

November 4, 2015

Mr. Clece Aurelus, P.E.  
Engineering Support Services Manager  
City of Hollywood  
Department of Public Utilities  
1621 N. 14th Avenue  
Hollywood, Florida 33022

**RE: LIFT STATION A-6 UPGRADE  
CITY OF HOLLYWOOD PROJECT NO. 15-8061  
CTA PROPOSAL No. 2015-S04.402**

Dear Mr. Aurelus:

We are pleased to submit this proposal for Professional Consulting Services in connection with the Lift Station A-6 Upgrade. All services and terms will be per the Original Agreement of City of Hollywood Project No. 08-1214A.

The proposed reconstruction of sanitary sewer Lift Station A6 will include replacing the existing suction lift pump station with a new wet well, submersible pumps, valve vault, panels and SCADA system. The new lift station will be designed to accept City standard transfer switch for a generator. Survey will be provided by Gibbs Land Surveying, Soil Borings will be provided by Tierra South Florida and Electrical Engineering Services will be provided by Hillers Electrical Engineering. Specifically, our proposed scope of services and fees are as follows:

**CRANEN THOMPSON**



**& ASSOCIATES INC.**

Engineers  
Planners  
Surveyors  
Landscape Architects

**I. ENGINEERING SERVICES - CIVIL - PUMP- ELECTRICAL DESIGN**

**1.1 Final Civil Engineering Plans (CTA Task No. 31025)**

Prepare Engineering Plans, Contract Documents and Bidding Assistance for the removal and replacement of the existing Lift Station A-6. Reconstruction will consist of the following:

- Demolition Plans
- Wet Well, Valve Vault, Pump and Piping Design
- Complete Restoration of disturbed area
- By-Pass Pumping Coordination and Design

*Lump Sum ..... \$17,380.64*

**1.2 Final Pump Design Plans (CTA Task No. 31025)**

Prepare Engineering Pump Design Plans, Contract Documents and Bidding Assistance for the new Lift Station A-6. Pump Design will consist of the following:

- Pump and Piping Design
- By-Pass Pumping Coordination and Design

Pumps will be sized based on City of Hollywood provided information, flow, pressure, pump manufacturer, etc.

*Lump Sum ..... \$7,021.36*

3563 N.W. 53rd Street  
Fort Lauderdale, FL 33309-6311  
(954) 739-6400  
Fax (954) 739-6409

1.3 Final Electrical Engineering Plans (CTA Task No. 31025)

**(Task to be performed by Hillers Electrical Engineering, Inc.)**

Prepare Electrical Engineering Plans, Contract Documents and Bidding Assistance for the removal and replacement of the existing Lift Station A-6. Reconstruction will consist of the following:

- Design one (1) new FPL electrical service points for the Lift Station.
- Design power /control panel, power & control systems, XL SCADA/RTU connections, conduit & conductors, grounding systems per City Standards.
- Design Stand-by power generator system connection for Lift Station.
- City shall provide specific SCADA / RTU equipment / systems design information for Lift Station. Hillers Electrical shall incorporate City provided equipment / systems information into Contract Documents specific for each Lift Station.

*Lump Sum* ..... \$8,900.72

1.4 Prepare and Process On-site Engineering Permit Applications (CTA Task No. 31080)

Prepare and process permit applications and supporting documents through appropriate state and local agencies including:

- Broward County Environmental Protection and Growth Management Department - Wastewater
- Florida Department of Environmental Protection - Wastewater
- City of Hollywood

City of Hollywood will provide all necessary reports/documents/modeling data required to secure wastewater permits from BCPD and FDEP.

*Lump Sum* ..... \$5,632.48

**II. CONSTRUCTION OBSERVATION SERVICES- CIVIL-PUMP-ELECTRICAL**

2.1 Limited Construction Observation - Civil (CTA Task No. 31120)

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of eight (8) for the Project. Construction is estimated to last twelve (12) weeks for all disciplines. Review record drawings prepared by Contractor; attend final walk through with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

*Hourly, Not-to-Exceed*..... \$9,813.74

2.2 Limited Construction Observation - Pump and Piping (CTA Task No. 31120)

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of four (4) for the Project Construction is estimated to last twelve (12) weeks for all disciplines. Review record drawings prepared by Contractor; attend final walk through with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

*Hourly, Not-to-Exceed*..... \$3,880.20

2.3 Limited Construction Observation - Electrical (CTA Task No. 31120)

**(Task to be performed by Hillers Electrical Engineering, Inc.)**

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of four (4) by the Electrical Engineer. Construction is estimated to last twelve (12) weeks for all disciplines. Review record drawings prepared by Contractor; attend final walk through with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

*Hourly, Not-to-Exceed*..... \$3,800.00

**III. REIMBURSABLE EXPENSES**

3.1 Reimbursable Expenses (CTA Task No. XPEN)

Reimbursable expenses shall include printing, mylars, copying, postage, photographic services, Federal Express and courier services.

*Budget, Estimate*..... \$500.00

**IV. SUBCONSULTANT BUDGETS**

4.1 Prepare Design Survey (CTA Task No. 11050)

**(Task to be performed by Gibbs Land Surveyors)**

Obtain field survey information and prepare an engineering base sheet for the existing sewage Lift Station A6. The survey information shall include detailed dimensions on pipes, pumps, panels, tanks, slabs, building, poles, topography (NAVD 1988), etc. to provide the base for the engineering design. A survey base sheet will be prepared for civil engineering design and include the property lines and easements.

*Budget* ..... \$3,000.00

- 4.2 Provide Geotechnical Services (CTA Task No. 11050)  
(Task to be performed by Tierra South Florida, Inc.)  
Provide a minimum twenty (20') foot soil boring and report for the proposed Lift Station location.

Budget ..... \$1,000.00

#### **SUMMARY OF FEES**

**TOTAL - CIVIL, ELECTRICAL ENGINEERING, CONSTRUCTION  
OBSERVATION SERVICES AND REIMBURSABLE EXPENSES .....\$56,929.14**  
**TOTAL - SURVEYING, GEOTECHNICAL - BUDGET .....\$4,000.00**  
**GRAND TOTAL NOT TO EXCEED .....\$60,929.14**

#### **SERVICES NOT INCLUDED**

Additional services will be performed as authorized in writing by the Client.  
Additional services include but are not limited to the following:

1. Hydraulic Modeling, etc.
2. Environmental Permitting or Consulting Services
3. Water and Storm Drainage Improvements/Calculations.
4. Site Planning.
5. Landscape Architectural and Tree Removal permitting Services.
6. Geotechnical Testing (shall be provided by City).
7. Utility locates and test holes (shall be provided by City).
8. Soil analysis and testing.
9. Material testing.
10. Services required by additional governmental regulations which might be put into effect after the date of this agreement.
11. Any additional services requested by Client.

#### **SERVICES TO BE PROVIDED BY CITY**

1. Design Survey in ACAD format
2. Soil Borings (1 minimum)
3. Test Holes Data (x,y,z)
4. Pump data, flow, pressures and all requirements for sizing of station
5. Permit/Certification Fees

**Acceptance**

This proposal and fee schedules are based on acceptance within 30 days of the date of preparation. If not accepted by you within that time period, we reserve the right to re-evaluate the terms and conditions contained herein.

The above will be subject to the terms and conditions as specified in the Contract Documents. If the proposed work and fees contained herein are agreeable with you, please provide a Purchase Order and a Notice to Proceed.

Should you have any questions regarding the above, please do not hesitate to call.

Sincerely,

**CRAVEN THOMPSON & ASSOCIATES, INC.**



PATRICK J. GIBNEY, P.E.  
Vice President of Engineering

PJG/tg



STAFF TIME ESTIMATE

Personnel	Hourly Rate	Hours per Task										Totals	
		Task 1.1	Task 1.2	Task 1.3	Task 1.4	Task 2.1	Task 2.2	Task 2.3	Task 3	Task 4.1	Task 4.2	Hours	Cost
		0001	0002	0003	0004	0005	0006	0007	0008	0009	0010		
<b>Administration</b>													
Principal	\$175.00											0	\$0.00
Administrative Assistant	\$60.75											0	\$0.00
Sub Total												0	\$0.00
<b>Engineering</b>													
Principal Engineer	\$175.00	4	4	2	4							14	\$2,450.00
Sr. Supervising Engineer	\$162.68	22	8	4	8	4	2					48	\$7,808.64
Senior Engineer	\$127.31	40	16		16	6	4					82	\$10,439.42
Project Engineer	\$88.56	48	16		18	6						88	\$7,793.28
Senior CADD Technician	\$78.30	48	20									68	\$5,324.40
												0	\$0.00
Sub Total												300	\$33,815.74
<b>Construction</b>													
Construction Manager	\$126.90					22	12					34	\$4,314.60
Senior Field Representative	\$126.90					40	12					52	\$6,598.80
Field Representative	\$78.30											0	\$0.00
Sub Total												86	\$10,913.40
Sub Total												0	\$0
<b>Cost per Task</b>		\$17,380.64	\$7,021.36	\$1,000.72	\$5,632.48	\$9,813.74	\$3,880.20	\$0.00	\$0.00	\$0.00	\$0.00		\$44,729.14
<b>Budget per Task</b>		\$17,380.64	\$7,021.36	\$1,000.72	\$5,632.48	\$9,813.74	\$3,880.20	\$0.00	\$0.00	\$0.00	\$0.00		\$44,729.14
<b>Subconsultants</b>													
Survey Budget - Gibbs Surveying										\$3,000			\$3,000.00
Geotechnical Budget - Tierra SF											\$1,000		\$1,000.00
Electrical Services - Hillers				\$7,900.00			\$3,800						\$11,700.00
Subconsultants Sub Total		\$0.00	\$0.00	\$7,900.00	\$0.00	\$0.00	\$0.00	\$3,800.00	\$0.00	\$3,000.00	\$1,000.00		\$15,700.00
<b>Total</b>		\$17,380.64	\$7,021.36	\$8,900.72	\$5,632.48	\$9,813.74	\$3,880.20	\$3,800.00	\$0.00	\$3,000.00	\$1,000.00		
<b>Direct Expenses</b>									\$500.00				\$500.00
<b>Grand Total</b>		\$17,380.64	\$7,021.36	\$8,900.72	\$5,632.48	\$9,813.74	\$3,880.20	\$3,800.00	\$500.00	\$3,000.00	\$1,000.00		\$60,929.14

Total Civil \$32,826.86  
Total Pump \$10,901.56  
Total Electrical \$12,700.72