



Contract Modification Work Order Modification

Contract #: 18-7432-CZ Change #: 1 Purchase Order #: 4500222753 Project #: 50280.1

Contractor/Firm Name: APTIM Environmental & Infrastructure, LLC. Contract/Project: Hurricane Ian Post-Storm Engineering Services for FEMA Emergency Berm Project

Project Manager Name: Andrew Miller, P.E. Division Name: Capital Project Planning, Impact Fees, & Program Management

Original Contract/Work Order Amount	\$ 187,636.25	12/13/22; 11.D.	Original BCC Approval Date; Agenda Item #
Current BCC Approved Amount	\$ 187,636.25	N/A	Last BCC Approval Date; Agenda Item #
Current Contract/Work Order Amount	\$ 187,636.25	3/9/2025	SAP Contract Expiration Date (Master)
Dollar Amount of this Change	\$ 54,136.50	28.85%	Total Change from Original Amount
Revised Contract/Work Order Total	\$ 241,772.75	28.85%	Change from Current BCC Approved Amount
Cumulative Changes	\$ 54,136.50	28.85%	Change from Current Amount

Completion Date, Description of the Task(s) Change, and Rationale for the Change

Notice to Proceed Date: 12/28/22 Original Completion Date: 7/26/23 Last Approved Date: 7/26/23 Revised Date: *TBD (Includes this change)

of Days Added: 180 Select Tasks: Add new task(s) Delete task(s) Change task(s) Other

Provide a response to the following: 1.) detailed and specific explanation/rationale of the requested change(s) to the task(s) and / or the additional days added (if requested); 2.) why this change was not included in the original contract; and, 3.) describe the impact if this change is not processed. Attach additional information from the Design Professional and/or Contractor if needed.

- This Work Order is on a Stop Notice with 13 days remaining.
- This change is to increase the funding and time necessary to provide bidding assistance, re-mobilize, re-survey, re-design, monitor construction, and certify the construction of the emergency berm in South Naples (R-79 – R89). The increases are described as follows: Task 1 – Beach Design, Construction Plans & Specifications by \$18,112.00, Task 3 – Pre-Construction and Notice to Proceed by \$7,110.00, Task 4 – Construction Services by \$18,942.00, Task 5 – Pre-Con and Post-Con Beach Surveys (Dry Beach Only) by \$7,779.00, and Task 6 – Reimbursables by \$2,193.50. The time increase request is for 180 additional days.
- This change was not included in the original scope because the intent was to construct the entire berm with the anticipation of being able to acquire the Temporary Beach Reconstruction Easements (TBREs) necessary within the time limitations of the project.
- If the change is not processed, the consultant will not be available to provide bidding assistance, re-mobilize, re-survey, re-design, monitor construction and certify the construction of the emergency berm in South Naples.

Prepared by: _____ Date: _____
(Andrew Miller, P.E. – Manager – Capital Project Planning, Impact Fees, and Program Management)

Acceptance of this Change Order shall constitute a modification to contract / work order identified above and will be subject to all the same terms and conditions as contained in the contract / work order indicated above, as fully as if the same were stated in this acceptance. The adjustment, if any, to the Contract shall constitute a full and final settlement of any and all claims of the Contractor / Vendor / Consultant / Design Professional arising out of or related to the change set forth herein, including claims for impact and delay costs.

Accepted by: _____ Date: _____
(Nicole Sharp, P.E. – Coastal Market Lead – APTIM Environmental & Infrastructure, LLC.)

Approved by: _____ Date: _____
(Beth Johnssen, Division Director)

Approved by: _____ Date: _____
(Trinity Scott, Department Head)

Approved by: _____ Date: _____
(Procurement Professional)

PROCUREMENT USE ONLY		
Admin	BCC Rpt	BCC ES

Change Order/Amendment Summary

CO#	AMD#	Description	COST		TIME		Justification
			Additive (+)	Deductive (-)	Days Added	New Amount	
1	-	Add \$54,136.50 and add 180 days	\$54,136.50	-	180	390	Necessary to provide bidding assistance, re-mobilize, re-survey, re-design, monitor construction, and certify the construction of the emergency berm in South Naples (R-79 – R89).

PROCUREMENT USE ONLY		
Admin	BCC Rpt	BCC ES



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October 24, 2023

Andy Miller
Collier County Coastal Zone Management
2685 S. Horseshoe Drive
Naples, FL 34104

**Re: FEMA Emergency Berm Project Change Order Request: South Naples R-83.5 to R-89
Contract No. 18-7432-CZ**

Dear Andy:

This letter is in response to the continuation of work needed for the FEMA Emergency Berm Project between Collier County (County) and Aptim Environmental & Infrastructure, LLC (APTIM). The work will include engineering and construction phase services to finalize the Emergency Berm Project in South Naples from R-83.5 to R-89. This assistance will consist of modifying the design, bidding assistance, construction monitoring, and consultation with pertinent agencies in support of the South Naples berm construction. This includes weekly visits to the County by the APTIM team during construction.

Included as Exhibits are; the Scope of Work (Exhibit A), Estimated Fee Proposal (Exhibit B), and the Rates Schedule (Exhibit C). APTIM proposes to provide these services on a lump sum basis not-to-exceed \$54,136.50 under the terms and conditions of the existing Contract No. 18-7432-CZ dated March 10, 2020, and as amended May 7, 2020. An additional 180 days are requested to be added onto the work order due to the inclusion of the additional reach and to allow sufficient time for the remobilization of the project, construction oversight, and post-construction reporting.

Sincerely,

A handwritten signature in blue ink, appearing to read 'N Sharp', is written over the typed name and title.

Nicole S. Sharp, P.E.
Coastal Market Lead
Aptim Environmental & Infrastructure, LLC

cc: Stephen Keehn, P.E., APTIM
James Austin, APTIM



Exhibit A
Scope of Work

EXHIBIT A
FEMA EMERGENCY BERM PROJECT CHANGE ORDER No. 1
SOUTH NAPLES R-83.5 TO R-89
CONTRACT NO. 18-7432-CZ
COLLIER COUNTY, FL
OCTOBER 24, 2023

Introduction

This is a scope of work for Aptim Environmental & Infrastructure, LLC (APTIM) to provide the engineering services to complete the South Naples (R-83.5 to R-89) segment as additional work then what was originally proposed in the original scope of work for the FEMA Emergency Berm Project. Due to environmental restrictions, a separate mobilization and modified design required for this reach for inclusion into the project. The work will require an extension of the end date for an additional 180 days in order to allow for the design and construction of the additional reach and completion after the end of sea turtle nesting season on November 1, 2023, for 45,000 tons of truck haul sand.

1. Design, Construction, Plans & Specifications for South Naples (Port Royal)

APTIM engineers will use the pre-construction surveys to update and modify the design to address changes in the profile. A second design will be created to address placing sand at a reduced length if obstacles and a narrow beach width prevents a full-length implementation. The task will include an inspection of the reach to identify obstacles or lack of clear path for the construction equipment and sand placement. This will include developing methods to address the short piles found along the construction alignment.

The goal of the design will be to place material so that the project area will be able to absorb a 5-year level storm based on FEMA's procedures. The design will be FEMA (protective) berm based on post recent post-storm surveys and FEMA's preliminary review of the proposed project size. After review of the preliminary volume estimates, an analysis will be conducted to optimize placement areas and volumes. APTIM will finalize the quantities and fill areas based on consultation with Collier County, FEMA and permitting agencies. APTIM will support the County with up to two (2) coordination meetings related to the project with the County and local stakeholders.

Once the target volumes and placement areas have been approved by the County, APTIM will conduct engineering design work to prepare the construction footprint and typical cross sections. APTIM's GIS/CAD professionals will work directly with APTIM engineers to develop simplified construction plans including plan views and typical cross-sections of project areas, beach access, equipment storage areas, environmental protection areas and other information required for execution of this project.

The construction plans and volumes for contracting will be based on the most recent survey. Technical specifications developed for the project will integrate the QA/QC plans, environmental standards, and permit conditions into the work.

3. Pre-Construction and Notice to Proceed

Once the construction plans and technical specifications are completed, APTIM will provide the

County with a document package containing construction plans, technical specifications, project permits, and probable costs.

APTIM will assist the County in their lead of the special award process. APTIM will participate in the award meeting via phone conference and assist the County in answering technical questions as needed during the award process. APTIM will assist the County in reviewing the contractor's documents and provide a recommendation to the County based on a review of the submitted contract documents to the extend practical.

4. Construction Services

As the Engineer of Record, APTIM will conduct pre-, during- and post-construction tasks necessary for certification of the project. An APTIM engineer will attend the pre-construction conference and update the construction profiles using the latest pre-placement surveys. During construction, APTIM will support the County's inspection efforts and perform weekly site visits to inspect the work at both sites and attend during construction meetings. It is assumed that there will be up to 3 weeks of active hauling during construction. APTIM will prepare a QA/QC check list, delineating the County, contractor, inspector and APTIM duties as a guideline for during construction coordination. APTIM will perform a final inspection once construction of the South Naples berm is complete.

APTIM will review the contractor's pay applications, reconcile and/or review the pay volumes/tonnage based on mine records, weights tickets collected at the beach and available physical surveys. The weight tickets will govern.

APTIM will provide a construction and as-built summary based on the contractor's weight tickets, daily reports, and pre- and post-construction surveys. The as-built report will serve as the documentation to FEMA and FEDP on the sand volume placed. The report will be prepared as a supplement to the original report for construction ending June 2023.

5. Pre- and Post Construction Surveys (Dry Beach Only)

APTIM surveyors will perform pre- and post-construction surveys for 13 profiles lines between R-83.5 and R-89 from the baseline (dunes) to the Mean High Water line.

Summary

This work will be performed on a lump sum basis with a cost not to exceed \$38,015.50 as outlined in the attached fee spreadsheet. The overall time of the contract to complete surveys, certifications and Engineer of Record sign off will be within 390 days of receipt of the Start Work Notice.

Assumptions

- No hardbottom edge survey will be required.
- County inspectors will collect weight tickets, observe delivered sand quality and beach construction, and reconcile sand mine records with weight tickets collected at the beach.
- The County or a third party will perform and prepare reports on the following tasks if needed:
 - 2023 Physical Monitoring

- Marine Turtle Monitoring and Related FWC Coordination
- Shorebird Monitoring
- Turbidity Monitoring (if in water construction work is required)



Exhibit B
Estimated Fee Proposal

EXHIBIT B
ESTIMATED FEE PROPOSAL FOR
SUPPLEMENTAL SCOPE OF WORK - FEMA EMERGENCY BERM PROJECT
COLLIER COUNTY, Contract No. 18-7432-CZ
REQUEST FOR CHANGE ORDER #1

October 24, 2023

Task Item	Cost	Senior Project Manager (Hours)	Engineer (Hours)	Surveyor and Mapper (Hours)	Senior Technician (Hours)	Technician (Hours)	CADD Technician (Hours)	Clerical/ Administrative (Hours)	Mileage Round Trip	Tolls (\$)	Meals (Day)	Enclosed 18" Trailer (Day)	All Terrain Vehicle (Day)	RTK GPS (Day)
1 BEACH DESIGN, CONSTRUCTION PLANS & SPECIFICATIONS	\$18,112.00	24	60	2	6		40	4						
3 PRE-CONSTRUCTION AND NOTICE TO PROCEED	\$7,110.00	16	22				8	2						
4 CONSTRUCTION SERVICES	\$18,942.00	40	81					4						
5 PRE-CON AND POST-CON BEACH SURVEYS (DRY BEACH ONLY)	\$7,779.00	1	1	6	36	36								
6 REIMBURSABLES	\$2,193.50								1100	5	8	2	2	2
	Total Hours =	81	164	8	42	36	48	10	1100	5	8	2	2	2
	Rate =	\$203	\$130	\$125	\$103	\$83	\$107	\$73	\$0.445	\$12	\$36	\$78	\$105	\$495
	Cost =	\$16,443.00	\$21,320.00	\$1,000.00	\$4,326.00	\$2,988.00	\$5,136.00	\$730.00	\$489.50	\$60.00	\$288.00	\$156.00	\$210.00	\$990.00
TOTAL	\$54,136.50													



**Exhibit C
Rate Schedule**

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SCHEDULE B-ATTACHMENT 1
RATE SCHEDULE

Title	Hourly Rate
Principal	\$231
Senior Project Manager	\$203
Project Manager	\$160
Senior Engineer	\$177
Engineer	\$130
Senior Inspector	\$126
Inspector	\$93
Senior Planner	\$150
Planner	\$120
Senior Designer	\$140
Designer	\$105
Environmental Specialist	\$120
Senior Environmental Specialist	\$167
Scientist/Geologist	\$115
Senior Scientist/Geologist	\$153
Marine Biologist/Hydrogeologist	\$120
Senior Marine Biologist/Hydrogeologist	\$145
Senior GIS Specialist	\$155
GIS Specialist	\$115
Clerical/Administrative	\$73
Senior Technician	\$103
Technician	\$83
Surveyor and Mapper	\$125
CADD Technician	\$107
Survey Crew - 2 man	\$145
Survey Crew - 3 man	\$180
Survey Crew - 4 man	\$215
Senior Architect	\$160
Architect	\$125

The above hourly rates are applicable to Time and Materials task(s) only. The above list may not be all inclusive. Hourly rates for additional categories required to provide particular project services shall be mutually agreed upon by the County and firm, in writing, on a project by project basis, as needed, and will be set forth in the Work Order agreed upon by the parties.

Grant Funded: The above rates are for purposes of providing estimate(s), as required by the grantor agency.

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