

PUBLISHED TIDAL INFORMATION

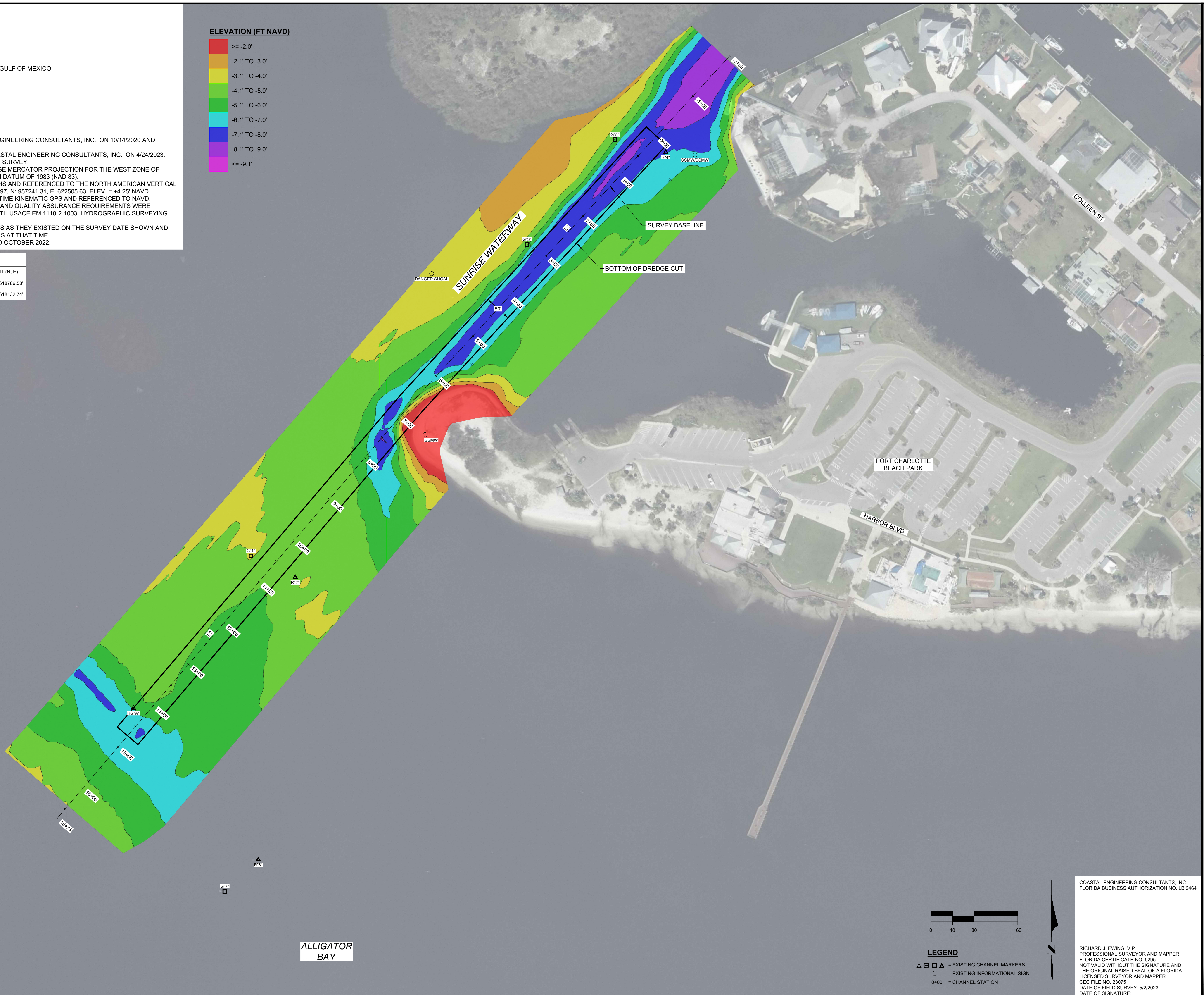
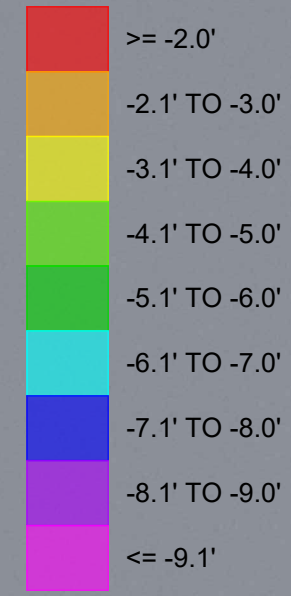
TIDAL DATUMS AT PUNTA GORDA, CHARLOTTE COUNTY ARE BASED ON FLORIDA 872 5744 TIDE STATION, PUBLISHED 10-18-2010.
 LENGTH OF SERIES = 8 MONTHS
 TIME PERIOD = 7/1977 - 2/1978
 TIDAL EPOCH = 1983 - 2001
 CONTROL TIDE STATION = 872 5110 NAPLES, GULF OF MEXICO
 ELEVATIONS OF TIDAL DATUMS ARE REFERENCED IN 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 SURVEYS COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC., ON 10/14/2020 AND 8/12/2021.
- POST-IAN BATHYMETRIC SURVEY COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC., ON 4/24/2023.
- 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 BENCHMARK: U 797, N: 957241.31, E: 622505.63, ELEV. = +4.25' 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 NOAA, DATED OCTOBER 2022.

SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (N, E)	END POINT (N, E)
L1	S42° 31' 36"W	865.66'	956289.26', 619371.71'	955651.30', 618786.58'
L2	S40° 29' 01"W	1007.10'	955651.30', 618786.58'	954885.31', 618132.74'

ELEVATION (FT NAVD)



CLIENT: CHARLOTTE COUNTY
TITLE: SUNRISE WATERWAY BATHYMETRIC SURVEY PLAN VIEW

DATE: 5/2/2023
SCALE: AS NOTED
DRAWN: VVA F.B.
CHECKED: RJE JG.
SEC.: TWP. RING.
ACAD NO.: 23075-Sunrise.dwg
REF. NO.: 23.075

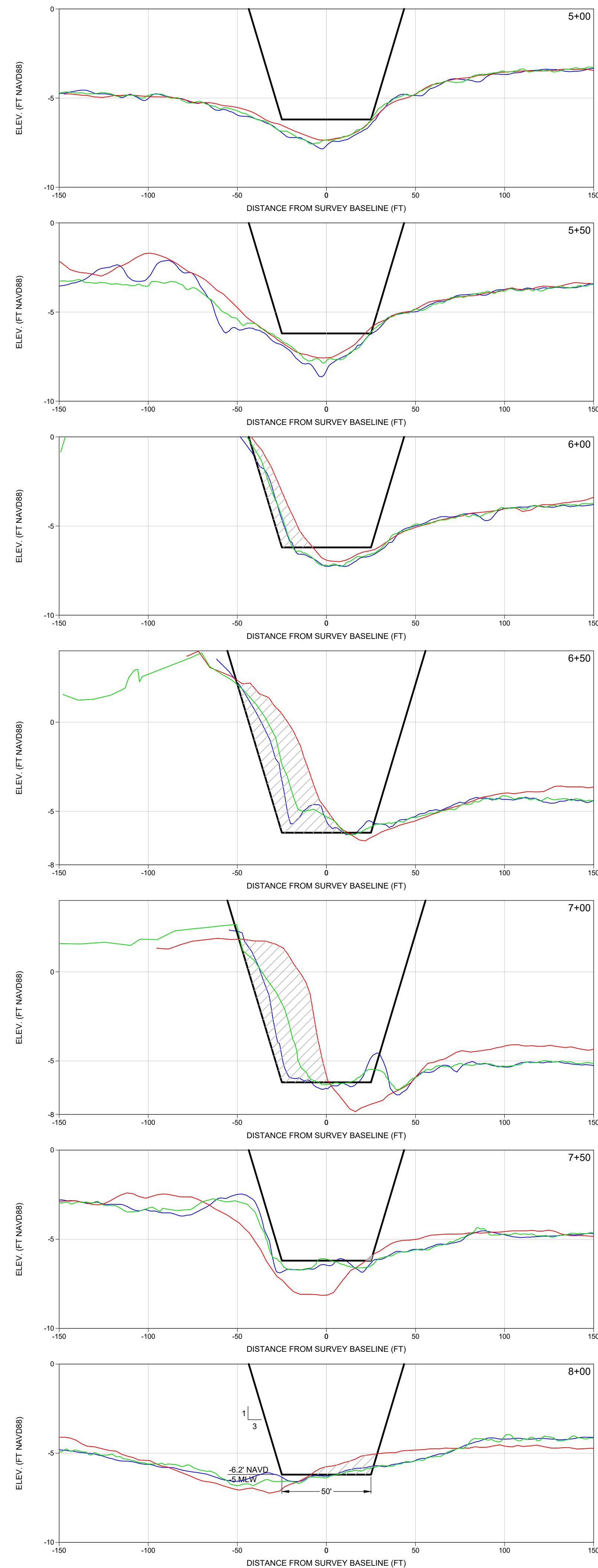
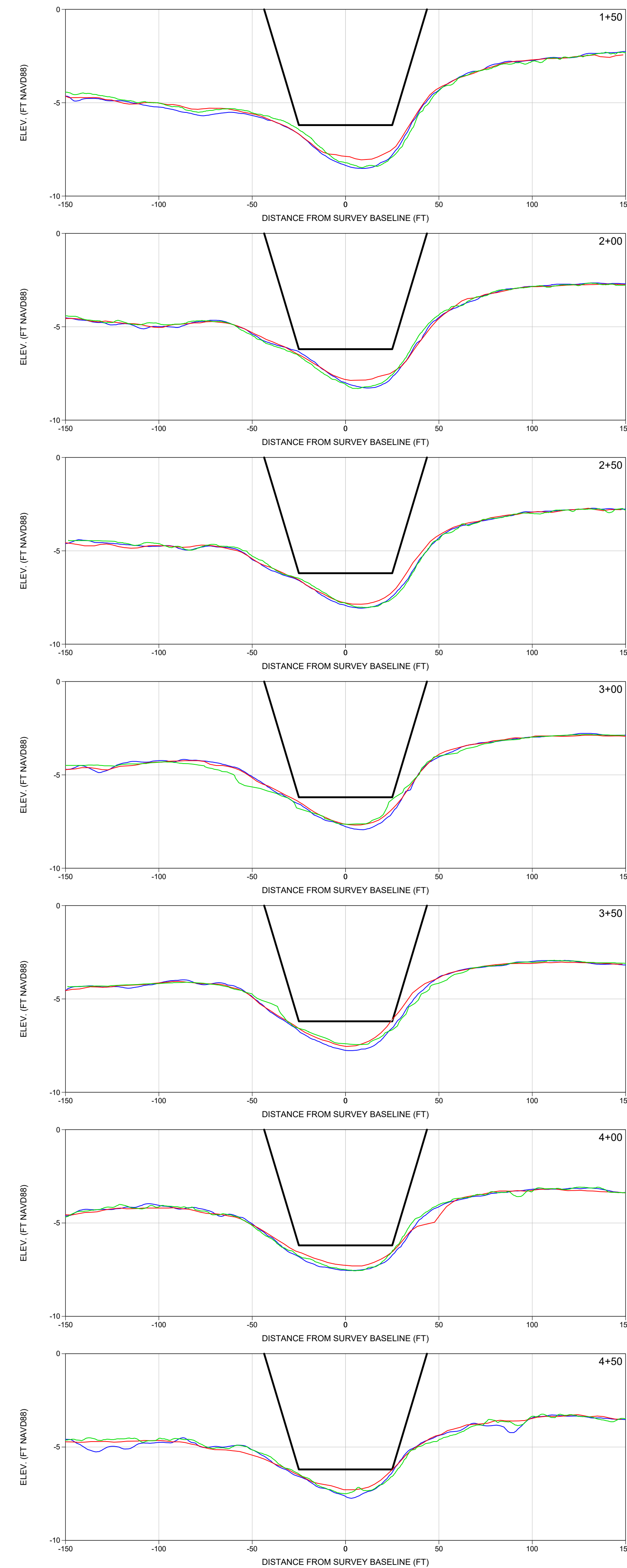
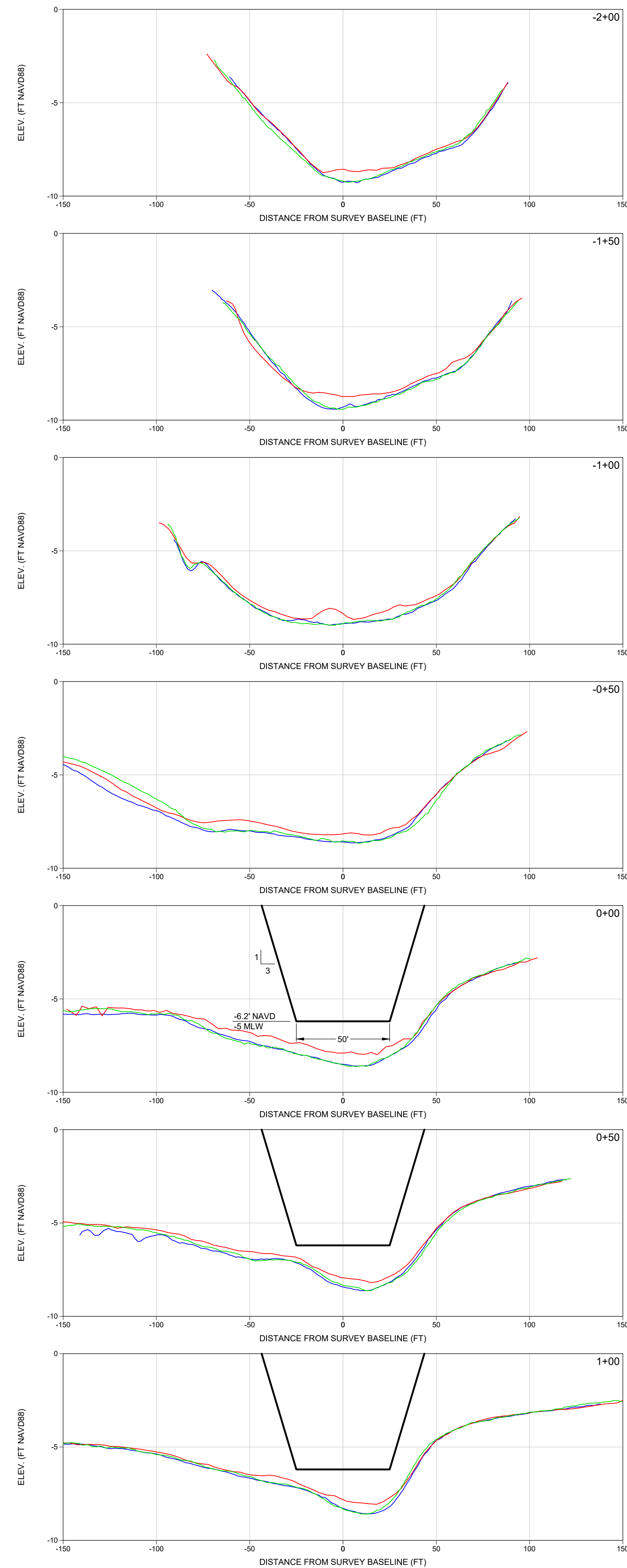
DATE: BY DATE BY DATE BY

COASTAL ENGINEERING CONSULTANTS, INC.
 ENVIRONMENTAL & MARINE ENGINEERING
 SURVEYING & MAPPING
 SURVEYING, LB 2464
 PHONE: (239) 643-2324
 FAX: (239) 643-1143
 www.coastal-engineering.com
 E-Mail: info@cecinc.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: 5/2/2023
 DATE OF SIGNATURE:

COASTAL ENGINEERING CONSULTANTS, INC.
 FLORIDA BUSINESS AUTHORIZATION NO. LB 2464
 Serving Florida Since 1977
 28421 BONITA CROSSINGS BLVD.
 BONITA SPRINGS, FLORIDA 34135

SHEET 1
FILE NO.: 23075-SUN-1



LEGEND

- 10/14/2020 SURVEY
- 8/12/2021 SURVEY
- 5/2/2023 SURVEY
- DREDGE AREA

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

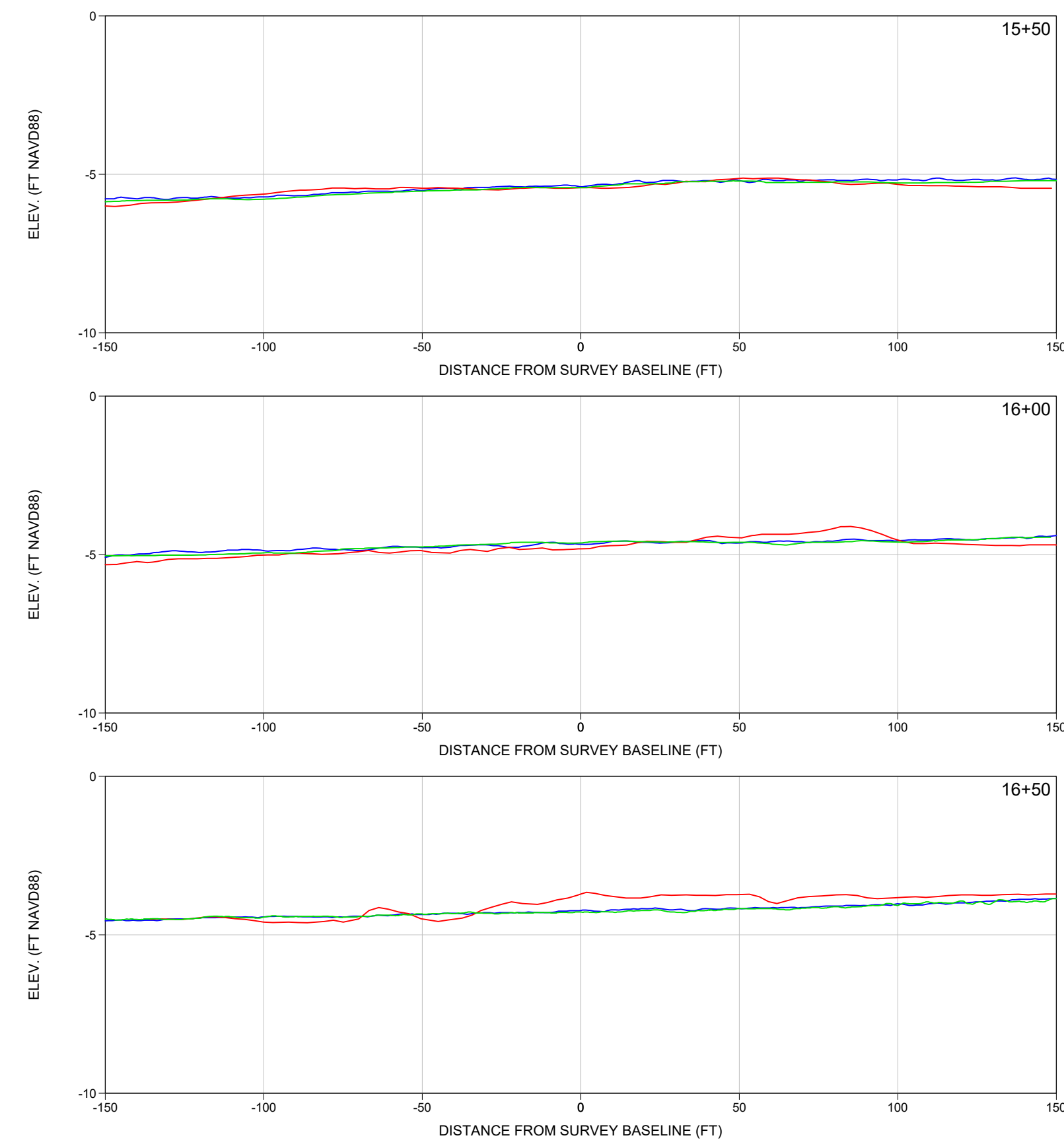
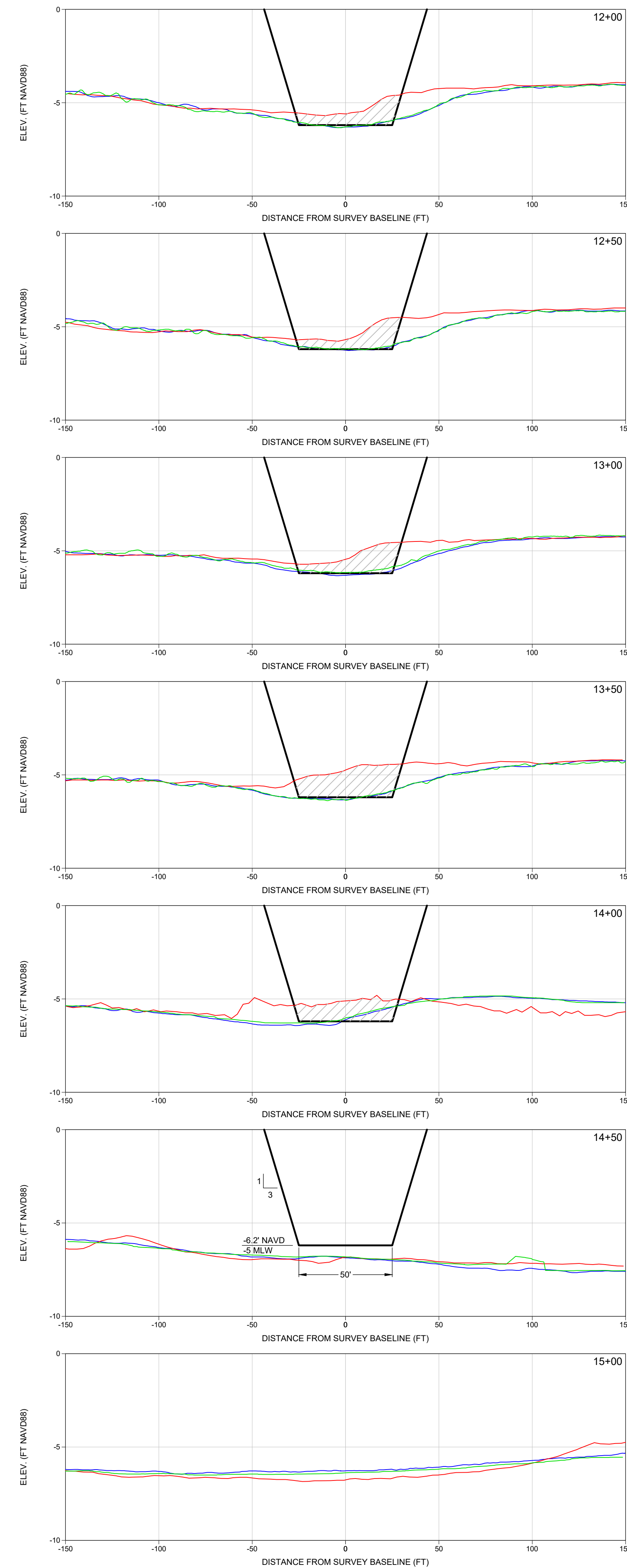
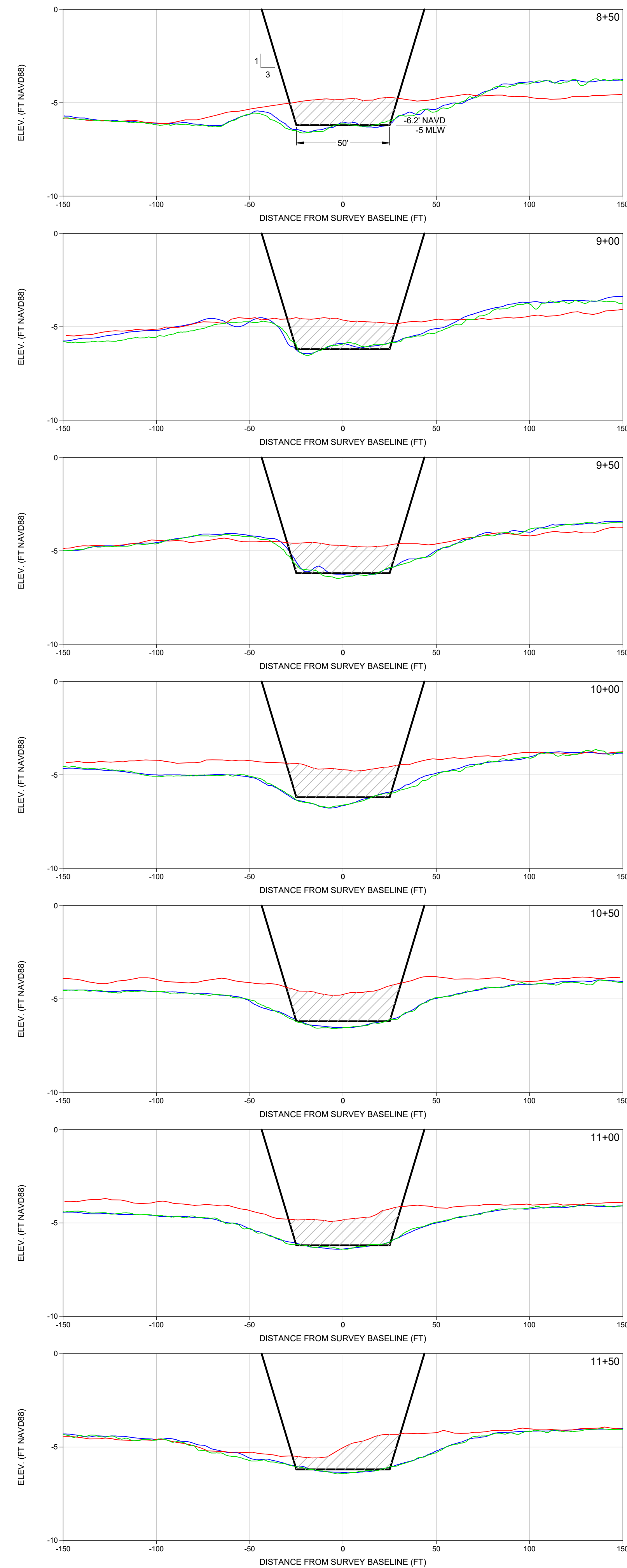
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 www.ceiengineering.com
 E-Mail: info@ceiinc.com

CLIENT: CHARLOTTE COUNTY
TITLE: SUNRISE WATERWAY
 BATHYMETRIC SURVEY
 CROSS SECTIONS: -2+00 TO 8+00

DATE:	5/2/2023	SCALE:	AS NOTED		
DRAWN:	VVA	F.B.	RJE	PG.	
CHECKED:		TWP.		RNG.	
ACAD NO.		REF. NO.	23075-Sunrise.dwg	NO.	23 075
BY		DATE			

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LEGEND

- 10/14/2020 SURVEY
- 8/12/2021 SURVEY
- 5/2/2023 SURVEY
- DREDGE AREA

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

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CLIENT: CHARLOTTE COUNTY
TITLE: SUNRISE WATERWAY
 BATHYMETRIC SURVEY
 CROSS SECTIONS: 8+50 TO 16+50

DATE:	5/2/2023	SCALE:	AS NOTED		
DRAWN:	VVA	F.B.			
CHECKED:	RJE	P.G.			
SEC.	TWP.	RNG.			
ACAD NO.	23075-Sunrise.dwg				
REF. NO.	23 075	NO.		BY	
				DATE	

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