

EXECUTIVE SUMMARY

Recommendation the TDC to approve time and material Work Order under Contract #09-5262 for Beach Berm Restoration and Wiggins Pass Dredging as outlined in the CP&E proposal dated September 29, 2010 not to exceed \$10,000.

OBJECTIVE: Approve Beach Berm Restoration and Wiggins Pass Dredging as outlined in the proposal dated September 29, 2010 by CP&E.

CONSIDERATIONS: This scope of work describes the preparation of joint contract documents for a combined beach fill and inlet maintenance dredging project. The contract will be set up to select the lowest joint bid or the lowest individual bid for the two (2) tasks, whichever is least. The scope covers preparation of plans, specifications and a bidding form based on previous plans, surveys, permit sketches or technical specifications. CPE will assist the County with bidding. Final tasks for maintenance dredging and the beach fill project will be developed based on the permitted scope of work. The final plans and specification will be prepared for submittal to FDEP for the Notice To Proceed. Pre-, during- and post-construction engineering services are not included in this SOW and will be proposed when the scope is completed.

The project segments include:

1. Small Beach Berm Restoration Project (truck haul) South of Doctors Pass and Seagate Access in Park Shore
2. Wiggins Pass Maintenance Dredging to bring depths within the channel to permitted depths and remove infill from the main channel.

ADVISORY COMMITTEE RECOMMENDATIONS: At the CAC meeting on October 14, 2010 this item was approve unanimously 6-0.

FISCAL IMPACT: The Source of funds is from Category "A" Tourist Development Tax.

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

LEGAL CONSIDERATIONS: This item has been reviewed and approved by the County Attorney's Office and is legally sufficient for Board action. - CMG

RECOMMENDATION: For the TDC to approve time and material Work Order under Contract #09-5262 for Beach Berm Restoration and Wiggins Pass Dredging as outlined in the CP&E proposal dated September 29, 2010 not to exceed \$10,000.

PREPARED BY: Gail Hambright, CZM



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September 29, 2010

Gary McAlpin
Collier County Government
W. Harmon Turner Bldg., Suite 103
3301 E. Tamiami Trail
Naples, FL 34112

**Subject: Beach Berm Restoration and Wiggins Pass Dredging, Coastal Design Services, Collier County, Florida
Scope of Work under Contract No. 09-5262**

Dear Gary:

Enclosed is a scope of work, fee proposal and rate sheet for a combination of these two projects: Beach Berm Restoration and Wiggins Pass Dredging for Collier County, Florida. The hourly not to exceed cost for these services is \$10,000. The services include preparation of plans and specifications, and limited permitting and bidding services supporting the Coastal Zone Management and Purchasing Departments. Pre-, during- and post-construction services are not included, pending a better understanding of these phases. All surveys have previously been conducted or will be assigned to the contractor during construction.

If you have any questions regarding this scope of work, please call me.

Sincerely,

COASTAL PLANNING & ENGINEERING, INC.

Stephen Keehn, P.E.
Senior Coastal Engineer

cc: Sheri Dindial, CPE

**Beach Berm Restoration and Wiggins Pass Dredging Coastal Design Services
Collier County, Florida
Scope of Work under Contract No. 09-5262
September 29, 2010**

Introduction: This scope of work describes the preparation of joint contract documents for a combined beach fill and inlet maintenance dredging project. The contract will be set up to select the lowest joint bid or the lowest individual bid for the two (2) tasks, whichever is least. The scope covers preparation of plans, specifications and a bidding form based on previous plans, surveys, permit sketches or technical specifications. CPE will assist the County with bidding. Final permitting tasks for maintenance dredging and the beach fill project will be addressed to the limit of funding. The final plans and specification will be prepared for submittal to FDEP for the NTP. Pre-, during- and post-construction services are not included in this SOW and will be proposed when the scope is better understood.

The project segments include:

1. Small Beach Berm Restoration Project (truck haul) South of Doctors Pass and Seagate Access in Park Shore
2. Wiggins Pass Maintenance Dredging

The plans will be based on the existing surveys and permit sketches. Pre- and post-construction surveys will be taken by the contractor as a basis for updating the construction profiles, verifying pay quantities and for use in a post-construction report. The plans and specifications will be set up with separable sections within the contracting documents.

A. Joint Plans and Specification

Plans, specifications and joint bidding instruction will be prepared to combine the two projects as described below. This task will take priority over B and C below and any final permitting task within the limit of the approved funding.

Wiggins Pass Maintenance Dredging

Due to unsafe navigation conditions currently at Wiggins Pass, engineering services of a maintenance dredging project are proposed. The project will bring depths within the channel to permitted depths and remove infill from the main channel.

The construction plans will include plan and cross-sections views sufficient for the construction of the channel maintenance dredging project, and will be based off of the permit sketches. The plans will provide survey control information which will allow the contractor to control and construct the channel. The spoil site will be delineated with the disposal cross sections allowed by FDEP and USACE permit conditions. The plans will be based on the July 2010 channel monitoring survey, and the previous plans and

specifications developed by CPE for the last dredging project. Specifications developed for the project will include: Supplemental General Conditions within Technical Specifications.

Small Beach Berm Restoration Project

In response to the hot spot erosion at two locations within the Collier County Beach Nourishment Project area, engineering of a small berm restoration project is proposed. The project would extend along approximately 1000 feet of the Park Shore shoreline near Seagate Drive (vicinity of R46) and 1200 feet south of the Doctors Pass groins (R58A-R58).

Construction plans and technical specifications will be prepared for the project based on the conditions in the permits and the approved permit sketches. The construction plans will include plan and representative cross-sections views sufficient for the construction of the project. The plans will provide survey monumentation information which will allow the contractor to control and construct the berm project. Cross-sections will be identified on the plans, along with a baseline for the profiles. The plans will delineate construction staging areas and access points, and will be based on previous plans for the area. The permit volume minus the volume placed with the recent emergency project will be the design goal.

Technical Provisions will describe the berm fill layout, mobilization and demobilization from the project area, clean-up requirements and other issues related to construction of a truck haul project. It will identify the method of payment to the contractor and the clauses for liquidated damages, if necessary. The bid form will be developed with this section. The sand quality standard approved by the County and the permit agencies will be included in the specification, along with the approved sand source. The design and pay qualities will be based on tonnage, the unit of measurement used for upland sand sources. The specifications will identify the equivalent approximate yardage.

Common Task

The specifications will require the contractor to take pre- and post-construction surveys of the fill and dredge area at specified spacing. The post-construction survey will be an as-built survey. These surveys will be used to update the plans, verify placed volumes and prepare an as-built report. The survey will extend seaward to just beyond the toe of fill.

The contract documents will be prepared to support joint bidding of the two projects. A suggested bid form and instruction will be prepared to award the project to the lowest combined joint bidder or individual bidders with a combined lowest price.

The Engineer will provide a set of plans and technical specifications along with ARCROBAT files suitable for distribution to bidders. CPE will be prepared to submit two copies of the plans and specifications to FDEP and request the Notice to Proceed.

The specifications will address updating the cross-sections for construction using the pre-construction surveys.

B. Final Permitting Approval

CPE will aid the County with final permitting assistance for the two segments to the extent funding is available in the contract. Work may include responding to final Request for Additional Information as part of the permitting or NTP phase.

C. Bidding and Pre-Construction Task

Bidding

The Engineer will assist the County in bidding for the two projects. The County's purchasing department will manage the bidding process with assistance from the Engineer and Coastal Zone Management Department. In conjunction with the County, the Engineer will attend a pre-bid conference (by telephone if required). The pre-bid conference will provide an opportunity to describe the project and to solicit questions from potential contractors. The conference will be conducted at the location determined by the County and a tour of the project area should be conducted with the potential contractors to address any additional questions. County representatives may be present to address issues related to infrastructure, County requirements and any other issues affecting the local government. The potential contractors will be provided sufficient time to submit a bid for the project. The Engineer will answer questions during bidding from the purchasing department and Coastal Zone Management.

D. To Be Determined

Based on the bidding document, permits and construction schedule of the two segments, a construction services proposal will be prepared covering:

Phase II – Bid recommendation and Pre-Construction Services

Phase III – During Construction Services

Phase IV – Post-Construction Services

Schedule B

Contract No: 09-5262 "County Wide Engineering Services"

Standard Hourly Rate Schedule for all disciplines

<u>Personnel Category</u>	<u>Standard Hourly Rate</u>
Principal	\$195
Senior Project Manager	\$165
Project Manager	\$148
Senior Engineer	\$155
Engineer	\$119
Senior Inspector	\$85
Inspector	\$65
Senior Planner	\$140
Planner	\$110
Senior Designer	\$115
Designer	\$100
Environmental Specialist	\$115
Senior GIS Specialist	\$145
GIS Specialist	\$100
Clerical	\$60
Surveyor and Mapper	\$130
CADD Technician	\$85
Survey Crew - 2 man	\$130
Survey Crew - 3 man	\$160
Survey Crew - 4 man	\$180

This list is not intended to be all-inclusive. Hourly rate fees for other categories of professional, support and other services shall be mutually negotiated by the County and firm on a project by project basis as needed.