



SANTA ROSA COUNTY ENGINEERING DEPARTMENT

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MEMORANDUM

TO: Tony Gomillion, County Administrator

FROM: Roger A. Blaylock, P.E., County Engineer *Req*

DATE: July 6, 2016

RE: Navarre Beach Restoration Project 17-SR1 DRAFT Funding Agreement and Draft Work Plan with Florida Department of Environmental Protection

Discussion:

On December 10, 2015, the Santa Rosa County Board of County Commissioners awarded a construction contract to Weeks Marine Inc. to place about 1.34 million cubic yards of sand from immediately east of the Gulf Islands National Seashore to the eastern limits of the Navarre Beach Marine Park. Dredging operations began on April 29, 2016 with two hopper dredges operating from off-shore borrow area and have progressed to the western end of Navarre Beach completing their operations on June 18. Dune planting is slated for July 11 through July 22.

Finding:

While final quantities have not yet been determined, Board of Commissioner's approval of conditional Change Order #1 on June 23 allowed contractor to order and place additional plant materials, added 20 weather days, and reduced total sand quantity and reduced tilling area. This action allowed project to proceed uninterrupted to closeout and reimbursement. Attached 17-SR1 DRAFT Funding Agreement and Work Plan with Florida Department of Environmental Protection through its Beach Management Funding Assistance Program Division of Water Restoration Assistance reflects the expected final quantities and a net reduction estimated at about \$1.8M. Final grant agreement should reflect a contract price reduction of 1.5M allowing a \$300K buffer during close-out.

Action to be Considered:

Recommend Board approval and execution of 17-SR1 Funding Agreement and Work Plan with Florida Department of Environmental Protection upon receipt of a final funding agreement and work plan.

RAB/sjp

Enc.

ATTACHMENT A GRANT WORK PLAN

Project Title: Navarre Beach Nourishment Project

Project Location: The Navarre Beach Nourishment project consists of approximately 4.1 miles of shoreline between DEP Monuments R192.5 - R213.5 in Santa Rosa County.

Project Background: This is a 4.1-mile segment of critically eroded shoreline at Navarre Beach on Santa Rosa Island. Assisted-recovery of the beach and dune system was conducted following Hurricanes Opal and Georges. This area was severely impacted by Hurricane Ivan in 2004 and further impacted by Hurricanes Dennis and Katrina in 2005. Initial construction of the Navarre Beach Restoration Project (R191+500' -R214 -225') began in late March 2006 and was completed in November 2006. The initial sand placement included approximately 3.4 million cy to construct the beach and dune. The project also included a dune feature that consisted of additional sand and dune vegetation. The borrow area is located about 4 miles offshore. The project included replacement of emergency protective berms that were funded by FEMA. A small truck haul project in April of 2010 was constructed to partially address spreading losses on the west end of the project site. The project design did not include a typical fill taper when no construction easement was granted for placement of the taper by the adjacent Gulf Islands National Seashore. The 2010 interim truck haul project repaired a portion of the dune which was damaged by Hurricanes Gustav and Ike in 2008, by placement of approximately 11,881 cy of beach quality material from an upland borrow site. With permitting completed, the next full nourishment is planned for 2015/2016 and is expected to place approximately 1,600,000 cy of material from an offshore borrow site. FEMA will cost share on this beach nourishment project in response to damages sustained during Tropical Storm Debby and Hurricane Isaac.

Project Description: The project consists of the nourishment of approximately 4.1 miles of shoreline between Department Monuments R192.5 - R213.5 in Santa Rosa County.

The Project shall be conducted in accordance with the terms and conditions set forth under this Agreement, all applicable Department permits and the eligible Project task items established below. All data collection and processing, and the resulting product deliverables, shall comply with the standards technical specifications contained in the Department's Monitoring Standards for Beach Erosion Control Projects (2014) and all associated state and federal permits, unless otherwise specified in the approved Scope of Work for an eligible Project item. The monitoring standards may be found at:

<http://www.dep.state.fl.us/beaches/publications/pdf/PhysicalMonitoringStandards.pdf>.

One (1) electronic copy of all written reports developed under this Agreement shall be forwarded to the Department, unless otherwise specified.

Acronyms: *{delete those not needed}*

USACE- United States Army Corps of Engineers
JCP- Joint Coastal Permit
FEMA – Federal Emergency Management Agency

For the purpose of this Attachment A, Grant Work Plan, the term “Grantee” and “Local Sponsor” will be used interchangeably.

The Department and the Local Sponsor/Grantee agree that the state grant funding, not to exceed, the estimated costs of the Project as identified in Table 1 below:

TABLE 1
Estimated Eligible Project Cost

| Task # | Eligible Project Tasks | State Cost Share (%) | Federal Estimated Project Costs | DEP | Local | Total |
|------------|--|----------------------|---------------------------------|-----------------------|-----------------------|------------------------|
| 2.0 | Design and Permitting | | | | | |
| 2.1 | Preliminary Design & Agency Meetings | 50.00% | | \$40,716.00 | \$40,716.00 | \$81,432.00 |
| 2.2 | Plans, Technical Specifications and Permitting | 50.00% | | \$108,320.00 | \$108,320.00 | \$216,640.00 |
| | Subtotal | | | \$149,036.00 | \$149,036.00 | \$298,072.00 |
| 3.0 | Construction | | | | | |
| 3.1 | Pre-Construction Services | 50.00% | | \$50,743.00 | \$50,743.00 | \$101,486.00 |
| 3.2 | Construction (2016 Nourishment) | 50.00% | | \$7,460,150.00 | \$7,460,150.00 | \$14,920,300.00 |
| 3.3 | Construction Observation | 50.00% | | \$289,522.00 | \$289,522.00 | \$579,044.00 |
| 3.4 | Post-Construction Services | 50.00% | | \$49,501.00 | \$49,501.00 | \$99,002.00 |
| | Subtotal | | | \$7,849,916.00 | \$7,849,916.00 | \$15,699,832.00 |
| | TOTAL PROJECT COSTS | | | \$7,998,952.00 | \$7,998,952.00 | \$15,997,904.00 |

Changes in Project costs that increase or decrease the total funding amount shall require a formal amendment to the Agreement.

TASKS and DELIVERABLES:

Tasks must be completed as outlined below and in the Department-approved scope(s) of work prepared by the Local Sponsor for the Project. Deliverables listed below are to be completed by the Local Sponsor or submitted to the Department by the due date listed, in this Work Plan. The Deliverable due by dates established in this Grant Work Plan indicate the time by which a Deliverable is received. The dates do not necessarily correspond with permit required due by dates. The Local Sponsor must meet the terms of the permit for compliance. The Department shall provide review and comment/approval of each Deliverable prior to reimbursement.

TASK 2.0 Design

Task Description: The Local Sponsor will acquire the professional services required for engineering and design, obtaining environmental permits and other authorizations and the preparation of plans and specifications for beach nourishment. All data and analysis will be presented in a Department-approved format per the scope of work required by paragraph 4 of this Work Plan.

Performance Standard: All deliverables, reports, and monitoring results will be circulated to the Department for review and comment. The Department’s Grant Manager will review the deliverables to verify that they meet the specifications in the Scope of Work and this Grant Work Plan and this task description, and that work is being performed in accordance with the Grantee’s service provider contracted documents and specifications. Reimbursement requests may be submitted once a deliverable has been submitted to and approved by the Department’s Project Manager, in writing.

2.1 Preliminary Design and Agency Meetings

The LOCAL SPONSOR'S CONSULTANT shall conduct a current assessment of the condition of the shoreline to determine the appropriate distribution and volume density of beach-compatible sand to be placed during nourishment.

Deliverable A: Electronic copies of letter report, including design drawings depicting the recommended design template and borrow area.

Total Cost: \$72,144 (Department Cost: \$36,072.00)

Due Date: 7/1/2017

Deliverable B: Electronic copies of the pre-application conference report.

Total Cost: \$9,288.00 (Department Cost: \$4,644.00)

Due Date: 7/1/2017

2.2 Plans, Technical Specifications and Permitting

The LOCAL SPONSOR'S CONSULTANT shall prepare design documents, plans and specifications contract forms, and supporting information for construction that will be used for the Departments JCP pre-application conference and final application development.

Deliverable A: Electronic copies of the DEPARTMENT pre-application conference, final JCP application,

Total Cost: \$216,640.00 (Department Cost: \$108,320.00)

Due Date: 7/1/2017

TASK 3.0 Construction

Task Description: This task includes work performed and costs incurred associated with the placement of fill material and/or the construction of erosion control structures within the Project area. The task includes work associated with eligible beach restoration construction associated with the Project such as those costs approved through bids and construction-phase engineering and monitoring services. Eligible costs may include mobilization, demobilization, construction observation or inspection services, beach fill, tilling and scarp removal, erosion control structures, dune stabilization measures and native beach-dune vegetation. Construction shall be conducted in accordance with any and all State or Federal permits. The Local Sponsor will submit a construction activity package for task work completed during the period. The construction activity package must include:

- (1) An itemized summary of the materials, labor, or services to identify the nature of the work performed; the amount expended for such work; the name of the person/entity providing the service or performing the work; and proof of payment of the invoices, the period activity was performance;
- (2) A certification signed by ~~the Local~~ the Local Sponsor's project manager as to the current cost of the Project; stating that the materials, labor, or services represented by the invoice have been satisfactorily purchased or performed and applied to the Project; and that all funds expended to date have been applied toward completing the Project; and
- (3) A certification signed and sealed by the Engineer responsible for overseeing construction stating that equipment, materials, labor and services represented by the construction invoices have been satisfactorily invoiced, purchased, received, approved and applied to the Project, as described in the Grant Work Plan, in accordance with construction contract documents; that payment is in accordance with construction contract provisions; and that construction, up to the point of the request, is in compliance with the contract documents; and identifying all additions or deletions to the Project that have altered the Project's performance standards, scope of work, or purpose since the issuance of the Department construction permit.

Revised 5/18/2016

Performance Standard: The Department's Project Manager will review the construction activity package and other deliverables to verify that 1) work was performed in accordance with the service provider's-contracted documents and specifications in this task description and 2) that the deliverables meet the specifications in this task description. Reimbursement requests may be submitted once a deliverable has been submitted to and approved by the Department's Project Manager.

3.1 Pre-Construction Services

The LOCAL SPONSOR'S CONSULTANT shall assist the County with preparation of bid documents and solicitation of bids and award of a construction contract for the project, reporting the results of the lighting and topographic and bathymetric profile surveys, final construction plans and estimate of probable costs, and written notice of construction commencement of construction to DEPARTMENT and USACE.

Deliverable A: Electronic copies of the construction bid tabulation, notice of award, notice-to-proceed, lighting survey report, topographic and bathymetric profile surveys, estimate of probable costs, and written notice of commencement of construction to DEPARTMENT and USACE.

Total Cost: \$101,486.00 (Department Cost: \$50,743.00)

Due Date: 7/1/2017

3.2 Construction

The LOCAL SPONSOR'S CONSULTANT shall assist with the nourishment PROJECT, by placing an estimated 1,600,000 cubic yards of dredging sand along the PROJECT shoreline, according to state and federal permits.

Deliverable A: Construction activity package for the (PROJECT), including summary of the work performed, summary of costs, proof of payment, certification from grantee that work was performed and completion certification from the project engineer.

Total Cost: \$14,920,300.00 (Department Cost: \$7,460,150.00)

Due Date: 7/1/2017

3.3 Construction Observation

The LOCAL SPONSORS CONSULTANT shall provide engineering technicians that are trained in marine construction proposed under this agreement. The Principal engineer shall provide PROJECT management oversight.

Deliverable A: Provide electronic copies of the construction milestone summary reports, monthly sea turtle reports, and final PROJECT Certification of Completion for the 2016 nourishment.

Total Cost: \$579,044.00 (Department Cost: \$289,522.00)

Due Date: 7/1/2017

3.4 Post-Construction Services

The LOCAL SPONSOR CONSULTANT shall prepare a post-construction physical monitoring report suitable to meet the requirements of the PROJECT, as outlined in the permit. The report shall address the physical changes to the engineered beach as well as the productivity of the CONTRACTOR. The survey data shall be prepared in the suggested conformance with the DEPARTMENT monitoring standards.

Deliverable A: Provide electronic copies of the immediate and year one post-construction physical monitoring report.

Total Cost: \$99,002.00 (Department Cost: \$49,501.00)

Due Date: 7/1/2017

Revised 5/18/2016

NOTE: The deliverable due dates established in this Grant Work Plan indicate the time by which a deliverable is received. The dates do not necessarily correspond with permit required due dates. The Local Sponsor must meet the terms of the permit for compliance. All Tasks are Contractual Services.

DRAFT