



**HUMISTON  
& MOORE  
ENGINEERS**

COASTAL  
ENGINEERING DESIGN  
AND PERMITTING

5679 STRAND COURT  
NAPLES, FLORIDA 34110  
FAX: 239 594 2025  
PHONE: 239 594 2021

February 21, 2023  
(Proposal valid for 120 days.)

Andrew Miller, Principal Project Manager  
Coastal Zone Management (CZM)  
Collier County Government  
2685 South Horseshoe Drive Unit 103  
Naples, FL 34104

**Re: Proposal for Collier County Beaches and Inlets Annual Monitoring for 2023  
Collier County Contract 18-7432-CZ; HM File No 29-018.2023Beach-Monitor**

Dear Andy:

Enclosed is a proposal for the Wiggins Pass Inlet, Doctors Pass Inlet, South Marco Beach, and Doctors Pass Erosion Control Structures (includes survey) monitoring reports for 2023. The completion date for all work is estimated to be 365 days from the date of the Notice to Proceed. Rectified aerial images acquired for 2023, provided by the Collier County Property Appraiser's Office, are to be submitted to the Department of Environmental Protection (DEP) by Humiston and Moore Engineers (HM) as part of the work described below for all projects and an aerial image book provided to CZM in pdf format for online posting.

The monitoring report and survey for Central Marco, conducted biennially, is not required for 2023, and the borrow area for South Marco is also not required. These items are not included in the scope of work for the 2023 monitoring.

The monitoring summary reports for Wiggins, Doctors and South Marco will be prepared based on the Post-lan survey conducted by APTIM. This survey does not include the half monuments from R-10 to R-22, the MHWL east of R-17, R-60+518, R-61+408, R-61+816, G-1, K-1 and K-2. The associated reports will be modified accordingly and alternative analysis provided as applicable. The Doctors Pass Erosion Control Structures Report will be based on a survey conducted by Sea Diversified Inc. (SDI).

**Task 1 Wiggins Pass – Final Monitoring Report**

Prepare and submit the annual monitoring summary report for the Wiggins Pass Navigation Channel Expansion and Maintenance Dredging Project based on the Post-lan survey conducted by APTIM. The monitoring summary includes inlet/beach profiles, inlet volume change from previous monitoring surveys, information relative to the 2022 dredging, other information in compliance with the DEP monitoring requirements, comments from CZM staff after review of draft summary, and applicable recommendations.

Task 1 Wiggins Pass Monitoring Report (H&M).....\$ 12,688 TM

Deliverable: One electronic copy of the Final Monitoring Report.



**Task 2 Doctors Pass - Final Monitoring Report**

Prepare and submit the annual monitoring summary report for Doctors Pass Maintenance Dredging Project based on the Post-lan survey conducted by APTIM. The monitoring summary includes inlet/beach profiles, inlet volume change from previous monitoring surveys, information relative to the 2022 dredging, other information in compliance with the DEP monitoring requirements, comments from CZM staff after review of draft summary, and applicable recommendations.

Task 2. Doctors Pass Final Monitoring Report (H&M).....\$ 9,318 TM

Deliverable: One electronic copy of the Final Monitoring Report.

**Task 3 South Marco Beach- Final Monitoring Report**

Prepare and submit the annual monitoring summary report for South Marco Beach Nourishment Project based on the Post-lan survey conducted by APTIM. The monitoring summary includes beach profiles, volume change from previous monitoring surveys, other information in compliance with the DEP monitoring requirements, comments from CZM staff after review of draft summary, and applicable recommendations. This survey scope does not include the Caxambas Pass borrow area, not required by DEP in 2023.

Task 3 South Marco Beach Final Monitoring Report (H&M).....\$ 7,601 TM

Deliverable: One electronic copy of the Final Monitoring Report.

**Task 4 Doctors Pass Structures Survey and Final Monitoring Report**

Provide the annual monitoring report for the Doctors Pass Erosion Control Structures (ECS) Project consistent with the monitoring plan approved by the DEP. This scope of work is based on the survey of DEP monuments R58A-400 south to R-64 (17 profiles)\*.

- Survey is scheduled to be completed by October 2023 pending unforeseen conditions such as poor weather conditions.
- A Final Monitoring Report will be submitted to CZM and DEP within 90 days after the completion of the survey.

Task 4a. Doctors Pass ECS Survey (SDI).....\$ 9,900 LS

Task 4b Doctors Pass ECS Initial and Final Monitoring Report (H&M).....\$ 8,894 TM

Total Task 4 Subtotal (SDI + H&M) .....\$ 18,794

The final monitoring summary includes beach profiles, shoreline/volume change from the previous monitoring surveys, other information in compliance with the DEP monitoring requirements, comments from CZM staff after review of the draft summary, and applicable recommendations.

Deliverable: One electronic copy of the Final Monitoring Report.

\*Includes beach profiles R58A-400, R58A-300, R58A-150, R58A, R58A+150, R58A+300, R58A+425, R58, R58+150, R58+300, R58+600, and R59 to R64.



**Task 5 2023 Aerial Image Book**

Prepare an updated aerial image book for the Collier County Beaches ranging from DEP reference monument R-1 south to R-89 and from Hideaway Beach reference monument H-16 including the entrance to Collier Bay south to DEP reference monument R-148 including Caxambas Pass. The monument locations will be overlaid along with the names of existing structures as noted in the 2022 book. The rectified images will be the latest available from the County Appraiser's Office. The ECL, latest MHWL, and vegetation line will be shown along with the distance from each to the 2003 Baseline.

Task 5. Aerial Image Book (H&M)..... \$ 3,603 TM

Deliverable: One electronic copy of the final Aerial Image Book.

**Total (SDI + H&M) ..... \$ 52,004 Tasks 1 thru 5**

Tasks will be billed on a time and materials basis, unless otherwise noted. The budgets for these tasks may therefore be considered as not-to-exceed amounts with the understanding that in the event regulatory requirements or requests from County staff result in Additional Services exceeding the estimated budget amounts, a budget amendment will be requested.

Please call if you have any questions.

Sincerely yours,

**HUMISTON & MOORE ENGINEERS**



Brett D. Moore, P.E.  
President



Collier County Beaches and Inlets Annual Monitoring 2023 Contract 18-7432-CZ

Estimated Summary

SUMMARY BREAKDOWN BY TASK					
Task 1	Wiggins Pass Final Monitoring Report			\$12,688.00	
Task 2	Doctors Pass Final Monitoring Report			\$9,318.00	
Task 3	South Marco Final Monitoring Report			\$7,601.00	
Task 4	Doctors Pass - Structures Survey and Final Monitoring Report			\$18,794.00	
Task 5	2023 Aerial Image Book			\$3,603.00	
				<b>\$52,004.00</b>	
SUMMARY BREAKDOWN BY SUB-TASK					
Task 1	Wiggins Pass Final Monitoring Report		\$12,688.00	TM	\$12,688
Task 2	Doctors Pass Final Monitoring Report		\$9,318.00	TM	\$9,318
Task 3	South Marco Final Monitoring Report		\$7,601.00	TM	\$7,601
Task 4	Doctors Pass Structures Survey		\$9,900.00	LS	
Task 4	Doctors Pass Structures Final Monitoring Report		\$8,894.00	TM	\$18,794
Task 5	2023 Aerial Image Book		\$3,603.00	TM	\$3,603
<b>SUMMARY</b>					<b>\$52,004</b>
	<b>Sea Diversified Survey</b>			<b>9,900.00</b>	<b>(LS)</b>
	<b>Title</b>	<b>Rate</b>	<b>Hours</b>		<b>\$52,004</b>
PRN2	Principle	\$231	29	\$6,899	
SDS	Engineer	\$130	162.5	\$21,125	
SIN	Scientist/Geologist	\$115	70	\$8,050	
SRT	Senior Technician	\$103	41	\$4,223	
TEC	Technician	\$83	10	\$830	
CAD	Cadd Technician	\$107	11	\$1,177	

Humiston & Moore Engineers

\$42,104 (TM)

TOTAL

\$52,004



Task 1 Wiggins Pass Final Monitoring Report							
						HM (T&M)	\$12,688.00
			RATE/UNIT	HOURS/QT	COST	MARKUP	AMOUNT
PRN2	Principle		231	8			1,848.00
SDS	Engineer		130	40			5,200.00
SIN	Scientist/Geologist		115	20			2,300.00
SRT	Senior Technician		103	21			2,163.00
CAD	Cadd Technician		107	11			1,177.00
							\$12,688.00 (TM)
Task 2 Doctors Pass Final Monitoring Report							
						HM (T&M)	\$9,318.00
			RATE/UNIT	HOURS/QT	COST	MARKUP	AMOUNT
PRN2	Principle		231	8			1,848.00
SDS	Engineer		130	53.5			6,955.00
SRT	Senior Technician		103	5			515.00
							\$9,318.00 (TM)
Task 3 South Marco Final Monitoring Report							
						HM (T&M)	\$7,601.00
			RATE/UNIT	HOURS/QT	COST	MARKUP	AMOUNT
PRN2	Principle		231	4			924.00
SIN	Scientist/Geologist		115	50			5,750.00
SRT	Senior Technician		103	9			927.00
							\$7,601.00 (TM)
Task 4 Doctors Pass Structures Survey and Final Monitoring Report							
Survey		SDI (LS)					9,900.00
						HM (T&M)	8,894.00
			RATE/UNIT	HOURS/QT	COST	MARKUP	AMOUNT
PRN2	Principle		231	6			1,386.00
SDS	Engineer		130	53			6,890.00
SRT	Senior Technician		103	6			618.00
							\$8,894.00 (TM)
						Total:	\$18,794.00
Task 5 2023 Aerial Image Book							
						HM ( T&M)	\$3,603.00
			RATE/UNIT	HOURS/QT	COST	MARKUP	AMOUNT
PRN2	Principle		231	3			693.00
SDS	Engineer		130	16			2,080.00
TEC	Technician		83	10			830.00
						Total:	\$3,603.00 (TM)
	Title		Rate	Hours			
PRN2	Principle		\$231	29			\$6,699.00
SDS	Engineer		\$130	162.5			\$21,125.00
SIN	Scientist/Geologist		\$115	70			\$8,050.00
SRT	Senior Technician		\$103	41			\$4,223.00
TEC	Technician		\$83	10			\$830.00
CAD	Cadd Technician		\$107	11			\$1,177.00
							\$42,104.00 (TM)
Humiston & Moore Engineers							\$42,104.00
TOTAL						H&M	\$42,104.00
						SDI Only	\$9,900.00
<b>Grand Total</b>							<b>\$52,004.00</b>



\* \* \* \* \*

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.

\* \* \* \* \*

Page 2 of 3

First Amendment to Agreement # 18-7432-CZ  
Humiston & Moore Engineers, P.A.

CAO

CAO



## Direct Select Form

Request Date	Contract No.	Proposal Cost Estimate	Construction Cost Estimate
08.11.22	18-7432-CZ	\$170,000	N/A
Requested By <i>(Use name as it appears in Outlook):</i> Andrew Miller		Division / Department: Capital Project Planning, Impact Fees, & Program Management	
Administrative Agent <i>(If different from Requestor):</i>			
Library Category: Coastal Engineering		Vendor Name: Humiston & Moore Engineers, P.A.	
Work Assignment Title: 2023 Collier County Beaches and Inlets Annual Monitoring			
Description of Requested Services: Permit-required annual beach and inlet monitoring and report.			
Justification: <i>(Select all that apply and explain below)</i>		<input checked="" type="checkbox"/> Past experience with project <input type="checkbox"/> Continuation of previous work assignment <input type="checkbox"/> Unique qualifications <input type="checkbox"/> Other	
Comments / Explanation of Direct Select: H&M performs this work annually and is best suited to continue based on their experience and their knowledge of the County's requirements.			
Requestor: Andrew Miller		Signature: MillerAndrew <small>Digitally signed by MillerAndrew Date: 2022.08.12 07:15:28 -04'00'</small>	Date: 08.11.22
Division Director: Beth Johnssen		Signature: Johnssen_b <small>Digitally signed by Johnssen_b Date: 2022.08.12 16:29:34 -04'00'</small>	Date:
Procurement Director:		Signature: BigelowCatherine <small>Digitally signed by BigelowCatherine Date: 2022.08.19 08:53:32 -04'00'</small>	Date:

