

INDIAN RIVER COUNTY, FLORIDA BOARD MEMORANDUM

TO: Michael Zito, Interim County Administrator

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

THROUGH: Eric Charest, Natural Resources Manager

SUBJECT: **Sector 3 Beach and Dune Restoration Project (IRC1925) APTIM, Work Order No. 2018006-14, Post Construction Environmental Monitoring (Phase 1 Year 2 Monitoring and Phase 2 Year 1 Post Construction Monitoring)**

DATE: February 9, 2023

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 constructed in 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, Year 1 post-construction sea turtle and shorebird monitoring was performed for the constructed area of Phase 1 during this past nesting season (2022). As Phase 2 construction was completed in 2022, immediate post-

construction sea turtle and shore-bird monitoring was performed in 2022. Year 2 post-construction Sea Turtle and Shorebird monitoring is required for the Sector 3, Phase 1 portion of the project this season, with Year 1 post-construction Sea Turtle and Shorebird monitoring being required for the Sector 3, Phase 2 portion of the project this season. Construction related hardbottom monitoring is required for the entire length of Sector 3 (Year 2 post-construction for Phase 1 and Year 1 post-construction for Phase 2).

The proposed Work Order No. 2018006-14, in the amount of \$419,341.60, provides professional services for permit required construction related environmental monitoring for Phase 1 and Phase 2 which includes:

- Year 2 Post-Construction Biological Monitoring of Nearshore Hardbottom and Sea Turtle/Shorebird Monitoring for Phase 1. **(Task 1)**
- Year 1 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. Funding for post-construction related environmental monitoring (Tasks 1 and 2) in the amount of \$419,341.60 is budgeted and available in the Beach Restoration Fund/Sector 3 Post Construction Monitoring, Account No. 12814472-033490-05054.

Account Name	Account No.	Amount
Sector 3 Post Construction Monitoring	12814472-033490-05054	\$419,341.60

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-14 in the total lump sum amount of \$419,341.60. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-14.

ATTACHMENTS

APTIM Work Order No. 2018006-14
Work Order No. 2018006-14 Agreement Execution

APPROVED AGENDA ITEM FOR: FEBRUARY 21, 2023