

June 8, 2023

Giselle Hipolito, E.I.
CITY OF HOLLYWOOD
Department of Public Utilities
Engineering Support Services Division
Post Office Box 229045
Hollywood, Florida 33022

Department of Public Utilities
72" Grit Effluent Repair

Dear Mr. Jiang:

As requested, we are pleased to submit our scope of services for engineering assistance to the City of Hollywood Department of Public Utilities during repair of the 72" Grit Effluent Line (the Work).

BACKGROUND

All the screened flow to the Southern Regional Wastewater Treatment Plant passes to the grit chambers and is discharged to the Influent Pump Station via a 72-inch effluent pipe. This pipeline, installed in 1968 and about 30 feet in length, is severely deteriorated to the extent that a portion recently collapsed. The pipe crown is approximately 17 feet below grade and approximately 10-12 feet below the groundwater table. Surface settlement indicates that significant soil loss has occurred above the pipe as infiltration carries the overlying soil into the pipe. Pipe condition was confirmed via diver inspection conducted on April 26, 2023. Several areas of marked deterioration were noted along the interior of the pipe crown. The most serious of these is a large section of severely deteriorated pipe associated with the heavy infiltration mentioned above. The deteriorated section features a major loss of pipe wall and appears to present a risk of imminent collapse. Immediate repair via lining was recommended.

SCOPE OF SERVICES

Task 1 – CIPP Lining Technical Services

Consultant shall attend one meeting for the Work. Consultant shall log, track, review and process shop drawings and any other submittals by the Construction Contractor necessary for the Work. Further, Consultant shall conduct periodic on-site observations of construction to assist the City in determining if the repair is proceeding in substantial accordance with the contract. It is important to note that in performance of the duties outlined herein, Consultant shall not:

- Undertake any of the responsibilities of Contractor or its subcontractors, nor direct any of their work.

- Advise on or issue directions pertaining to any aspect of the means, method, techniques, sequences or procedures of construction unless such is specifically called for in the Contract Documents.
- Advise on, or issue directions about, safety precautions and programs related to the Contractor's Work.
- Approve any interruptions or modification of CITY's facilities without the approval of CITY.

Task 2 – Contingency Services

This task provides an allowance to assist the Department of Public Utilities with additional engineering services during the Work should unforeseen circumstances be presented.

KEY ASSUMPTIONS

- Hazen shall not be responsible for the acts or omissions of any construction contractor, any construction subcontractor, the City's RPR, outside inspectors or any other person (except Hazen's own employees, subconsultants or agents) at the project site.
- Hazen shall not be responsible for construction contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto. Hazen shall issue all technical instructions to the Contractor and shall interpret all technical requirements of the Construction Contract documents.
- Hazen services during construction are provided on the basis that consulting services are minimized and that City staff provide support and direction during construction. This work order was prepared on the basis that City will provide inspection and financial tracking and administration.
- Normal 8-hour work days, 5 days per week are assumed.
- No materials testing/specialty materials observations by laboratories/specialty forms are included.
- The selected Contractor will maintain full responsibility for meeting safety and environmental regulations and conditions.
- The selected Contractor will be required to coordinate its work efforts with the City or its agent as required to allow for the timely construction observation of work.

COMPENSATION

The total cost for amended services will be provided on an as-needed basis and will not exceed \$31,611 without formally amending the scope of work.

Engineering services for the project will be performed as part of our Professional Services Agreement for General Engineering Consultant Services (Agreement) dated October 2017. Services provided by Hazen shall be limited to those services specifically identified in this work order (this work order supersedes the tasks listed in the Agreement).

We appreciate the opportunity to offer these services to the City. Please contact us if you have any questions or comments concerning this proposal.



Very truly yours,

HAZEN AND SAWYER, D.P.C.

A handwritten signature in blue ink, appearing to read "J. Philip Cooke".

J. Philip Cooke, P.E.
Senior Associate

c: L. Grant
File No. 4321/1.0

CITY OF HOLLYWOOD
 SOUTHERN REGIONAL WASTEWATER TREATMENT PLANT
 72" GRIT EFFLUENT REPAIR
 Fee Breakdown

<u>Tasks</u>	Labor Hours									<u>Subtotal</u>	<u>Fee</u>	
	<u>Senior Officer</u>	<u>Senior Associate</u>	<u>Associate</u>	<u>Senior Principal Engineer</u>	<u>Principal Engineer</u>	<u>Engineer</u>	<u>Senior Designer</u>	<u>Principal Designer</u>	<u>Senior Drafter</u>			<u>Admin Assistant</u>
PHASE 2 LABOR												
Task 1 - CIPP Lining Technical Services	16	40	0	0	40	0	0	0	0	0	96	\$ 21,511
Task 2 - Contingency Services (as needed)	0	0	0	0	0	0	0	0	0	0	0	\$ 10,000
Subtotal	16	40	0	0	40	0	0	0	0	0	96	\$ 31,511
DIRECT EXPENSES												
Out-of-pocket												\$ 100
Subtotal												\$ 100
Total												\$ 31,611
Maximum Hourly Labor Rate	274.12	261.80	212.52	181.72	166.32	123.20	151.84	147.84	95.48	73.92		