



## THE CITY OF KEY WEST

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MEMORANDUM

### EXECUTIVE SUMMARY

**TO:** Jim Scholl, City Manager  
E. David Fernandez, Asst. City Manager - Operations

**FROM:** Jay Gewin, Utilities Manager

**DATE:** May 18, 2012

**RE:** **Approval of a Task Order 2-12-STM from CH2M Hill in the Amount of \$254,274 for Engineering Services for Construction Phase Services for the Stormwater Pump Station and Outfall System for George St. Drainage Area**

#### **ACTION STATEMENT:**

This resolution will approve task order 2-12-STM from CH2M Hill in the amount of \$254,274 for engineering phase services for construction phase services for the stormwater pump station and outfall system for the George St. Drainage Area.

The agreement will be executed pursuant to F.S. 287.055 (CCNA), City Code 2-841, and the City's contract with CH2M Hill approved by Resolution # 07-331 and extended and amended through Resolution 10-287.

#### **BACKGROUND:**

The George St. Pump Assisted Well and Outfall project will have a tremendous benefit for this neighborhood situated in one of the lowest-elevation areas in our city which has suffered through repeated flooding episodes in the past, particularly during the devastating hurricane season of 2005. The City had a very good public meeting with the residents of this neighborhood to discuss the project and received their support for moving forward on construction. We will have another public meeting after the construction contract is awarded.

The project consists of the construction of two pump-assisted wells located at Catherine and Ashby St., an elevated generator platform that will be located within this easement, and an emergency outfall pipeline running from the wells

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

down Catherine St., through the City right-of-way in the Horace O'Bryant Middle School parking lot, and ending at the retention pond located off of Jose Marti Dr. between the Police Station and Bayview Park.

A key component of this stormwater pump station project is the elevated generator platform. This is important because it will house a generator above flood plain elevation so the pump station can remain operational during an extended power outage. Additionally, the control panel for the pumps will be mounted on top of the platform so it also can be elevated.

The actual stormwater pumps will be located below ground in the street at the northern dead-end of Ashby St. next to Horace O'Bryant Middle School. This is a very short section of roadway that includes just two homes, one on either side of the road, with each having its own driveway on Ashby St. The fence to the middle school is at the north end of this street.

The City has received an easement from the Monroe County School District on Horace O'Bryant Middle School property for the generator platform and control panel to be situated. (Resolution # 12-126)

FEMA will be funding 75% of the construction and construction engineering costs of this project.

## **PURPOSE AND JUSTIFICATION**

The George St. Pump Station and Emergency Outfall Project involves many technical components that require the assistance of an engineer. This task order will include project management, engineering services to review RFI, RFQ's and project correspondence, project meetings, start-up, and field services to monitor the progress and performance of construction that will make sure the project drawings and terms of the construction contract are followed.

The scope of work within the task order includes the following:

- *Technical Interpretation* – CH2M Hill will provide up to 80 hours to assist in the technical interpretations of the drawings, specifications, and contract documents, and evaluate requested deviations from the approved design or specifications.
- *Monthly Meetings* – CH2M Hill will coordinate 15 project meetings over the term of the project. They will also coordinate the pre-construction meeting.
- *Review of Shop Drawings and Other Materials* – CH2M Hill will review up to 90 shop drawings and other construction materials
- *Specialty Inspections on Site* – CH2M Hill will be on-site to conduct 3 specialty inspections by the engineer, and 24 specialty inspections by a Sr. Construction Inspector.
- *Final Inspections and Start-Up* – CH2M Hill will prepare a punch-list, substantial and final completion inspection, and will provide on-site start-up assistance. This will include a total of two two-day visits. They will also provide record drawings incorporating the mark-ups of the construction contractor.

The City or OMI does not have the staff available with the technical expertise required to

perform this work independently. Staff has reviewed this submittal and found it consistent with the new hourly rates established in the City's contract extension with CH2M Hill.

Further, Staff does not feel that the hours that will be billed under this task order are disproportionately allotted to higher-wage management staff. In fact, the Principal Project Manager and Sr. Project Manager combined only account for approximately 7.1% of the hours allotted in this task order.

The task order also includes CH2M Hill staff's trips to Key West over the course of the project. City staff feels that this number of trips, and the associated costs, are reasonable to assure that the consultant staff has sufficient oversight for the completion of the project.

The City plans to utilize Perez Engineering for additional project management services relating to the outfall pipeline.

**OPTIONS / ADVANTAGES / DISADVANTAGES:**

1. The City Commission can award the task order to CH2M Hill and proceed with the George St. Stormwater Pump Station and Emergency Outfall Project on a timely basis. The contractor has successful experience working with the City on other projects of a technical nature, and has very capable staff to ensure successful project completion. This option is recommended by City Staff, as the neither City nor OMI have the staff available with the ability to perform the scope of work included in this task order.
2. The City Commission can decline the task order from CH2M Hill. This option is not recommended by Staff, as the City will not be able to utilize the engineering services that are essential in completing the project. City Staff believes that CH2M Hill is the firm that can best manage the George St. Drainage Project of the engineering firms we have under contract.

**FINANCIAL IMPACT:**

FEMA will be covering 75% of the construction costs of this project. The funding breakdown for this task order for CH2M Hill would be as follows:

|  |                     |
|--|---------------------|
| City Share (25% of Costs/Acct. # 402-3802-538-65/ST0802) ..... | \$63,568.50         |
| <u>FEMA share (75% of Costs).....</u>                          | <u>\$190,705.50</u> |
| TOTAL.....   | \$254,274.00        |

The total project costs for the George St. Stormwater Pump Station and Outfall Project Phase II funding are as follows:

|   |                    |
|---|--------------------|
| Wharton-Smith Bid for Construction.....                       | \$3,242,000.00*    |
| CH2M Hill Construction Engineering.....                       | \$254,274.00       |
| Perez Engineering Construction Engineering.....               | \$71,100.00        |
| <u>Re-design of Outfall Pipeline (already completed).....</u> | <u>\$69,894.00</u> |
| TOTAL   | \$3,637,268.00     |

|   |                       |
|---|-----------------------|
| City Share(25% of Non-Contingency Costs/Acct. # 402-3802-538-65/ST0802) ..... | \$1,059,317.00*       |
| <u>FEMA share (75% of Costs).....</u>   | <u>\$2,577,951.00</u> |
| TOTAL.....  | \$3,637,268.00        |

*\*Includes a \$200,000 contingency allowance during construction which can be submitted to FEMA for possible 75% funding at conclusion of project.*

These figures are within the \$4.1 million total the City has budgeted for the project.

**RECOMMENDATION:**

Staff recommends that the City Commission select option 1, approving task order 2-12-STM from CH2M Hill in the amount of \$254,274 for construction phase services for the stormwater pump station and outfall system for the George St. Drainage Area.