

**AMENDMENT NO. 7 TO CONTRACT NO. 2012000050
AGREEMENT BETWEEN CHARLOTTE COUNTY
and
COASTAL ENGINEERING CONSULTANTS, INC.
for
STUMP PASS TEN-YEAR MANAGEMENT PLAN**

THIS AMENDMENT NO. 7 to Contract No. 2012000050 ("Amendment"), is made and entered into by and between CHARLOTTE COUNTY, a political subdivision of the State of Florida, 18500 Murdock Circle, Port Charlotte, Florida 33948-1094 (the "County") and COASTAL ENGINEERING CONSULTANTS, 3106 South Horseshoe Drive, Naples, Florida 34104-6137 (the "Consultant").

WITNESSETH

WHEREAS, the County issued Request for Proposal ("RFP") No. 2012000050 to retain a Consultant to provide a ten-year beach and inlet management plan for Stump Pass to include, but not be limited to, an alternative analysis, design, permitting, construction support, and monitoring (the "Project"); and

WHEREAS, through a selection and negotiation process conducted in accordance with the requirements of law and County policy, the County determined that it would be in the best interest of the County to award a contract to Consultant for the rendering of professional services associated with the Stump Pass 10-Year Management Plan Project; and

WHEREAS, the parties entered into Contract No. 2012000050 (the "Contract") on or about April 16, 2012, for Consultant to provide consulting services for the Project; and

WHEREAS, the parties entered into *Amendment No. 1* to the Contract on or about October 18, 2012, to acquire additional consulting services as a result of the impact of Tropical Storm Debby in June of 2012 which impacted the coastline resulting in beach erosion, channel shoaling, and the loss of natural resources and habitats; and

WHEREAS, the parties entered into *Amendment No. 2* to the Contract on or about February 13, 2014, to acquire additional services relating to the 2014 Annual Monitoring, including Physical and Biological Monitoring; and

WHEREAS, the parties entered into *Amendment No. 3* to the Contract on or about March 10, 2015, to acquire additional surveying and consulting services, to perform the 2015 Annual Monitoring and for other services; and

WHEREAS, the parties entered into *Amendment No. 4* to the Contract on or about June 14, 2016, to acquire additional services relating to the Erosion Control Project, to perform the 2016 Annual Monitoring, and for other services; and

WHEREAS, the parties entered into *Amendment #5* to the Contract on April 26, 2017, re-scoping the Project through the reduction of certain Tasks and the addition of additional Tasks related to extended environmental monitoring for shorebirds and seagrass; and

WHEREAS, the parties entered into *Amendment #6* to the Contract on July 13, 2018, for additional Project services to assist the County in completing the first year monitoring services for the 2017 Erosion Control Project and to reallocate Project Fees from unnecessary Tasks to new Project Tasks; and

WHEREAS, the County now wishes to amend the Contract to include additional services including construction administration of the Erosion Control Project specific to the South Beach Fill (SBF) on Knight-Don Pedro Island and continued monitoring of the Stump Pass Navigation Channel; and

WHEREAS, Consultant desires to provide said services in accordance with this Amendment No. 7, the Contract and other Contract Amendments.

NOW, THEREFORE, the County and the Consultant, in consideration of the mutual covenants contained herein, do agree as follows:

ARTICLE I
INCORPORATION / COMPENSATION / SERVICES

1.1 The above Recitals are hereby incorporated herein and made a part of this Amendment.

1.2. The provisions of **Exhibit A**, Charlotte County 10-Year Beach and Inlet Management Plan, 2019-2020 South Beach Fill Renourishment, 2019 Stump Pass Navigation Channel Annual Monitoring, are attached hereto and incorporated into and made a part of this Amendment.

1.3. Consultant shall provide the services in this Amendment and **Exhibit A**.

1.4. The County shall pay Consultant an amount not to exceed Three Hundred Eighty-Two Thousand Six Hundred Twenty-Eight Dollars and no Cents (\$382,628.00), to perform the additional services, in accordance with the terms of this Amendment and **Exhibit B**, Charlotte County 10-Year Beach and Inlet Management 2019 SBF Construction Services, 2019 Stump Pass Navigation Channel Monitoring – Fees.

1.6. The services provided for in Exhibit A will run concurrently with other Contract services and will not affect the term of the Contract, as amended.

ARTICLE II
MISCELLANEOUS

2.1. Any terms used in this Amendment shall have the same meanings and definitions as they have in the Contract.

2.2. All other provisions of the Contract and prior Amendments not in conflict with this Amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have entered into this Amendment #7 as of the date and year written below.

WITNESSES:

Signed By: *Donna R. Benfield*
Print Name: Donna R. Benfield
Date: 5/30/19
Signed By: *Tia R. Davis*
Print Name: Tia R. Davis
Date: 5/30/19

**COASTAL ENGINEERING
CONSULTANTS, INC.**

Signed by: *Michael Poff*
Print Name: Michael Poff
Title: President
Date: 5-30-19

ATTEST:
Roger D. Eaton, Clerk of the Circuit
Court and Ex-Officio Clerk to the
Board of County Commissioners

By: *Michelle Berardino*
Deputy Clerk

**BOARD OF COUNTY COMMISSIONERS
OF CHARLOTTE COUNTY, FLORIDA**

By: *Kenneth W. Doherty*
Kenneth W. Doherty, Chairman
Date: 5/28/19

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: *Janette S. Knowlton*
Janette S. Knowlton, County Attorney
LR 19-0384 *[Signature]*

Exhibit List:

Exhibit A – Charlotte County 10-Year Beach and Inlet Management Plan, 2019-2020 South Beach Fill
Renourishment, 2019 Stump Pass Navigation Channel Annual Monitoring, Scope;
Exhibit B – Charlotte County 10-Year Beach and Inlet Management Plan, 2019 SBF Construction
Services & 2019 Stump Pass Navigation Channel Monitoring, Fees

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EXHIBIT "A"

Charlotte County 10-Year Beach and Inlet Management Plan 2019-2020 South Beach Fill Renourishment 2019 Stump Pass Navigation Channel Annual Monitoring

CEC File No. 19.001

May 6, 2019

2019-2020 SOUTH BEACH FILL RENOURISHMENT

The scope of services presented herein is designed for Coastal Engineering Consultants, Inc. (Engineer) to assist Charlotte County (County) administer the construction of the Erosion Control Project specific to the South Beach Fill (SBF) on Knight-Don Pedro Island from award of bid through the final acceptance of the Project by the County and permit agencies. Payment for services shall be made on a monthly basis on a percent complete basis. Fees for individual tasks shall not be exceeded. The Engineer shall act as the County's representative (Owner's Representative) throughout the construction of the Project and Engineer of Record for the Project. The Engineer shall assign an experienced and qualified engineer to provide administrative oversight for the Project. This scope is based on a companion scope of services for the initial restoration of the Manasota Key Beach Fill (MKBF) that is to be constructed concurrent with the SBF renourishment. The scope is also a companion to the Stump Pass Navigation Channel Dredging (SPNC) annual monitoring services. When tasks overlap, the budget is shared among the tasks.

DESIGN SERVICES

TASK 1 SBF FINAL DESIGN AND BID PROCESS

Conduct final design survey of the FDEP reference monuments R29 through R41. The profile alignments shall be identical to the azimuths previously established for each monument. All R-monument beach profiles shall extend seaward 3,000 feet from the Mean High Water (MHW) or to a depth of -30 feet NAVD88, whichever is less.

Based on the final design survey, update the beach fill design plans and compute fill quantity. Prepare final design drawings in the form of 11" x 17" construction plans. The construction plans will include location map; vicinity map; plan views depicting beach fill, borrow areas, construction access and staging areas, pipeline corridors, and transport corridors; cross sections depicting dredge templates and beach fill templates; survey control; dune plantings; and environmental protection measures.

Prepare detailed construction specifications including description of work, special terms and conditions, quantity estimates, bid schedules, and technical specifications. The technical specifications will include order of work; construction standards for dredging, excavation, fill transport, fill placement, vegetative plantings, and environmental protection. Prepare Final Opinion of Probable Construction Cost. Review the County's standard general conditions, instructions to bidders, etc... and prepare for review and approval by the County, special provisions, bid forms, and other related documents for inclusion in the Bid Documents.

Assist the County coordinate a one-time bid process. Attend and present the Project at the pre-bid meeting. Assist the County prepare and issue addenda as appropriate to interpret, clarify or expand the Bid Documents. Assist the County obtain bids from dredging contractors. Assist the County evaluate the bids and make a recommendation for award to the lowest responsive bidder.

Assist the County evaluate opportunities with the dredging contractor to provide cost savings, assist the County negotiate the terms and conditions of the construction contract with the dredging contractor, and

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2019-2020 South Beach Fill Renourishment Construction Services Scope

assist the County issue Notice of Award and Notice to Proceed. If the County engages in negotiations with the dredging contractor, assist the County with respect to technical and engineering issues that arise during the negotiations.

Based upon the agency requirements, prepare and assemble the attachments and supporting documents and submit the request to the DEP for them to issue the Notice to Proceed with construction. CEC shall coordinate with the County and DEP to address one round of questions, edit the documents, and submit final versions for approval.

CONSTRUCTION SERVICES

TASK 2 SBF PHYSICAL MONITORING AND CONSTRUCTION PAY SURVEYS

All survey and monitoring activities as described herein shall be conducted and provided in accordance with the approved Physical Monitoring Plan (PMP) (February 2019) and latest update of the Florida Department of Environmental Protection (FDEP) Monitoring Standards for Beach Erosion Control Projects.

A. Survey Control: Establish horizontal and vertical control, one-time, on the uplands to be used by the Engineer for survey control and by the dredging contractor for survey control and construction stake-out of the work limits.

B. Beach Profile Physical Monitoring Survey: Conduct post-construction surveys of the FDEP reference monuments R29 through R40. The profile alignments shall be identical to the azimuths previously established for each monument. All R-monument beach profiles shall extend seaward 3,000 feet from the Mean High Water (MHW) or to a depth of -30 feet NAVD88, whichever is less.

C. Offshore Borrow Area Surveys: Conduct pre- and post-construction surveys of the Offshore Borrow Area (OBA). The survey will extend a minimum of 300 feet beyond the dredge limits. The survey lines will be spaced at 200 foot intervals.

D. Aerial Photography: Take aerial photography of the beach concurrently with the post-construction survey, as close to the date of the beach profile surveys as possible, and during approximate low water tide on that date. The limits of the photography shall include from R29 through R40.

E. Sediment Analyses: Conduct sediment sampling and analyses during construction and after construction, and conduct laboratory testing of post-construction samples, in accordance with the approved Sediment Quality Assurance / Quality Control Plan (February 2019). This scope and budget do not include additional monitoring or remedial efforts described in the Permits and Sediment Quality Assurance / Quality Control Plan. If required, services to assist the County implement such a plan can be provided as additional services.

F. Beach Fill Pay Surveys: Conduct pre- and post-construction "pay" surveys of the acceptance sections having a minimum length of 1,000 feet. Pay surveys of the active beach zone will be collected at intervals of 100 feet along the shoreline. The budget includes eight (8) acceptance sections. Surveys will be used to verify and review the dredging contractor's requests for payment and make recommendations to the County regarding the accuracy of the payment request amounts.

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2019-2020 South Beach Fill Renourishment Construction Services Scope

TASK 3 SBF BIOLOGICAL MONITORING

A. 2019 Sea Turtle Protection Plan Implementation: The County will retain the local marine turtle permit holders (Turtle Consultant) to conduct the Permit required nesting sea turtle monitoring and reporting as well as nest relocations. The County will conduct the Permit required monthly artificial lighting surveys.

Assist the County prepare and submit to FDEP and FWC the Permit required Environmental Protection Plan (EPP) that shall include details of monitoring for marine turtles and nesting seabirds and shorebirds onsite during construction. Assist the County prepare and submit one response to the agencies' request for additional information on the EPP.

Using the GPS coordinates of sea turtle nests from R29 to R40 provided by the County, prepare maps illustrating the location of the nests overlaid on aerial photographs to be submitted to the agencies with the Turtle Consultant's final summary report for the 2019 monitoring season.

B. 2020 Sea Turtle Protection Plan Implementation: The County will retain the local marine turtle permit holders (Turtle Consultant) to conduct the Permit required sea turtle monitoring and reporting as well as nest relocations. The County will conduct the Permit required monthly artificial lighting surveys.

The dredging contractor will retain the marine turtle monitor and company to conduct the permit required turtle trawling and related activities beginning April 15, 2020 through completion of construction. Provide technical support to the County and the monitors for implementation of the permit required marine turtle protection plans, monitoring, and reporting during construction.

Using the GPS coordinates of sea turtle nests from R29 to R40 provided by the County, prepare maps illustrating the location of the nests overlaid on aerial photographs to be submitted to the agencies with the Turtle Consultant's final summary report for the 2020 monitoring season.

C. 2020 Shorebird Monitoring: The dredging contractor will retain the qualified shorebird abatement personnel to implement permit required protection plans during construction.

Retain Shorebird Consultants to conduct the Permit required monitoring and reporting during construction. Daily monitoring for nesting shorebirds shall begin 10 days prior to construction or February 15, 2020, whichever is later. Data entry shall be completed weekly. Daily monitoring shall continue through construction or end of breeding; then continue weekly until August 31, 2020 which is considered the end of the nesting season. Assist with establishing Permit required buffers and travel corridors. Provide technical support services for the County by reviewing and commenting on the Shorebird Consultants' implementation of the monitoring and reporting. Arrange and attend meetings with the County and Shorebird Consultants. Prepare graphics showing nesting locations and similar information derived from Shorebird Consultants reports. Prepare and submit annual monitoring report.

D. Pipeline Corridor Monitoring: Conduct post-pipeline (pre-pumping) installation and post-construction surveys and reporting for the SBF pipeline corridor in accordance with the FDEP approved Biological Monitoring Plan (BMP) dated March 2019.

E. Compaction Monitoring: Conduct cone penetrometer testing after the dredging contractor has tilled the SBI² to confirm the beach tilling was completed in accordance with the Permit requirements.

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F. 2019 Wintering Bird Monitoring: Retain Shorebird Consultants to conduct the Permit required monitoring and reporting in accordance with the USFWS Biological Opinions. Monitoring shall be conducted between R29 and R40 from July 15, 2019 to the commencement of the 2020 Shorebird Monitoring surveys (February 2020). Surveys shall be conducted twice per month. Reports shall be provided monthly. Prepare and submit annual monitoring report.

G. 2020 Wintering Bird Monitoring: Retain Shorebird Consultants to conduct the Permit required monitoring and reporting in accordance with the USFWS Biological Opinions. Monitoring shall be conducted between R29 and R40 from July 15, 2020 to May 15, 2021. Surveys shall be conducted twice per month. Reports shall be provided monthly. Prepare and submit annual monitoring report.

TASK 4 SBF CONSTRUCTION ADMINISTRATION

The budget is based on a 60 day construction window for the SBF. Prepare for, attend and represent the County at one pre-construction conference with the County, and dredging contractor covering contract obligations, construction plans, general and special conditions, and technical specifications. Record and distribute the minutes of the meeting. Prepare for, attend and represent the County at one agency required pre-construction meeting at least 7 days prior to construction with the County, dredging contractor, FDEP, FWC, USACE, FWS, DRP, approved shorebird monitors, and permitted sea turtle monitors to review construction schedule and methods and explain or clarify the sea turtle protection measures.

Review the dredging contractor's work plan, shop drawings and submittals to determine compliance with the plans and specifications. Upon completion of the review, submit to the County in writing recommended changes or a written approval of the dredging contractor's work plan, shop drawings and submittals. Review one round of work plan revisions from the dredging contractor.

Attend construction progress meetings with the County and dredging contractor as requested by the County covering work progress and schedule, conformance to plans and specifications, and other relevant issues that need to be addressed. Record and distribute the minutes of each meeting. The budget includes representation at three (3) construction progress meetings. Assist the County and dredging contractor perform the routine reporting to FDEP in accordance with the Permits.

Review invoices for payment submitted by the dredging contractor along with daily records of the County, dredging contractor and Engineer and surveys provided by the dredging contractor and completed by the Engineer, and determine the amounts of progress payments due based on completion of work. Upon completion of review, submit recommendations to County for payment of invoices to the dredging contractor. The budget includes up to three (3) reviews.

Assist County in preparing and evaluating required field changes, change orders, or contract modifications requested by the dredging contractor and submit to County for approval. Provide to the dredging contractor instructions issued by County in addition to providing any necessary interpretations or clarifications of the contract documents requested by the dredging contractor. Make determinations on non-conforming and unauthorized work as authorized in the contract documents.

TASK 5 SBF CERTIFICATIONS AND POST-CONSTRUCTION REPORT

Upon receiving written notice from the County that the Project is substantially complete, conduct a one-time comprehensive review of the Project, prepare a punch list of items needing completion or correction, forward said list to the County and dredging contractor, and provide written recommendations to the County

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concerning the acceptability of work done and the use of the Project. Upon receiving written notice from the County that the Project is finally complete, perform final site observations in conjunction with the County to verify the punch list has been completed and the Project is ready for its intended use, and assist the County in closing out the construction contract.

Prepare and submit the Project Final Certification which shall include a summary Project personnel, final as-built Project features, construction activities, change orders, and other significant milestone dates and comments. Prepare and submit the FDEP and USACE Agency Final Certifications. Assist County prepare and submit certifications and reporting as required by FEMA.

Prepare and submit to the agencies the Post-Construction Report. The Report shall include a summary of the work completed; beach profile, borrow area, and channel surveys; shoreline and volume calculations to define the volumes excavated and placed; aerial photography; sediment analyses; survey data and deliverables; and identification of adverse impacts attributable to the Project. The Report shall serve as the baseline for future monitoring surveys and comparative reviews of Project performance to performance expectations.

TASK 6 SBF CONSTRUCTION OBSERVATIONS

The Construction Observation budget is based on a 60 day construction window for the SBF. Provide on-site inspection by a competent and qualified technical representative hereafter referred to as the Owner's Representative. The Owner's Representative will provide on-site determinations of compliance with the Permits, Construction Plans and Technical Specifications, determination of work completed, keeping detailed records of quantities of materials, maintaining weather and working day reports, listing equipment on site, and reporting dredging contractor's performance and daily activities. The Owner's Representative shall communicate with the County and dredging contractor and make deliberate efforts to provide inspection services only when the dredging contractor, their surveyors, or subcontractors are working.

The Owner's Representative shall perform some or all of the following specific activities during their observation period:

- **Project Layout:** Monitor the dredging contractor's layout of the Project to assure its compliance with the Construction Plans and Technical Specifications.
- **Site Access and Environmental Impacts:** Monitor that the dredging contractor accesses the site through approved routes and conducts their work in accordance with the environmental protection measures as defined in the Permits, Construction Plans, and Technical Specifications. Document and report to the County any non-compliance with these measures as soon as practicable after observing same.
- **Construction Progress:** Monitor the progress of construction performed by the dredging contractor and any sub-contractors for conformance to the Construction Plans and Technical Specifications and any field or change orders issued by the County. Complete and submit daily inspection reports to the County for review including the dredging contractor's daily activity, significant events, amount of work performed including quantities of material placed, equipment on site, weather conditions, and any other pertinent information.
- **Observation of Surveys:** Observe the surveys conducted by the dredging contractor's surveyor to verify that methods, instrumentation, benchmarks, and records are done in accordance with the Technical Specifications.
- **Beach Fill Placement:** Monitor the outfall of the dredging activities and fill placement on the schedule and method defined in the Permits and Sediment Quality Assurance / Quality Control

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Plan to verify that the fill material is excavated and placed in accordance with the Permits and Sediment Quality Assurance / Quality Control Plan.

PROJECT MANAGEMENT, FUNDING AND CONTINGENCIES

TASK 7 SBF PROJECT ADMINISTRATION

Attend and serve as the County's representative for four (4) stakeholder meetings including but not limited to the Beaches and Shores Committee, Board of County Commissioners, Marine Advisory Committee, and Parks and Recreation Committee. Provide technical support services for the County specific to stakeholder coordination. Manage and coordinate the team's internal efforts. Maintain informal contact with the County and FDEP via email and phone calls.

TASK 8 SBF ANNUAL FUNDING REQUESTS

A. FY20-21: Assist the County prepare and submit the 2020-2021 annual funding request specific to the SBF to the State of Florida in July 2019 for inclusion in the Beach Management Funding Assistance Program. Assist the County respond to the FDEP request for additional information and critique of the funding application.

B. FY21-22: Assist the County prepare and submit the 2021-2022 annual funding request specific to the SBF to the State of Florida in July 2020 for inclusion in the Beach Management Funding Assistance Program. Assist the County respond to the FDEP request for additional information and critique of the funding application.

C. DEP Quarterly Reporting: Prepare and submit the quarterly monitoring reports specific to the SBF to DEP for Calendar Years 2019 and 2020.

TASK 9 SBF CONTINGENCIES

Due to the complex nature of the work involving marine environments, it is anticipated that additional work may be necessary such as data collection, permitting, stakeholders meetings, or agency coordination. A contingency budget is recommended for these circumstances. All scopes of work under this task must be reviewed and approved by the County Project Manager prior to conducting the additional work.

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2019-2020 STUMP PASS NAVIGATION CHANNEL DREDGING ANNUAL MONITORING

The scope of services presented herein is designed for Coastal Engineering Consultants, Inc. (Engineer) to assist Charlotte County (County) complete the second-year monitoring services for the 2017 Erosion Control Project. Payment for services shall be made on a monthly basis on a percent complete basis. Fees for individual tasks shall not be exceeded. This scope is based on a companion scope of services for the SBF renourishment. When tasks overlap, the budget is shared among the tasks.

MONITORING

TASK 10 SECOND ANNUAL PHYSICAL MONITORING SURVEYS

All survey and monitoring activities as described herein shall be conducted and provided in accordance with the approved Physical Monitoring Plan (PMP) and latest update of the Florida Department of Environmental Protection (FDEP) Monitoring Standards for Beach Erosion Control Projects.

A. Beach Profiles: Conduct monitoring survey of the FDEP reference monuments R16 through R28, twelve (12) additional lines near Stump Pass, and Mean High Water (MHW) surveys from R16 through R28 (inlet shorelines). The profile alignments shall be identical to the azimuths previously established for each monument. All R-monument beach profiles shall extend seaward 3,000 feet from the Mean High Water (MHW) or to a depth of -30 feet NAVD88, whichever is less, with the exception of R22 to R28 which shall be 5,000 feet from MHW to cover the shoal.

B. Navigation Channel: Conduct monitoring survey of Stump Pass and MWH adjacent to the inlet. Bathymetric surveys shall be conducted along each cross-section at 100 foot intervals and three longitudinal profiles, along the centerline and at 150 foot offsets to either side. The northern and southern limits of the survey shall extend approximately 600 feet beyond the permitted template, or to the limits of the ebb/flood shoals, whichever is greater.

C. Aerial Photography: Take aerial photography of the beach concurrently with the monitoring survey, as close to the date of the beach profile survey as possible, and during approximate low water tide on that date. The limits of the photography shall include from R16 through R28.

D. Hydraulic Monitoring: Conduct hydraulic monitoring concurrently with the monitoring survey. The monitoring shall include measuring the tidal amplitudes on Lemon Bay and the Gulf of Mexico and measuring the current velocities in the channel throat for a full spring tidal cycle. The channel throat cross-section, depth and length shall be measured in the field as part of the monitoring. Three (3) channel sections shall be monitored to help bracket the throat recognizing it may not be obvious where the critical section is located.

TASK 11 SECOND ANNUAL BIOLOGICAL MONITORING

A. 2019 Shorebird Monitoring: Retain Shorebird Consultants to conduct the Permit required monitoring and reporting for the 2019 nesting season and assisting with establishing Permit required signage and marking between R22 and R28. Provide technical support services for the County through the Shorebird Consultants' implementation of the monitoring, reporting, and signage. Arrange and attend one (1) meeting with the County and Shorebird Consultants. Prepare graphics showing nesting locations and similar information derived from Shorebird Consultants reports.

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B. 2020 Shorebird Monitoring: Retain Shorebird Consultants to conduct the Permit required monitoring and reporting for the 2020 nesting season and assisting with establishing Permit required signage and marking between R22 and R28. Provide technical support services for the County through the Shorebird Consultants' implementation of the monitoring, reporting, and signage. Arrange and attend one (1) meeting with the County and Shorebird Consultants. Prepare graphics showing nesting locations and similar information derived from Shorebird Consultants reports.

C. Beach Tilling: Assist the County prepare beach tilling specifications and complete a request for quotation bid process. Conduct cone penetrometer testing of the beach fill after the Contractor has tilled the beach to confirm the beach tilling was completed in accordance with the Permit requirements. Timing will be coordinated for this work to occur prior to the 2019 sea turtle nesting season.

D. Wintering Bird Monitoring: Retain Shorebird Consultants to conduct the Permit required monitoring and reporting in accordance with the USFWS Biological Opinions. Monitoring shall be conducted from July 15, 2019 through May 15, 2020 between R22 and R28. Surveys shall be conducted twice per month. Reports shall be provided monthly.

TASK 12 SECOND ANNUAL MONITORING REPORT

Prepare and submit to the agencies the Second Annual Monitoring Report. The Report shall include a summary of the work completed; beach profile and channel surveys; shoreline and volume calculations to define the volumes excavated and placed; aerial photography; sediment analyses; survey data and deliverables; and identification of adverse impacts attributable to the Project. The Report shall serve as the baseline for future monitoring surveys and comparative reviews of Project performance to performance expectations.

PROJECT MANAGEMENT, FUNDING AND CONTINGENCIES

TASK 13 SPNC PROJECT ADMINISTRATION

Attend and serve as the County's representative for four (4) stakeholder meetings including but not limited to the Beaches and Shores Committee, Board of County Commissioners, Marine Advisory Committee, and Parks and Recreation Committee. Provide technical support services for the County specific to stakeholder coordination. Manage and coordinate the team's internal efforts. Maintain informal contact with the County and FDEP via email and phone calls.

TASK 14 SPNC ANNUAL FUNDING REQUESTS

A. FY20-21: Assist the County prepare and submit the 2020-2021 annual funding request specific to the SPNC to the State of Florida in July 2019 for inclusion in the Beach Management Funding Assistance Program. Assist the County respond to the FDEP request for additional information and critique of the funding application.

B. FY21-22: Assist the County prepare and submit the 2021-2022 annual funding request specific to the SPNC to the State of Florida in July 2020 for inclusion in the Beach Management Funding Assistance Program. Assist the County respond to the FDEP request for additional information and critique of the funding application.

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C. DEP Quarterly Reporting: Prepare and submit the quarterly monitoring reports specific to the SPNC to DEP for Calendar Years 2019 and 2020.

TASK 15 SPNC CONTINGENCIES

Due to the complex nature of the work involving marine environments, it is anticipated that additional work may be necessary such as data collection, permitting, stakeholders meetings, or agency coordination. A contingency budget is recommended for these circumstances. All scopes of work under this task must be reviewed and approved by the County Project Manager prior to conducting the additional work.

COUNTY RESPONSIBILITIES

The scope of services and budget are based on the County providing the following:

- Nesting Sea Turtle Monitoring and Reporting
- Shorebird Signage, Posting, and Roping materials
- Shorebird Education Materials.

DELIVERABLES

For all specified deliverables, CEC shall prepare and submit to the County a draft deliverable in electronic format (e.g., pdf file). CEC shall review the draft deliverable with the County, make one-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 Deliverables are specific to the SBF. When tasks overlap with MKBF or SPNC, the budget is shared between the tasks. The following is a list of deliverables to be provided.

Task 1

- Final Design Survey Field Notes, Plots, and Data Files
- Construction Plans and Construction Specifications
- Final Opinion of Probable Construction Cost
- Special Provisions, Bid Schedule, and Bid Forms
- Addendum
- Recommendation of Contract Award
- DEP Notice to Proceed Request

Task 2A

- Survey Control Data Sheets

Task 2B

- Beach Profile Survey Field Notes (Post-Construction)
- Beach Profile Survey Plots (Post-Construction)
- Beach Profile Data Files (Post-Construction)

Task 2C

- Offshore Borrow Area Survey Field Notes (Pre- and Post-Construction)
- Offshore Borrow Area Cross Section Plots (Pre-and Post-Construction)

Charlotte County 10-Year Beach and Inlet Management Plan
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- Offshore Borrow Area Survey Data Files (Pre-s and Post-Construction)

Task 2D

- Aerial Photographs and Survey Report

Task 2E

- Sediment Sampling Laboratory Test Results

Task 2F

- Pay Survey Field Notes (Pre- and Post-Construction)
- Pay Survey Profiles Plots and Pay Quantity Calculations (Pre- and Post-Construction)
- Pay Survey Data Files (Pre- and Post-Construction)

Task 3A

- Environmental Protection Plan (Draft and Final)
- Environmental Protection Plan RAI Response No. 1
- 2019 Sea Turtle Monitoring Nest Location Aerial Exhibits

Task 3B

- Summary of Marine Turtle Protection Plan Implementation (Monthly)
- 2020 Sea Turtle Monitoring Nest Location Aerial Exhibits

Task 3C

- 2020 Shorebird Daily Monitoring Reporting
- 2020 Nesting Shorebird Annual Monitoring Report and Nest Location Aerial Exhibits

Task 3D

- Pipeline Corridor Monitoring Report (Post-Pipeline Installation and Pre-Dredging)
- Pipeline Corridor Monitoring Report (Post-Construction)

Task 3E

- Compaction Test Results

Task 3F

- 2019-20 Wintering Bird Monitoring Reporting (Monthly)
- 2019-20 Wintering Bird Monitoring Summary Report

Task 3G

- 2020-21 Wintering Bird Monitoring Reporting (Monthly)
- 2020-21 Wintering Bird Monitoring Summary Report

Task 4

- Pre-Construction Meeting Minutes (dredging contractor and Permit Agency)
- Technical Review Memorandum of Work Plan, Shop Drawings, and Submittals
- Construction Progress Meeting Minutes (Monthly)
- Construction Progress Reports (Monthly)
- Pay Request Reviews and Recommendations (Monthly)
- Field Orders, Changes Orders, and Contract Modifications (Monthly)
- Contract Document Interpretation (Monthly)

Charlotte County 10-Year Beach and Inlet Management Plan
2019-2020 South Beach Fill Renourishment Construction Services Scope

Task 5

- Certificate of Substantial Completion and Punch List
- Certificate of Final Completion
- Agency As-Built Certifications (FDEP and USACE)
- FEMA Certifications and Reporting
- Post-Construction Report (Draft and Final)

Task 6

- Construction Observation Reports (Monthly)

Task 7

- Stakeholder Meeting Minutes, Stakeholder Coordination Memos, & Schedule Updates (Monthly)

Task 8

- FY20-21 Annual Funding Request Application and Technical Support Documents
- FY20-21 Funding Application RAI Response and FDEP Funding Assessment Critique
- FY21-22 Annual Funding Request Application and Technical Support Documents
- FY21-22 Funding Application RAI Response and FDEP Funding Assessment Critique
- DEP Quarterly Reports (Quarterly)

Task 10A

- Beach Profile Survey Field Notes
- Beach Profile Survey Plots
- Beach Profile Data Files

Task 10B

- Navigation Channel Survey Field Notes
- Navigation Channel Cross Section Plots
- Navigation Channel Survey Data Files

Task 10C

- Aerial Photographs and Survey Report
- Sea Turtle Monitoring Nest Location Aerial Exhibits

Task 10D

- Inlet Hydraulic Survey Field Notes
- Inlet Hydraulic Parameters and Plots

Task 11A

- 2019 Shorebird Daily Monitoring Reporting
- 2019 Nesting Shorebird Annual Monitoring Report and Nest Location Aerial Exhibits

Task 11B

- 2020 Shorebird Daily Monitoring Reporting
- 2020 Nesting Shorebird Annual Monitoring Report and Nest Location Aerial Exhibits

Task 11C

- Compaction Test Results

Charlotte County 10-Year Beach and Inlet Management Plan
2019-2020 South Beach Fill Renourishment Construction Services Scope

Task 11D

- 2019-20 Wintering Bird Monitoring Reporting (Monthly)
- 2019-20 Wintering Bird Monitoring Summary Report

Task 12

- Second Year Monitoring Report (Draft and Final)

Task 13

- Stakeholder Meeting Minutes, Stakeholder Coordination Memos, & Schedule Updates (Monthly)

Task 14

- FY20-21 Annual Funding Request Application and Technical Support Documents
- FY20-21 Funding Application RAI Response and FDEP Funding Assessment Critique
- FY21-22 Annual Funding Request Application and Technical Support Documents
- FY21-22 Funding Application RAI Response and FDEP Funding Assessment Critique
- DEP Quarterly Reports (Quarterly)

Exhibit "B"

Charlotte County 10-Year Beach and Inlet Management
 2019 SBF Construction Services
 CEC File No. 19.001
 May 6, 2019

Task Description	
TASKS	TOTAL
TASK 1 - SBF FINAL DESIGN AND BID PROCESS	\$20,079
TASK 2 - SBF PHYSICAL MON & CONST PAY SURVEYS	\$80,256
2A Survey Control	\$3,158
2B Beach Profile Physical Monitoring Survey	\$9,000
2C Offshore Borrow Area Surveys	\$12,284
2D Aerial Photography	\$5,871
2E Sediment Analysis	\$4,914
2F Beach Fill Pay Surveys	\$45,029
TASK 3 - SBF BIOLOGICAL MONITORING	\$82,335
3A 2019 Sea Turtle Protection Plan Implementation	\$4,020
3B 2020 Sea Turtle Protection Plan Implementation	\$2,141
3C Shorebird Monitoring	\$16,899
3D Pipeline Corridor Monitoring	\$45,886
3E Compaction Monitoring	\$1,969
3F 2019 Wintering Bird Monitoring	\$5,216
3G 2020 Wintering Bird Monitoring	\$6,204
TASK 4 - SBF CONSTRUCTION ADMINISTRATION	\$24,195
4A Contractor Pre-Construction Conference	\$1,552
4B Agency Pre-Construction Meeting	\$1,552
4C Work Plan, Shop Drawings, and Submittals	\$3,849
4D Construction Progress Meetings and Reporting	\$6,378
4E Pay Applications	\$2,652
4F Change Orders and Contract Modifications	\$4,106
4G Interpretation of Contract Documents	\$4,106
TASK 5 - SBF CERTIFICATIONS & POST-CONST REPORT	\$14,402
5A Substantial Completion	\$3,733
5B Final Inspection	\$3,522
5C Final Certification	\$1,761
5D Post-Construction Report	\$5,386
TASK 6 - SBF CONSTRUCTION OBSERVATIONS	\$39,532
TASK 7 - SBF PROJECT ADMINISTRATION	\$8,430
TASK 8 - SBF ANNUAL FUNDING REQUESTS	\$7,696
8A FY20-21	\$2,932
8B FY21-22	\$2,932
8C DEP Quarterly Reporting	\$1,832
TASK 9 - SBF CONTINGENCIES	\$16,604
TOTALS	\$293,529

Charlotte County 10-Year Beach and Inlet Management
 2019 Stump Pass Navigation Channel Monitoring
 CEC File No. 19.001
 May 6, 2019

Task Description	
TASKS	TOTAL
TASK 10 - FIRST ANNUAL PHYSICAL MONITORING SURVEYS	\$36,333
10A Beach Profiles	\$8,173
10B Navigation Channel	\$9,733
10C Aerial Photography	\$6,414
10D Hydraulic Monitoring	\$12,013
TASK 11 - SECOND ANNUAL BIOLOGICAL MONITORING	\$23,092
11A 2019 Shorebird Monitoring	\$6,141
11B 2020 Shorebird Monitoring	\$6,141
11C Beach Tilling	\$2,335
11D Wintering Bird Monitoring	\$8,475
TASK 12 - SECOND ANNUAL MONITORING REPORT	\$8,306
Second Annual Report	\$8,306
TASK 13 - SPNC PROJECT ADMINISTRATION	\$5,696
SPNC Project Admin	\$5,696
TASK 14 - SPNC ANNUAL FUNDING REQUEST	\$7,600
14A FY20-21	\$2,932
14B FY 21-22	\$2,932
14C DEP Quarterly Reporting	\$1,736
TASK 15 - SPNC CONTINGENCIES	\$8,072
TOTALS	\$89,099