




## MEMORANDUM

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Date: October 12, 2023

To: Honorable Mayor and Commissioners

Via: Albert P. Childress   
City Manager

From: Gary Volenec, P.E.  
Engineering Director

Subject: **Approving a Task Order for Design of the Southernmost Point Seawall Repair to Artibus Design, LLC**

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### **Introduction**

Approve a Task Order to Artibus Design, LLC for \$86,012.00 for Design, Bidding and Construction Administration services for repairs to hurricane damage at the Southernmost Point seawall and authorize the City Manager to execute the contract upon consent of the City Attorney and execute any necessary budget transfers.

### **Background**

In September of 2022, Hurricane Ian hit Key West as a category 3 hurricane. Significant storm surge and wave action impacted the City, including the Southernmost Point. Post-storm evaluations performed by City staff discovered cracking and settling of a portion of the concrete decking at the corner of the Southernmost Point. The area was barricaded for safety purposes until the damage could be further investigated.

Artibus Design, LLC, a local structural engineering firm, was tasked with evaluating the cause of settlement and condition of the seawall under the Continuing Services Contract for General Engineering Services approved by Resolution 23-029. Artibus Design, LLC worked with City staff to remove a portion of the decking to evaluate conditions below the decking and the extent of damage. The findings of this investigation are summarized in the *Structural Evaluation Report for existing Point Buoy*, which consists of the assessment of the structural damage at the Southernmost Point location. Spalled concrete and eroded concrete through wave-driven seawater was identified at the seawall and Telegraph Hut. Additionally, erosion of material behind the seawall and below the decking resulted in settlement and subsequent breaking of the concrete decking.

### **Procurement**

The proposed Task Order from Artibus Design, LLC utilizes the Continuing Services Contract for General Engineering Services. This Task Order includes permitting and design for complete replacement of the seawall cap and seawall, replacement of the damaged decking, replacement of subgrade fill, and new riprap installation seaward to protect the new construction and mitigate further damage. It also includes bidding services and construction administration.

The overall project is budgeted under account 101-1900-519-6300 for FY23/24 in the amount of \$1,200,000, Project Number IS19002401. City staff have discussed the project with FEMA regarding possible grant funding in the amount attributed to hurricane damage and damage mitigation, which has been estimated as roughly 35% of the project budget.

### **Recommendation**

The City Manager's Office recommends the approval of a Task Order to Artibus Design, LLC for Design, Bidding and Construction Administration services for repairs to hurricane damage at the Southernmost Point seawall in the amount of \$86,012.00 and authorize the City Manager to execute the contract upon consent of the City Attorney. Staff also recommends authorizing the City Manager to execute any necessary budget transfers.