

INDIAN RIVER COUNTY, FLORIDA BOARD MEMORANDUM

TO: Jason E. Brown, County Administrator

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

THROUGH: Eric Charest, Natural Resources Manager

SUBJECT: **Sector 3 Beach and Dune Restoration Project (IRC1925) APTIM, Work Order No. 2018006-13, Post Construction Environmental Monitoring (Phase 1 Year 1 Monitoring and Phase 2 Immediate Post Construction Monitoring)**

DATE: February 9, 2022

DESCRIPTION AND CONDITIONS

On January 9, 2018, the Board of County Commissioners (BCC) approved a contract with Aptim Environmental & Infrastructure, Inc. (APTIM) for professional coastal engineering and biological support services related to the management and nourishment of the Sector 3 (Wabasso Beach) Beach and Dune Restoration Project. The Sector 3 project area is a critically eroded 6.6-mile section of shoreline that extends from the Seaview Subdivision in the north to just south of the Turtle Trail beach park. area sustained erosional damage from Hurricane Matthew (2016), Irma (2017), and Dorian (2019) creating the need for repair.

Construction of the Sector 3 Beach and Dune Restoration project was split out into 2 phases, with construction of Phase 1 constructed in 2021 and Phase 2 construction currently underway with an anticipated completion date of April 30, 2022. Phase 1 represented approximately 3.7 miles in the northern portion of the project area, with Phase 2 beginning at Wabasso Beach Park and continuing south approximately 2.9 miles.

Regulatory permits issued for the beach restoration activities identify post-construction related monitoring to be performed on a set schedule for several years following completion of construction. These monitoring activities are evaluated to demonstrate compliance with permit conditions. In the case of the Sector 3 Beach and Dune Restoration Project, post-construction sea turtle and shorebird nest monitoring is required. Beach restoration permits require additional monitoring and reporting when compared to the County's Habitat Conservation Plan (HCP) monitoring requirements. Post-construction monitoring also includes the biological monitoring of the nearshore hardbottom resources adjacent to the project area. This permit required post-construction hardbottom monitoring is not a part of the routine semi-annual physical surveys or HCP monitoring.

Due to the phased approach the County took with the Sector 3 Project, immediate post-construction sea turtle and shorebird monitoring was performed for the constructed area of

Phase 1 during this past nesting season. As Phase 2 construction is intended to wrap up this April, immediate post-construction sea turtle and shore-bird monitoring will be required this season for that area of construction. Year 1 post-construction Sea Turtle and Shorebird monitoring is required for the Sector 3, Phase 1 portion of the project this season. Construction related hardbottom monitoring is required for the entire length of Sector 3 (Year 1 post-construction for Phase 1 and immediate post-construction for Phase 2).

The proposed Work Order No. 2018006-13, in the amount of \$416,681.67, provides professional services for permit required construction related environmental monitoring for Phase 1 and Phase 2 which includes:

- Year 1 Post-Construction Biological Monitoring of Nearshore Hardbottom and Sea Turtle/Shorebird Monitoring for Phase 1. **(Task 1)**
- Immediate Post-Construction Biological Monitoring of Nearshore Hardbottom and Sea Turtle/Shorebird Monitoring for Phase 2 **(Task 2)**

All subsequent annual post construction environmental monitoring of the Sector 3, Phase 1 and Phase 2 Project areas will be addressed through future work orders.

FUNDING

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue, FEMA project worksheets and a FDEP grant. Funding for construction related environmental monitoring (Task 1) in the amount of \$226,548.02 is budgeted and available for the Sector 3 Beach Nourishment Project in the Beach Restoration Fund/Sector 3 Beach Renourishment/Hurricane Matthew, Hurricane Irma and Hurricane Dorian, Account No. 12814472-066514-17001. Funding for post-construction related monitoring (Task 2) in the amount of \$190,133.65 is budgeted and available for the Sector 3 Beach and Dune Nourishment Project in the Beach Restoration Fund/Sector 3 Post Construction Monitoring Account No. 12814472-033490-05054.

Account Name	Account No.	Amount
Sector 3 Beach Renourishment	12814472-066514-17001	\$226,548.02
Sector 3 Post Construction Monitoring	12814472-033490-05054	\$190,133.65

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-13 in the total lump sum amount of \$416,681.67. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-13.

ATTACHMENTS

- APTIM WO #2018006-13
- WO #2018006-13 Agreement Execution

APPROVED AGENDA ITEM FOR: FEBRUARY 15, 2022