

February 12, 2014

Clece Aurelus, P.E.
CITY OF HOLLYWOOD
Department of Public Utilities
Engineering and Construction Services Division
Post Office Box 229045
Hollywood, Florida 33022

City of Hollywood
Southern Regional WWTP
RAS Pump Station No. 2 Replacement

Dear Mr. Aurelus:

As requested, Hazen and Sawyer, P.C. (CONSULTANT) is pleased to offer engineering services for the Return Activated Sludge Pump Station No. 2 replacement project at the Southern Regional Wastewater Treatment Plant (SRWWTP).

BACKGROUND

The existing RAS PS No. 2 was constructed in 1973 and is critical to the proper functioning biological process at the wastewater treatment plant. Severe cracking of the walls and revisions to the operating levels within the neighboring clarifier trough in order to meet regulatory new requirements has provided a pathway for multiple leaks to penetrate the interior of the pump station. In addition, electrical and mechanical equipment has reached the end of its useful life and requires replacement. It is the scope of this project to replace the pumps, motors, valves, variable frequency drives, and perform other miscellaneous repairs within the station.

SCOPE OF SERVICES

Task 1 – Detailed Design

CONSULTANT will evaluate the existing RAS PS No. 2 for the purpose of preparing design documents suitable for bidding. The evaluation shall include viable methods for repairing active leaks and replacement of mechanical, electrical and instrumentation infrastructure (including ventilation fans) at the pump station, interior and exterior painting including specialty floor coatings. It is envisioned that equipment will be replaced in-kind. Contract Documents (plans and specifications) for bidding/construction shall be prepared.

Task 2– Cost Opinion

CONSULTANT shall provide a cost opinion on the project budget at the 90 percent design stage.

*Clece Aurelius, P.E.
February 12, 2014*

Task 3– Meetings

CONSULTANT shall attend two meetings at the 30 and 90 percent design stage.

Task 4 – Bid Phase Services

CONSULTANT shall provide assistance to the City during the bidding phase for the project. Activities to be performed are as follows: attend a pre-bid conference, reply to bidders' questions, draft necessary addenda to the technical specifications and drawings for City distribution, review the Bid Proposal form, prepare a Bid Tabulation, check contractor references of the lowest responsive bidder, and issue a recommendation of award. Contract document packages will be produced and sold by the City.

KEY ASSUMPTIONS

- Surveying services, underground utility locates and geotechnical investigations are not envisioned
- Previous plans and specifications in their present format will be used to the extent possible
- Existing underground electrical conduit, electrical feeds, MCC building, lighting, air conditioning, hatches, pump station and roof and MCC building and roof are adequate and will not require expansion or replacement
- City of Hollywood Building Department permitting and related permitting fees are anticipated to be addressed by City staff. H&S will respond to related Hollywood Building Department RFI's prior to bidding. No other permitting is anticipated or included.
- No owner-furnished / pre-purchasing of equipment is anticipated. No prequalification of contractors or subcontractors is anticipated.
- The design approach will address minimal downtime of the existing operating facilities
- Value engineering and other outside reviews (other than City staff review) are not anticipated
- No local minority business enterprise or local small business enterprise participation is envisioned
- The City will competitively bid the project and enter into an agreement with an outside Contractor to complete the work. No prequalification of Contractors will be performed.
- The development of conformed contract documents will be performed by others
- Services during construction will be included under a separate work order

COMPENSATION

The engineering services for this project will be performed on a lump sum basis for the amount of \$65,924. A fee breakdown is attached.

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February 12, 2014*

SCHEDULE

Engineering services will be completed within 4 months from receipt of the Notice-to-Proceed and requested data.

Engineering services for the project will be performed as part of our Professional Services Agreement for General Engineering Consultant Services (Agreement) dated February 2003. Services provided by Hazen and Sawyer, P.C. shall be limited to those services specifically identified in this work order.

We look forward to your reply. In the meantime, should you have any questions, please contact us.

Very truly yours,

HAZEN AND SAWYER, P.C.

A handwritten signature in blue ink, appearing to read 'J. Philip Cooke', is positioned above the printed name.

J. Philip Cooke, P.E.
Senior Associate

c: File No. 4321-016/1.0

Attachment

CITY OF HOLLYWOOD
SOUTHERN REGIONAL WASTEWATER TREATMENT PLANT
RAS Pump Station No. 2 Replacement
Cost Breakdown

<u>Tasks</u>	<u>Senior Associate</u>	<u>Associate</u>	<u>Senior Principal Engineer</u>	<u>Engineer</u>	<u>Designer</u>	<u>Draftsman</u>	<u>Secretarial</u>	<u>Subtotal</u>	<u>Cost</u>
LABOR									
Task 1 - Detailed Design	12	32	96	36	48	64	0	288	\$ 43,229
Task 2 - Cost Opinion	2	4	4	4	0	0	4	18	\$ 2,752
Task 3 - Meetings	12	6	6	0	0	0	0	24	\$ 4,759
Task 4 - Bid Phase Services	16	0	40	0	0	0	40	96	\$ 13,314
Subtotal	42	42	146	40	48	64	44	426	\$ 64,054
DIRECT EXPENSES									
Computer (Graphics/CADD)									\$ 1,120
Reproduction									\$ 500
Out-of-pocket									\$ 250
Subtotal									\$ 1,870
Total (Lump Sum)									\$ 65,924
Maximum Hourly Raw Labor Rate*	\$66.34	\$60.32	\$54.84	\$44.02	\$42.74	\$29.41	\$22.64		
* Overall multiplier = 3.2									