

**INDIAN RIVER COUNTY, FLORIDA
BOARD MEMORANDUM**

CONSENT

TO: Jason E. Brown
County Administrator

THROUGH: Richard B. Szpyrka, P.E.
Public Works Director

FROM: Kendra Cope, M.S.
Coastal Resources Coordinator

SUBJECT: **Work Order No. 2018007–3, Coastal Technology Corporation
Sector 7 Beach and Dune Re-nourishment – Reconnaissance Survey**

DATE: August 1, 2019

BACKGROUND

On January 9, 2018, the Board approved a contract with Coastal Technology Corporation (Coastal Tech) for professional coastal engineering and biological support services related to the management and renourishment of the Sector 7 (Porpoise Point) beach project area. The Sector 7 project area is a 2.2-mile section of shoreline that extends from Seagrove south to the Moorings in the southern portion of the County. The Sector 7 project area sustained damage from Hurricane Matthew (2016) and Hurricane Irma (2017) and is in need of a large-scale beach and dune nourishment project to maintain protection to upland properties and infrastructure.

In order to expedite the permitting process staff instructed Coastal Tech to design a project applying the previously permitted 2007 beach fill template to the current beach conditions. The FDEP permit application was submitted on January 25, 2019 and ACOE permit application on February 1, 2019. On February 22, 2019 Indian River County received a Request for Additional Information (RAI) from FDEP related to the Sector 7 Project application. The RAI required additional hardbottom delineation through a reconnaissance survey with diver verified transects for the purpose of providing current conditions and the landward limit of the nearshore hardbottom prior issuing a permit. County Staff and Coastal Tech held telephone conferences with FDEP staff on March 12, 2019 and June 3, 2019 to reduce the scope of the required reconnaissance survey to provide the minimum amount of information to adequately identify the current conditions of the nearshore hardbottom resources. Information gathered from this survey will allow Coastal Tech to maximize fill placement in their revised beach fill template while avoiding adverse impacts to the nearshore hardbottom habitat.

DESCRIPTION AND CONDITIONS

The proposed Work Order No. 2018007-3 provides professional services, required for permitting, to complete a reconnaissance survey and habitat characterization report for the Sector 7 Renourishment project. Data collected and analyzed through these services will provide a current status update of the nearshore hardbottom within the project area and will allow Coastal Tech to maximize fill placement in their revised beach fill template while avoiding adverse impacts to the nearshore hardbottom habitat.

BCC Agenda Item
Sector 7 Reconnaissance Survey
BCC Agenda Item for August 13, 2019

Work Order No. 2018007-3 is for a lump sum amount of \$119,087. Services provided include:

- Side-Scan Sonar
- Diver Verified Hardbottom Survey
- Analysis and Reporting

FUNDING

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue. Funding for the required reconnaissance survey in the amount of \$119,087 is budgeted and available for the Sector 7 Beach Restoration Project in the Beach Restoration Fund/Sector 7 Beach Renourishment/ Hurricane Matthew, Account No. 12814472-066512-17001.

State and Federal Cost-Share:

The County has received additional supplemental funding from Florida Department of Environmental Protection (FDEP) due to losses incurred by Hurricane Irma within the Sector 7 project area. FDEP Grant 19IR2 totals \$307, 538.00.

The County currently has two Project Worksheets (PW) issued by FEMA for Sector 7 Beach and Dune Re-nourishment. Both the Hurricane Matthew PW #616 and the Hurricane Irma PW #3018 are under FEMA/Environmental Planning & Historic Preservation (EHP) review. Once awarded, this FEMA funding, in the amount of approximately \$2.9 Million, will aid the County in repairing associated storm losses within the project area.

RECOMMENDATION

The recommendation of staff is for the Board to approve Work Order No. 2018007-3 to the contract with Coastal Technology Corporation and authorize the Chairman to sign on behalf of the County.

ATTACHMENT

Coastal Technology Corporation Work Order No. 2018007-3

APPROVED AGENDA ITEM FOR: AUGUST 13, 2019