

HIDEAWAY BEACH EROSION CONTROL PROJECT
2026 MONITORING SURVEY SCOPE OF SERVICES
CEC FILE NO. 26.020
February 9, 2026

The scope of services presented herein is designed for Coastal Engineering Consultants, Inc. (Engineer) to assist the City of Marco Island (City) and the Hideaway Beach District Board (District) perform the annual monitoring, surveys and reporting. All monitoring activities as described herein shall be conducted in accordance with the Physical Monitoring Plan (PMP) dated June 28, 2012, and the current version of the “Monitoring Standards for Beach Erosion Control Projects” as established by the DEP Bureau of Beaches and Coastal Systems (BBCS). Survey data will reference horizontal datum, Florida West Zone 1983, and vertical datum, NAVD88. The azimuths and line lengths shall coincide with the approved PMP.

SCOPE OF SERVICES

TASK 1 PHYSICAL MONITORING SURVEY

Hideaway Beach and Collier Creek Profiles, Mean High Water: Establish horizontal and vertical control, one-time, on the uplands within the Project. Field verify control information utilized in the survey.

Conduct monitoring survey of Hideaway Beach profiles between monuments H-1 and H-16 and Collier Creek sections between monuments C-1 and C-11 (Figure 1).

Traditional beach and hydrographic survey methods will be used to collect beach profile data. Wading beach profile portions will be conducted using standard techniques from the dune across the beach and seaward to a depth of approximately -3 feet NAVD88. The offshore, hydrographic portions of the profiles will be conducted utilizing a survey vessel typically outfitted with a digital fathometer, a Differential Global Positioning System (GPS), and navigational software. An approximate 50-foot overlap will occur between the seaward terminus of the beach profiles and the landward origination of the hydrographic profiles in order to verify correct equipment operations. Fathometer calibrations via ‘bar checks’ will be performed periodically during surveys. Tidal fluctuations will be measured and compensated for on the survey vessel using Real Time Kinematic (RTK) GPS technology. Tidal data will be recorded for the duration of the vessel surveys and applied during data reduction.

Elevations of the beach profiles will be obtained at appropriate intervals and at all noticeable breaks in grade (greater than 1 foot vertically). Soundings from offshore portions of beach profiles will be obtained at appropriate intervals. Survey transects will originate at stations in the upland area of the beach corresponding to the established monuments and extend offshore along the appropriate azimuth (degrees clockwise from magnetic north). Monitoring of the beach and offshore profiles shall include the beach fill areas along with the State’s property extending to the jetty (H-14 to H-16).

Conduct monitoring survey of the Mean High Water (MHW) from the southern end of the South point fill to the terminal jetty / west side of Collier Creek; and along Sand Dollar Island between the limits of the Nearshore Borrow Area.

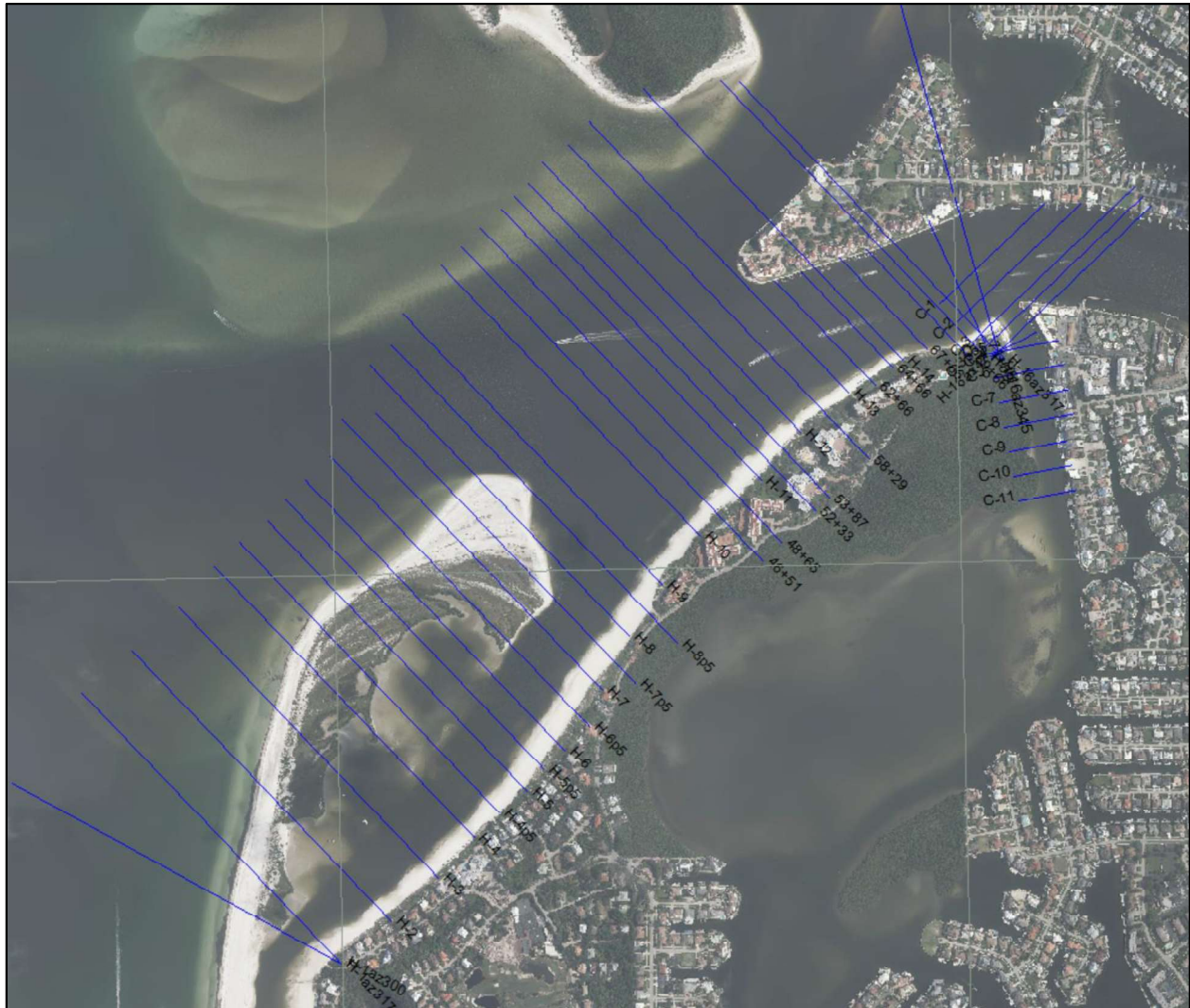


Figure 1. Hideaway Beach and Collier Creek Survey Plan.

Sand Dollar Island and Tigertail Lagoon Profiles: Perform topographic and bathymetric surveys requested in support of the Tigertail Lagoon / Sand Dollar Island Restoration program. The survey will include Sand Dollar Island monuments R-128 through R-135 plus additional half monuments at R-127.5, R-128.5, R-129.5, and R-131.5 (Figure 2). The survey lines will extend offshore approximately 3,000 feet from MHW. Conduct monitoring survey of three (3) supplemental lines within Tigertail Lagoon along historical alignments at H-1.5, H-2.5, and H-3.5.

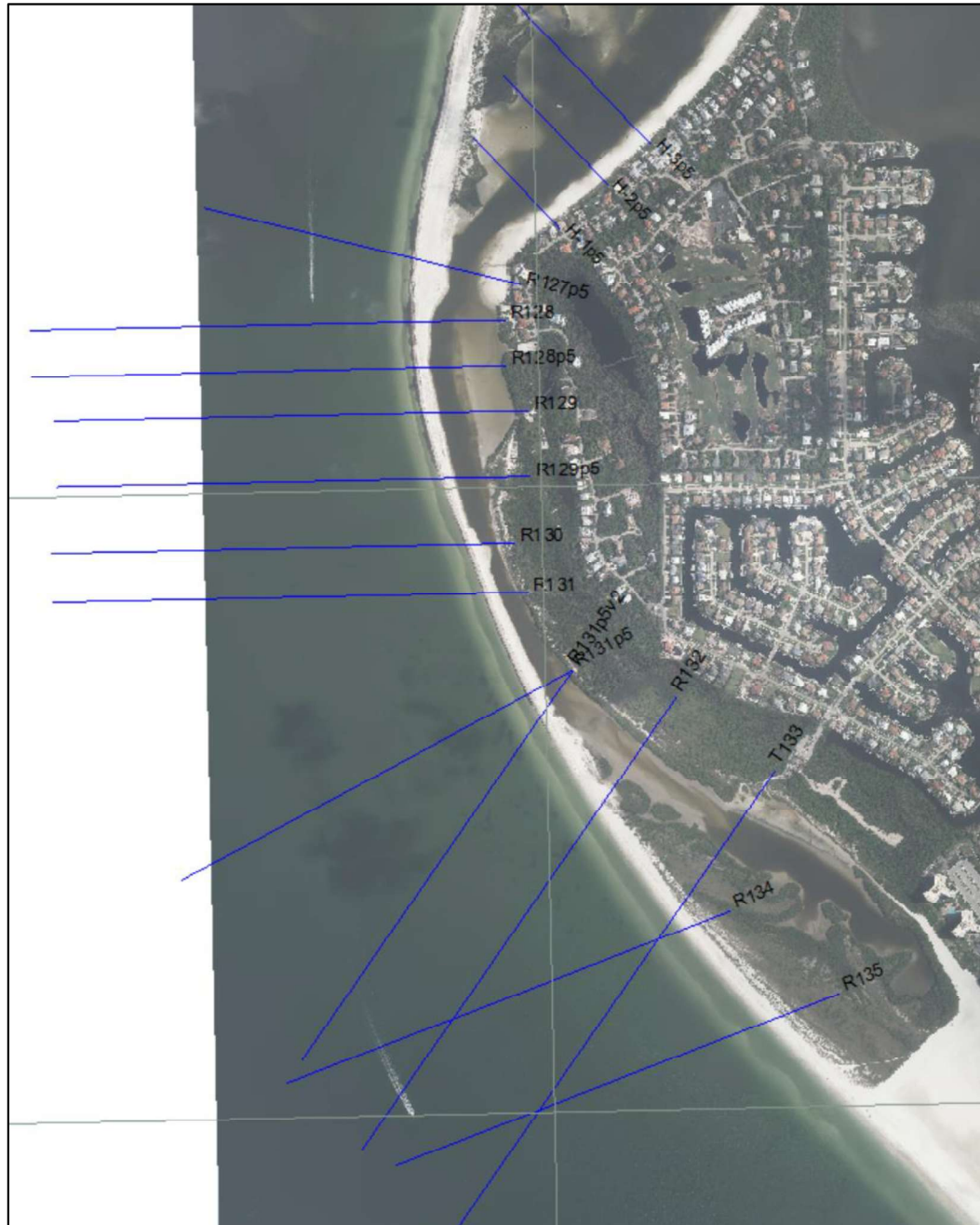


Figure 2. Sand Dollar Island and Tigertail Lagoon Survey Plan.

Aerial Photography: Contract with an aerial flight company to obtain scale rectified aerials of the Project area.

Annual Monitoring Report: Prepare and submit an engineering report to the District within 90 days following completion of the annual monitoring survey. The report shall include:

- signed and sealed survey report,
- analysis for patterns, trends, or changes between surveys and for cumulative changes over time,
- evaluation of the erosion and accretion rates occurring between the initial post-construction survey (2019) and the annual monitoring survey (2026), assessment of the volume of fill remaining within the Project area, evaluation of the adjustment of the beach fill and volume accumulations outside of the Project area, and assessment of alongshore and cross-shore fill movement, and
- Adaptive Management Plan Analysis as described in PMP.

TASK 2 OFFSHORE BORROW AREA / DISPOSAL AREA

Conduct the bathymetric survey to obtain existing elevations within the Big Marco-Capri Pass Offshore Borrow Area / Disposal Area (Figure 3). Profiles shall be spaced at intervals no greater than 200 feet.

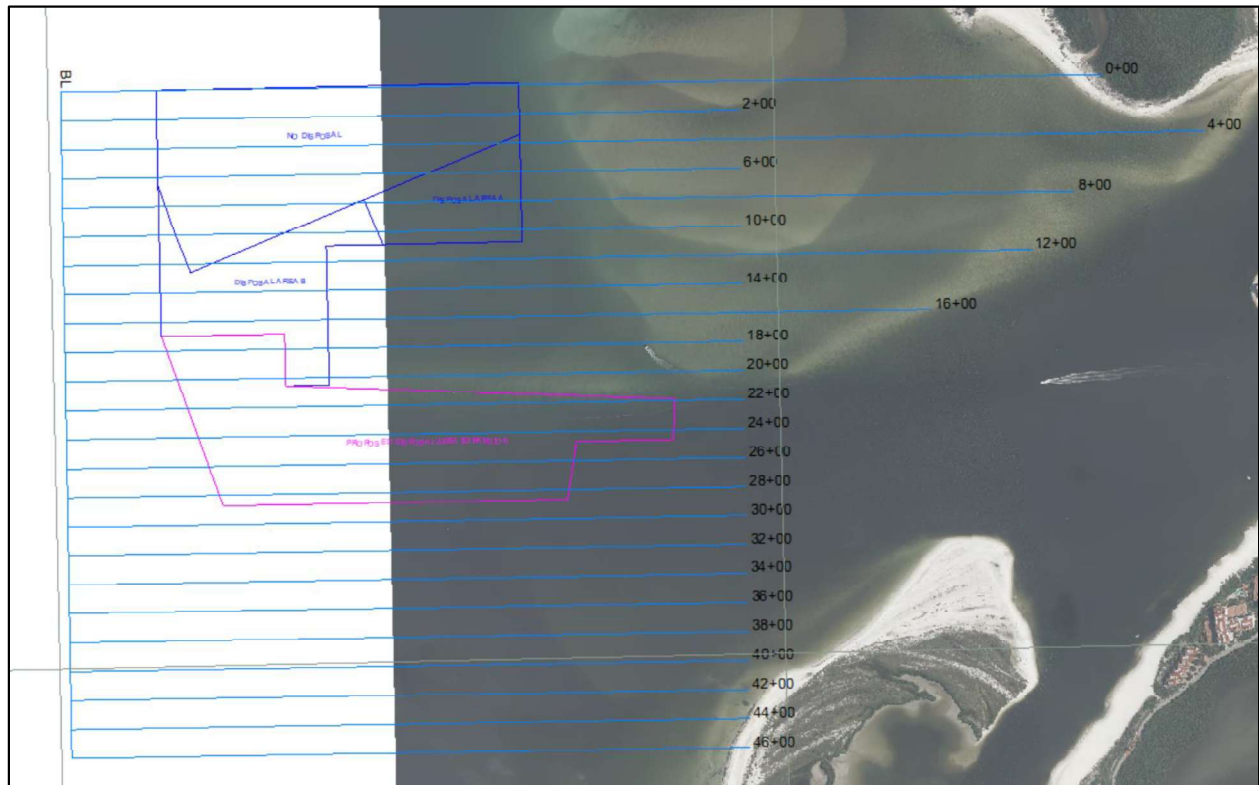


Figure 3. Offshore Borrow Area / Disposal Area Survey Plan.

TASK 3 DISTRICT AND CITY SUPPORT SERVICES

This task includes coordination with the City and District including attending Board meetings; preparing and giving presentations; review of reports and permits; providing technical support and recommendations; and written or phone correspondence in reference to the Project.

TASK 4 (OPTIONAL) NEARSHORE BORROW AREA

Conduct bathymetric survey of Nearshore Borrow Area along historic survey lines spaced no more than 100 feet apart (Figure 4).

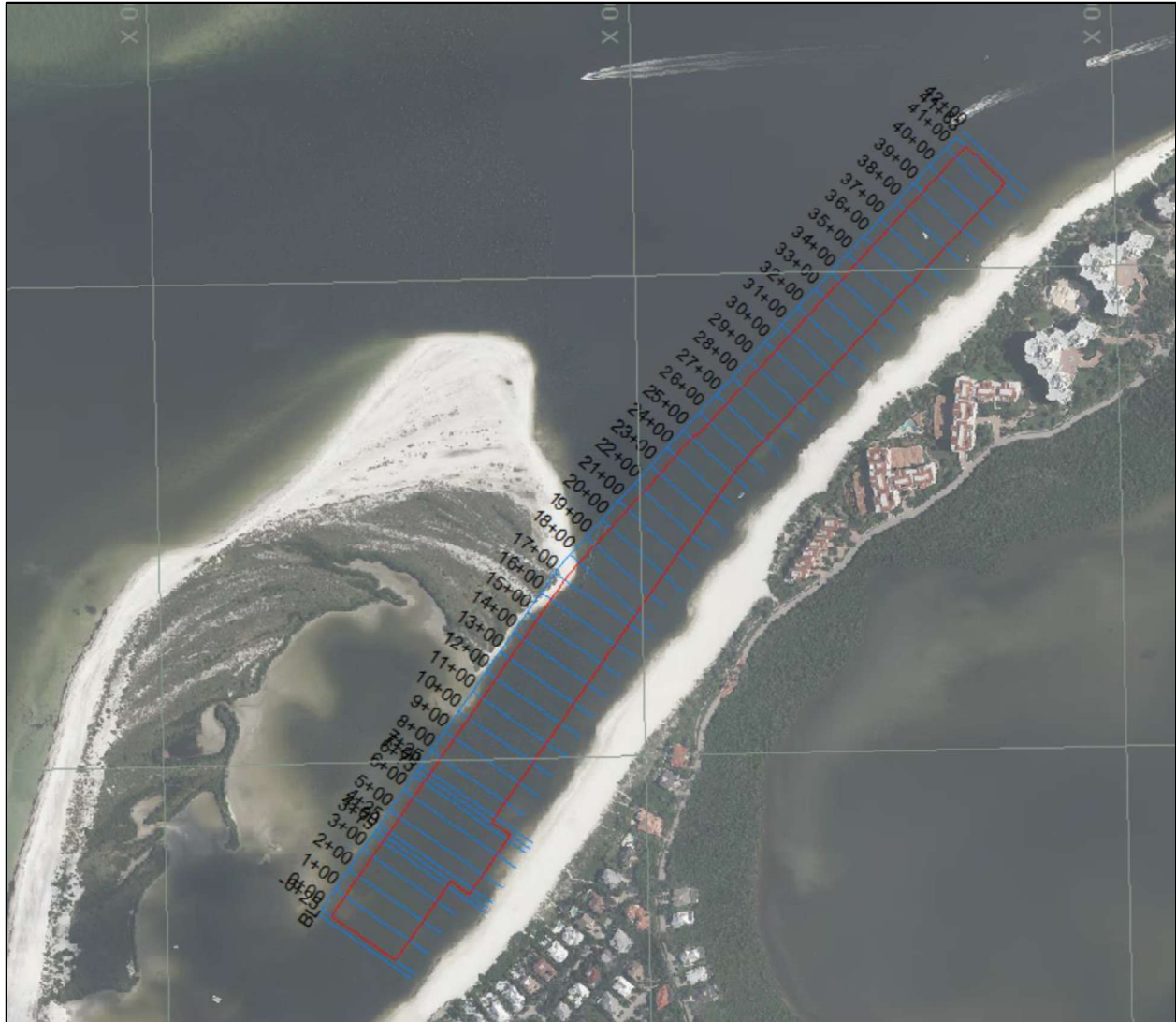


Figure 4. Nearshore Borrow Area Survey Plan.

DELIVERABLES

For all specified deliverables, Consultant will prepare and submit to the County a draft deliverable in electronic format (e.g., pdf file). Consultant will review the draft deliverable with the County, make one (1) round of revisions as may be identified by the County, and submit one (1) hard copy and one (1) digital copy in the appropriate formats (e.g., Word, Excel, PowerPoint, AutoCAD, shape file, etc.) of all deliverables to the County. The following is a list of deliverables to be provided.

Task 1

- Beach Profile Survey Field Notes, Plots, Data Files
- Sand Dollar Island and Tigertail Lagoon Survey Field Notes, Plots, Data Files
- Aerial Photographs and Survey Report
- Annual Monitoring Report

Task 2

- Offshore Borrow Area / Disposal Area Survey Field Notes, Plots, Data Files

Task 3

- Stakeholder Meeting Minutes, Stakeholder Coordination Memos, and Schedule Updates

Task 4 (Optional)

- Nearshore Borrow Area Survey Field Notes, Plots, Data Files

SCHEDULE OF FEES

TASK	AMOUNT	BASIS
1 Physical Monitoring	\$47,545	Fixed Fee
2 Offshore Borrow Area / Disposal Area	\$12,043	Fixed Fee
3 District and City Support Services	\$6,000	T&M
4 (Optional) Nearshore Borrow Area	\$8,643	Fixed Fee
Total	\$ 74,231	