



## THE CITY OF KEY WEST

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# EXECUTIVE SUMMARY

**TO:** Jim Scholl, City Manager

**FROM:** Jim Bouquet, Director of Engineering

**CC:** Greg Veliz, Assistant City Manager  
Mark Finigan, Finance Director

**DATE:** May 24, 2017

**SUBJECT:** Rest Beach Stabilization

### **ACTION STATEMENT**

Approve Tetra Tech Inc. (Tetra Tech) proposal in the amount of \$86,035.00 to provide Construction Engineering Inspection (CEI) services for the Rest Beach stabilization project to include ensuring proper installation of a seawall and that all provisions of the contract documents are met. Approve any necessary budget transfers/amendments.

### **BACKGROUND**

Considering increased cost due to permit required mitigation and future sand placements, as well as the need to protect the existing shoreline from future erosion, the City of Key West (City) Commission previously approved (Resolution 16-066) a proposal from Tetra Tech to provide planning, engineering, design and permitting to armor (e.g., riprap) the sloped shoreline along Rest Beach. The Florida Department of Environmental Protection (FDEP) and Fish and Wildlife Commission (FWC) would not approve a permit to armor the beach nor site a sheet pile seawall at the Mean High Water (MHW) line. As a result, the City directed Tetra Tech to design a sheet pile wall 50 feet upland of MHW to protect Atlantic Boulevard and avoid the need to obtain a FDEP permit. After completion of final design documents, FDEP reconsidered the permit application and offered an alternative to now allow a seawall at MHW. The City agreed to this location, which will maximize and protect upland lands (including Atlantic Boulevard) and facilitate reestablishment of recreational walkways.

To complete the required FDEP permit modification and redesign, the City requested Tetra Tech prepare a fee proposal to provide the City with additional engineering services to complete

construction drawings and bid documents for the Rest Beach seawall. The proposal was also requested to include estimated fees for CEI services.

Total not-to-exceed fee as proposed by Tetra Tech is \$86,035.00. This current request includes \$20,433 in additional design costs to convert to the FDEP preferred seawall solution and \$65,602 for CEI services (Inc. but not limited to submittal review, construction site visits, closeout certification and record drawings). Work will be performed on a time and materials basis in accordance with the Environmental Engineering Services Agreement between Tetra Tech and the City as authorized under Resolution 14-359.

### **PURPOSE AND JUSTIFICATION**

The existing sloped shoreline along Rest Beach is experiencing significant erosion due to wave and wind action. A seawall solution will maximize preservation of upland area for citizen access while ultimately protecting the integrity of Atlantic Boulevard. Tetra Tech will provide design and CEI services to construct a seawall along the shoreline.

Seawall installation at Rest Beach will mitigate further loss of uplands and is consistent with the 2011 Key West Strategic Plan Infrastructure Goal # 3, *Parks and recreation areas are accessible to all residents and visitors*, and Goal #4, *Long term sustainability of the City's hard assets*.

### **FINANCING**

The proposed fee of \$86,035.00 will be funded from Account No. 101-1900-519-4600 Rest Beach Seawall (Project IS19001602).

Staff has reviewed proposed fee and rates and found commensurate with the required scope of work.

### **RECOMMENDATION**

Engineering Services recommends approving Tetra Tech's proposal in the amount of \$86,035.00 to provide additional design and CEI services for the Rest Beach stabilization project and approve any necessary budget transfers/amendments.