

TASK ORDER APPROVAL FORM

CONTRACT #: C22-3221-TDD

TASK ORDER #: 2

TASK ORDER AMOUNT: \$ 48,074.00

CONTRACT: C22-3221-TDD
MRD ASSOCIATES, INC.
COASTAL & ENVIRONMENTAL ENG SERVICES
EXPIRES: 08/15/2025 W/2 1 YR RENEWALS

OFFERED BY CONSULTANT:

MRD Associates, Inc.

FIRM'S NAME

Michael R. Dombrowski

REPRESENTATIVE'S PRINTED NAME

Michael R. Dombrowski

SIGNATURE

President

02/15/2023

TITLE

DATE

RECOMMENDED FOR APPROVAL
(Department Director)

Jennifer
Adams

Digitally signed by
Jennifer Adams
Date: 2023.02.16
07:19:25 -06'00'

SIGNATURE

TDD Director

TITLE

DATE

Charlotte Dunworth
Digitally signed by
Charlotte Dunworth
Date: 2023.02.16
08:50:32 -05'00'

APPROVED BY OKALOOSA COUNTY
(Per Purchasing Manual) Table 1

DeRita Mason

Digitally signed by DeRita Mason
Date: 2023.02.16 07:45:05 -06'00'

PURCHASING MANAGER

DATE

Faye Douglas

Digitally signed by Faye Douglas
Date: 2023.02.16 10:07:46 -06'00'

OMB Director/DATE

DATE

COUNTY ADMINISTRATOR (if applicable)

DATE

CHAIRMAN (if applicable)

DATE

VIA EMAIL

February 15, 2023

Mr. Alex Fogg, Coastal Resource Manager
Tourist Development Department
Okaloosa County
1540 Miracle Strip Parkway
Fort Walton Beach, Florida 32548
afogg@myokaloosa.com



mrd associates, inc.

Coastal, Marina & Water Resources Engineering

543 Harbor Blvd., Suite 204
Destin, Florida USA 32541
850.654.1555 • (fax) 654.0550

Subject: COASTAL AND ENVIRONMENTAL ENGINEERING SERVICES
CONTRACT NUMBER: C22-3221-TDD
Task Order 2 – Okaloosa Island and Destin Beach and Offshore Surveys 2023

Dear Mr. Fogg,

At your request, attached is Task Order 2 for the *Okaloosa Island and Destin Beach and Offshore Surveys 2023* under the County's Contract Number C22-3221-TDD with MRD Associates, Inc.

If you have any questions, please feel free to give me a call at 850.654.1555.

Sincerely,

mrd associates, inc.

A handwritten signature in black ink that reads "Michael R. Dombrowski". The signature is written in a cursive style with a prominent initial "M".

Michael Dombrowski, P.E.
Principal Engineer
md@mrd-associates.com

COASTAL AND ENVIRONMENTAL ENGINEER SERVICES
CONTRACT NUMBER C22-3221-TDD
Task Order 2 – Okaloosa Island and Destin Beach and Offshore Surveys 2023
Scope of Work

MRD Associates, Inc. (MRD) will conduct beach and offshore surveys along Okaloosa Island and City of Destin shoreline for Okaloosa County (COUNTY) which will include:

- 1) Okaloosa Island - 16 profile lines (FDEP Monuments R-1 to R-16); and,
- 2) City of Destin - 34 profile lines from East Pass (R-17) to the Okaloosa-Walton County line (R-50).

I. SCOPE OF WORK

Task 1.0 Beach and Offshore Profiles

Dewberry Engineers, Inc. (sub-contractor to MRD) will perform beach and offshore profile surveys from FDEP Monuments R-1 through R-16 (16 profiles) as shown in Figure 1, and from FDEP Monuments R-17 through R-50 (34 profiles) as shown in Figure 2 for a total of 50 profile lines. All work shall be conducted under the direct responsible charge of a Florida Licensed Professional Surveyor and Mapper and be in accordance with “Section 01000 Beach Profiling Topographic Surveying” and “Section 01100 Offshore Profile Surveying” specified in “Monitoring Standards for Beach Erosion Control Projects”, prepared by DEP, edited October 2014 (or later), as well as Chapter 5J-17, Florida Administrative Code (FAC). Vertical and horizontal data will be collected and presented in feet based upon the North American Vertical Datum of 1988 (NAVD 88) and Florida State Plane Coordinate System, North American Datum of 1983/1990 (NAD 83/90), respectively.

Beach profiles shall begin at least 200 feet landward of the R-monument and extend seaward to a reasonable wading depth. The beach profiles will be conducted using standard Real-Time Differential Global Positioning System (RTK/DGPS) surveying techniques. Elevations shall be taken at a maximum of 10-foot intervals along each profile line and at all grade breaks or major changes.

Offshore profiles shall extend a minimum of 3,000 feet seaward of the R-monument and have adequate overlap with the seaward limit of the wading survey. Soundings shall be obtained continuously along the offshore profiles and be acquired using a survey vessel with centrally located, hull-mounted transducer. Horizontal positioning will be acquired, and soundings obtained by RTK using a single-frequency fathometer and Trimble Real-time RTK/DGPS. Coastal Oceanographics’ “HYPACK” system will be used for vessel navigation, data collection/storage and for merging the beach and offshore data. All calibrations including fathometer, horizontal position, measurement of static draft, squat and settlement shall be conducted and documented in accordance with published requirements.

Upon completion of the surveys, the raw data will be reviewed and processed. Electronic spikes and/or other anomalies shall be removed and/or reconciled after comparison with fathometer charts. The beach and offshore data will be merged and edited to form a continuous string of profile data and plotted along with historic profile lines. The bathymetric data will be contoured at appropriate scaled intervals and plotted. The Task 1.0 surveys will extend offshore beyond the depth of closure and will be used to calculate the shoreline position, and shoreline and volume changes and rates both above and below the MHWL.

II. INFORMATION TO BE PROVIDED BY THE COUNTY

The COUNTY will provide MRD with any survey data of the Study Area (beach and offshore surveys) in digital format, monitoring reports, and other relevant information.

III. ASSUMPTIONS AND EXCLUSIONS

This investigation will be limited to the services listed in Task 1.0.

IV. FEES AND EXPENSES, AND SCHEDULE

Total estimated Fees and Expenses for the described services shall be \$48,074.00.

The beach and offshore surveys will be performed in June 2023 – weather dependent and may commence within 2 weeks of receiving the Notice to Proceed. The survey data will be processed and submitted to the COUNTY within 60-days of completion of the field surveys. Refer to the attached breakdown of fees.

Michael R. Dombrowski

Signature

February 15, 2023

Date

Michael Dombrowski, P.E., President
Printed Name, Title

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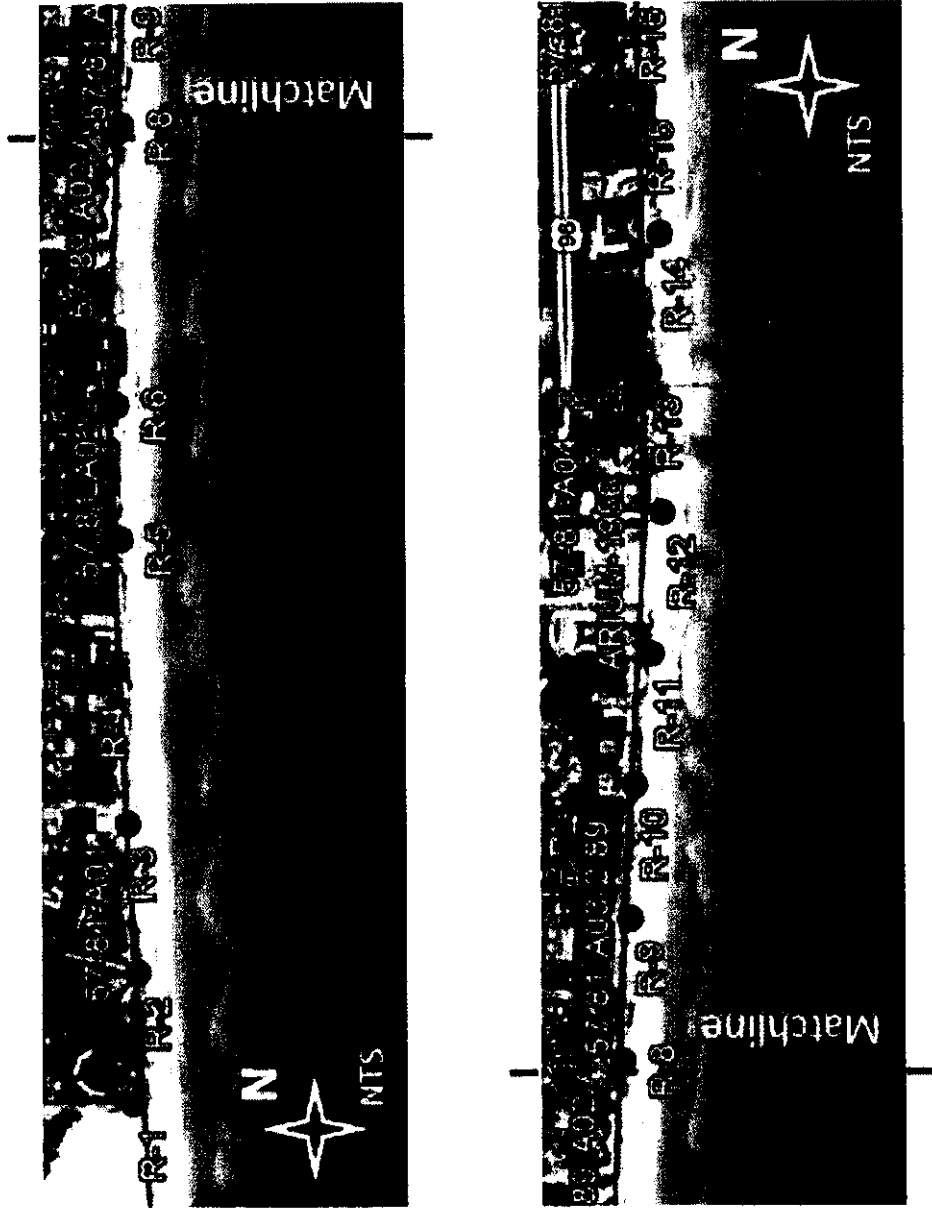


Figure 1. Okaloosa Island – Monitoring limits from DEP Monument R-1 to R-16.

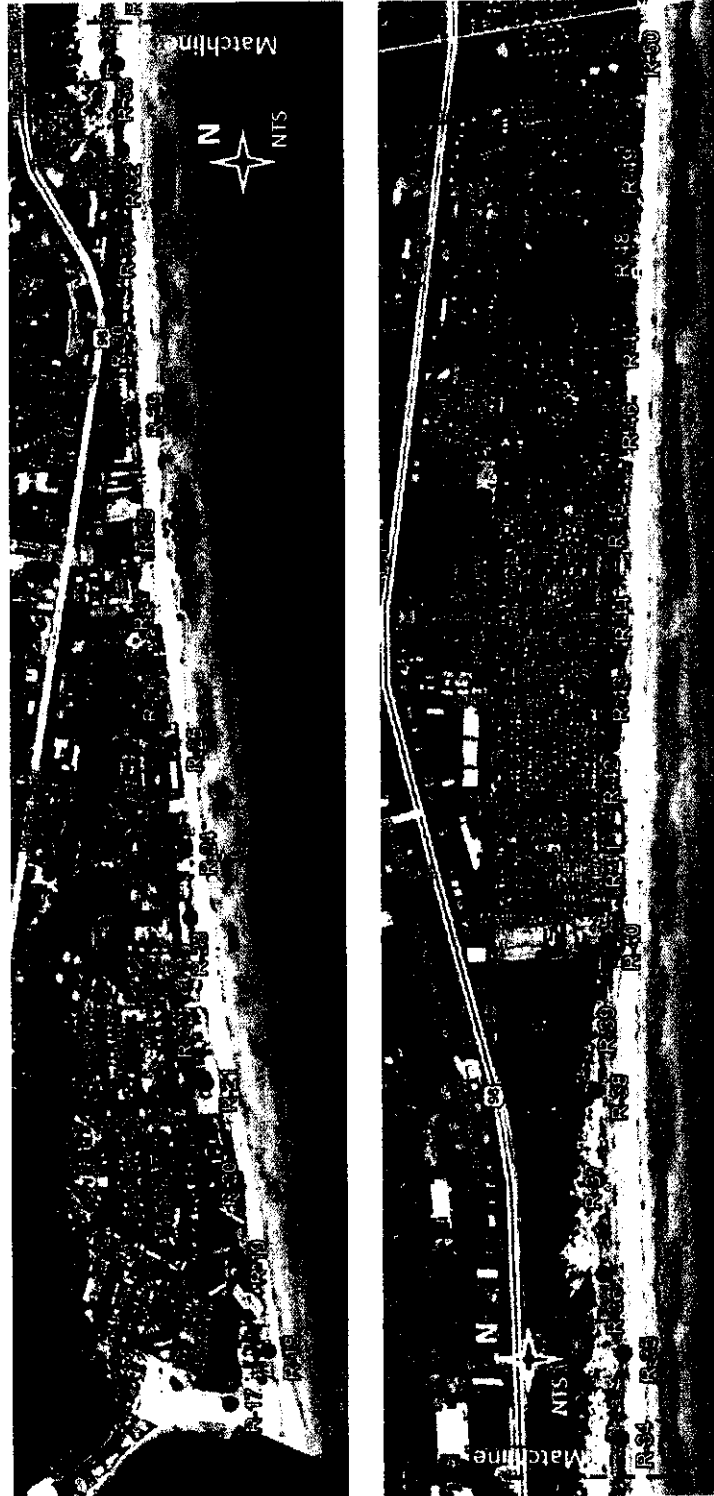


Figure 2. Destin, Florida— Monitoring limits from DEP Monument R-17 to R-50.

City of Destin and Okaloosa Island, Florida
Beach and Offshore Surveys
Contract Number C22-3221-TDD Task Order No. 2
February 15, 2023

HOURS AND FEE ESTIMATE BY TASK																
TASK	<i>MRD Associates, Inc.</i>						<i>DEWBERRY Engineers, Inc.</i>						Totals			
	Principal Engineer \$245	Senior Engineer \$205	Engineer II \$195	Engineer Tech I \$85	Sub-Totals		Surveyor VII \$160	Survey Crew \$220	Surveyor IV \$112	CADD Tech III \$120	Admini. Pro. II \$90	Sub-Totals		FEES	EXPENSES	FEES AND EXPENSES
					FEES	EXPENSES						FEES	EXPENSES			
1.0. BEACH AND OFFSHORE SURVEYS																
1.1. Beach and Offshore Surveys - Okaloosa Island (16 profiles)	1.0	1.0	0.0	2.5	\$662.50	\$0.00	10.0	30.0	30.0	20.3	8.0	\$14,718.00	\$0.00	\$15,378.50	\$0.00	\$15,378.50
1.2. Beach and Offshore Surveys - Destin (34 profiles)	1.0	1.0	0.0	6.3	\$985.50	\$0.00	30.0	60.0	60.0	44.0	19.0	\$31,710.00	\$0.00	\$32,695.50	\$0.00	\$32,695.50
TOTALS:	2.0	2.0	0.0	8.8	\$1,648.00	\$0.00	40.0	90.0	90.0	64.3	27.0	\$46,428.00	\$0.00	\$48,074.00	\$0.00	\$48,074.00