

INDIAN RIVER COUNTY, FLORIDA BOARD MEMORANDUM

TO: Jason E. Brown, County Administrator

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

THROUGH: Eric Charest, Natural Resources Manager

FROM: Quintin Bergman, M.S. Environmental Specialist

SUBJECT: **Sector 3 Beach and Dune Restoration Project (IRC1925) APTIM, Work Order No. 2018006-9, Immediate Post-Construction Environmental Monitoring**

DATE: February 3, 2021

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 currently underway and representing approximately 3.6 miles in the northern portion of the project area. Phase 1 is anticipated to be completed by April 30, 2021. Phase 2 will be the remainder of the project and is anticipated to be constructed in the winter of 2021/2022.

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 is taking with the Sector 3 Project, post-construction sea turtle and shorebird monitoring is only required for the areas that receive sand (Phase 1). However, construction related hardbottom monitoring is required for the entire length of Sector 3 (post-construction for Phase 1 and pre-construction for Phase 2).

The proposed Work Order No. 2018006-9, in the amount of \$318,818.51, provides professional services for permit required construction related environmental monitoring for Phase 1 and Phase 2 which includes:

- Immediate Post-Construction Biological Monitoring of Nearshore Hardbottom for Phase 1 and pre-construction Biological Monitoring of Nearshore Hardbottom for the anticipated Phase 2 (**Task 1**)
- Immediate Post-Construction Monitoring of Sea Turtle and Shorebird Nesting for Phase 1 (**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 \$185,539.43 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 \$135,279.08 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	\$183,539.43
Sector 3 Post Construction Monitoring	12814472-033490-05054	\$135,279.08

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-9 in the total lump sum amount of \$318,818.51. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-9.

ATTACHMENTS

APTIM Work Order No. 2018006-9
Work Order No. 2018006-9 Agreement Execution

APPROVED AGENDA ITEM FOR: FEBRUARY 16, 2021