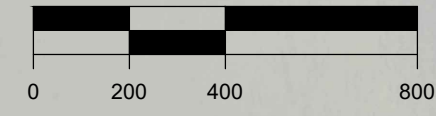


**PUBLISHED TIDAL INFORMATION**

TIDAL DATUMS AT PUNTA GORDA, CHARLOTTE COUNTY ARE BASED ON FLORIDA 872 5744 TIDE STATION, PUBLISHED 10-18-2010.  
 LENGTH OF SERIES = 8 MONTHS  
 TIME PERIOD = 7/1977 - 2/1978  
 TIDAL EPOCH = 1983 - 2001  
 CONTROL TIDE STATION = 872 5110 NAPLES, GULF OF MEXICO  
 ELEVATIONS OF TIDAL DATUMS ARE REFERENCED IN NAVD 1988.  
 MEAN HIGH WATER (MHW) = +0.06 FT NAVD  
 MEAN TIDE LEVEL (MTL) = -0.57 FT NAVD  
 MEAN LOW WATER (MLW) = -1.20 FT NAVD  
 MEAN LOWER LOW WATER (MLLW) = -1.65 FT NAVD

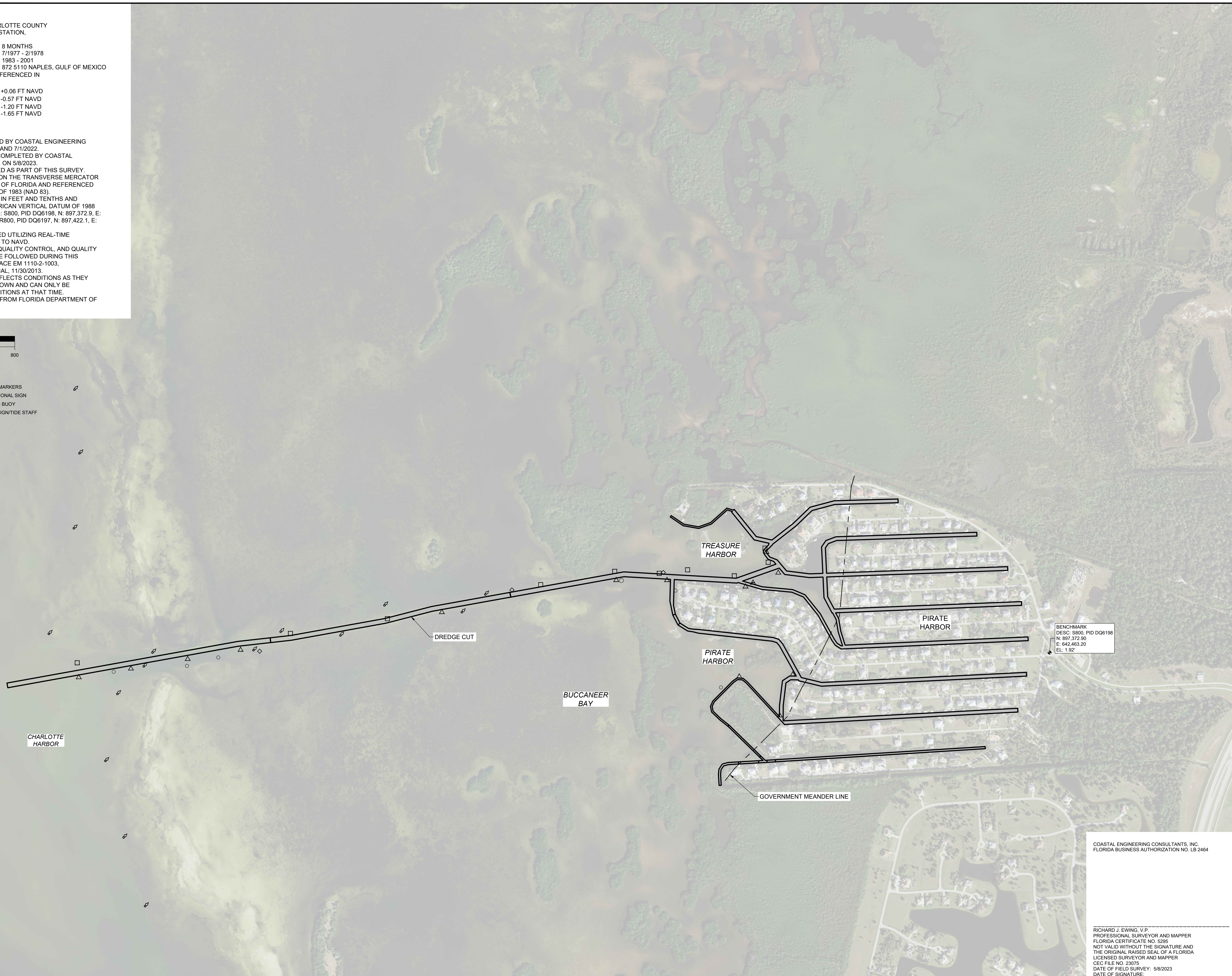
**NOTES**

- BATHYMETRIC SURVEY COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC., ON 2/4-5/2021 AND 7/1/2022.
- POST-PLAN BATHYMETRIC SURVEY COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC., ON 5/8/2023.
- CHANNEL MARKERS WERE LOCATED AS PART OF THIS SURVEY.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- ELEVATIONS SHOWN HEREON ARE IN FEET AND TENTHS AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD). REFERENCE BENCHMARKS: S800, PID DQ6198, N: 897,372.9, E: 642,463.2, ELEV: 1.92 FT NAVD AND R800, PID DQ6197, N: 897,422.1, E: 644,818.9, ELEV: 11.16 FT NAVD.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS AND REFERENCED TO NAVD.
- SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING MANUAL, 11/30/2013.
- INFORMATION SHOWN HEREON REFLECTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
- AERIAL PHOTOGRAPHY OBTAINED FROM FLORIDA DEPARTMENT OF TRANSPORTATION, DATED 2020.



**LEGEND**

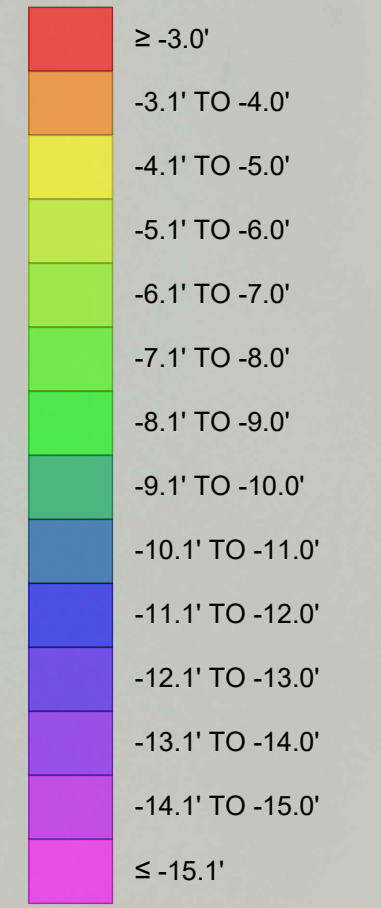
- ▲ = EXISTING CHANNEL MARKERS
- = EXISTING INFORMATIONAL SIGN
- ⊙ = EXISTING SEAGRASS BUOY
- ◇ = EXISTING CAUTION SIGN/TIDE STAFF



<b>CHARLOTTE COUNTY</b>	
<b>PIRATE HARBOR BATHYMETRIC SURVEY PLAN VIEW</b>	
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464 TITLE:	SCALE: 7/10/2023 AS NOTED DATE: 7/10/2023 DRAWN: SDB F.B. CHECKED: RJE JG. SEC: TWP. RING. ACAD NO. 23075-Pirate Harbor.dwg REF. NO. 23,075 NO. DATE BY REVISION DESCRIPTION
COASTAL ENGINEERING CONSULTANTS, INC. FLORIDA BUSINESS AUTHORIZATION NO. LB 2464 Serving Florida Since 1977 28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FLORIDA, 34135 PHONE: (239)643-2324 FAX: (239)643-1143 www.coastal-engineering.com E-Mail: info@cecfla.com	
RICHARD J. EWING, V.P. PROFESSIONAL SURVEYOR AND MAPPER FLORIDA CERTIFICATE NO. 5295 NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER CEC FILE NO. 23075 DATE OF FIELD SURVEY: 5/8/2023 DATE OF SIGNATURE:	
SHEET 1 FILE NO.: 23075-PH-1	

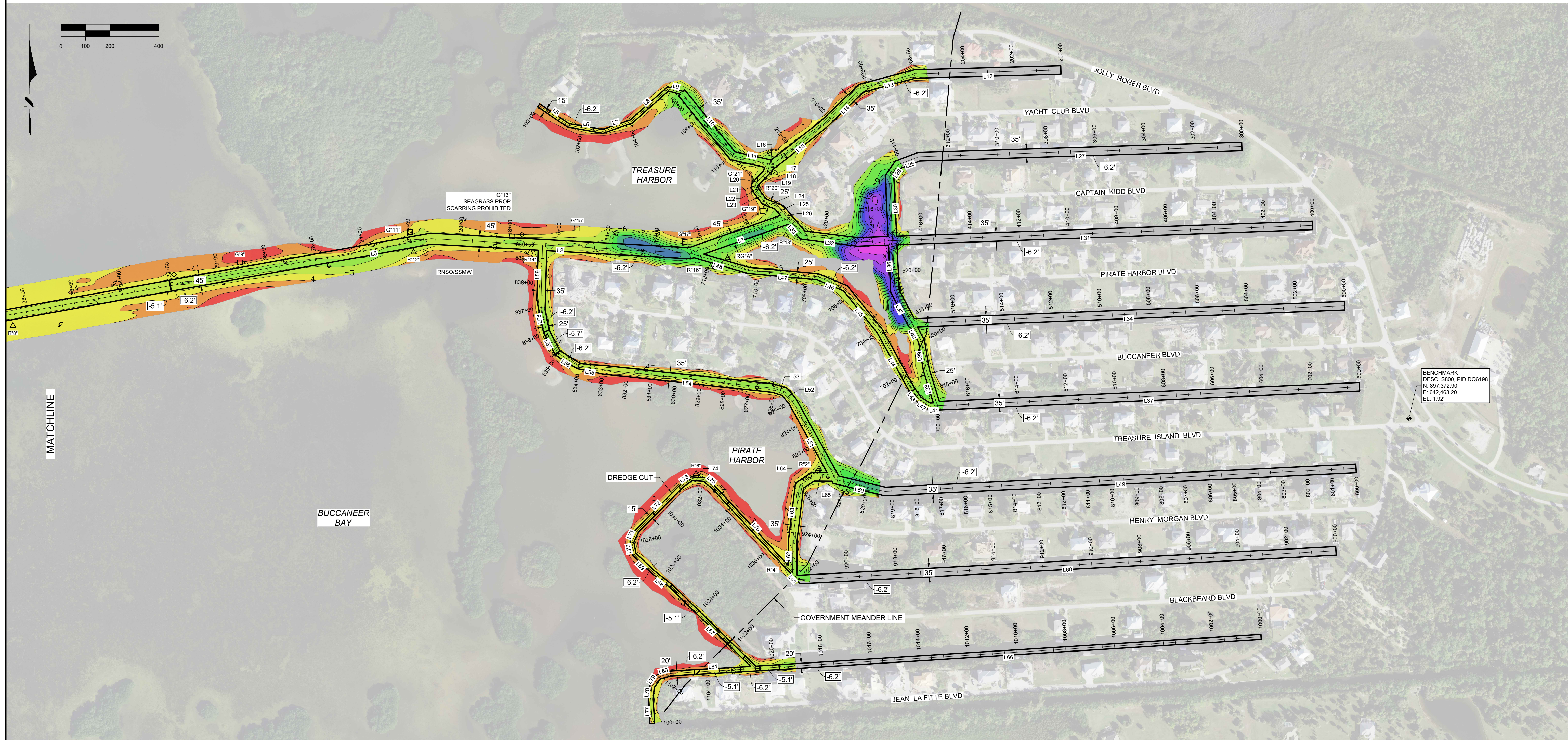
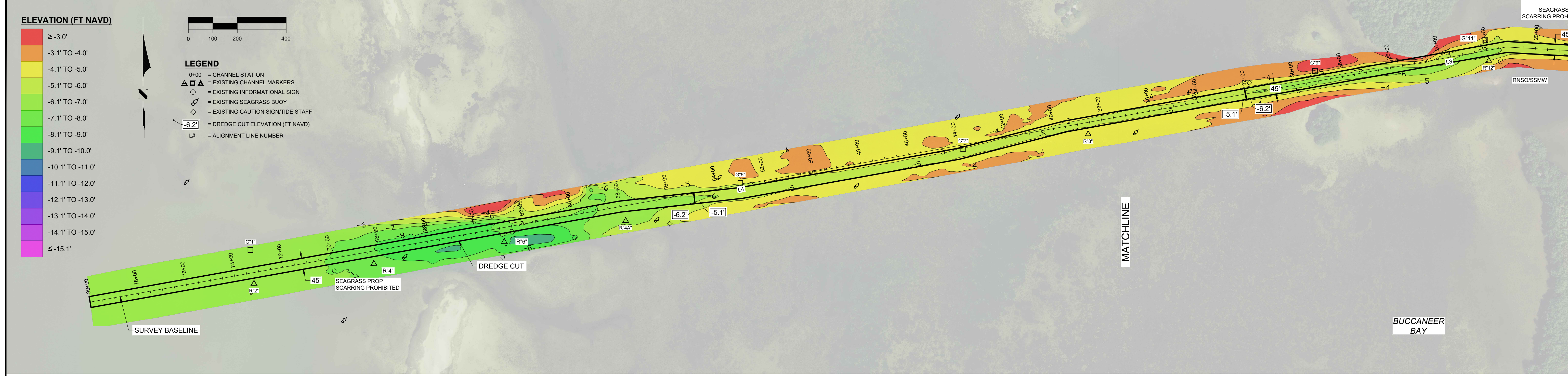
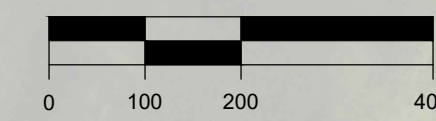


**ELEVATION (FT NAVD)**



**LEGEND**

- 0+00 = CHANNEL STATION
- △ = EXISTING CHANNEL MARKERS
- = EXISTING INFORMATIONAL SIGN
- ◇ = EXISTING SEAGRASS BUOY
- ◇ = EXISTING CAUTION SIGN/TIDE STAFF
- 6.2' = DREDGE CUT ELEVATION (FT NAVD)
- L# = ALIGNMENT LINE NUMBER



DATE:	7/10/2023	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	RJE	PG.	
SEC.	TWP.	RNG.	
ACAD NO.	23075-Pirate Harbor.dwg		
REF. NO.	23.075	NO.	BY
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464 TITLE: CHARLOTTE COUNTY PIRATE HARBOR BATHYMETRIC SURVEY DETAILED PLAN VIEW PHONE: (239)643-2324 FAX: (239)643-1143 www.cemsi-engineering.com E-Mail: info@cemsi.com			
SHEET 2 FILE NO.: 23075-PH-2			





**LEGEND**

- = DREDGE AREA
- = EXISTING GRADE (FEB. 2021)
- = EXISTING GRADE (JULY 2022)
- = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

<b>CLIENT:</b> CHARLOTTE COUNTY		<b>DATE:</b> 7/10/2023		<b>SCALE:</b> AS NOTED	
<b>ENGINEER:</b> COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464		<b>DRAWN:</b> SDB		<b>F.B.:</b> MTP	
<b>CONSULTANTS:</b> COASTAL ENGINEERING INC.		<b>CHECKED:</b> TWP.		<b>PG.:</b> RNC.	
<b>INC.:</b> Serving Florida Since 1977		<b>ACAD NO.:</b> 23075-Pirate Harbor.dwg		<b>NO.:</b> 23 075	
28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FLORIDA 34135		<b>REF. NO.:</b>		<b>DATE:</b>	
<b>PHONE:</b> (239)643-2324		<b>FAX:</b> (239)643-1143		<b>BY:</b>	
<b>WWW:</b> www.coastal-engineering.com		<b>E-MAIL:</b> info@cecinc.com		<b>REVISION DESCRIPTION:</b>	
<b>SHHEET 3</b>		<b>FILE NO.:</b> 23075-PH-3			



**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (JULY 2022)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 30+50 TO 47+00

**COASTAL ENGINEERING CONSULTANTS INC.**  
 Serving Florida Since 1977  
 28421 BONITA CROSSINGS BLVD.  
 BONITA SPRINGS, FLORIDA 34135  
 PHONE: (239) 643-2324  
 FAX: (239) 643-1143  
 www.cei-engineering.com  
 E-Mail: info@ceiinc.com

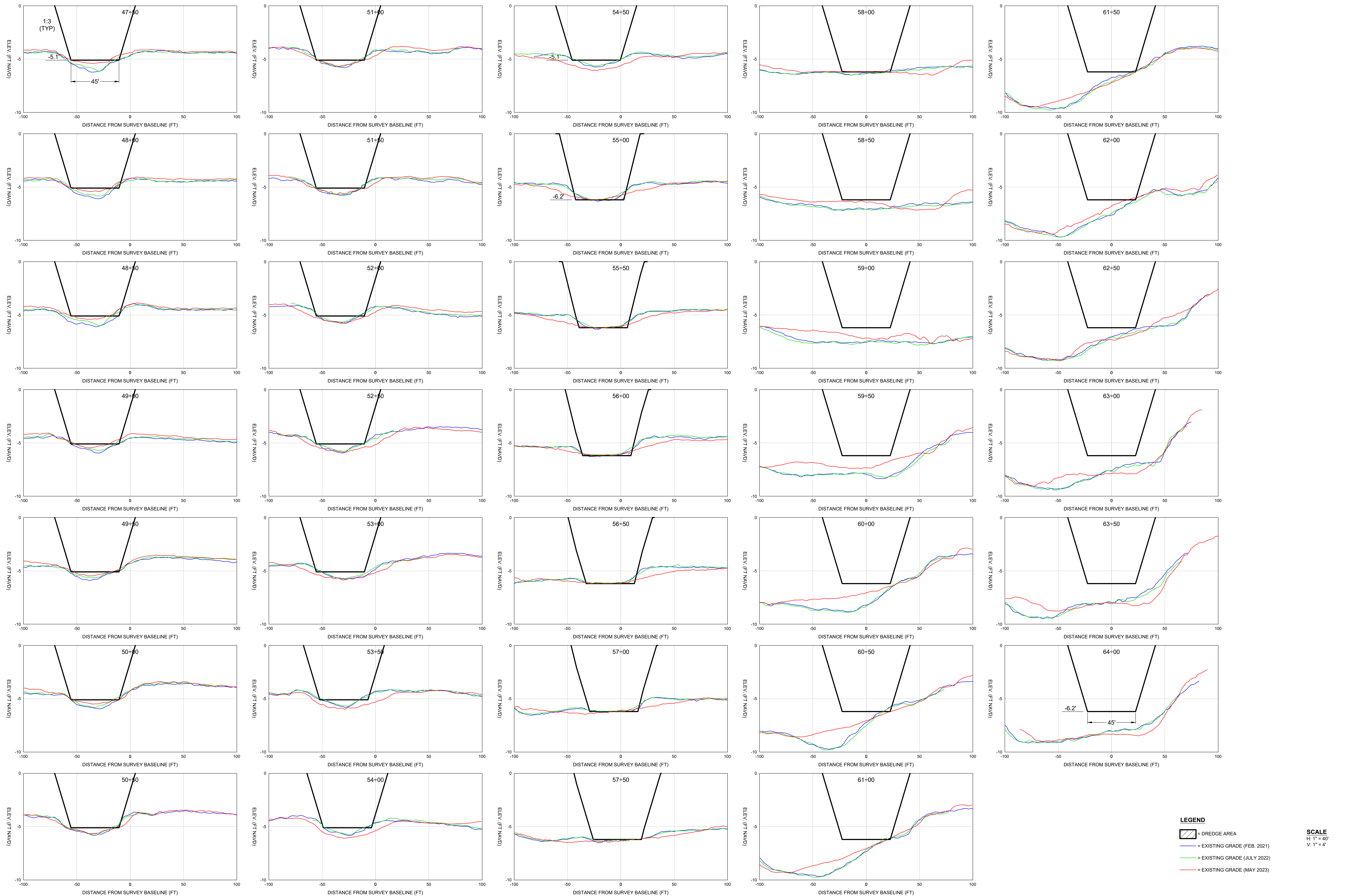
**DATE:** 7/10/2023  
**SCALE:** AS NOTED  
**DRAWN:** SDB F.B.  
**CHECKED:** MTP JG.  
**SEC:** TWP. RNG.  
**ACAD NO.:** 23075-Pirate Harbor.dwg  
**REF. NO.:** 23.075  
**NO.:** 23.075  
**DATE:**  
**BY:**

**REVISION DESCRIPTION**

SHEET 4  
 FILE NO.: 23075-PH-4

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**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (JULY 2022)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

CLIENT: CHARLOTTE COUNTY  
 TITLE: PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 47+50 TO 64+00

COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464  
 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastal-engineering.com  
 E-Mail: info@cecinc.com

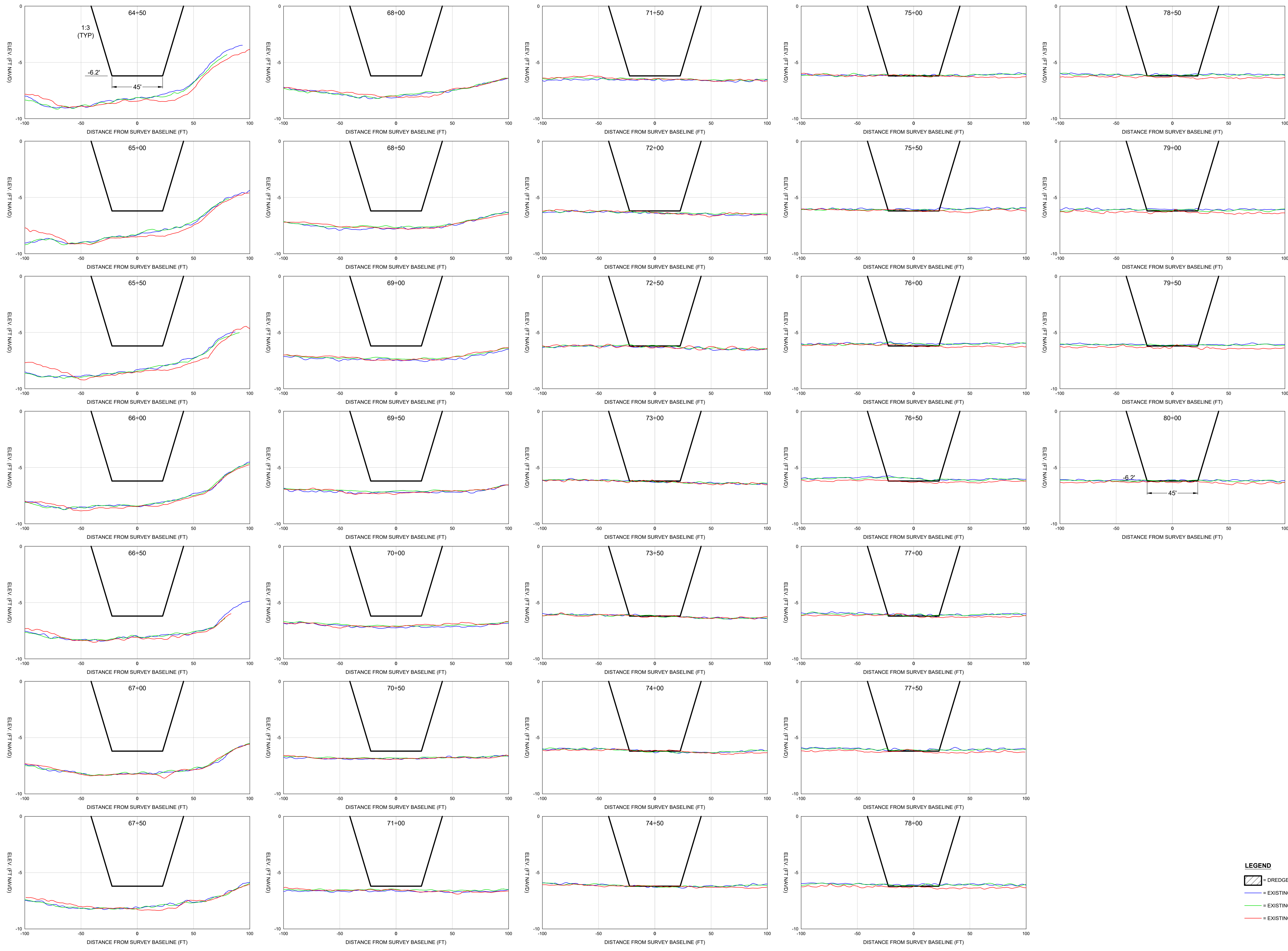
COASTAL ENGINEERING CONSULTANTS, INC.  
 Serving Florida Since 1977  
 28421 BONITA CROSSINGS BLVD.  
 BONITA SPRINGS, FLORIDA 34135

DATE:	7/10/2023	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MTP	JG.	
SEC.	TWP.	RNG.	
ACAD NO.	23075-Pirate Harbor.dwg		
REF. NO.	23.075	NO.	
		DATE	
		BY	
		REVISION DESCRIPTION	

SHEET 5  
 FILE NO.: 23075-PH-5

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**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (JULY 2022)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 64+50 TO 80+00

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 FAX: (239)643-1143  
 www.coastal-engineering.com  
 E-Mail: info@cecinc.com

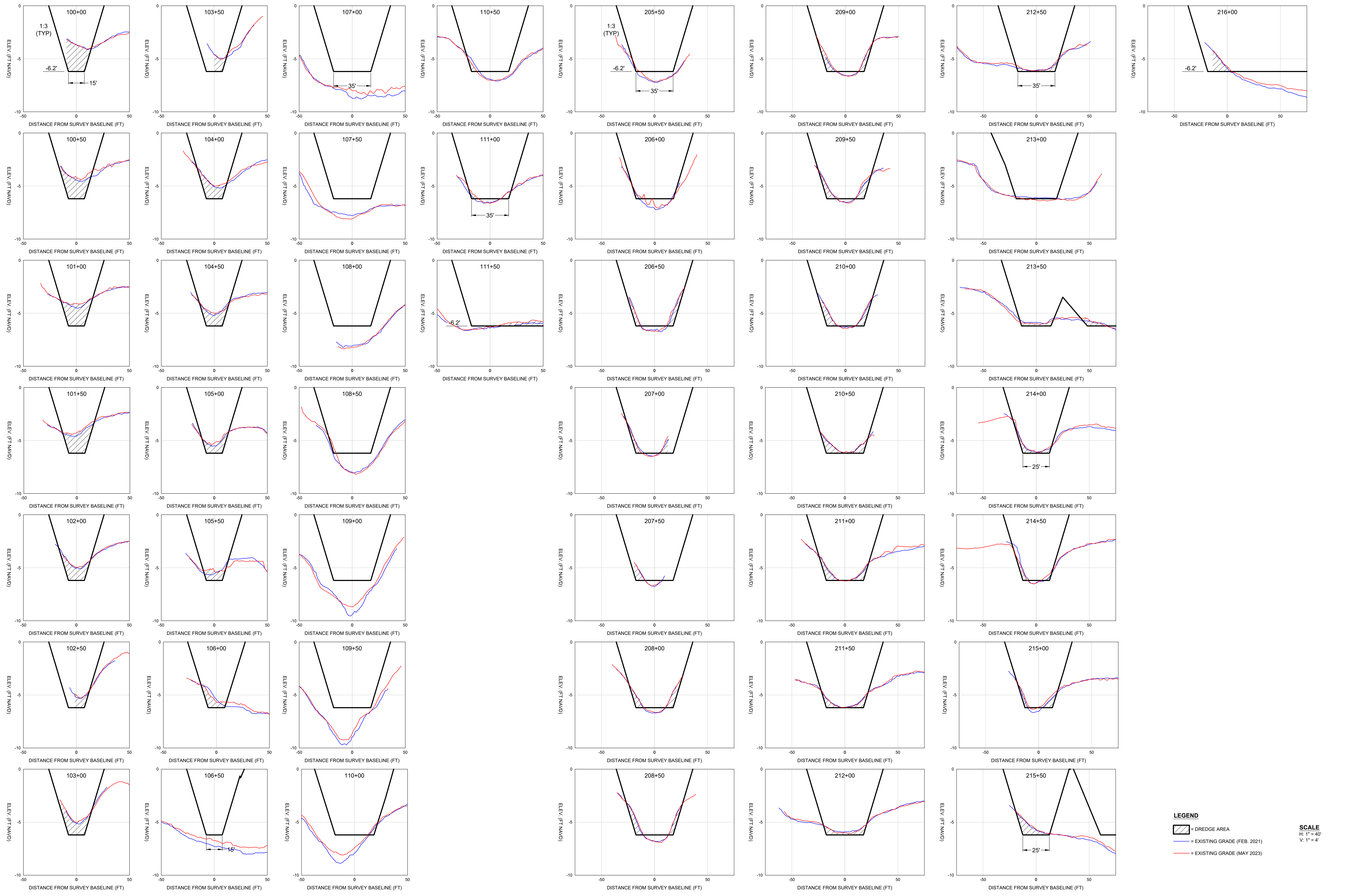
**DATE:** 7/10/2023  
**DRAWN:** SDB F.B.  
**CHECKED:** MTP JG.  
**SEC:** TWP. / RNG.  
**ACAD NO.:** 23075-Pirate Harbor.dwg  
**REF. NO.:** 23.075

**SCALE:** AS NOTED  
**DATE:** 7/10/2023  
**DRAWN:** SDB F.B.  
**CHECKED:** MTP JG.  
**SEC:** TWP. / RNG.  
**ACAD NO.:** 23075-Pirate Harbor.dwg  
**REF. NO.:** 23.075

NO.	DATE	BY	REVISION DESCRIPTION

**SHEET 6**  
**FILE NO.:** 23075-PH-6





**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

CLIENT: CHARLOTTE COUNTY  
 PIRATE HARBOR  
 BATHYMETRIC SURVEY  
 CROSS SECTIONS: 100+00 TO 111+50  
 AND 205+50 TO 216+00

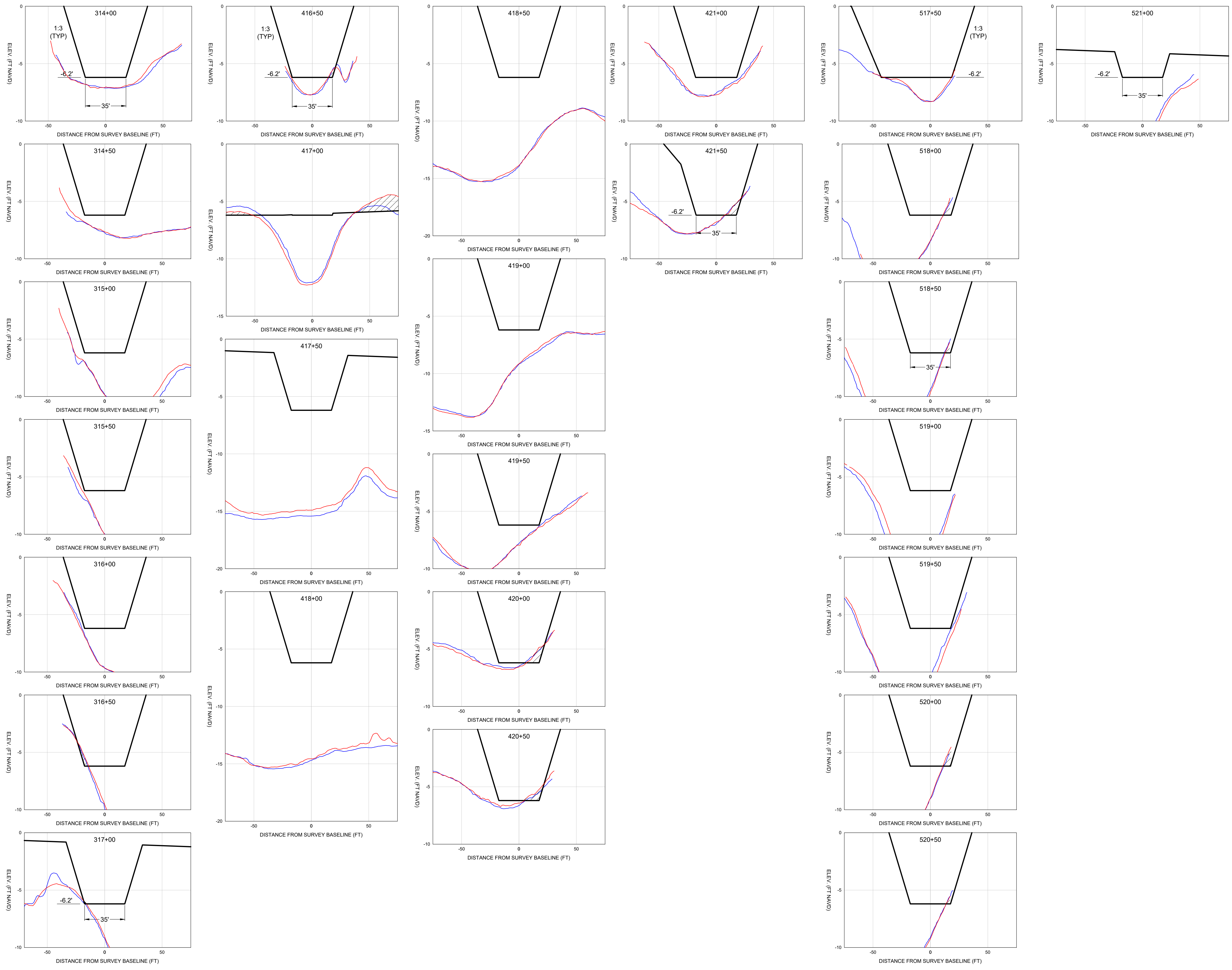
COASTAL & MARINE ENGINEERING  
 ENVIRONMENTAL & GEOLOGICAL SERVICES  
 SURVEY AND MAPPING  
 ENGINEERING, CA 2464  
 SURVEYING, LB 2464  
 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastal-engineering.com  
 E-Mail: info@cecinc.com

TITLE:

DATE:	7/10/2023	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MTP	JG.	
SEC.	TWP.	RNG.	
ACAD NO.	23075-Pirate Harbor.dwg		
REF. NO.	23.075	NO.	BY
			DATE
			REVISION DESCRIPTION

SHEET 7  
 FILE NO.: 23075-PH-7





**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

COASTAL ENGINEERING CONSULTANTS  
 ENVIRONMENTAL & GEOTECHNICAL SERVICES  
 SURVEY AND MAPPING  
 ENGINEERING, CA 2464  
 SURVEYING, LB 2464  
 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastal-engineering.com  
 E-Mail: info@cecinc.com

CLIENT: CHARLOTTE COUNTY  
 PIRATE HARBOR  
 BATHYMETRIC SURVEY  
 CROSS SECTIONS: 314+00 TO 317+00, 416+50 TO 421+50, 517+50 TO 521+00

DATE: 7/10/2023  
 SCALE: AS NOTED  
 DRAWN: SDB F.B.  
 CHECKED: MTP JG.  
 SEC: TWP: RING.  
 ACAD NO. 23075-Pirate Harbor.dwg  
 REF. NO. 23.075 NO. DATE BY REVISION DESCRIPTION

SHEET 8  
 FILE NO.: 23075-PH-8





**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** PIRATE HARBOR BATHYMETRIC SURVEY  
**CROSS SECTIONS:** 617+00 TO 620+50, 700+00 TO 712+50, 819+50 TO 829+50

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 FAX: (239)643-1143  
 www.ceiinc.com  
 E-Mail: info@ceiinc.com

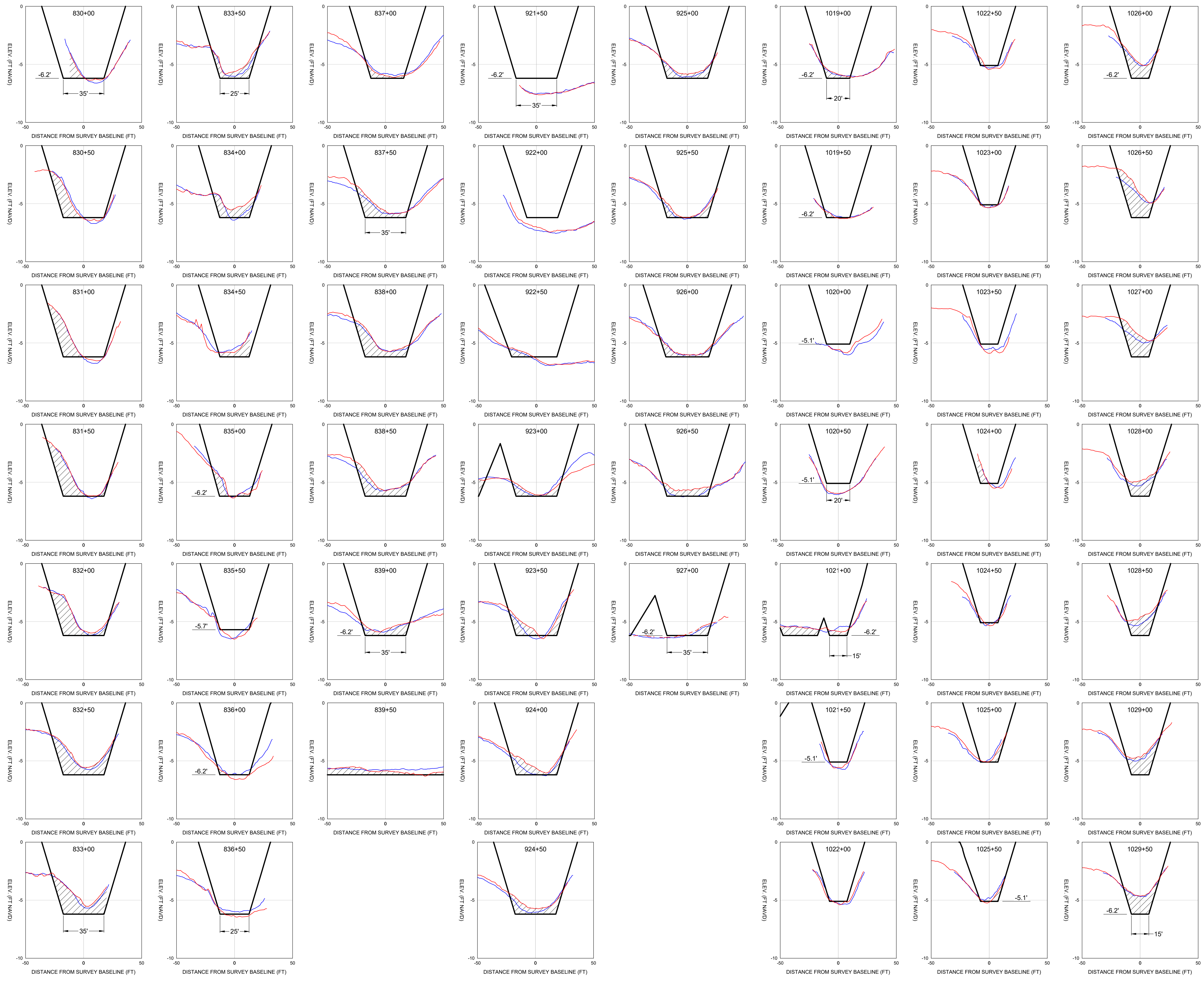
**ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464**

**DATE:** 7/10/2023  
**SCALE:** AS NOTED  
**DRAWN:** SDB F.B.  
**CHECKED:** MTP JG.  
**SEC.:** TWP.  
**ACAD NO.:** 23075-Pirate Harbor.dwg  
**REF. NO.:** 23.075

NO.	DATE	BY	REVISION DESCRIPTION

SHEET 9  
 FILE NO.: 23075-PH-9





**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 830+00 TO 839+50, 921+50 TO 927+00, 1019+00 TO 1029+50

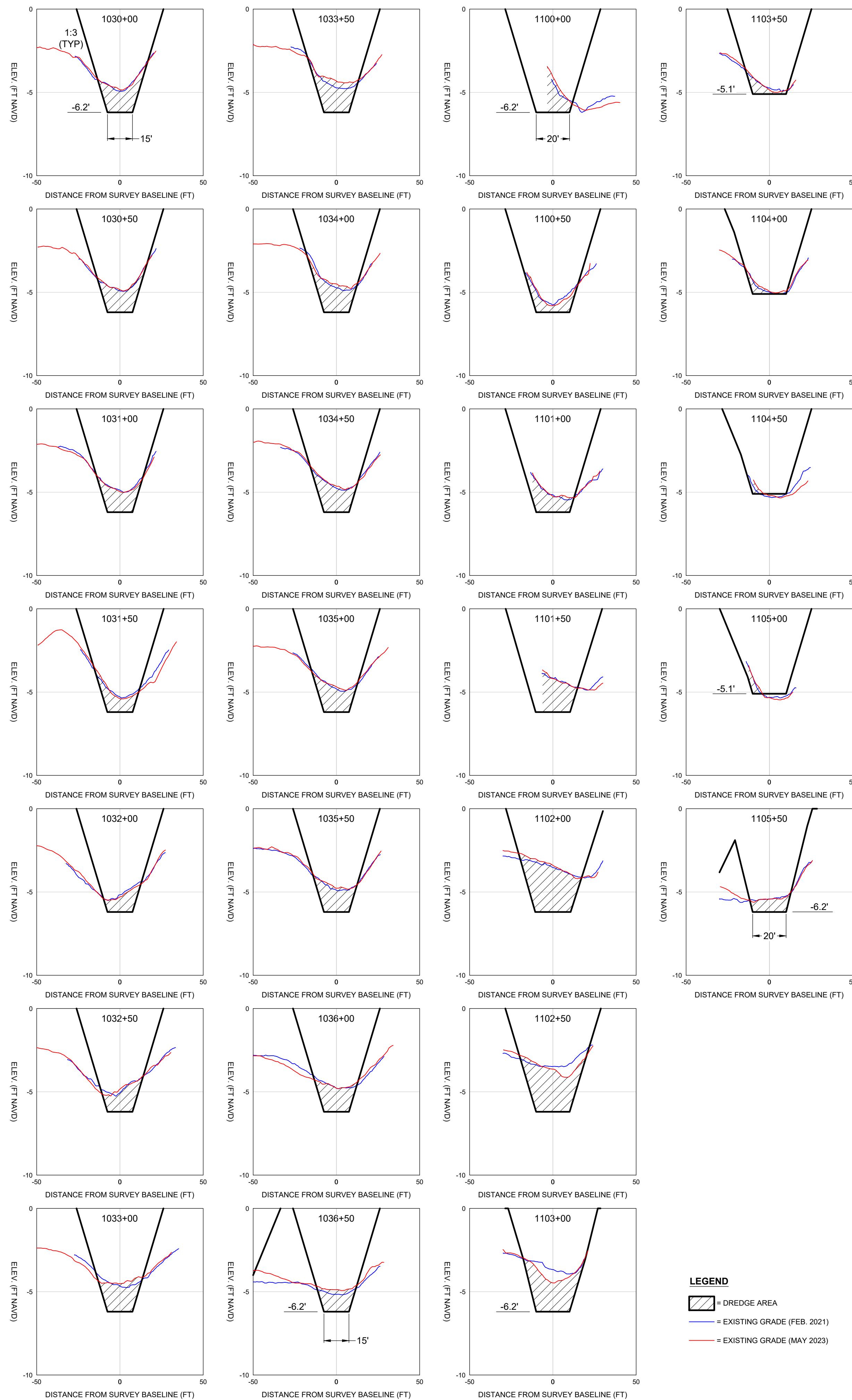
**COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464**  
 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.cemg.com  
 E-Mail: info@cemg.com

**COASTAL ENGINEERING CONSULTANTS INC.**  
 Serving Florida Since 1977  
 28421 BONITA CROSSINGS BLVD.  
 BONITA SPRINGS, FLORIDA 34135

DATE:	7/10/2023	SCALE:	AS NOTED
DRAWN:	SDB	F.B.	
CHECKED:	MTP	JG.	
SEC.	TWP.	RNG.	
ACAD NO.	23075-Pirate Harbor.dwg		
REF. NO.	23.075	NO.	
BY		DATE	
REVISION DESCRIPTION			

SHEET 10  
 FILE NO.: 23075-PH-10





**LEGEND**  
 = DREDGE AREA  
 = EXISTING GRADE (FEB. 2021)  
 = EXISTING GRADE (MAY 2023)

**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (X, Y)	END POINT (X, Y)
L1	S70° 31' 52"W	427.55'	(639927.35; 898191.00)	(639524.25; 898048.50)
L2	N86° 46' 41"W	1059.31'	(639524.25; 898048.50)	(638466.61; 898108.04)
L3	S79° 47' 01"W	480.98'	(638466.61; 898108.04)	(637993.26; 898022.73)
L4	S79° 47' 09"W	5400.00'	(637993.26; 898022.73)	(632678.84; 897065.16)
L5	S55° 55' 03"E	145.76'	(638906.47; 898652.64)	(639027.19; 898570.96)
L6	S80° 01' 10"E	143.61'	(639027.19; 898570.96)	(639168.63; 898546.07)
L7	N70° 42' 21"E	123.36'	(639168.63; 898546.07)	(639285.06; 898586.83)
L8	N48° 21' 52"E	200.50'	(639285.06; 898586.83)	(639434.91; 898720.04)
L9	S74° 01' 09"E	57.90'	(639434.91; 898720.04)	(639490.57; 898704.10)
L10	S39° 01' 36"E	331.25'	(639490.57; 898704.10)	(639699.15; 898446.77)
L11	S77° 23' 05"E	154.53'	(639699.15; 898446.77)	(639849.95; 898413.02)
L12	S88° 25' 15"W	596.88'	(641040.56; 898797.20)	(640443.91; 898780.75)
L13	S75° 04' 30"W	227.48'	(640443.91; 898780.75)	(640224.10; 898722.16)
L14	S46° 09' 49"W	213.79'	(640224.10; 898722.16)	(640069.89; 898574.09)
L15	S51° 58' 24"W	265.41'	(640069.89; 898574.09)	(639860.82; 898410.59)
L16	N77° 23' 55"W	11.14'	(639860.82; 898410.59)	(639849.95; 898413.02)
L17	S12° 36' 12"W	22.50'	(639849.95; 898413.02)	(639845.04; 898391.06)
L18	S34° 28' 27"W	18.85'	(639845.04; 898391.06)	(639834.37; 898375.52)
L19	S45° 33' 08"W	37.41'	(639834.37; 898375.52)	(639807.66; 898349.32)
L20	S40° 56' 46"W	27.21'	(639807.66; 898349.32)	(639789.83; 898328.77)
L21	S3° 12' 11"W	12.35'	(639789.83; 898328.77)	(639789.14; 898316.44)
L22	S27° 42' 04"E	16.24'	(639789.14; 898316.44)	(639796.69; 898302.06)
L23	S36° 35' 26"E	52.89'	(639796.69; 898302.06)	(639828.22; 898259.59)
L24	S69° 01' 21"E	63.16'	(639828.22; 898259.59)	(639887.19; 898236.98)
L25	S40° 15' 35"E	36.02'	(639887.19; 898236.98)	(639910.47; 898209.49)
L26	S42° 23' 38"E	25.04'	(639910.47; 898209.49)	(639927.35; 898191.00)
L27	S88° 10' 25"W	1320.57'	(641780.16; 898484.71)	(640460.26; 898442.62)
L28	S69° 14' 15"W	91.26'	(640460.26; 898442.62)	(640374.93; 898410.27)
L29	S34° 51' 12"W	60.53'	(640374.93; 898410.27)	(640340.34; 898360.60)
L30	S2° 43' 18"E	260.92'	(640340.34; 898360.60)	(640352.73; 898099.97)
L31	S87° 55' 30"W	1861.19'	(642069.40; 898162.17)	(640209.43; 898094.78)
L32	N82° 51' 59"W	226.12'	(640209.43; 898094.78)	(639985.06; 898122.86)
L33	N40° 15' 44"W	89.29'	(639985.06; 898122.86)	(639927.35; 898191.00)
L34	S87° 42' 39"W	1770.09'	(642199.96; 897834.11)	(640431.28; 897763.41)
L35	N27° 53' 14"W	146.92'	(640431.28; 897763.41)	(640362.56; 897893.27)
L36	N2° 43' 22"W	206.93'	(640362.56; 897893.27)	(640352.73; 898099.97)
L37	S87° 25' 56"W	1727.00'	(642261.31; 897502.85)	(640536.04; 897425.48)
L38	N17° 10' 02"W	154.22'	(640536.04; 897425.48)	(640490.52; 897572.83)
L39	N9° 30' 04"W	116.62'	(640490.52; 897572.83)	(640471.27; 897687.85)
L40	N27° 53' 24"W	85.49'	(640471.27; 897687.85)	(640431.28; 897763.41)
L41	S87° 26' 02"W	33.42'	(640536.04; 897425.48)	(640502.65; 897423.98)
L42	N57° 17' 00"W	50.92'	(640502.65; 897423.98)	(640458.81; 897451.51)
L43	N35° 02' 12"W	50.00'	(640458.81; 897451.51)	(640431.10; 897492.44)
L44	N28° 44' 13"W	270.00'	(640431.10; 897492.44)	(640301.29; 897729.19)
L45	N38° 44' 39"W	225.69'	(640301.29; 897729.19)	(640160.04; 897905.22)
L46	N67° 21' 32"W	122.40'	(640160.04; 897905.22)	(640047.07; 897952.34)
L47	N84° 46' 07"W	284.28'	(640047.07; 897952.34)	(639763.97; 897978.26)
L48	N73° 40' 08"W	249.80'	(639763.97; 897978.26)	(639524.25; 898048.50)
L49	S87° 11' 07"W	1927.32'	(642246.74; 897169.79)	(640321.75; 897075.15)
L50	N76° 23' 41"W	206.43'	(640321.75; 897075.15)	(640121.11; 897123.71)
L51	N29° 01' 02"W	366.25'	(640121.11; 897123.71)	(639943.45; 897443.99)
L52	N39° 42' 05"W	50.00'	(639943.45; 897443.99)	(639911.51; 897482.46)
L53	N72° 36' 45"W	49.99'	(639911.51; 897482.46)	(639863.80; 897497.40)
L54	N83° 48' 50"W	700.01'	(639863.80; 897497.40)	(639167.87; 897572.83)
L55	N81° 10' 55"W	100.00'	(639167.87; 897572.83)	(639069.05; 897588.16)
L56	N58° 03' 41"W	100.00'	(639069.05; 897588.16)	(638984.19; 897641.06)
L57	N27° 33' 43"W	100.00'	(638984.19; 897641.06)	(638937.92; 897729.71)
L58	N11° 42' 26"W	110.00'	(638937.92; 897729.71)	(638915.60; 897837.42)
L59	N1° 33' 35"E	245.06'	(638915.60; 897837.42)	(638922.27; 898082.39)
L60	S86° 56' 17"W	2198.67'	(642164.80; 896832.89)	(639969.27; 896715.45)
L61	N42° 43' 33"W	37.24'	(639969.27; 896715.45)	(639944.00; 896742.81)
L62	N0° 24' 08"E	133.94'	(639944.00; 896742.81)	(639944.94; 896876.75)
L63	N6° 56' 16"E	223.94'	(639944.94; 896876.75)	(639971.99; 897099.05)
L64	N56° 38' 19"E	66.25'	(639971.99; 897099.05)	(640027.32; 897135.48)
L65	S89° 35' 40"E	87.61'	(640027.32; 897135.48)	(640114.93; 897134.86)
L66	S86° 24' 53"W	2070.10'	(641858.72; 896481.18)	(639792.67; 896351.73)
L67	N45° 41' 33"W	478.60'	(639792.67; 896351.73)	(639450.16; 896686.04)
L68	N51° 44' 12"W	100.00'	(639450.16; 896686.04)	(639371.66; 896747.97)
L69	N46° 16' 32"W	103.43'	(639371.66; 896747.97)	(639296.91; 896819.46)
L70	N10° 59' 19"W	50.00'	(639296.91; 896819.46)	(639287.38; 896868.55)
L71	N24° 26' 44"E	50.00'	(639287.38; 896868.55)	(639308.07; 896914.06)
L72	N44° 47' 52"E	260.00'	(639308.07; 896914.06)	(639491.27; 897098.56)
L73	N54° 30' 54"E	50.00'	(639491.27; 897098.56)	(639531.98; 897127.58)
L74	S86° 16' 22"E	50.00'	(639531.98; 897127.58)	(639581.86; 897124.33)
L75	S50° 57' 53"E	50.00'	(639581.86; 897124.33)	(639620.72; 897092.84)
L76	S42° 43' 30"E	476.48'	(639620.72; 897092.84)	(639944.00; 896742.81)
L77	N3° 33' 25"W	100.00'	(639944.00; 896742.81)	(639934.32; 896727.16)
L78	N5° 12' 10"E	50.00'	(639934.32; 896727.16)	(639968.85; 896276.95)
L79	N34° 16' 20"E	50.00'	(639968.85; 896276.95)	(639397.03; 896318.25)
L80	N74° 29' 58"E	50.00'	(639397.03; 896318.25)	(639445.21; 896331.62)
L81	N86° 41' 13"E	348.04'	(639445.21; 896331.62)	(639792.67; 896351.73)

**CHARLOTTE COUNTY**  
**PIRATE HARBOR**  
**BATHYMETRIC SURVEY**  
**CROSS SECTIONS: 1030+00 TO 1036+50, 1100+00**  
**TO 1105+50 AND ALIGNMENT LINE TABLE**

DATE: 7/10/2023  
 SCALE: AS NOTED  
 DRAWN: SDB F.B.  
 CHECKED: MTP JG.  
 SEC: TWP. RING.  
 ACAD NO. 23075-Pirate Harbor.dwg  
 REF. NO. 23 075  
 NO. BY DATE REVISION DESCRIPTION

CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464  
 TITLE: PIRATE HARBOR BATHYMETRIC SURVEY CROSS SECTIONS: 1030+00 TO 1036+50, 1100+00 TO 1105+50 AND ALIGNMENT LINE TABLE  
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