

M E M O R A N D U M

TO: Tom Harmer, Town Manager
FROM: Isaac Brownman, Public Works Director
DATE: June 11, 2019
SUBJECT: Comprehensive Beach Management Plan Update

Recommended Action

None, informational only.

Background

The last Comprehensive Beach Management Plan update was discussed at the January 22, 2019 Regular Workshop Meeting. The presentation focused primarily on an overall update on the current beach conditions, the Scope of the next Comprehensive Beach Management Plan Update, the North End Stabilization project status, and the most recent communications with the U.S. Army Corps of Engineers.

The June 17, 2019 Regular Workshop Meeting discussion will include an update on the Comprehensive Beach Management Plan, why they are required, the progress of the North End Structures, and a high-level view of the proposed budgets.

Comprehensive Beach Management Plan History

The Town presently maintains over ten (10) miles of engineered beaches, along the Gulf of Mexico shoreline in Manatee and Sarasota Counties. The largest component of the Town's maintenance approach to date has been, and will likely continue to be, large-scale beach nourishments. To guide the management of the beaches, the Town maintains a Comprehensive Beach Management Plan, first developed in 1995, to document the beach activities and identify future needs for beach nourishment and other shore protection measures. The Comprehensive Beach Management Plan for the Town was last updated in 2008. The analyses currently underway will produce recommendations for Town consideration as possible updates to the existing Plan.

Objectives of a Comprehensive Beach Management Plan update include:

- Identify the current beach conditions and shore protection needs, including projections of sand volume requirements for various segments of the Longboat Key shoreline;
- Assess the current status of sand sources available to the Town to meet the needs of the projects identified in Item #1, above, and make recommendations for future sand sourcing;
- Evaluate the current level of storm protection offered by the beaches. While the beaches have narrowed since the last full-length nourishment in 2005/2006 and the most recent multiphase interim nourishment in 2016, numerous areas are quite healthy and robust, while others need improvement;
- Present the array of feasible alternatives, including cost opinions, for the scope and construction method associated with "the next project." The update will also seek to identify the subsequent project(s) or at least establish the array of feasible alternatives for future projects (with significant consideration for costs and available sand resources);
- Document the maintenance and monitoring of the Town's engineered beach nourishment projects for continuing eligibility for FEMA post-disaster Public

Assistance (cost-sharing) in the event (a) the beaches are impacted by a declared storm event and (b) damages can be properly documented.

- Evaluate existing design template and corresponding profile and recommend adjustment.
- Evaluate current and potentially new funding sources for ongoing beach management.

North End Structural Stabilization Project

- Update to Permitting; RAI in progress
- Consider possibility of combining Structural Stabilization Project with Inlet Dredge Project to facilitate a reduction in overall project cost;
- How the project ties into the Comprehensive Beach Management Plan Update.

Proposed Beach Budget Overview as presented on May 20, 2019:

Option 1: Full Project

- Continue with Canal 1A Dredge (Funded in FY19)
- \$13 Million for installation of 5 permeable groins at North end in FY21
- \$30 Million for Sand Fill in FY22
- \$1.4 Million for Gulf Side Rd Area Interim Nourishment FY20
- \$1.5 Million for Army Corp Shore Protection Program (FY21-23)
- \$1.45 Million New Pass Groin Tightening FY21
- \$4.5 Million for Sand Search, Design, Consulting, Monitoring Protected Species

Option 2: Steady State Operation

- Continue with Canal 1A Dredge (Funded in FY19)
- \$1.2 Million North Shore Area Interim Nourishment – Semi Annual
- \$20 Million for Sand fill in FY22
- \$1.4 Million for Gulfside Road Area Interim Nourishment FY22
- \$1.5 Million for Army Corp Shore Protection Program (FY21-FY23)
- \$1.45 Million New Pass Groin Tightening
- \$2.4 Million for Sand Search, Design, Consulting, Monitoring Protected Species

Option 3: Hybrid Project (Current Budget Approach)

- Continue with Canal 1A Dredge (Funded in FY19)
- \$10 Million for installation of 5 permeable groins at North end in FY21.
- \$25 Million for Sand Fill in FY22
- \$1.5 Million for Army Corp Shore Protection Program (FY21-FY23)
- \$1.45 Million New Pass Groin Tightening (FY24)
- \$4.5 Million for Sand Search, Design, Consulting, Monitoring Protected Species

Next Steps

- October 2019 - Present Final Comprehensive Beach Management Plan to Town Commission
- November 2019 - 1st Reading of Ordinance for Beach Funding referendum language
- December 2019 – 2nd Reading and Adoption of final language for a March referendum
- January - March 2020 - Public Outreach/Information Regarding the Referendum
- March 2020 - Referendum Vote for Beach Funding Bonding

End of Agenda Item