



THE CITY OF KEY WEST

3140 Flagler Ave Key West, FL 33040 (305) 809-3792

EXECUTIVE SUMMARY

TO: Jim Scholl, City Manager

Cc: E. David Fernandez, Asst. City Manager – Operations
Mark Finigan, Asst. City Manager - Administration

FROM: Doug Bradshaw, Senior project Manager

DATE: April 30, 2012

SUBJECT: Engineering Services for Design, Permitting, and Bid Phase Services for Bulkhead Repair/Replacement at Zero Duval and Berthing Improvements to the Mallory Square T-Pier by CH2M Hill.

ACTION STATEMENT:

This request is to approve Task Order # 3-12 Ports in the Amount of \$184,984 from CH2M Hill to provide engineering for the design, permitting, and bid phase services for the proposed improvements to repair and/or replace the bulkhead at Zero Duval and berthing improvements to the Mallory Square T-Pier.

The engineering services for these two (2) projects are being combined in order to produce one bid document for construction. By combining the projects they City will realize cost savings for design and construction. 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:

Project 1: Zero Duval-The City of Key West has completed a preliminary investigation of the seawall and stormwater outfall piping at Zero Duval as well as completed the geotechnical investigation. The investigation concluded that the seawall is failing and material from behind the wall is being washed out causing the land side surface to sink. Additionally the existing stormwater outfall pipe is becoming dislodged from the wall and does not appear to be functioning as intended.

Project 2: Mallory T-Pier- In order to address the needs to safely and securely dock cruise ships and other vessels at Mallory Wharf and use the T-Pier as part of the berthing plan and for passenger and crew access, improvements must be made. It is recognized that currently the T-Pier does not meet the structural load capacity being placed by cruise ships that are moored there. Improvements need to be made to the

mooring structures and fenders to take the berthing loads off of the existing T-Pier structure.

This task order includes the following

- Collection of field data including survey
- Design including full set of construction drawings and bid documents
- Benthic Survey and coral relocation plan
- Permitting from SFWMD and USACE
- Bid phase services

PURPOSE & JUSTIFICATION:

The seawall and stormwater pipe are failing. The seawall failure is causing the existing roadway and brick walkway to subside. The stormwater pipe flap is not operating as intended and is allowing stormwater to back up into the street during certain times. The installation of the new seawall will stabilize the land surface and the new internal flap for the stormwater pipe will allow for correct stormwater flow.

At Mallory, the T-Pier is being subject to structural loads by larger cruise ships that based on the age and condition of the T-Pier it cannot continue to take. By extending the fenders on the existing berthing dolphins and construction of a new berthing dolphin out from the T-Pier, these loads from cruise ships will be eliminated.

OPTIONS:

1. Approve the Engineering Services Task Order # 3-12 Ports in the Amount of \$184,984 from CH2M Hill to provide engineering for the design, permitting, and bid phase services for the proposed improvements to repair and/or replace the bulkhead at Zero Duval and berthing improvements to the Mallory Square T-Pier.
2. Disapprove the task order.

Option 1 allows for the City to begin the design phase of the projects with the goal of completing the construction in late summer/early fall. Staff feels that CH2M Hill is the most qualified firm currently under contract to complete the designs. If the task order is not approved, the City will need to go through the full RFQ process in order to hire a marine engineering firm thus delaying the projects.

FINANCIAL IMPACT:

The 2011-2012 budget includes \$1,200,000 (account #101-1900-519-6300-EN1002) for Zero Duval Seawall Replacement and Mallory Pier Fender Rearrangement. The total cost of the design, permitting, and bid phase services is \$184,984.

RECOMMENDATION:

City staff recommends option # 1: Approve the Engineering Services Task Order # 3-12 Ports in the Amount of \$184,984 from CH2M Hill to provide engineering for the design, geotechnical, permitting, and bid phase services for the proposed improvements to repair and/or replace the bulkhead at Zero Duval and berthing improvements to the Mallory Square T-Pier.