



THE CITY OF KEY WEST

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MEMORANDUM

TO: Jim Scholl, City Manager
Cc: Greg Veliz, Asst. City Manager
FROM: John Paul Castro, Utilities Director
DATE: July 24, 2017

SUBJECT: Requesting Approval of Task Order 3-17 SWR from CH2M Hill Engineers, Inc. for Wastewater Collection System G.I.S. Database Development in the Amount of \$271,600.00

Action statement:

We are requesting the Commission's approval of task order 3-17 SWR from CH2M Hill Engineers, Inc. for Wastewater Collection System G.I.S. (Geographic Information System) Database Development in the amount of \$271,600 pursuant to general engineering services contract 15-208.

Background:

The City maintains a contract with CH2M Hill Engineers, Inc. for general engineering services that was established in 2012 by resolution 12-280 and extended by resolution 15-208 in 2015.

The City's wastewater infrastructure was largely replaced in the 1990's and 2000's. Most of the system is still in good working condition. As the system ages, replacement of key infrastructure will be necessary. The most efficient way to rehabilitate the system is by having the system accurately mapped and databased.

Purpose and Justification:

With such a varying infrastructure, useful life components, and rapidly changing computer technology the need for a system database has never been greater. The GIS database will include, first and foremost, a complete survey of all the City's wastewater infrastructure including force mains, gravity mains, structures, manholes, valves, and lift stations. These assets will be designed on an overlay map with attributes within the City's Geographical Information System.

Above and beyond the usefulness of system mapping the model will allow staff to examine future scenarios for repairs, pipe replacement, rain events, pump design, etc. It is in the best interest of the City to have complete knowledge of the wastewater system to efficiently design the ongoing

Key to the Caribbean – Average yearly temperature 77° F.

rehabilitation. The system will keep on hand the data necessary for future staff and contractors which will alleviate gaps in managements knowledge of the infrastructure.

Staff has reviewed the task order and believe the cost is reasonable for the efforts necessary to complete the project. The rates match the approved rates within the resolution and the labor mix has been deemed appropriate.

Financial Impact:

The sewer fund has \$300,000 allocated to this project in cost center 401-3503-535.3100 as approved for the FY17 budget.

Recommendation:

Staff recommends that the City Commission approve the task order from CH2M Hill Engineers, Inc. for wastewater collection system model design from the approved budget in the amount of \$271,600.00