functional facility are included in this project. Site improvements that will be provided at this location generally installation of new driveway, filter fabric, FDOT No. 57 stone, concrete curb and fencing.

LS No. 60

This facility is a duplex wet pit/dry pit can station located at 4666 Barley Street within a dedicated lot in a residential area. Major improvements at this location will include construction of a new submersible pump station in accordance with City Standards, proper abandonment or removal of the existing wet well and dry pit, installation of a new control panel, and related piping and electrical modifications. Site improvements that will be provided at this location generally include removal of existing the driveway, mulch, stone, filter fabric, landscape timbers, and fencing and installation of a new driveway, filter fabric, FDOT No. 57 stone, concrete curb and fencing.

LS No. 67

This facility is a duplex wet pit/dry pit can station located on a dedicated parcel owned by the City at 4780 Raleigh Street. Major improvements at this location will include construction of a new submersible pump station in accordance with City Standards, proper abandonment of the existing wet well and dry pit, installation of a new control panel, and related piping and electrical modifications. Site improvements that will be provided at this location generally installation of new driveway, filter fabric, FDOT No. 57 stone, concrete curb and fencing.

In general, Tetra Tech's services under this project involve provision of the technical assistance related to the improvements described herein. Specific descriptions of the various phases and tasks are presented below.

B. SCOPE OF SERVICES

Preliminary Design

1. Attend a kick-off meeting with the City Staff to discuss the proposed improvements and various design considerations.
2. Visit each lift station and review as-built drawings pertaining to the facilities.
3. Provide a boundary and topographic survey, as well as legal descriptions of the various sites, and in some cases the surrounding areas, in accordance with Minimum Technical Standards set forth under the Florida Administrative Code. Attachments A, B, C, and D present the approximate limits of the surveys. Underground utilities will be located as they are flagged by their respective owners. Also, existing underground utilities will be located via soft-dig techniques at 12 locations. Title work will not be provided.
6. Retain a qualified geotechnical firm to perform a geotechnical investigation that includes the following:
 - One (1) standard penetration test to a depth of 30 feet at Lift Stations No. 54, 60, and 67.
 - Two (2) CPT soundings to a depth of 40 feet at Lift Station No. 28.

A detailed scope of services for the geotechnical subconsultant is presented in Attachment E.

7. Select pumping equipment based on performance curves and design data for the existing pumps, pressure readings provided by the City, and standard hydraulic analysis techniques.
8. Coordinate equipment sizing with a qualified electrical subconsultant to allow identification of space requirements for control equipment and standby power facilities. A detailed scope of services for the electrical subconsultant is presented in Attachment F.
9. Prepare a preliminary opinion of construction cost for the suggested improvements.
10. Prepare a draft technical memorandum summarizing the findings, conclusions, site layouts, and recommendations resulting from the various analyses.
11. Meet with City Staff to discuss the draft memorandum, modify the document pursuant to the City's comments and reissue final memorandum.

Final Design

Based on the Preliminary Design memorandum prepare bid documents, engineering drawings, and specifications, which will be submitted to the City for review at 60%, 90% and 100% completion levels. Seven (7) sets of drawings and specifications will be provided at each submittal stage and the final documents will also be provided in electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word. The design team will attend design review meetings with the City at each completion level. Tetra Tech will prepare a construction cost estimate with each design submittal. The cost estimate at the 100% completion level will include itemization identical to the bid form and will not include a separate line item for contingency. All design progress submittals shall have a list of all materials and equipment for which the Contractor must submit shop drawings and O&M data. A preliminary list of drawings is presented below.

General

Cover Sheet & Index of Drawings
Location Map, Key Map, & General Notes
Legend and Abbreviations

Civil/Mechanical

LS No. 28 Existing Site and Demolition Plan
LS No. 28 Proposed Site Plan
LS No. 28 Proposed Mechanical Plan & Section
LS No. 28 Generator & Fuel System Details
LS No. 54 Existing Site and Demolition Plan
LS No. 54 Proposed Site Plan
LS No. 54 Proposed Mechanical Plan & Section
LS No. 60 Existing Site and Demolition Plan
LS No. 60 Proposed Site Plan
LS No. 60 Proposed Mechanical Plan & Section
LS No. 67 Existing Site and Demolition Plan
LS No. 67 Proposed Site Plan
LS No. 67 Proposed Mechanical Plan & Section
LS No. 67 Generator & Fuel System Details
Mechanical Details (3 Sheets)

Electrical & Instrumentation

Symbols, Notes and Abbreviations
LS No. 28 Electrical Demolition Plan
LS No. 28 Electrical Proposed Site Plan
LS No. 28 Single Line/Elementary Diagrams
LS No. 54 Electrical Demolition Plan
LS No. 54 Electrical Proposed Site Plan
LS No. 54 Single Line/Elementary Diagrams
LS No. 60 Electrical Demolition Plan
LS No. 60 Electrical Proposed Site Plan
LS No. 60 Single Line/Elementary Diagrams
LS No. 67 Electrical Demolition Plan
LS No. 67 Electrical Proposed Site Plan
LS No. 67 Single Line/Elementary Diagrams

Permitting

Tetra Tech will prepare and submit permit applications and supporting documentation necessary to obtain FDEP permits required for the lift station improvements. It is anticipated that the proposed improvements will fall under a "rehabilitation" classification" and be exempt from permitting normally required by the Florida Department of Environmental Protection (FDEP). Accordingly, Tetra Tech will perform the following tasks:

1. Prepare and submit a letter to FDEP describing the project in order to obtain a formal determination regarding the need for a permit for each lift station.
2. Provide documentation to secure site, building, fence and electrical permits from the City Building Department. Documentation will include signed and sealed construction drawings and specifications as well as formal responses to requests for additional information. Permit fees are not included in this proposal.

Bidding and Award

The proposed improvements will be bid as one (1) project. Upon authorization to proceed with the bidding and award phase of the project, Tetra Tech will complete the following tasks.

1. Provide one (1) copy of the Contract Documents (engineering drawings and specifications) and any addenda, which may be issued to bidders. Also, one (1) DVD will be provided which will include the following:
 - Drawings & Specifications in PDF Format
 - Drawings in AutoCAD Format
 - Specifications in Word Format
 - Signed & Sealed Drawings in PDF Format
 - Cost Estimate in PDF Format

Additional copies of drawings and specifications required for bidding will be obtained by the City.

2. Attend a pre-bid conference (Tetra Tech and electrical subconsultant).
3. Provide written response to any questions from bidders and prepare and issue addenda as required to interpret, clarify or expand the Bidding Documents.
4. Assist the City in evaluating bids and bidders and make a recommendation for the award of the contract.

Construction Administration

During the construction phase of the project, Tetra Tech will complete the following tasks:

1. Prepare two (2) hard copies of a conformed set of Contract Documents for the City and one (1) electronic copy. Electronic copies of Drawings will be provided in AutoCAD and PDF formats and Specifications will be provided in Microsoft Word and PDF formats. Provide the Contractor with one (1) electronic AutoCAD copy for as-built preparation purposes.

2. Attend and conduct a preconstruction conference with the City, selected Contractor, subcontractors, and regulatory agencies and prepare meeting summary.
3. Provide a total of twelve (12) monthly site visits to the construction sites to observe construction of the project and attend twelve (12) monthly progress meetings. The site visits will be to observe the progress and quality of the construction and to document general conformance with the Contract Documents. The site visits will be conducted following each progress meeting. City CIID personnel will be responsible for developing summaries of progress meetings.
4. Provide interpretation or clarification for RFIs regarding the design documents when requested, and prepare change orders required for clarification or minor modification of the Contract Documents.
5. Review shop drawings and other required Contractor submittals up to two (2) times per submittal for general conformance with the Contract Documents in conformance with the City's construction contract requirements. In order to facilitate enforcement of the requirements of the City's construction contract document General Conditions, Tetra Tech will track the actual cost of additional reviews and notify the City of the additional cost of said reviews in the letters transmitting the subject reviews to the City and Contractor.
6. Review test reports for soils, concrete and other materials.
7. Conduct a substantial completion inspection at each site and develop a punch list of items to be corrected by the Contractor.
8. Conduct a final completion site visit to each site to determine if the punch list items have been completed in accordance with the Contract Documents and if the Contractor's obligations are fulfilled, and recommend final payment to the Contractor.
9. Prepare two (2) hard copies (one copy to 5100 LB McLeod Rd.) and an electronic file of the record drawings for the City incorporating changes made during construction based on record information furnished by the Contractor.

C. CONTINGENCY

Contingency budgets of \$10,000.00 and \$5,000.00 for Tetra Tech and EDA, respectively, are included in this authorization for unforeseen additional services. These contingencies will not be used without prior written authorization from the City.

D. SERVICES NOT INCLUDED

1. Permit application fees
2. Title work and any construction survey/layout and as-built services.
3. Costs for advertising the Project.
4. Services related to applications for variances, rezoning, or special exceptions.

E. COMPENSATION SUMMARY

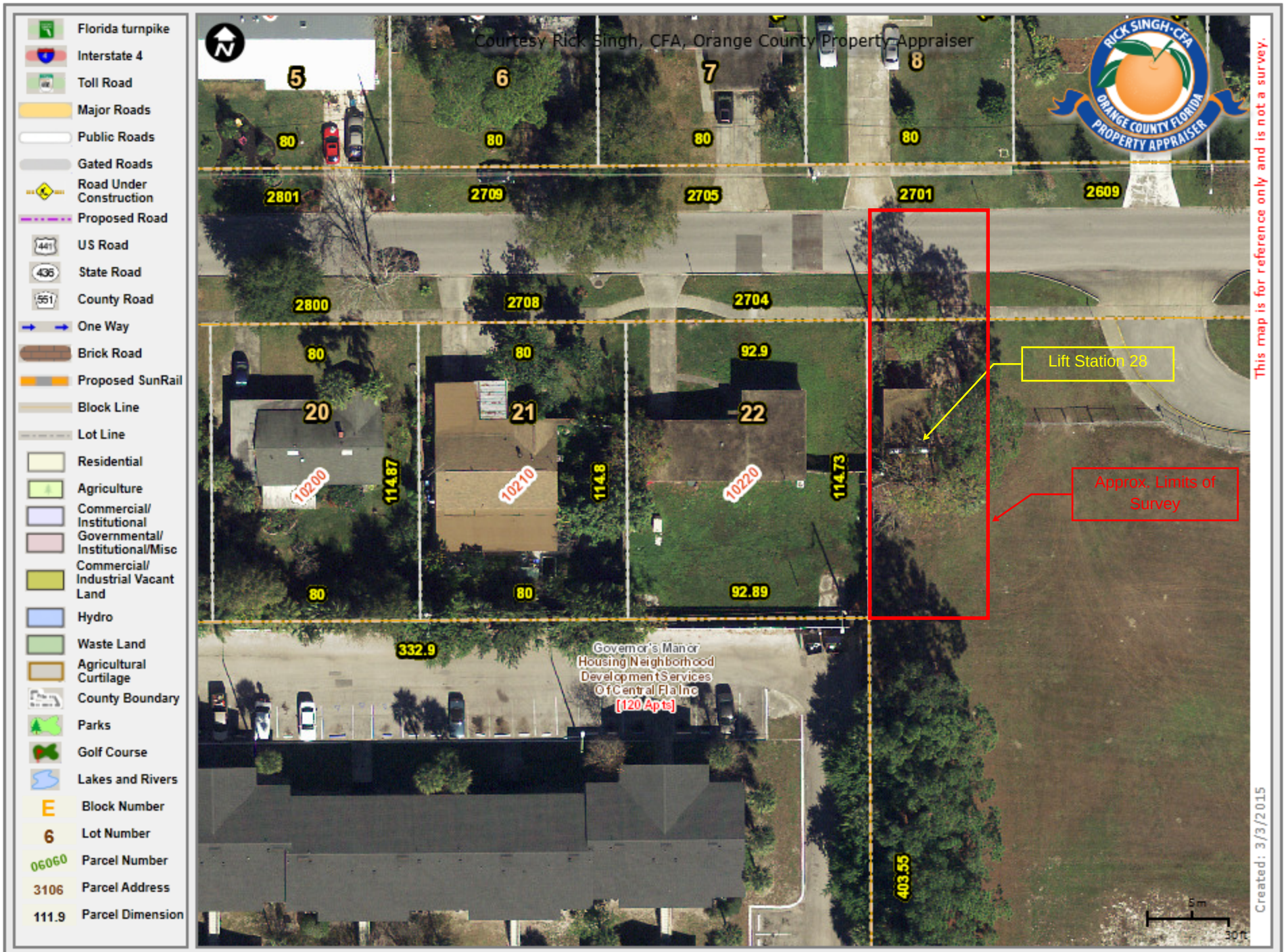
The total hourly not-to-exceed fee for the Scope of Services described above is **\$259,106.32** which includes contingency budgets of \$10,000.00 and \$5,000.00 for Tetra Tech and EDA, respectively. Tetra Tech's fee reflects a multiplier of 3.00, which is fully acceptable to Tetra Tech, pursuant to the requirements set forth in the City's Request for Qualifications. Exhibit II presents a detailed breakdown of the estimated hours and compensation for the Scope of Services. Proposals from the various sub-consultants that will provide services for this project are provided in Attachment B.

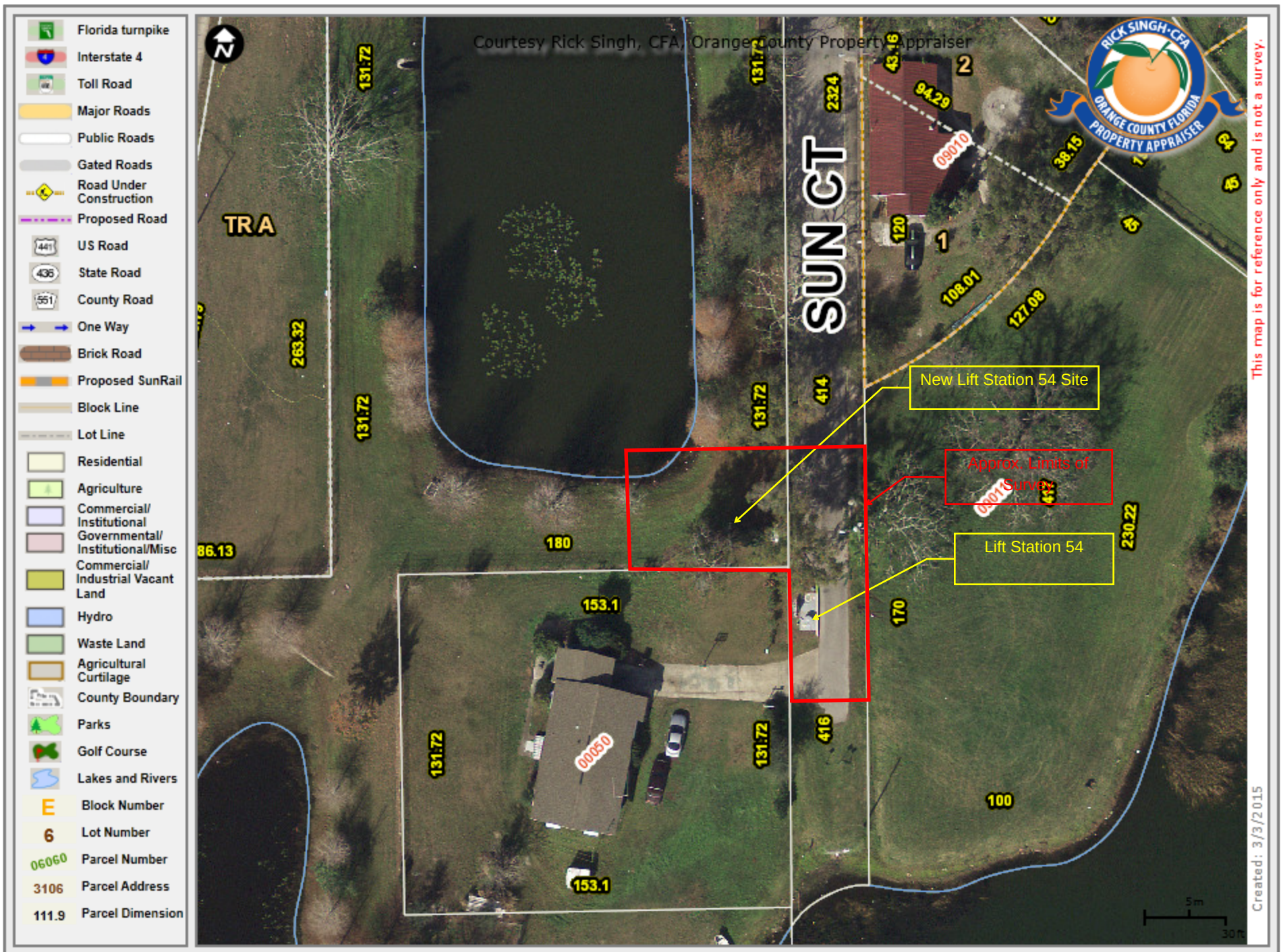
Task	Fee
A. Preliminary Design	\$69,638.63
B. Final Design	\$89,827.06
C. Permitting	\$7,903.22
D. Bidding	\$9,115.02
E. Construction Administration	\$58,688.78
F. Subconsultant Administration	\$ 8,933.61
G. Contingencies (Tetra Tech & EDA)	\$15,000.00
TOTAL	\$259,106.32

Firm Participation (w/out cont.)	Fee	Percentage
Tetra Tech	\$154,770.18	63.4%
Utility Locate/Soft Dig Subconsultant	\$7,860.00	3.2%
Antillian Engineering (MBE)	\$14,609.28	6.0%
Electrical Design Associates (MBE)	\$54,256.86	22.2%
CPW (WBE)	\$12,610.00	5.2%
Total =	\$244,106.32	100.0%
Total MBE Participation =		28.2%
Total WBE Participation =		5.2%

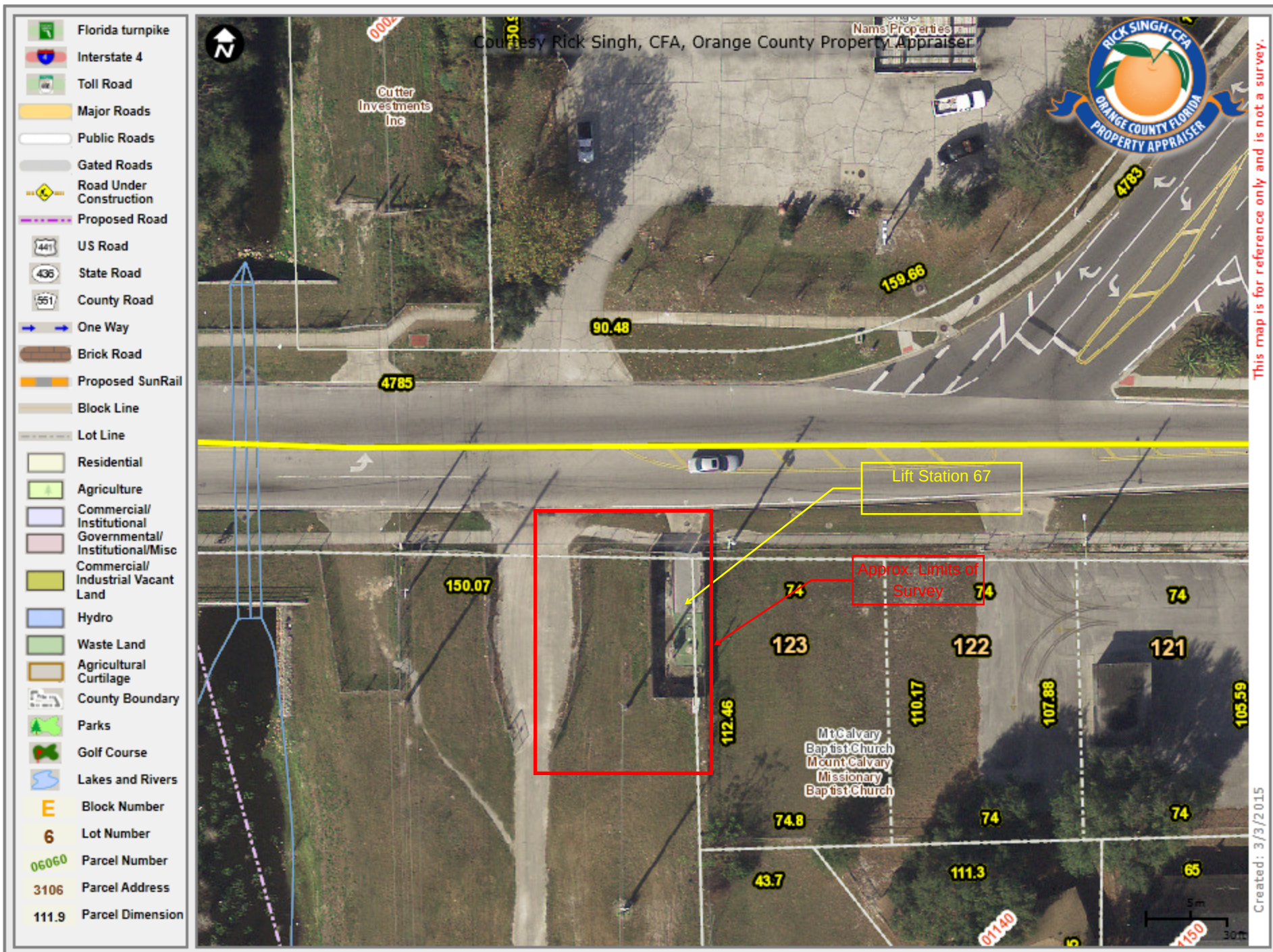
F. SCHEDULE

Task	Duration (Weeks)	Weeks After Notice to Proceed
Draft Preliminary Design Report	8	8
City Review	2	10
60% Submittal	4	14
City Review	2	18
90% Submittal	4	22
City Review	2	24
100% Submittal	3	27
Permitting	2	29
Bidding	8	37
Construction	52	89









This map is for reference only and is not a survey.

ATTACHMENT E
SUBCONSULTANT PROPOSALS

Steven L. Anderson, Jr., PSM, PLS
 Charles M. Arnett, PSM
 Russell G. Daly, PSM, PLS
 Michael L. Dougherty, PSM
 Bruce C. Ducker, PSM
 James M. Dunn, II, PSM
 Mark J. Efird, PSM
 Thomas F. Ferguson, PSM
 Tate B. Flowers, PLS
 Robert W. Gardner, PSM
 Brian R. Garvey, PE
 Daniel J. Henry, PSM, PLS
 Mathew G. Jennings, RLS
 Gary B. Krick, PSM
 Brad J. Lashley, PSM, PLS
 Myron F. Lucas, PSM
 James E. Mazurak, PSM



Southeastern Surveying and Mapping Corporation
Serving the Southeast since 1972
www.southeasternsurveying.com
info@southeasternsurveying.com

Thomas K. Mead, PSM, PLS
 Timothy O. Mosby, PSM
 James L. Petersen, PSM
 William C. Rowe, PSM
 Tony G. Syfrett, PSM, PLS
 John S. Thomas, PSM
 Edward W. Wackerman, PLS (FL)
 Brad Stroppel, EI, GISP
 Kirk R. Hall, EI, GISP
 Catherine E. Galgano, GISP
 Cheryl A. Isenberg, GISP
 Patrick J. Phillips, GISP
 Donna L. Canney, CST IV
 Frank B. Henry, CST IV
 David M. Rentfrow, CST IV
 Steve D. Smith, CST IV
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

March 05, 2015

Via E-Mail: eddie.jenkins@tetrattech.com

Mr. Lawrence E. (Eddie) Jenkins, P.S.M.
 Tetra Tech Engineering & Architecture Services
 201 E. Pine Street, Suite #1000
 Orlando, FL 32801

**RE: City of Orlando Proposed Lift Station Improvements
 Various locations, Orlando, FL
 Sections 29, 32 and 33, Township 22 South, Range 29 East, and
 Section 04, Township 23 South, Range 29 East, Orange County, Florida**

Dear Mr. Jenkins,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found, excluding service lines, gravity sewer lines and irrigation, as shown on the print provided by the client via email on 03/04/2015 (.kmzfile).
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using non-destructive vacuum excavation methods at twelve (12) specific locations indicated on plan sheets provided.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.
6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 th Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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Licenses: PSM/PLS: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer
Certifications: EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician

Terms and Conditions

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

Tetra Tech will make available all plans and utility records that have been obtained for this site. However, the information provided by Tetra Tech is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify Tetra Tech if there are any patently or reasonably identifiable defects in the documents.

Tetra Tech is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment, and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by Tetra Tech.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

Note: In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

Note: All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

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Mr. Lawrence E. (Eddie) Jenkins, P.S.M.

City of Orlando Proposed Lift Station Improvements

March 05, 2015

Note: Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of Tetra Tech.

Our fees for this project will be as follows:

Utility Designation: (4 Lift Stations) at \$882.00 per Lift Station = \$3,528.00

Test Holes:

\$361.00 Dirt/Each/Day Rate: (anticipate 12) = \$4,332.00

\$412.00 Asphalt/Concrete/Each/Day Rate

M.O.T. (SSMC): (anticipate 0)

\$361.00 per Lane Closure/Day Rate

\$515.00 per Lane Closure/Night Rate

Permitting: (if required)

\$88.00 per hour + cost of permit(s)

Anticipated Total \$7,860.00

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards

Utility Division Project Manager

MSS:gac

Page 4

Mr. Lawrence E. (Eddie) Jenkins, P.S.M.

City of Orlando Proposed Lift Station Improvements

March 05, 2015

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

Send all Agreements to:

Orlando Corporate Office

6500 All American Boulevard

Orlando, FL 32810.

Fax: 407-292-0141

Email: info@southeasternsurveying.com

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

The person executing this document **must indicate that he/she is a Principal and/or Corporate Officer.**

If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.

ACCEPTED BY:

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Principal / or Corporate Officer	TITLE	Printed Name	Date
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March 16, 2015

Tetra Tech, Inc.
201 East Pine Street, Suite 1000
Orlando, Florida 32801

Attention: Brett Messner, P.E.

Reference: Proposal for Geotechnical Engineering Services
 Lift Stations 28, 54, 60 and 67 Replacements
 Orlando, Florida

Dear Mr. Messner:

Antillian Engineering Associates, Inc. is pleased to submit this proposal to provide geotechnical engineering services for the above-referenced project. It was prepared in response to your e-mail request dated March 5, 2015.

SCOPE OF SERVICES

The City of Orlando Public Works Department is planning to replace four sanitary sewer lift stations. Three of the lift stations are in the eastern part of the city and the fourth is on the southwestern side. The stations were designated as follows:

Lift Station 28: Gulfstream Road between Marathon Avenue and Gulfstream Court
Lift Station 54: Sun Court about 250 feet south of the intersection with West South Street
Lift Station 60: Barley Street between Dorcas Court and Argos Avenue
Lift Station 67: Raleigh Street about 100 feet west of the intersection with Broome Avenue.

It is our understanding that the Lift Station 28 project will also include an investigation to identify possible causes of observed structural distress in the concrete masonry service building. We propose to conduct geotechnical engineering investigations to support the design of this project. The overall scope of services would be separated into tasks as follows:

Task 1 - Site Reconnaissance/Field Investigation - Before commencing the drilling program, we would meet in the field with representatives of the City of Orlando, and the appropriate utility companies to confirm and mark the locations of any existing underground service facilities as required by Florida statutes. Tetra Tech requested one SPT boring to a depth of 30 feet at lift stations 54, 60 and 67. The Standard Penetration Test (SPT) with split-spoon soil sampling would be performed in accordance with ASTM D 1586. Tests would be conducted continuously from one foot below ground surface to a depth of ten feet and then at five-foot intervals to the indicated completion depths. Soils penetrated during the drilling operations would be logged in the field. Representative samples would be sealed in clean, airtight containers for transportation to our Orlando office. The groundwater level encountered at each boring location would be measured and recorded on the field logs. At the completion of the drilling program, the borings would be backfilled with soil.

Following a detailed reconnaissance at LS 28, two CPT soundings would be conducted to a depth of 40 feet each in an effort to identify possible subsurface causes of the reported distress. One sounding would be done close to the distressed area and the second would be done in an undisturbed location some distance away for comparison.

Task 2 - Laboratory Testing - The recovered soil samples would be examined in our office by a geotechnical engineer to confirm the descriptions on the field logs and classify the soils visually. Laboratory testing would consist of 12 single-sieve gradation analyses, three Atterberg Limits tests and three natural moisture content tests. Soil corrosion potential testing was not requested.

Task 3 - Engineering Services - We would perform the following services:

- review available information to develop a general understanding of the proposed construction
- compile field and laboratory test data with the available information to characterize subsurface conditions
- evaluate the suitability of the subsurface conditions for the proposed improvements
- prepare final boring logs, maps and plans
- prepare a geotechnical engineering report

The report would contain a summary of available information pertaining to the proposed lift station replacements, appropriate surface and subsurface characterizations, a summary of the laboratory test data and recommendations for lift station design, underground utility earthwork, excavation safety, groundwater control and other concerns as appropriate. The report would be sealed by a Professional Engineer registered in Florida.

COMPENSATION FOR SERVICES

We propose to provide the described services for a not-to-exceed fee of \$14,609.28. An itemized breakdown of the fee is attached as Appendix A. The fee represents our best estimate of the scope of services needed to satisfy the requirements of the project. If additional engineering services are requested or required, these would be provided at the unit rates shown in the itemized estimate. We would not exceed the estimated price without notifying you and receiving your written authorization to do so.

SCHEDULE

We can begin work on this project within one week of receiving your notification to proceed. The field and laboratory investigations should take about three weeks. A report would be submitted within four weeks after completion of the laboratory investigations.

LIMITATIONS

The work on this project will be performed in general accordance with accepted procedures for the practice of geotechnical engineering. The general conditions under which services will be provided for this project are attached as Appendix B. I will accept signed copies of the Work Authorization Form (attached as Appendix C) as your acceptance of the terms of service and your authorization to proceed. We will execute both copies and return one copy to you. Please call if you have any questions or if you need additional information.

Respectfully submitted,
ANTILLIAN ENGINEERING ASSOCIATES, INC.

Peter G. Suah, P.E.
Principal Engineer/President

Attachments: Appendix A - Fee Estimate
 Appendix B - Terms and Conditions
 Appendix C - Work Authorization Form

ANTILLIAN ENGINEERING ASSOCIATES, INC.

**APPENDIX A
FEE ESTIMATE
LIFT STATIONS 28, 54, 60 and 67 REPLACEMENTS**

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	<u>RATE</u>	<u>TOTAL</u>
Field Investigation				\$ -
Equipment Mobilization, Truck Rig	each	1	\$350.00	\$ 350.00
SPT Borings, Lift Stations, 3 to 30 ft each	LF	90	\$12.00	\$ 1,080.00
Drill Rig and Crew (relocation to two additional sites)	hours	2	\$180.00	\$ 360.00
Equipment Mobilization, ATV Rig	each	1	\$600.00	\$ 600.00
Cone Penetrometer Soundings (2 to 40 ft)	LF	80	\$12.00	\$ 1,080.00
Allowance for Right-of-Way Use Permits	NTE	0	\$500.00	\$ -
Project Engineer(permits, recon., utility location/field coord.)	hours	24	\$122.19	\$ 2,932.56
Engineer Intern (field supervision/log boreholes)	hours	24	\$70.44	\$ 1,690.56
				\$ -
Laboratory Testing				\$ -
Visual classification/sample preparation	each	15	\$10.00	\$ 150.00
Grain Size Analysis, Single Sieve	each	12	\$30.00	\$ 360.00
Atterberg Limits	each	3	\$90.00	\$ 270.00
Organic Content	each	0	\$30.00	\$ -
Moisture Content	each	3	\$10.00	\$ 30.00
				\$ -
Engineering Services				\$ -
Project Manager	hour	8	\$129.38	\$ 1,035.04
Project Engineer	hour	32	\$122.19	\$ 3,910.08
Draftsperson	hour	12	\$63.42	\$ 761.04
				<u>\$ 14,609.28</u>



May 4, 2015

Mr. John Toomey, P.E.
Tetra Tech Inc.
201 East Pine Street, Suite 1000
Orlando, FL 32801

Re: Lift Stations No. 28, 54, 60 and 67 Improvements Project
City of Orlando, Florida

Dear Mr. Toomey:

We are pleased to submit our revised proposal for electrical engineering services for the above project. It is our understanding that the City of Orlando intends to implement various improvements to lift stations throughout the service area. The proposed authorization will include miscellaneous electrical improvements at four (4) existing lift stations and will be known as the "Lift Stations No. 28, 54, 60 and 67 Improvements Project". The following serves to provide an overview of the engineering services Electrical Design Associates, Inc. (EDA) intends to furnish on the above referenced project to Tetra Tech Inc. (TT). This letter contract represents an overview of the work we intend to perform and provides the agreed fee amount. Your signature on this agreement will serve as your letter of intent and official notice to proceed with the design of the referenced work. Our services shall include completed tracings of drawings for the work, covering all phases of our design in an Autocad 2009 format. Electrical specifications and opinion of cost estimate for the work performed under this agreement. Our scope of shall include:

LS No. 28: This facility is a duplex station located at 2700 Gulfstream Road. Our scope shall include:

1. Electrical design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the control panel, utility meter can, transfer switch and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
2. Instrumentation design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can, and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
3. Electrical design associated with the proposed standby generator, sized to support all connected load. The standby generator will be housed in the existing building. Electrical design shall include replacement of the interior lighting in accordance with current City standards. Design associate with the fuel system shall be completed by others.

LS No. 54: This facility is a duplex station located at 418 Sun Court. Our scope shall include:

1. Electrical design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
2. Instrumentation design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can, and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
3. No standby generator is anticipated.

LS No. 60: This facility is a duplex station located at 466 Barley Road. Our scope shall include:

1. Electrical design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
2. Instrumentation design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can, and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
3. No standby generator is anticipated.

LS No. 67: This facility is a duplex station located at 4780 Raleigh. Our scope shall include:

1. Electrical design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the control panel, utility meter can, transfer switch and station disconnect switch. Design shall be in accordance with the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.
2. Instrumentation design associated with the complete replacement of the station control panel and associated electrical equipment including but not limited to the RTU, control panel, utility meter can, and station disconnect switch. Design shall be in accordance with

the City's Lift Station Standards. The standards are to be incorporated in the specifications as an appendix.

3. Electrical design associated with the proposed standby generator, sized to support all connected load. The standby generator will be housed in a sound attenuated enclosure. Design associated with the fuel system shall be completed by others.

EDA's deliverable shall include:

Task 1. Preliminary Design

1. Attend a kick-off meeting with the City Staff to discuss the proposed improvements and various design considerations.
2. Visit each lift station and review as-built drawings pertaining to the facilities.
3. Prepare a preliminary opinion of construction cost for the suggested improvements.
4. EDA shall assist Tetra Tech in the preparation of the draft technical memorandum summarizing the findings, conclusions, site layouts, and recommendations resulting from the various analyses.

Task 2. Final Design

1. EDA will attend design review meetings with the City, which will correspond to each completion level.
2. Prepare bid documents, engineering drawings, and specifications, which will be submitted to the City for review at 60%, 90% and 100% completion levels. EDA shall provide one (1) set of drawings and specifications to Tetra Tech, all reproduction will be completed by others. Final documents will be provided in electronic format in addition to the hard copies. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word.
3. Preliminary list of drawings

Electrical & Instrumentation

Symbols, Notes and Abbreviations

LS No. 28 Electrical Demolition Plan

LS No. 28 Electrical Proposed Site Plan

LS No. 28 Single Line/Elementary Diagrams

LS No. 54 Electrical Demolition Plan

LS No. 54 Electrical Proposed Site Plan

LS No. 54 Single Line/Elementary Diagrams

LS No. 60 Electrical Demolition Plan

LS No. 60 Electrical Proposed Site Plan

LS No. 60 Single Line/Elementary Diagrams
LS No. 60 Electrical Demolition Plan
LS No. 67 Electrical Proposed Site Plan
LS No. 67 Single Line/Elementary Diagrams
LS No. 67 Electrical Demolition Plan

Task 3. Permitting

1. EDA shall assist in the preparation of separate permitting packages. It is our understanding that the City Building department will require each site to have a separate permit. All reproduction of the drawings is to be completed by others.
2. EDA shall provide documentation, answer questions and work with the selected Contractor to secure a building permit from the City Building Department.

Task 4. Bidding and Award

It is our understanding that the proposed improvements will be bid as one (1) project. Upon authorization to proceed with the bidding and award phase of the project, EDA will assist Tetra Tech with the following tasks.

1. Provide one (1) copy of the Contract Documents (engineering drawings and specifications) and any addenda. All reproduction by others.
2. EDA shall attend a pre-bid conference.
3. Respond to any questions from bidders and prepare and issue addenda as required to interpret, clarify or expand the Bidding Documents.

Task 5. Construction Administration

1. EDA shall assist Tetra Tech in the preparation of two (2) copies of a conformed set of Contract Documents for the City and one (1) reproducible set for the recommended Contractor. All additional reproduction by others.
2. EDA shall attend a preconstruction conference with the City, selected Contractor, subcontractors, and regulatory agencies.
3. EDA shall conduct eight (8) monthly site visits to the construction sites to observe construction of the project and attend up to eight (8) monthly progress meetings. The site visits will be made at periods appropriate to the various stages of construction to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. Prepare trip reports to document observations made during these inspections. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's

efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents.

4. Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.
5. Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) is in accordance with the Contract Documents.
6. EDA shall conduct a substantial completion site visit and develop a punch list of items to be corrected by the Contractor.
7. EDA shall conduct a final completion site visit to determine if the punch list items have been completed in accordance with the Contract Documents and if the Contractor's obligations are fulfilled, and recommend final payment to the Contractor.
8. EDA shall prepare one (1) copy and an electronic file of the record drawings for the City incorporating changes made during construction based on record information furnished by the Contractor.

Task 6. Contingency

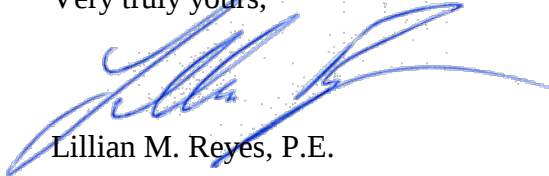
1. A contingency budget of \$5,000 is included in this authorization for unforeseen additional service needs. This contingency will not be used without prior written authorization from the City.

Our scope of services shall include the electrical engineering services associated with the proposed pump station improvements. Attached please find a breakdown of our project man-hours for this project. Our fee for this work shall be billed hourly and payable as follows:

Task No.1 – Preliminary design	\$ 2,970.92
Task No.2 – Final design	\$ 21,495.82
Task No.3 - Permitting	\$ 2,242.64
Task No.4 - Bidding	\$ 1,907.40
Task No.5 – Construction Administration	\$ 25,640.08
Task No.6 – Contingency	<u>\$ 5,000.00</u>
Total Not to Exceed:	\$ 59,256.86

Services not specifically defined are not included.

Very truly yours,

A handwritten signature in blue ink, appearing to read 'Lillian M. Reyes', is written over a horizontal line.

Lillian M. Reyes, P.E.

ACCEPTED _____ DATE _____

Enclosures

**Lift Stations No. 28, 54, 60 and 67 Improvements Project
City of Orlando, Florida**

Estimate of Work Effort & Fee

Date: 5/4/2015

	Principal		Senior Engineer		Designer		Field Supervisor		Cadd Technician		Clerical/Admin		Totals	
	Hourly Rate	\$199.41	Hourly Rate	\$179.18	Hourly Rate	\$156.06	Hourly Rate	\$92.48	Hourly Rate	\$80.92	Hourly Rate	\$63.58		
	man-hours	Total	man-hours	Total	man-hours	Total	man-hours	Total	man-hours	Total	man-hours	Total	man-hours	Total
Task 1 - Preliminary Design														
Field Visits	6	\$ 1,196.46		\$ -		\$ -		\$ -		\$ -		\$ -	6	\$ 1,196.46
PDR	6	\$ 1,196.46		\$ -		\$ -		\$ -	4	\$ 323.68	4	\$ 254.32	14	\$ 1,774.46
Subtotal:	12	\$ 2,392.92	0	\$ -	0	\$ -	0	\$ -	4	\$ 323.68	4	\$ 254.32	20	\$ 2,970.92
Task 1 - Preliminary Design Total:	12	\$ 2,392.92	0	\$ -	0	\$ -	0	\$ -	4	\$ 323.68	4	\$ 254.32	20	\$ 2,970.92
Task 2 - Final Design Total:														
60% Submittal														
Meetings	4	\$ 797.64		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 797.64
Design	2	\$ 398.82		\$ -	30	\$ 4,681.80		\$ -	24	\$ 1,942.08		\$ -	56	\$ 7,022.70
Specifications/Opinion of Costs	2	\$ 398.82		\$ -	8	\$ 1,248.48		\$ -		\$ -	8	\$ 508.64	18	\$ 2,155.94
Subtotal:	8	\$ 1,595.28	0	\$ -	38	\$ 5,930.28	0	\$ -	24	\$ 1,942.08	8	\$ 508.64	78	\$ 9,976.28
90% Submittal														
Meetings	4	\$ 797.64		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 797.64
Design	2	\$ 398.82		\$ -	20	\$ 3,121.20		\$ -	16	\$ 1,294.72		\$ -	38	\$ 4,814.74
Specifications/Opinion of Costs	2	\$ 398.82		\$ -	2	\$ 312.12		\$ -		\$ -	4	\$ 254.32	8	\$ 965.26
Subtotal:	8	\$ 1,595.28	0	\$ -	22	\$ 3,433.32	0	\$ -	16	\$ 1,294.72	4	\$ 254.32	50	\$ 6,577.64
Final Submittal														
Meetings	4	\$ 797.64		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 797.64
Design	8	\$ 1,595.28		\$ -	8	\$ 1,248.48		\$ -	8	\$ 647.36		\$ -	24	\$ 3,491.12
Specifications/Opinion of Costs	2	\$ 398.82		\$ -		\$ -		\$ -		\$ -	4	\$ 254.32	6	\$ 653.14
Subtotal:	14	\$ 2,791.74	0	\$ -	8	\$ 1,248.48	0	\$ -	8	\$ 647.36	4	\$ 254.32	34	\$ 4,941.90
Task 2 - Final Design Total:	30	\$ 5,982.30	0	\$ -	68	\$ 10,612.08	0	\$ -	48	\$ 3,884.16	16	\$ 1,017.28	162	\$ 21,495.82
TASK 3 - Permitting														
Meetings	4	\$ 797.64		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 797.64
Dwg revisions	4	\$ 797.64		\$ -		\$ -		\$ -	8	\$ 647.36		\$ -	12	\$ 1,445.00
Task 3 - Permitting Total:	8	\$ 1,595.28	0	\$ -	0	\$ -	0	\$ -	8	\$ 647.36	0	\$ -	16	\$ 2,242.64
TASK 4 - Bidding														
Meetings	4	\$ 797.64		\$ -		\$ -		\$ -		\$ -		\$ -	4	\$ 797.64
Addenda Preperation	4	\$ -		\$ -	4	\$ 624.24		\$ -		\$ -		\$ -	8	\$ 624.24
Dwg revisions		\$ -		\$ -		\$ -		\$ -	6	\$ 485.52		\$ -	6	\$ 485.52
Task 4 - Bidding Total:	8	\$ 797.64	0	\$ -	4	\$ 624.24	0	\$ -	6	\$ 485.52	0	\$ -	18	\$ 1,907.40
Task 5 - Construction Services														
Shop Drawing Review	16	\$ 3,190.56	0	\$ -	24	\$ 3,745.44		\$ -		\$ -	4	\$ 254.32	44	\$ 7,190.32
Issue Clarifications	16	\$ 3,190.56		\$ -		\$ -		\$ -		\$ -		\$ -	16	\$ 3,190.56
Progress meetings/Site Visits	24	\$ 4,785.84		\$ -		\$ -	80	\$ 7,398.40		\$ -		\$ -	104	\$ 12,184.24
Startup	8	\$ 1,595.28		\$ -		\$ -	16	\$ 1,479.68		\$ -		\$ -	24	\$ 3,074.96
Task 5 -Construction Services Total:	64	\$ 12,762.24	0	\$ -	24	\$ 3,745.44	96	\$ 8,878.08	0	\$ -	4	\$ 254.32	188	\$ 25,640.08
Total Not to Exceed:	110	\$ 21,137.46	0	\$ -	96	\$ 14,981.76	96	\$ 8,878.08	62	\$ 5,017.04	20	\$ 1,271.60	384	\$ 54,256.86



March 17, 2015

John Toomey, P.E.
Tetra Tech
201 East Pine Street, Suite 1000
Orlando, FL 32801

Re: Proposal for City of Orlando Lift Stations No. 28, 54, 60, & 67 Improvements

Dear John,

CPW Construction, Inc. is pleased to submit this proposal to perform construction administration services for the above project. Construction administration services will be on an hourly basis, for a total not-to-exceed amount of \$12,610.00.

I look forward to working with you and providing these services to The City of Orlando. Please call me at 321-436-0822 or e-mail me at cwatts@cpwconstruction.com at your convenience should you require additional information.

Regards,

A handwritten signature in blue ink that reads 'Charlyn P. Watts'.

Charlyn P. Watts
President

Enclosures



**Construction Administration Services
For
City of Orlando
Lift Stations No. 28, 54, 60, & 67 Improvements**

Scope of Services

CPW Construction Inc. (CPWC) has been requested to provide construction administration services during the construction phase of Lift Stations No. 28, 54, 60, & 67 Improvements. The fee breakdown for services to be performed by CPWC is provided in Table A.

Task – Design Documents Review and Design Phase Meetings - N/A

Task (2 and 3) – Construction-Phase Meetings

Hours allotted for Task 2 and 3 assume that CPWC will attend one (1) Preconstruction Conference, twelve (12) project progress meetings and two (2) specialty meetings during construction of the above project. All summary meetings to be conducted by others.

Task 3 – Site Visits

CPWC will periodically visit the project site to observe the progress and content of the work and site condition maintained by the contractor, and to assess whether the work is preceding in general accordance with the Contract Documents. Observation of work at the project site shall not make CPWC responsible for the work performed by another party; the means, methods, techniques, sequences, or procedures selected by another party; nor the safety precautions or programs of another party. Identified construction concerns will be discussed with the City and Tetra Tech Inc. representatives. 12 site visits.

Task (7 and 8) – Project Closeout

Upon written request by the Contractor, CPWC will conduct an inspection to determine if the work is substantially complete and assist with generating a punchlist of items to be addressed by the contractor. Finally, perform final completion site inspection to confirm that all punch list items have been satisfactorily completed. Provide written recommendation with respect to project substantial completion acceptance.

Schedule

For the purposes of assessing compensation, it has been assumed construction for Lift Stations No. 28, 54, 60, & 67 Improvements will be completed within 12 months. If additional services are required from CPWC beyond those described herein, additional funding will be requested and authorized via contract amendment.

Compensation

CPWC will be compensated for the services described above on a Not-to-Exceed basis at the billing rate shown in Table A. Payment for services rendered shall be in accordance with approved monthly invoices. CPWC shall receive payment within 60 days of invoice to Tetra Tech. The fee for the tasks described herein is \$12,610.00.



ATTACHMENT A

FEE BREAKDOWN

Construction Administration Services for City of Orlando Lift Stations No. 28, 54, 60, & 67 Improvements

Task	Labor					
	Project Manager		Assist Project Manager		Totals	
	Hours	Rate	Hours	Rate	Hours	Cost
		\$130.00		\$85.00		
Task - Design Documents Review and Design Phase Meetings	0	\$ -	0	\$ -	0	\$ -
N/A	0	\$ -	0	\$ -	0	\$ -
		\$ -		\$ -		\$ -
Task - Construction-Phase Meetings	4	\$ 520.00	60	\$ 5,100.00	64	\$ 5,620.00
(2) Preconstruction Conference (1)	4	\$ 520.00	4	\$ 340.00	8	\$ 860.00
(3) Project Progress (12) and Specialty Meetings (2)	0	\$ -	56	\$ 4,760.00	56	\$ 4,760.00
Task - Site Visits	4	\$ 520.00	48	\$ 4,080.00	52	\$ 4,600.00
(3) Site Visits (12)	4	\$ 520.00	48	\$ 4,080.00	52	\$ 4,600.00
Task - Project Closeout	4	\$ 520.00	22	\$ 1,870.00	26	\$ 2,390.00
(7) Substantial Completion Walk-through	4	\$ 520.00	12	\$ 1,020.00	16	\$ 1,540.00
(7) Prepare Substantial Completion Punch-list	0	\$ -	4	\$ 340.00	4	\$ 340.00
(8) Final Completion Walk-through	0		6	\$ 510.00	6	\$ 510.00
Totals - Labor Hours and Dollars	12	\$ 1,560.00	130	\$ 11,050.00	142	\$ 12,610.00
Total Not to Exceed, Including Labor and Reimbursable Expenses					\$	12,610.00

Shirley P. Watts

Tt Exhibit II		Labor Plan											Price Summary / Totals			
		11 Resource											\$259,106.32			
LS Nos. 28, 54, 60, & 67 Improvements	Bill Rate >	\$219.51	\$95.19	\$75.72	\$122.61	\$141.78	\$97.47	\$77.04	\$99.00	\$89.70	\$93.00	\$73.50	0			
	Raw Rate	\$73.17	\$31.73	\$25.24	\$40.87	\$47.26	\$32.49	\$25.68	\$33.00	\$29.90	\$31.00	\$24.50				
													Total Price \$259,106.32			
Submitted to: City of Orlando													Pricing by Resource			
Contract Type: T&M	Total Labor Hrs	Project Manager (John Toomey)	Project Engineer (Brett Messner)	Engineer EI (Brett Kuziak)	Structural Engineer (Jason Burkett)	Survey Manager (Eddie Jenkins)	Survey Crew Chief (Tom Niarchos)	Survey Technician I (Jerry Woodard)	Survey Technician (Chad Sanford)	CADD Tech. (Russ Matthews)	Construction Administrator (Susan Moore)	Senior Administrative Assistant (Anke Baker)	Labor Rate Esc.	Labor	Subs	Task Pricing Totals
Project Phases / Tasks													1,559	65	328	400
Preliminary Design	467	14	79	48	4	16	80	80	48	80	-	18		\$44,198.43	\$25,440.20	\$69,638.63
Kick-off Meeting/Minutes	9	3	4									2		\$1,186.29		\$1,186.29
Site Visit/Inspections	16		16											\$1,523.04		\$1,523.04
Survey LS No. 28	56					4	20	20	12					\$5,245.32		\$5,245.32
Survey LS No. 54	56					4	20	20	12					\$5,245.32		\$5,245.32
Survey LS No. 60	56					4	20	20	12					\$5,245.32		\$5,245.32
Survey LS No. 67	56					4	20	20	12					\$5,245.32		\$5,245.32
Soft Dig at 12 Locations & Utility Locates (Southeastern Survey)	-														\$7,860.00	\$7,860.00
Geotechnical Investigations (Antillian)	-														\$14,609.28	\$14,609.28
Cost Estimate	22	2	4	16										\$2,031.30		\$2,031.30
Draft Design Memorandum	152	4	48	24	4					64		8		\$14,083.68		\$14,083.68
Review Meeting	10	3	3									4		\$1,238.10		\$1,238.10
Final Design Memorandum	34	2	4	8						16		4		\$3,154.74		\$3,154.74
EDA FEE	-														\$2,970.92	\$2,970.92
Final Design	734	39	101	264	28	-	-	-	-	280	-	22		\$68,331.24	\$21,495.82	\$89,827.06
General Sheets (3)	22	2	4	8						8				\$2,143.14		\$2,143.14
Civil/Mechanical Sheets (17)	544	8	80	160	24					272				\$48,827.52		\$48,827.52
Electrical/Instrumentation Sheets (13)	-															\$0.00
Specifications	82	2	4	56	4							16		\$6,726.54		\$6,726.54
Review Meetings/Comment Tracking Sheets	40	9	9	16								6		\$4,484.82		\$4,484.82
Prepare Cost Estimate at Each Level	30	2	4	24										\$2,637.06		\$2,637.06
QA/QC & Coordination	16	16												\$3,512.16		\$3,512.16
EDA Fee	-														\$21,495.82	\$21,495.82
Permitting	65	2	18	32	-	-	-	-	-	8	-	5		\$5,660.58	\$2,242.64	\$7,903.22
Prepare/Submit Letter to FDEP	3		2									1		\$263.88		\$263.88
Building Permit Assistance/S&S Documents	62	2	16	32						8		4		\$5,396.70		\$5,396.70
EDA FEE	-														\$2,242.64	\$2,242.64
Bidding and Award	78	3	19	24	-	-	-	-	-	16	16	-		\$7,207.62	\$1,907.40	\$9,115.02
Prepare Bid Set	28		4	8						8	8			\$2,448.12		\$2,448.12
Attend Prebid Conference	3		3											\$285.57		\$285.57
Answer Questions/Issue Addenda	38	2	8	16						8	4			\$3,501.66		\$3,501.66
Evaluate Bids	9	1	4								4			\$972.27		\$972.27
EDA FEE	-														\$1,907.40	\$1,907.40
Construction Administration	215	7	111	32	-	-	-	-	-	40	25	-		\$20,438.70	\$38,250.08	\$58,688.78
Conform Documents	16		4							8	4			\$1,470.36		\$1,470.36
Attend Preconstruction Meeting (Tt & CPW)	7	3	3								1			\$1,037.10		\$1,037.10
Meetings/Periodic Observation (Tt & CPW)	24		24											\$2,284.56		\$2,284.56
Issue Clarifications	60	4	48								8			\$6,191.16		\$6,191.16
Review Shop Drawings	40		4	32							4			\$3,175.80		\$3,175.80
Review Test Reports	4		4											\$380.76		\$380.76
Substantial & Final Completion Inspections (Tt & CPW)	20		16								4			\$1,895.04		\$1,895.04
Record Drawings	44		8							32	4			\$4,003.92		\$4,003.92
EDA Fee	-														\$25,640.08	\$25,640.08
CPW Fee	-														\$12,610.00	\$12,610.00
Subconsultant Administration & Contingency	-	-	-	-	-	-	-	-	-	-	-	-		\$0.00	\$23,933.61	\$23,933.61
Subconsultant Administration	-														\$8,933.61	\$8,933.61
Tetra Tech Contingency	-														\$10,000.00	\$10,000.00
EDA Contingency	-														\$5,000.00	\$5,000.00
Totals	1,559	65	328	400	32	16	80	80	48	424	41	45	0.00%	\$145,836.57	\$113,269.75	\$259,106.32