

November 13, 2019

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

**RE: SEWER SYSTEM ISOLATION VALVE AND FLOWMETER AT
PARK ROAD AND TAFT STREET
CITY OF HOLLYWOOD PROJECT NO. 20-7102
CTA PROPOSAL NO. 2019-S04.406**

Dear Mr. Aurelus:

We are pleased to submit this proposal for Professional Consulting Services in connection with the Force Main Isolation Valve Project at Taft and Park.

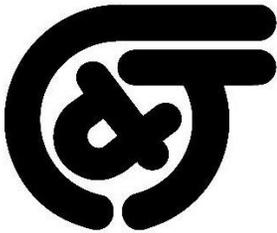
The proposed isolation valve project is anticipated to be completed in 12 months and will include adding plug valves to the existing 8" and 12" force mains and potentially adding a meter vault to the existing 12" force main before it discharges to the existing 48" force main in Taft Street. Specifically, our proposed scope of services and fees are as follows:

I. SURVEYING SERVICES

1.1 Topographic Survey (CTA Task No. 11020)

- Prepare a Topographic Survey of a portion of Taft Street and N. Park Road in Hollywood. The limits being the east half of the right-of-way of N. Park Road from the centerline of Taft Street north 200 feet, and the full right-of-way of Taft Street from the centerline of N. Park Road, easterly 300 feet.
- The Survey will meet current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as outlined in Chapter 5J-17 of the Florida Administrative Code.
- Recovery of sufficient existing boundary and/or right of way monumentation to determine the right-of-way lines needed to tie all visible improvements to.
- Locations of all aboveground and visible improvements, including pavement, pavement markings, slabs, buildings, fences, signs, overhead wires, utility poles, trees, and other utility features within the Survey/Project Limits delineated on the attached Exhibit 'A'
- Rims, inverts, and pipe sizes shall be measured on all sanitary and drainage structures found within the project limits, if accessible and physically unobstructed, otherwise they will be noted on the drawing.

CRANEN THOMPSON



& ASSOCIATES INC.

Engineers
Planners
Surveyors
Landscape Architects

3563 NW 53rd Street
Fort Lauderdale, FL 33309-6311
Phone: (954) 739-6400
Fax: (954) 739-6409

- Identify all existing easements and reference recorded documents (OR Book and page) that show on the recorded Plat only within the Public Records of Broward County. A title search is not included as part of this Task.
- Existing trees, three (3) inches in diameter and above, at four (4) feet above ground, shall be located and identified with diameter and common name.
- Elevations shall be taken at 50-foot cross-section intervals along the right-of-way and extend from right-of-way to right-of-way for engineering design.
- The elevations shall be relative to the North American Vertical Datum of 1988 (NAVD88) and based on National Geodetic Survey (NGS) or Florida Department of Transportation benchmarks.
- The surveys shall be in the horizontal projection: State Plane, Florida East Zone, NAD 83(90), US Survey feet.
- Survey drawings shall be prepared in AutoCAD Civil 3D, Version 2019 or higher.
- Final deliverable shall be provided in hard copy, signed and sealed surveys. Surveys shall be prepared at 22" x 34" size.

Lump sum..... \$5,587.20

Approximate time of completion: two-three (2-3) weeks, after receipt of Notice to Proceed (weather permitting).

II. ENGINEERING SERVICES - CIVIL - ELECTRICAL DESIGN

- 2.1 Feasibility Report (CTA Project No. 32000)
Prepare a feasibility report for the proposed work including inserting isolation valves into the existing force mains and installing a meter vault prior to the 12" force main discharging to the 48" force main in Taft Street.

Lump Sum..... \$4,976.64

- 2.2 Final Engineering Plans for Isolation Valves (CTA Task No. 31025)
Prepare Engineering Plans, Contract Documents and Bidding Assistance for the installation of isolation valves on the existing 8" and 12" force mains.

Lump Sum..... \$5,754.24

- 2.3 Final Engineering Plans for Meter Vault (CTA Task No. 31025)
Prepare Engineering Plans, coordinate with FPL for permanent service to vault, Contract Documents, Details and Bidding Assistance for the installation of a Mag Meter, meter vault, telemetry and any control panels if necessary, within the City of Hollywood Rights-of-Way.

Lump Sum..... \$13,861.60

2.4 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 BCEP&GMD and FDEP.

Lump Sum..... \$3,761.28

2.5 Test Hole Locations (CTA Task No. 33160)
Test hole locations of existing utilities to assist in design of proposed improvements. Locate up to ten (10) test holes within the Project Area with accurate horizontal and vertical information in the form of x-y-z coordinates

Lump Sum..... \$8,699.04

III. CONSTRUCTION OBSERVATION SERVICES

3.1 Limited Construction Observation (CTA Task No. 31120)
Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's, attend progress meetings 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) visits for the Project. Construction is estimated to last two (2) months for all disciplines. Review record drawings prepared by Contractor; attend final walkthrough 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..... \$11,392.44

IV. REIMBURSABLE EXPENSES

4.1 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

V. CONTINGENCY

5.1 Contingency

Contingency allowance shall be as directed by the City for additional services not identified within the Project Scope. No work shall take place under this Task without authorization from the City.

Allowance.....\$15,000.00

SUMMARY OF FEES

SURVEYING, ENGINEERING AND CONSTRUCTION OBSERVATION SERVICES.....\$54,032.44
REIMBURSABLES and CONTINGENCIES\$15,500.00
TOTAL.....\$69,532.44

Authorization to Proceed to Bid Advertisement..... 4 Months

SERVICES NOT INCLUDED

Additional services include but are not limited to the following:

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

Acceptance

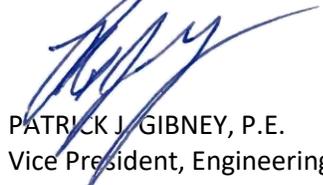
This proposal and fee schedules are based on acceptance within 30 days of the date of preparation. If not accepted by you within that time period, we reserve the right to re-evaluate the terms and conditions contained herein.

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, Engineering

City of Hollywood Sewer System Isolation Valve and Flowmeter at Park Road and Taft St
CTA Proposal No. 2019-S04.406

11/13/2019

EXHIBIT D
STAFF TIME ESTIMATE

Personnel	Hourly Rate	Hours per Task									Totals		
		Task 1.1	Task 2.1	Task 2.2	Task 2.3	Task 2.4	Task 3.1	Task 4.1	Task 5.1		Hours	Cost	
		0001	0002	0003	0004	0005	0006	0007	0008				
Administration													
Principal	\$220.00											0	\$0.00
Administrative Assistant	\$65.00											0	\$0.00
Sub Total												0	\$0.00
Engineering													
Principal Engineer	\$201.60											0	\$0.00
Sr. Supervising Engineer	\$181.44		16	2	2	2	4	4				30	\$5,443.20
Senior Engineer	\$129.60		16	8	12	12	4	4				56	\$7,257.60
Project Engineer	\$115.20			18	16	16						50	\$5,760.00
Senior CADD Technician	\$95.04			24	8							32	\$3,041.28
Sub Total												0	\$0.00
Sub Total												168	\$21,502.08
Construction													
Construction Manager	\$152.64							12				12	\$1,831.68
Senior Field Representative	\$95.04							40				40	\$3,801.60
Field Representative	\$77.76											0	\$0.00
Sub Total												52	\$5,633.28
Surveying													
Principal Surveyor	\$158.40	4					2					6	\$950.40
Professional Land Surveyor	\$135.36	8					8					16	\$2,165.76
Land Surveyor	\$112.32	16										16	\$1,797.12
Senior CADD Technician	\$95.04											0	\$0.00
Survey Laserscan Crew	\$250.56											0	\$0.00
Survey Crew (2 man)	\$129.60	16					12					28	\$3,628.80
Sub Total												66	\$8,542.08
Cost per Task		\$5,587.20	\$4,976.64	\$5,754.24	\$4,521.60	\$3,761.28	\$4,199.04	\$6,877.44	\$0.00	\$0.00			\$35,677.44
Budget per Task		\$5,587.20	\$4,976.64	\$5,754.24	\$4,521.60	\$3,761.28	\$4,199.04	\$6,877.44	\$0.00	\$0.00			\$35,677.44
Subconsultants													
Test Hole Locations - InfraMap							\$4,500.00						\$0.00
Electrical Engineering - Hillers				\$9,340.00				\$4,515.00					\$4,500.00
Subconsultants Sub Total		\$0.00	\$0.00	\$0.00	\$9,340.00	\$0.00	\$4,500.00	\$4,515.00	\$0.00	\$0.00			\$13,855.00
Total		\$5,587.20	\$4,976.64	\$5,754.24	\$13,861.60	\$3,761.28	\$8,699.04	\$11,392.44	\$0.00	\$0.00			\$500.00
Direct Expenses									\$500.00				\$500.00
Contingency									\$15,000.00				\$15,000.00
Grand Total		\$5,587.20	\$4,976.64	\$5,754.24	\$13,861.60	\$3,761.28	\$8,699.04	\$11,392.44	\$15,500.00	\$0.00			\$69,532.44