

## **EXECUTIVE SUMMARY**

**Recommendation to approve a Work Order with Humiston and Moore Engineers to provide professional engineering services as needed by the Marco Island Central Beach Re-grade project under Contract No. 13-6164-CZ for a Time and Material amount not to exceed \$169,724; authorize the County Manager or his designee to execute the work order, approve necessary budget amendment, and make a finding that this item promotes tourism, Project No. 90062.**

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**OBJECTIVE:** Secure professional engineering services as required to execute the Marco Island central beach re-grading project.

**CONSIDERATIONS:** The central beach of Marco Island located just south of Sand Dollar Island and continuing south to the Marriott Hotel between DEP reference monuments R-135 to R-142 is excessively wide and flat. The beach in this area is between 500 and 1200 feet wide with little to no surface slope to the Gulf. This region has a tendency to pond during heavy rains creating a situation conducive to algae growth and excessive surface hardening after drying. These two conditions have greatly reduced the use of this beach for suitable sea turtle nesting habitat. In addition, the recreational use of this beach is also greatly reduced due to public health concerns resulting from the residual/unsightly algae growth.

This project would provide professional engineering services as necessary to conduct preliminary design and modeling, state and federal permitting, plans and technical specifications, bidding services and construction phase inspection as needed to execute this project. Positive drainage would be created by building a wider transitional berm seaward of the upland dune with a seaward slope to Mean High Water. The sand to build this improved profile will be dredged from the nearshore region along the seaward portion of the upland beach profile down to approximately Mean Lower Low Water. The end result will be a slightly narrower dry beach width. The extent of the dredging, grading and berm width will diminish from north to south. The beach width will be reduced by approximately 230 feet at the north end of the project to 50 feet at the south end of the project. This reduced beach width will provide the public decreased travel distance from the condominiums and Tigertail Beach parking areas.

A conceptual design report and scope of work proposal for this project are attached.

**FISCAL IMPACT:** Funding is available through Tourist Development Tax, Fund 195. A budget amendment will be necessary to move funds, in the amount of \$169,724 from reserves into Project 90062, Marco Island Central Beach Re-Grade. Funding for this permit will not be requested for reimbursement from any grantor agency. Construction costs are estimated at \$1,000,000. A most probable cost estimate will be developed to confirm project costing during the design.

**GROWTH MANAGEMENT IMPACT:** There is no impact to the Growth Management Plan related to this action.

**ADVISORY COMMITTEE RECOMMENDATIONS:** At the April 10 and May 8, 2014 CAC meeting this item was unanimously approved by an 8 to 0 vote.

**LEGAL CONSIDERATIONS:** This item has been approved as to form and legality and requires majority vote for approval. – CMG

**RECOMMENDATION:** To approve a Work Order with Humiston and Moore Engineers to provide professional engineering services as needed by the Marco Island Central Beach Re-grade project under Contract No. 13-6164-CZ for a Time and Material amount not to exceed of \$169,724; authorize the County Manager or his designee to execute the work order, approve necessary budget amendment, and make a finding that this item promotes tourism, Project No. 90062

Prepared by: J. Gary McAlpin, P.E., Coastal Zone Management, Natural Resources Department

Attachment:

1. Conceptual Design Report
2. Humiston and Moore Proposal
3. Work Order