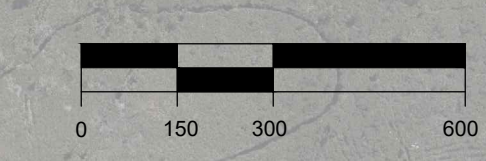


SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (N, E)	END POINT (N, E)
L1	N60° 42' 33"E	293.02'	964738.73, 655124.01'	964882.09, 655379.57'
L2	N75° 10' 24"E	219.23'	964882.09, 655379.57'	964938.19, 655591.50'
L3	N88° 53' 14"E	642.14'	964938.19, 655591.50'	964950.66, 656233.52'
L4	S85° 24' 42"E	506.51'	964950.66, 656233.52'	964910.14, 656738.41'
L5	S75° 16' 05"E	808.85'	964910.14, 656738.41'	964704.45, 657520.67'
L6	S48° 04' 37"E	205.24'	964704.45, 657520.67'	964567.32, 657673.38'
L7	S83° 05' 13"E	103.60'	964567.32, 657673.38'	964554.85, 657776.23'
L8	N72° 15' 30"E	81.81'	964554.85, 657776.23'	964579.78, 657854.15'
L9	S75° 22' 43"E	639.58'	964579.78, 657854.15'	964418.33, 658473.02'
L10	N68° 38' 42"E	311.99'	962398.96, 655130.15'	962512.57, 655420.72'
L11	N55° 39' 40"E	267.25'	962512.57, 655420.72'	962663.32, 655641.39'
L12	N52° 50' 07"E	509.92'	962663.32, 655641.39'	962971.37, 656047.75'
L13	N71° 51' 45"E	133.35'	962971.37, 656047.75'	963012.88, 656174.47'
L14	N85° 01' 47"E	252.20'	963012.88, 656174.47'	963034.73, 656425.72'
L15	N71° 33' 47"E	96.72'	963034.73, 656425.72'	963065.32, 656517.48'
L16	N51° 25' 04"E	248.74'	963065.32, 656517.48'	963220.44, 656711.92'
L17	N7° 52' 34"E	207.33'	963220.44, 656711.92'	963425.81, 656740.33'
L18	S36° 21' 55"E	650.34'	963425.81, 656740.33'	962656.77, 655639.20'
L19	S47° 52' 34"E	457.72'	962656.77, 655639.20'	962767.76, 654574.84'
L20	S35° 40' 34"E	992.09'	962767.76, 654574.84'	961961.86, 655153.43'
L21	S21° 48' 13"E	250.20'	961961.86, 655153.43'	961729.56, 655246.36'
L22	N51° 39' 16"E	252.19'	960435.66, 653981.48'	960592.12, 654179.27'
L23	N23° 17' 50"E	1574.90'	960592.12, 654179.27'	962038.61, 654802.14'
L24	S70° 35' 21"E	328.64'	961132.34, 654412.48'	961023.12, 654722.44'
L25	N84° 48' 26"E	271.36'	961023.12, 654722.44'	961047.68, 654992.69'
L26	S45° 26' 38"E	294.28'	960494.53, 653432.31'	960288.06, 653642.00'
L27	S66° 08' 28"E	167.84'	960288.06, 653642.00'	960220.17, 653795.50'
L28	S52° 25' 55"E	145.25'	960220.17, 653795.50'	960131.61, 653910.63'
L29	S25° 42' 33"E	176.92'	960131.61, 653910.63'	959972.20, 653987.38'
L30	S37° 20' 56"E	141.11'	959972.20, 653987.38'	959860.02, 654072.99'
L31	S11° 03' 55"W	3964.73'	963522.40, 653011.16'	959558.36, 652937.45'
L32	S15° 11' 47"E	129.02'	959558.36, 652937.45'	959433.85, 652971.27'
L33	S27° 37' 40"E	407.74'	959433.85, 652971.27'	959072.60, 653160.35'
L34	S0° 55' 35"W	1403.52'	960684.35, 652436.08'	959281.01, 652413.39'
L35	S31° 42' 04"W	148.47'	959281.01, 652413.39'	959154.69, 652335.37'
L36	S60° 31' 27"W	392.62'	959154.69, 652335.37'	958961.50, 651993.57'
L37	S3° 46' 19"W	680.39'	958961.50, 651993.57'	958282.58, 651948.81'
L38	S50° 39' 05"W	360.89'	958006.35, 652095.63'	959277.53, 652416.55'
L39	S89° 02' 41"E	688.83'	960581.34, 652082.74'	960570.19, 652751.48'
L40	S88° 23' 59"E	670.00'	960232.11, 652060.45'	960213.40, 652730.19'
L41	S88° 42' 46"E	661.48'	959886.59, 652064.16'	959871.73, 652725.47'
L42	S88° 55' 25"E	351.89'	959630.16, 652062.07'	959523.55, 652413.90'

**PUBLISHED TIDAL INFORMATION**  
 TIDAL DATUMS AT HARBOR HEIGHTS, PEACE RIVER ARE BASED ON FLORIDA 872 5791 TIDE STATION, PUBLISHED 4-15-2015.  
 LENGTH OF SERIES = 4 MONTHS  
 TIME PERIOD = 12/1977 - 3/1978  
 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) = +0.23 FT NAVD  
 MEAN TIDE LEVEL (MTL) = -0.43 FT NAVD  
 MEAN LOW WATER (MLW) = -1.09 FT NAVD  
 MEAN LOWER LOW WATER (MLLW) = -1.54 FT NAVD

- NOTES**
- BATHYMETRIC SURVEY COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC. ON 10/22/2019 AND 12/10/2020.
  - POST-IAN BATHYMETRIC SURVEY COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC. ON 6/13/2023.
  - 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: 872 5791 2, N: 964962.9, E: 657766.9, ELEV. = +5.05' NAVD AND X259, N: 964869.9, E: 654981.4, ELEV. = +9.22' NAVD.
  - TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS AND REFERENCED TO NAVD88.
  - 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.



CHARLOTTE COUNTY  
 HARBOR HEIGHTS CHANNELS  
 BATHYMETRIC SURVEY

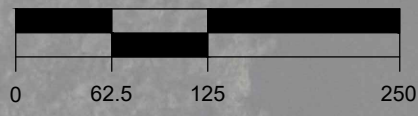
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 SEC. TWP. RING.  
 ACAD NO. 23075-Harbour Heights.dwg  
 REF. NO. 23 075 NO. BY DATE

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 ENVIRONMENTAL & GEOLOGICAL SERVICES  
 SURVEYING AND MAPPING  
 ENGINEERING, CA 2464  
 SURVEYING, LB 2464

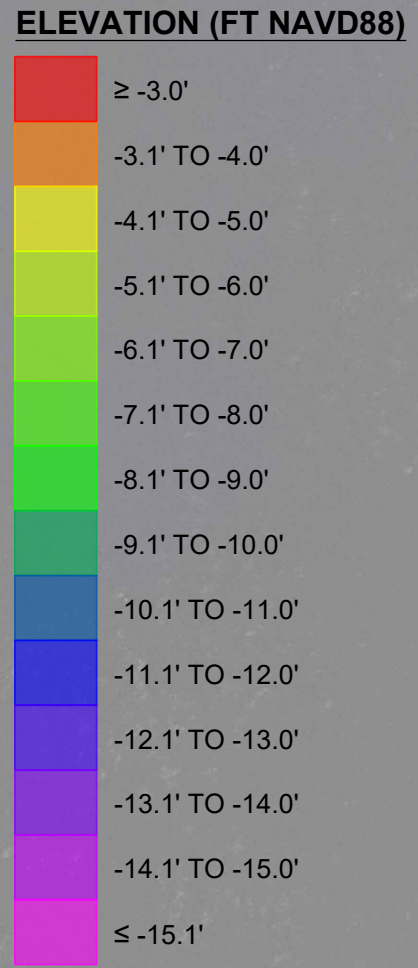
PHONE: (239)643-2324  
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 www.coastalengineering.com  
 E-Mail: info@cecill.com

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: 6/13/2023  
 DATE OF SIGNATURE:

SHEET 1  
 FILE NO.: 23075-HH-1



**LEGEND**  
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 ○ = EXISTING INFORMATIONAL SIGN  
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BENCHMARK  
 X259  
 N: 964,869.9  
 E: 654,981.4  
 EL: 9.22'

BENCHMARK  
 872 5791 2  
 N: 964,862.9  
 E: 657,766.9  
 EL: 5.05'

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 TITLE: HARBOR HEIGHTS CHANNELS BATHYMETRIC SURVEY

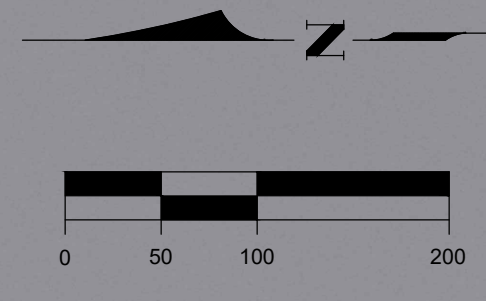
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SCALE: AS NOTED  
 VVA F.B.  
 RJE PG.  
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 23075-Harbour Heights.dwg  
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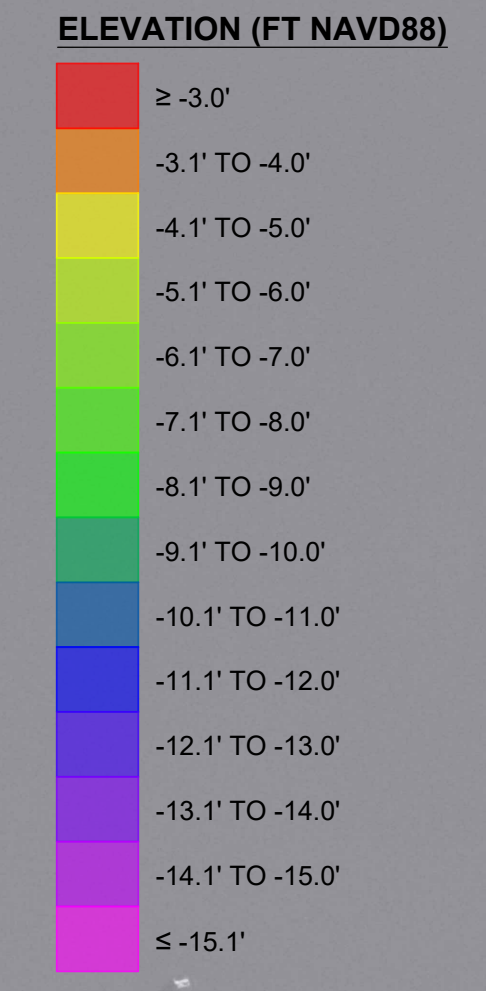
NO.	DATE	BY	REVISION DESCRIPTION

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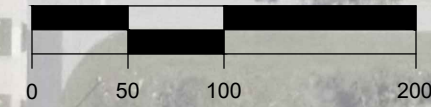
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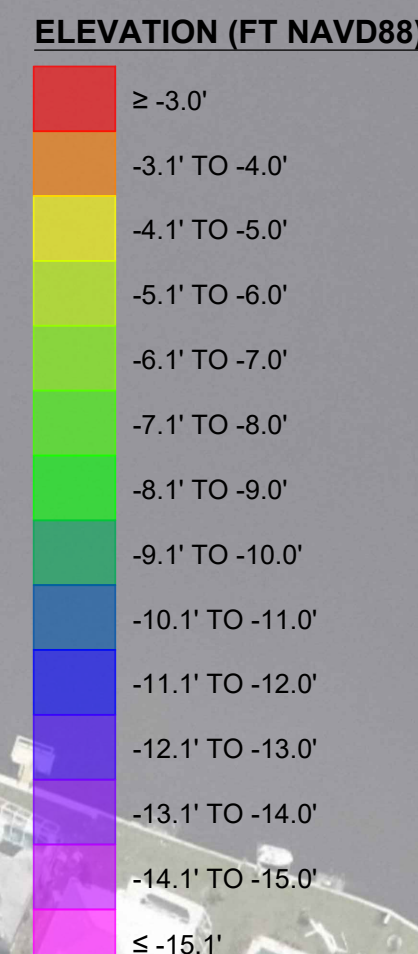
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	<p>COASTAL &amp; MARINE ENGINEERING ENVIRONMENTAL &amp; GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464</p> <p>PHONE: (239)643-2324        FAX: (239)643-1143        www.coastalengineering.com        E-Mail: info@cecinc.com</p>
<p>DATE: 7/6/2023</p> <p>DRAWN: VVA</p> <p>CHECKED: RJE</p> <p>SEC: TWP: RING</p> <p>ACAD NO: 23075-Harbour Heights.dwg</p> <p>REF. NO: 23 075</p>	<p>SCALE: AS NOTED</p> <p>DATE: 7/6/2023</p> <p>DRAWN: VVA</p> <p>CHECKED: RJE</p> <p>SEC: TWP: RING</p> <p>ACAD NO: 23075-Harbour Heights.dwg</p> <p>REF. NO: 23 075</p>
<p>SHEET 3</p> <p>SHEET 4</p>	<p>DATE: BY</p>



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SHEET 3  
SHEET 4

DATE:	7/6/2023	SCALE:	AS NOTED
DRAWN:	VVA	F.B.	
CHECKED:	RJE	P.G.	
SEC.	TWP.	RNG.	
ACAD NO.	23075-Harbour Heights.dwg		
REF. NO.	23 075	NO.	DATE
			BY
			REVISION DESCRIPTION

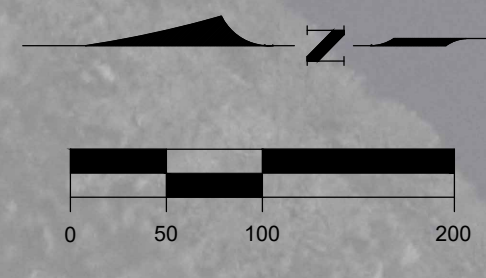
CHARLOTTE COUNTY  
HARBOUR HEIGHTS CHANNELS  
BATHYMETRIC SURVEY

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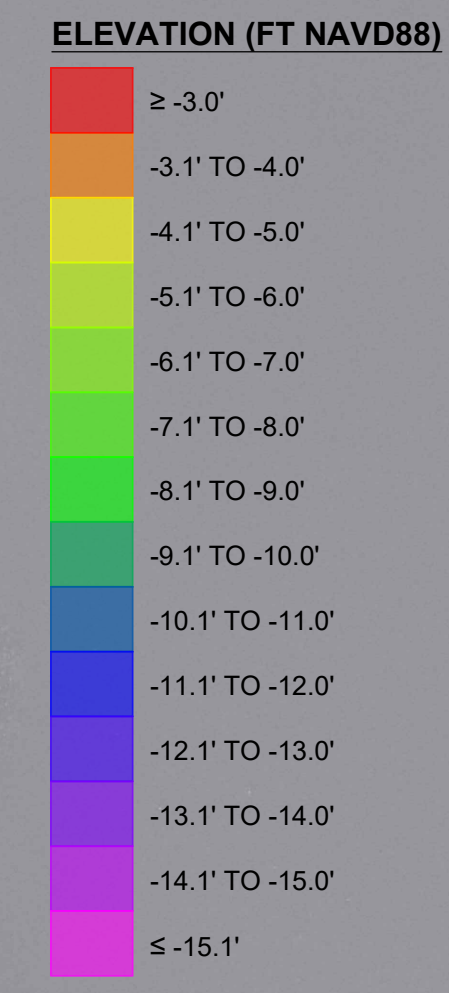
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**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOR HEIGHTS CHANNELS BATHYMETRIC SURVEY

**DATE:** 7/6/2023  
**SCALE:** AS NOTED

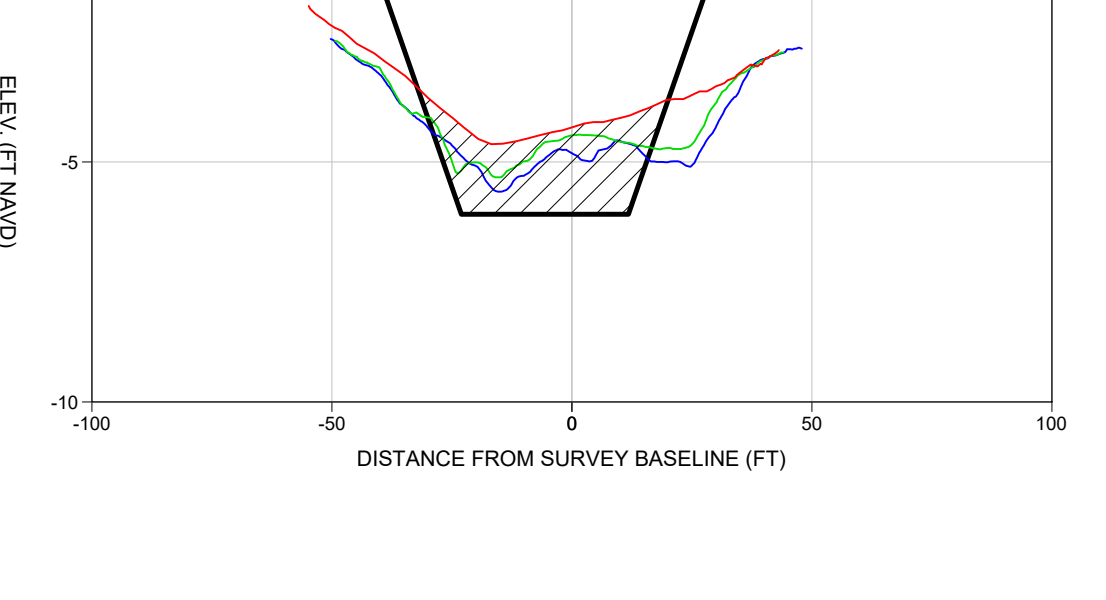
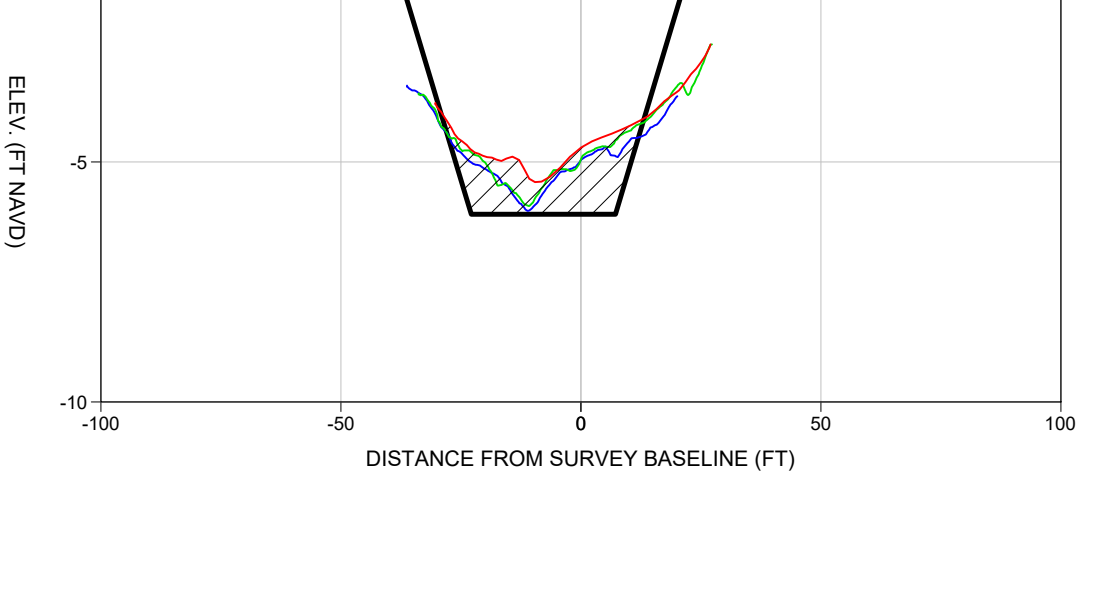
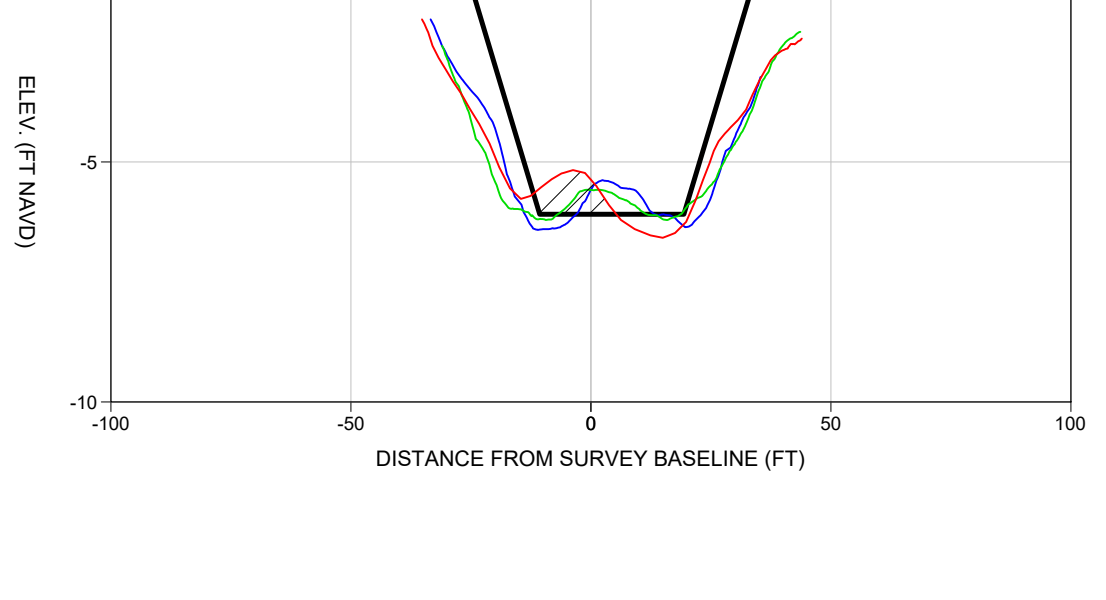
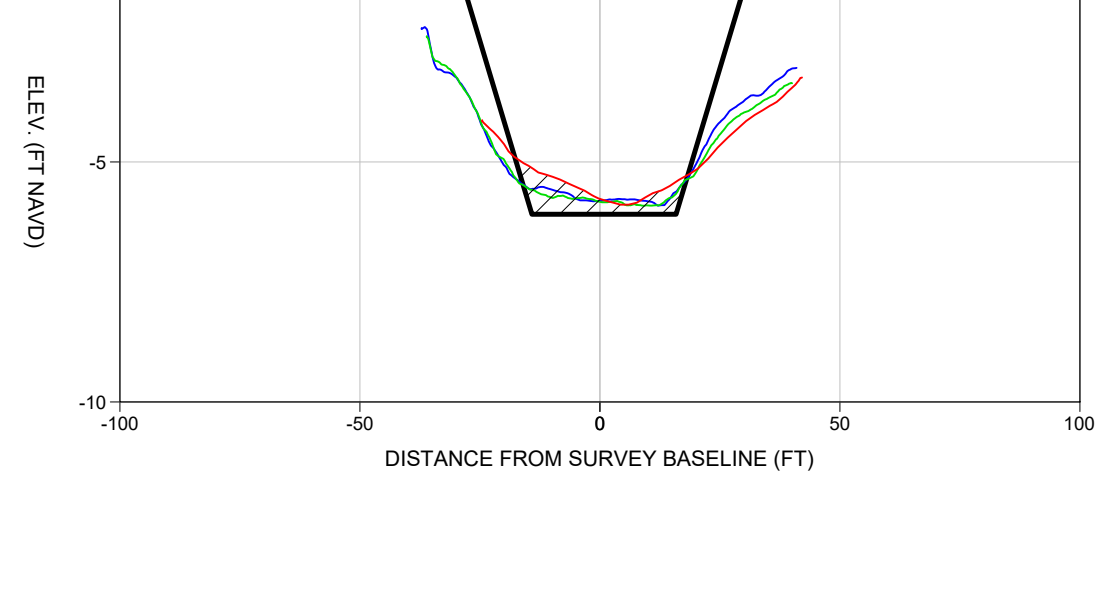
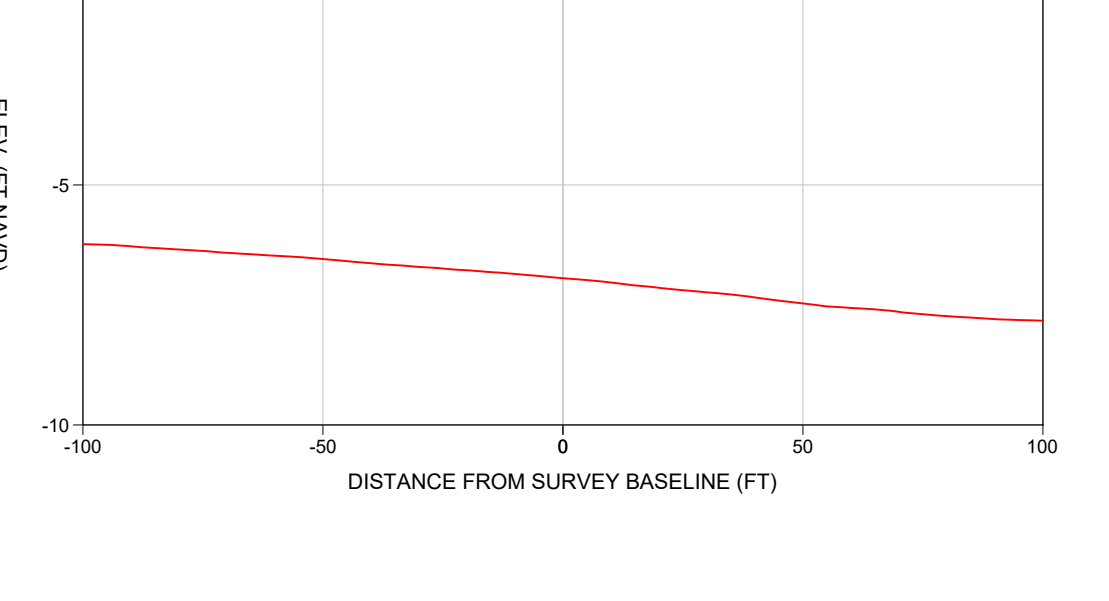
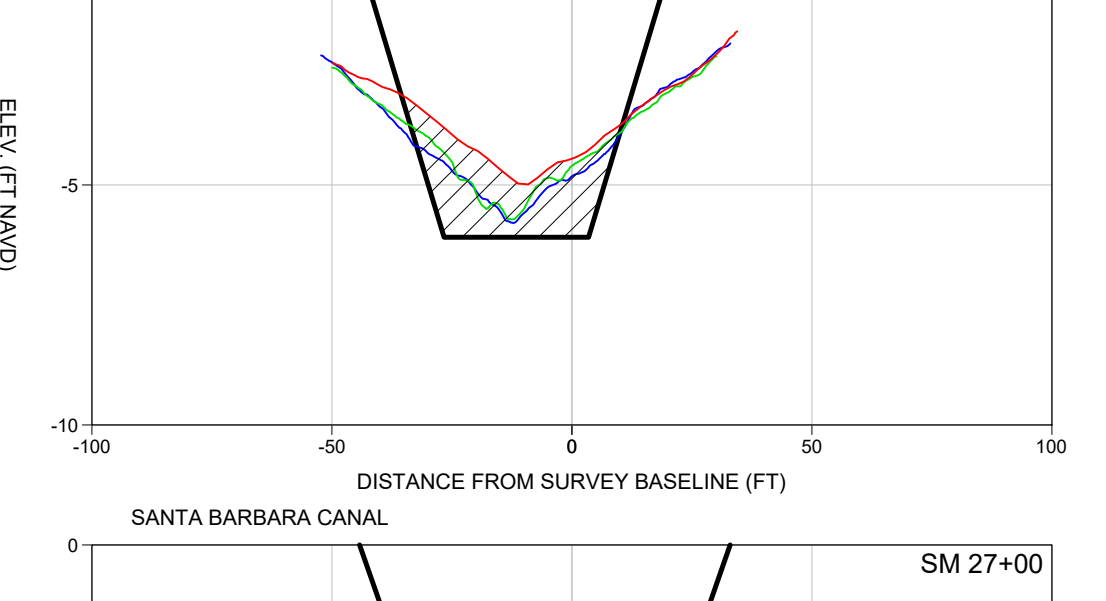
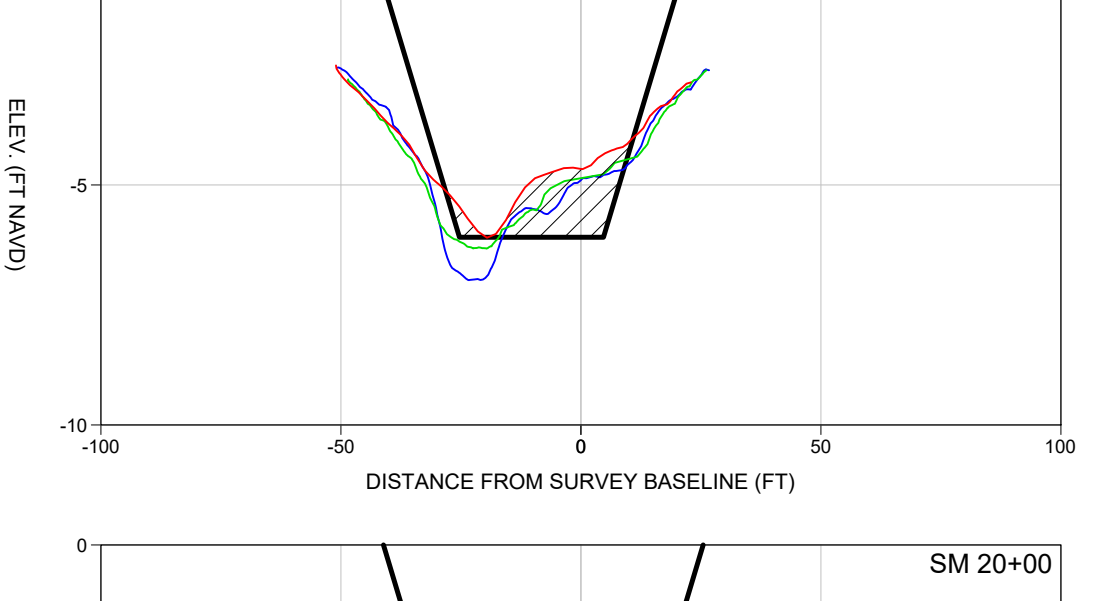
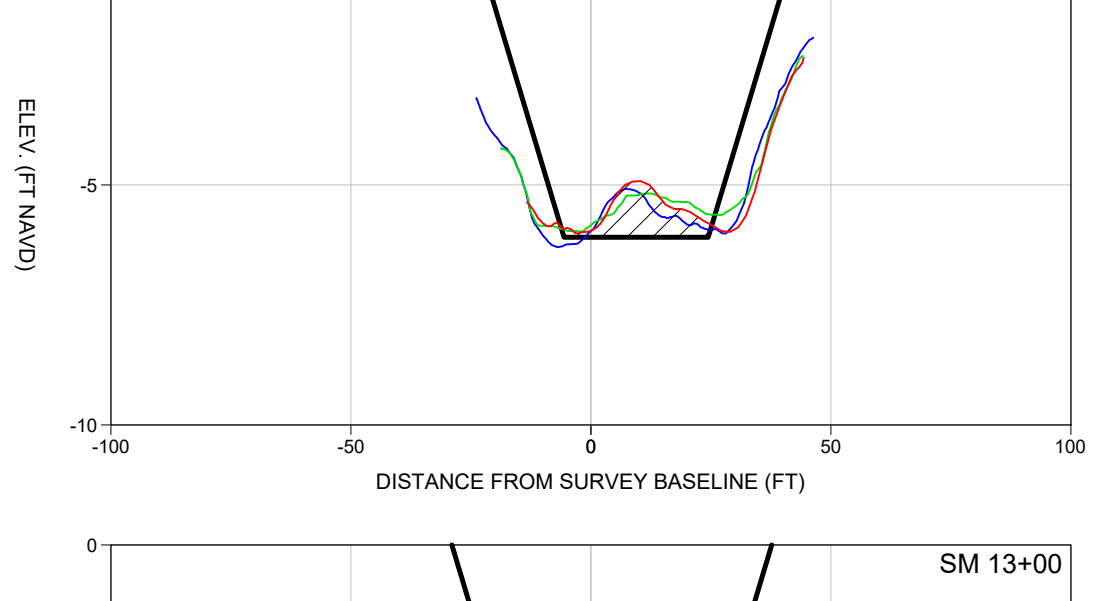
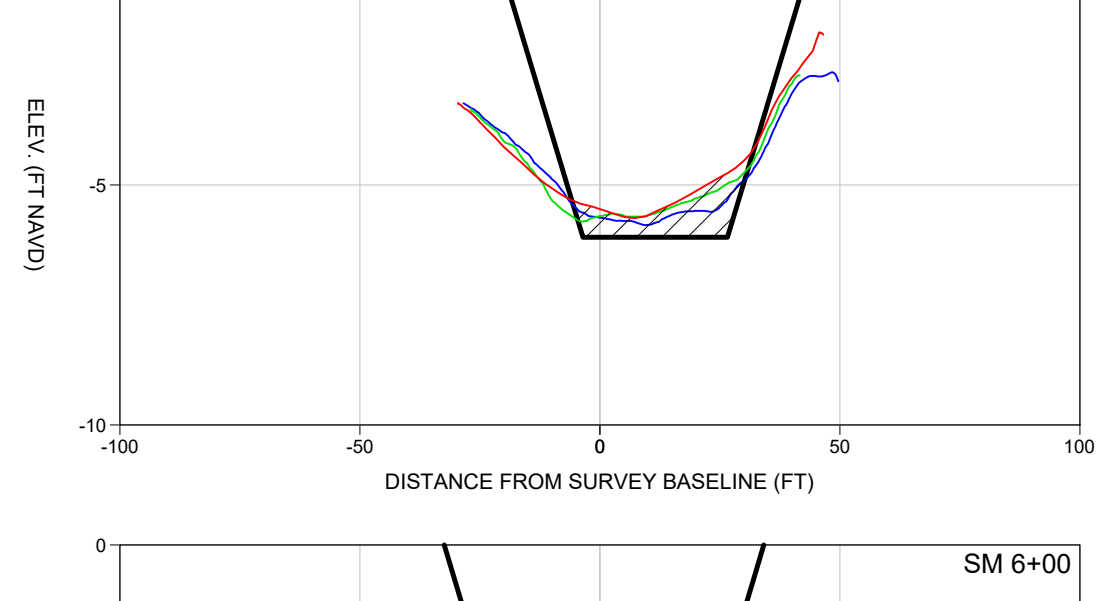
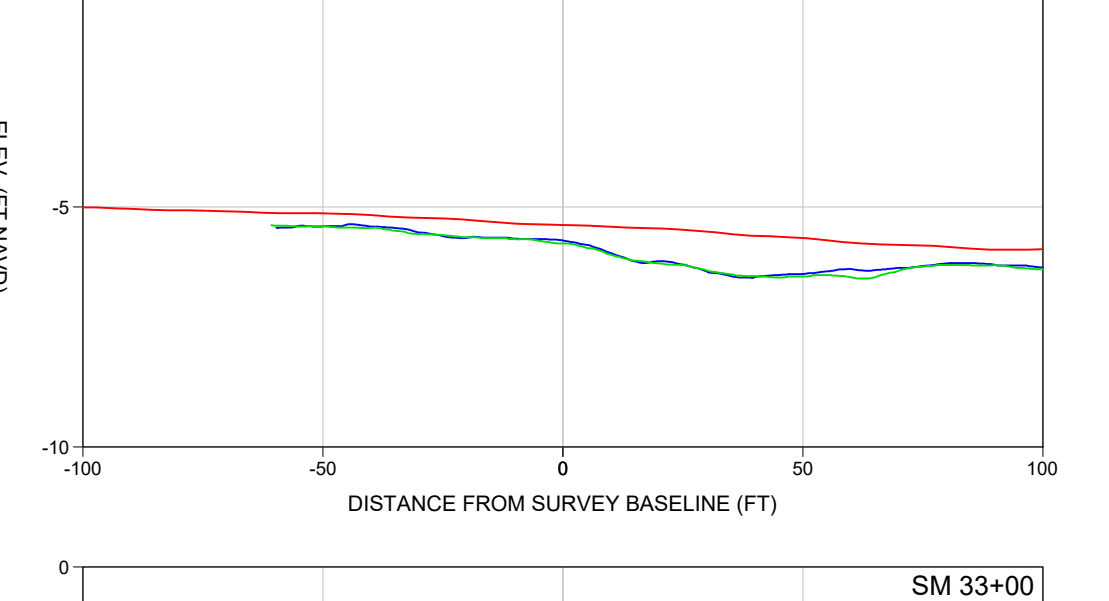
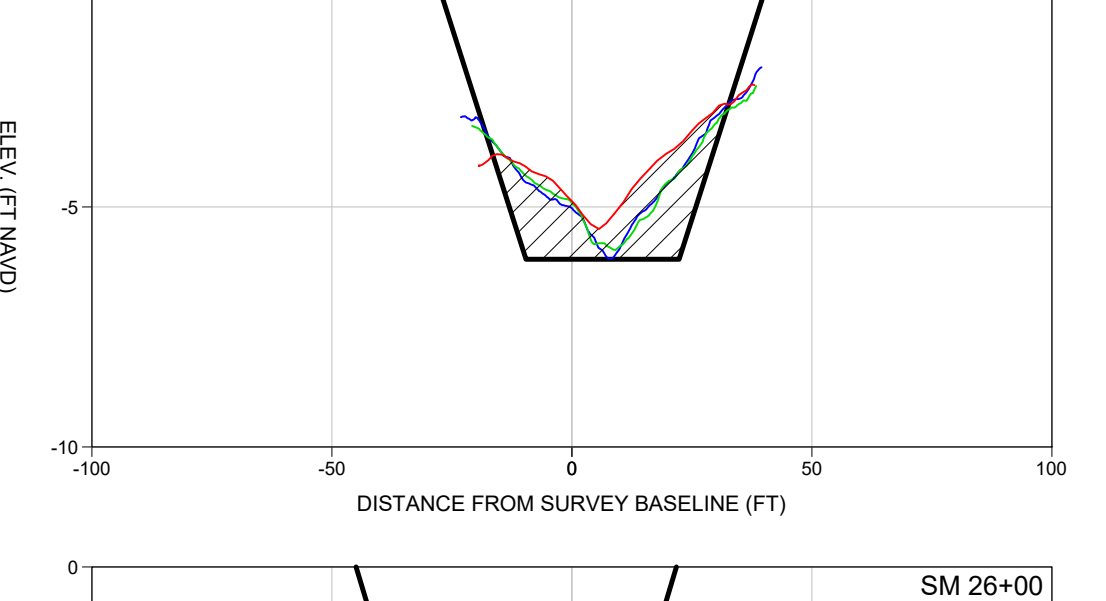
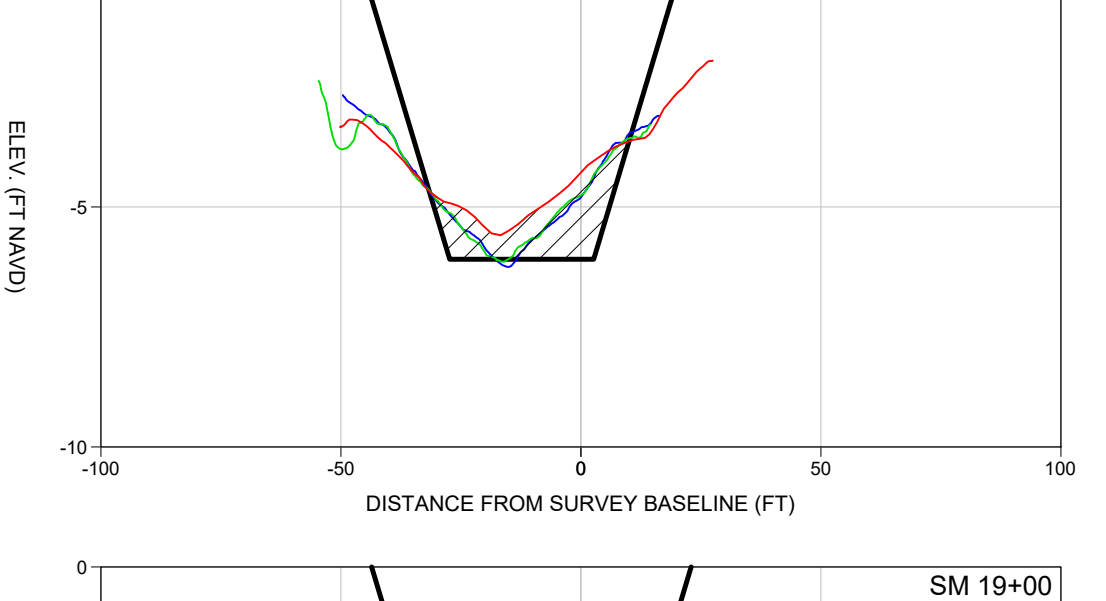
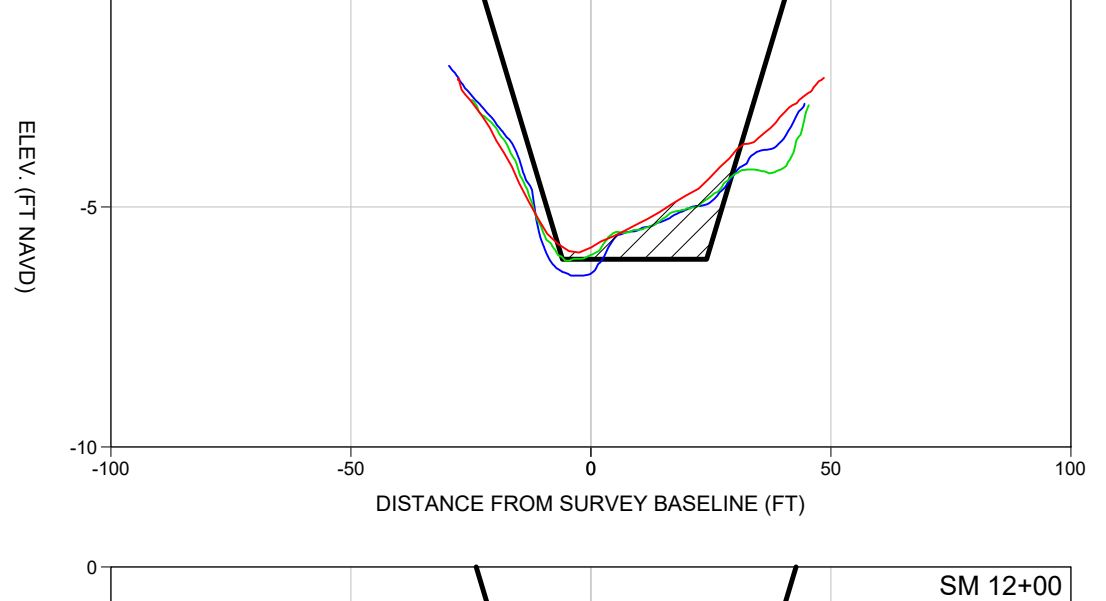
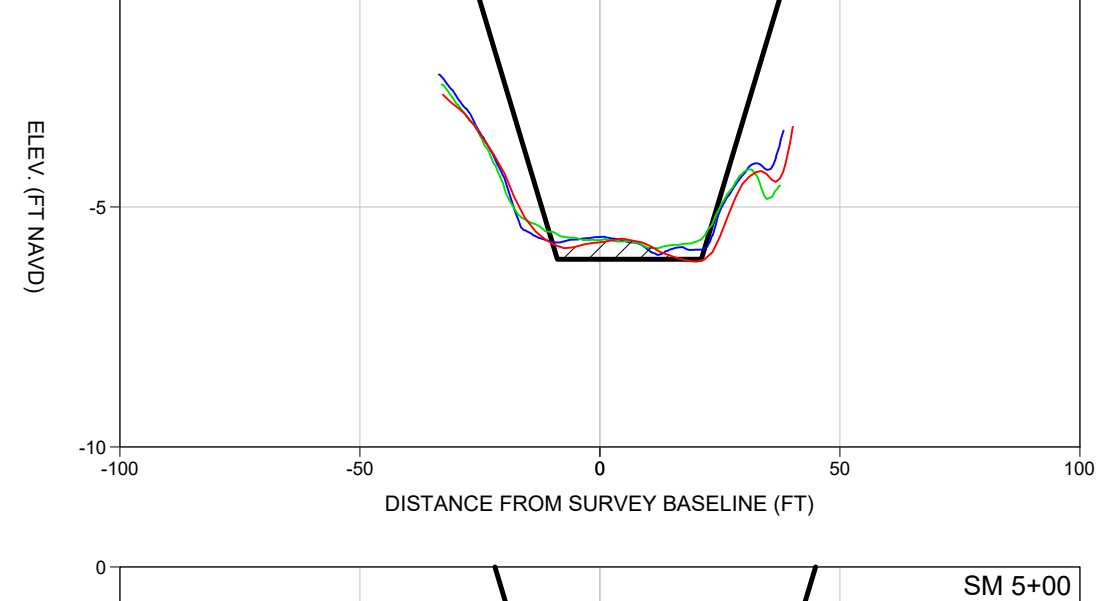
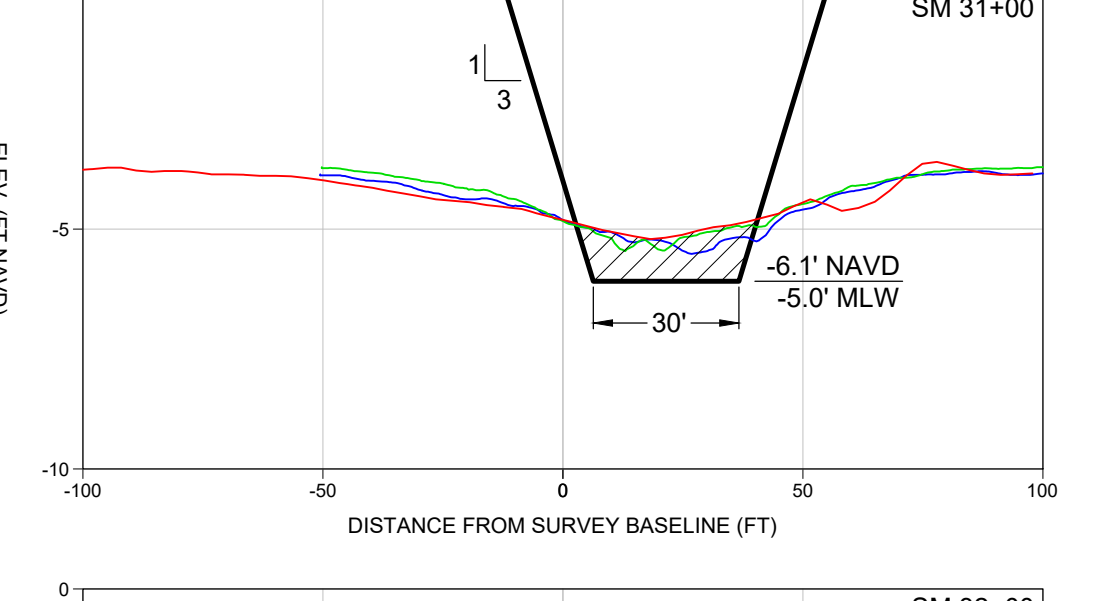
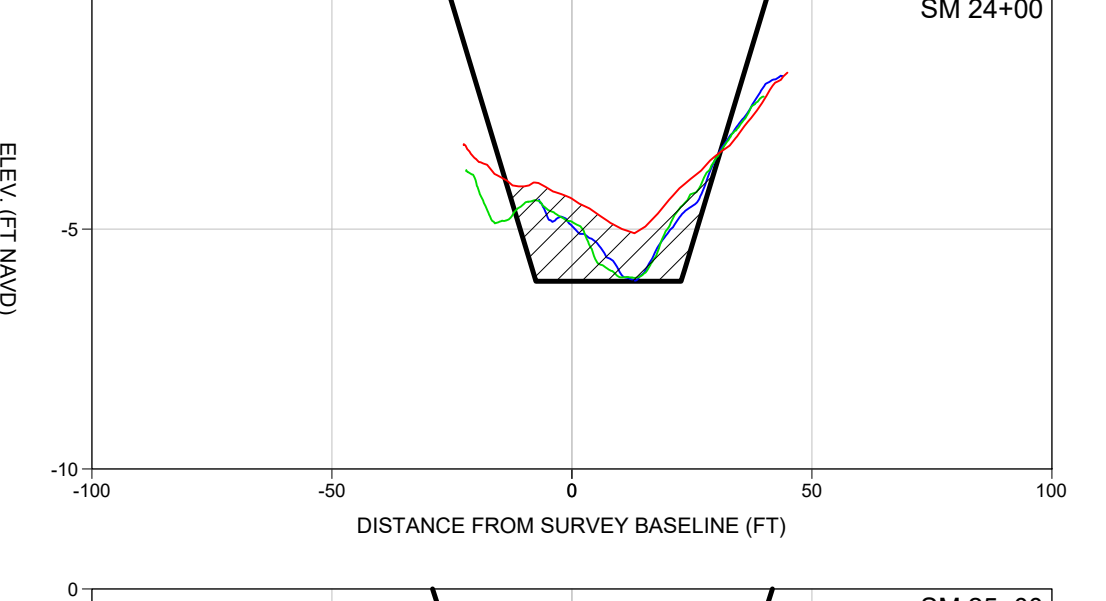
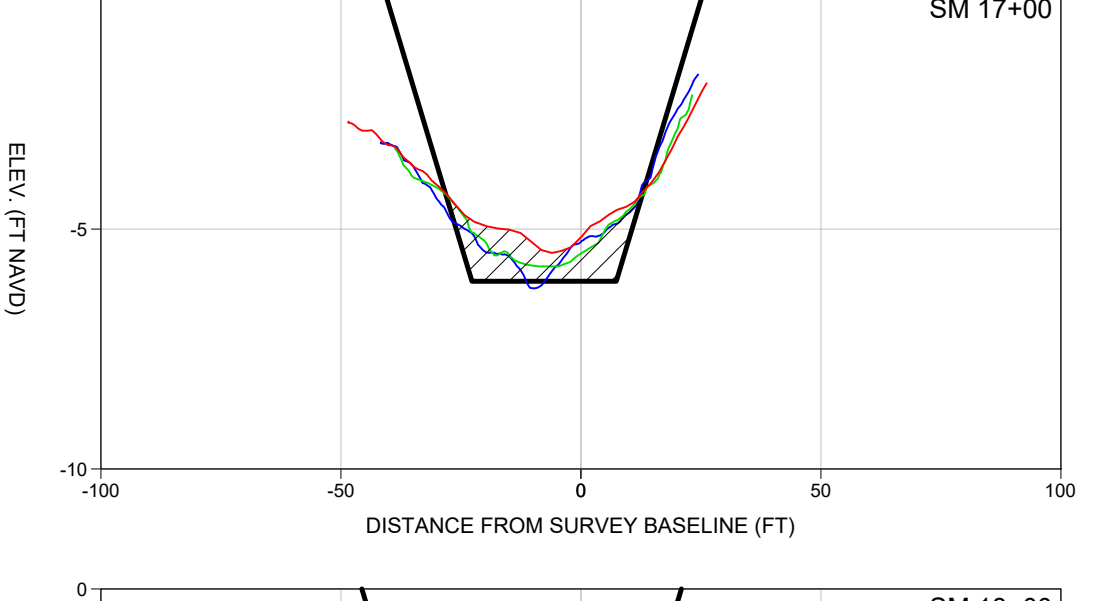
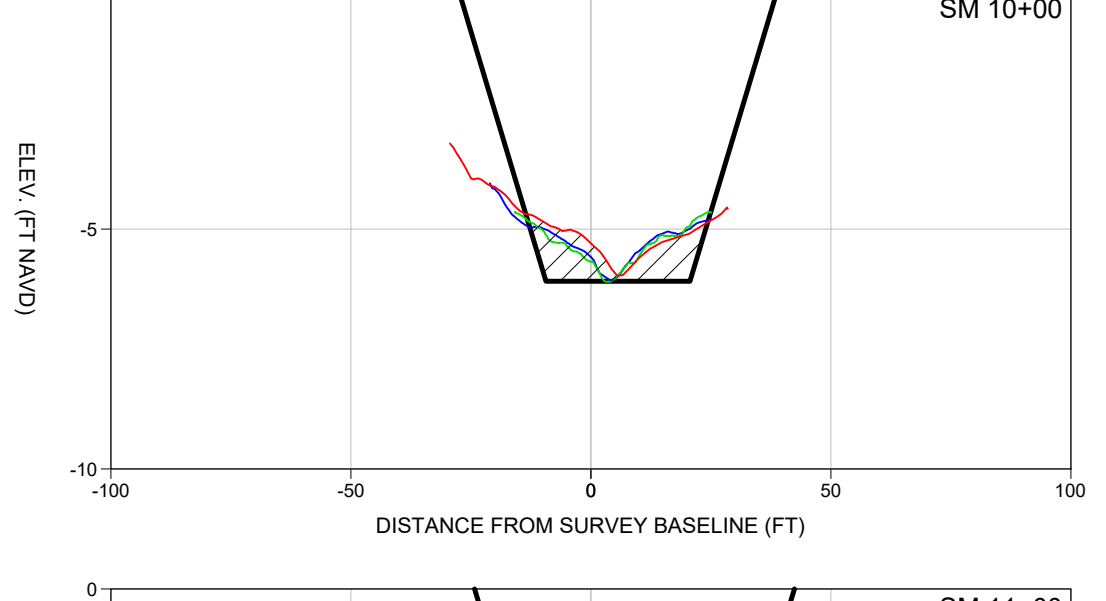
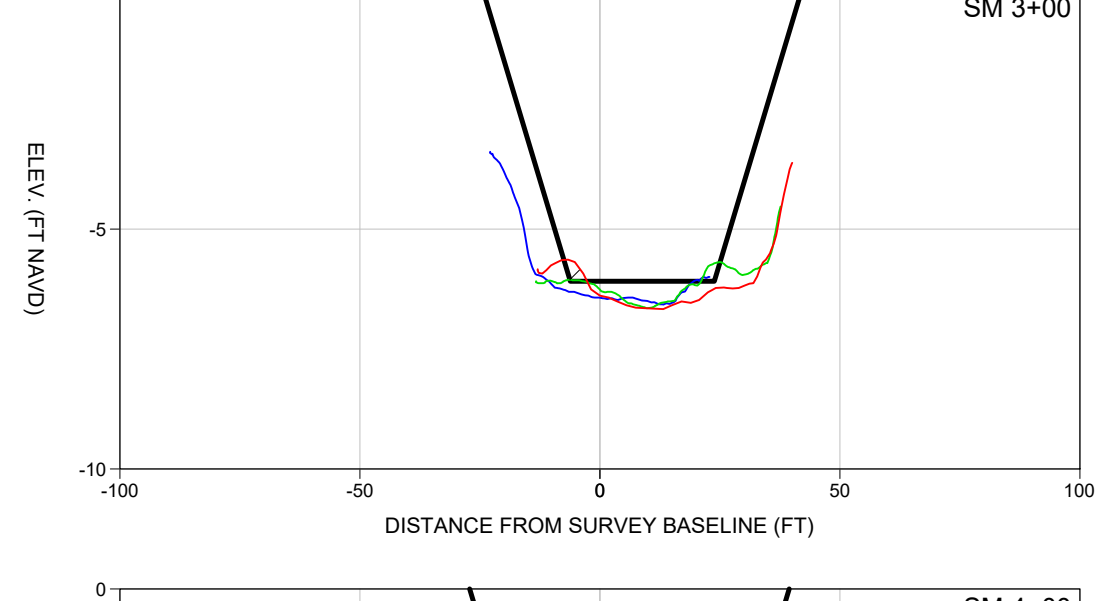
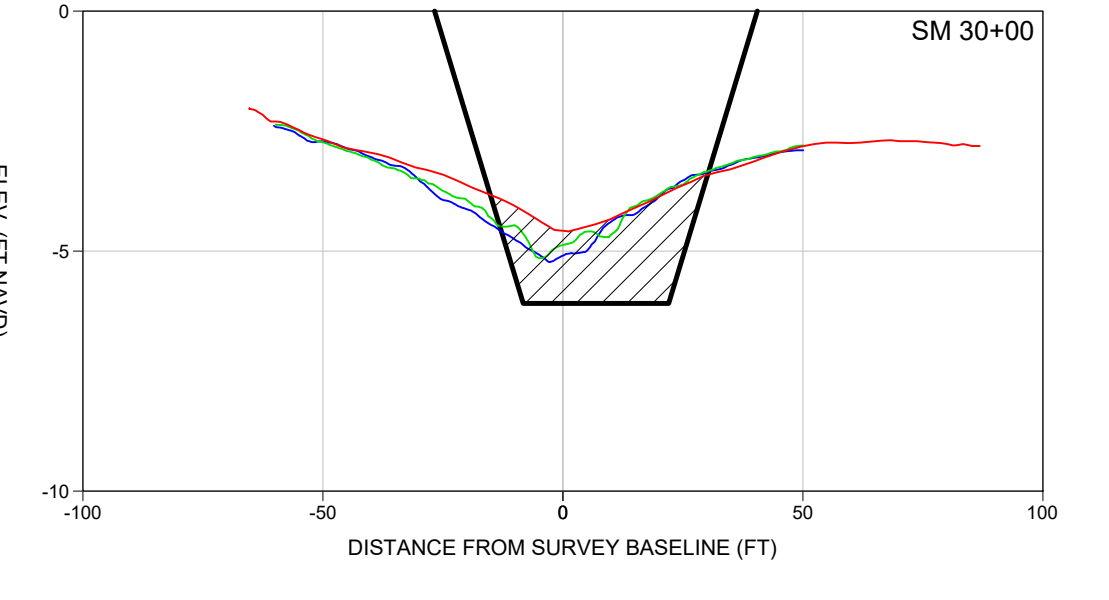
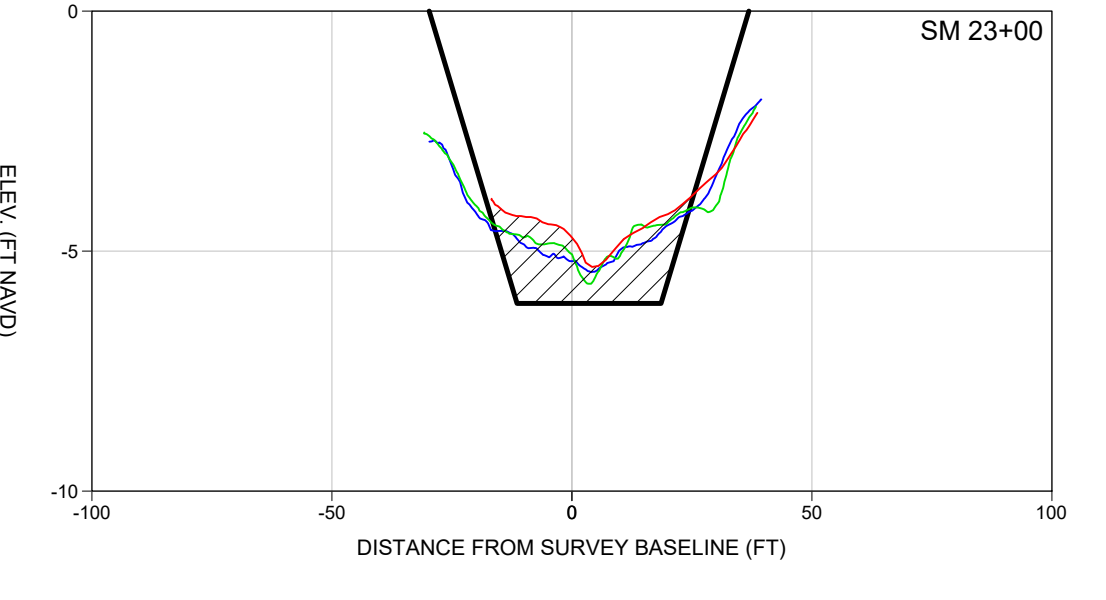
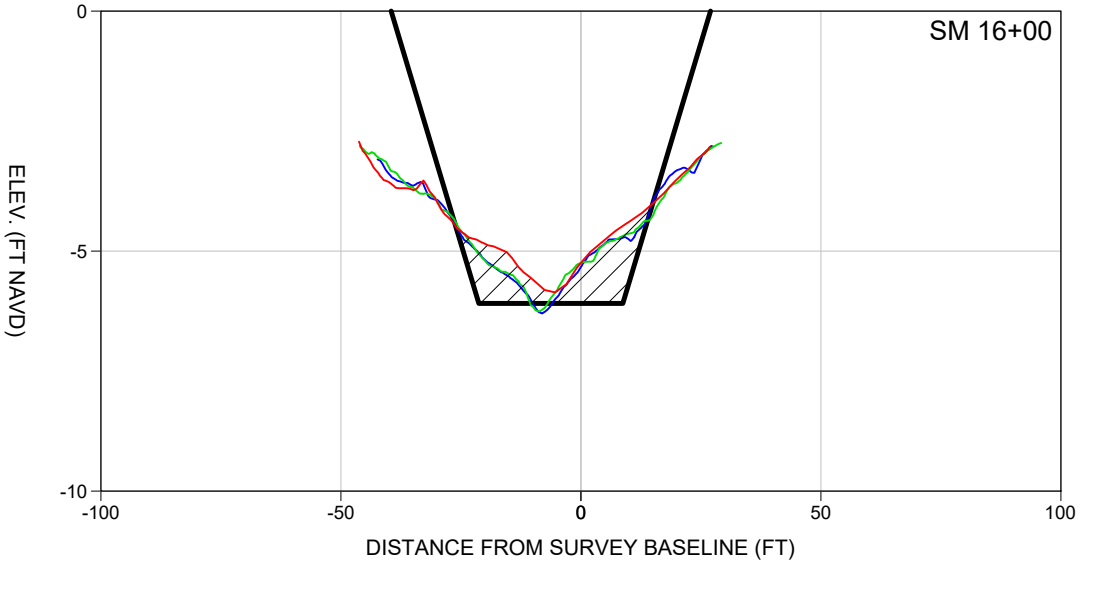
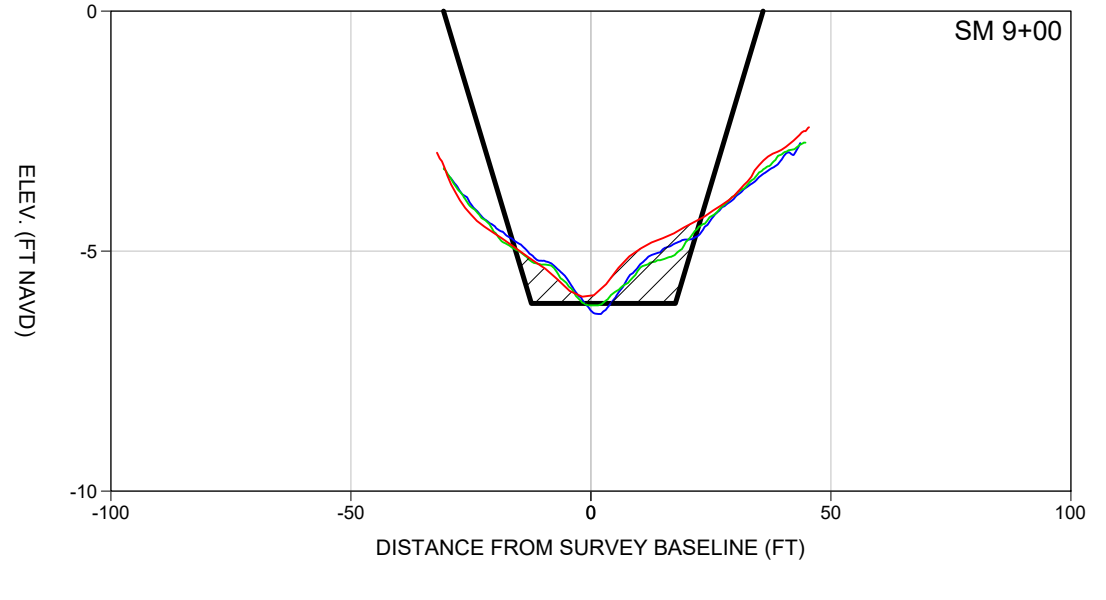
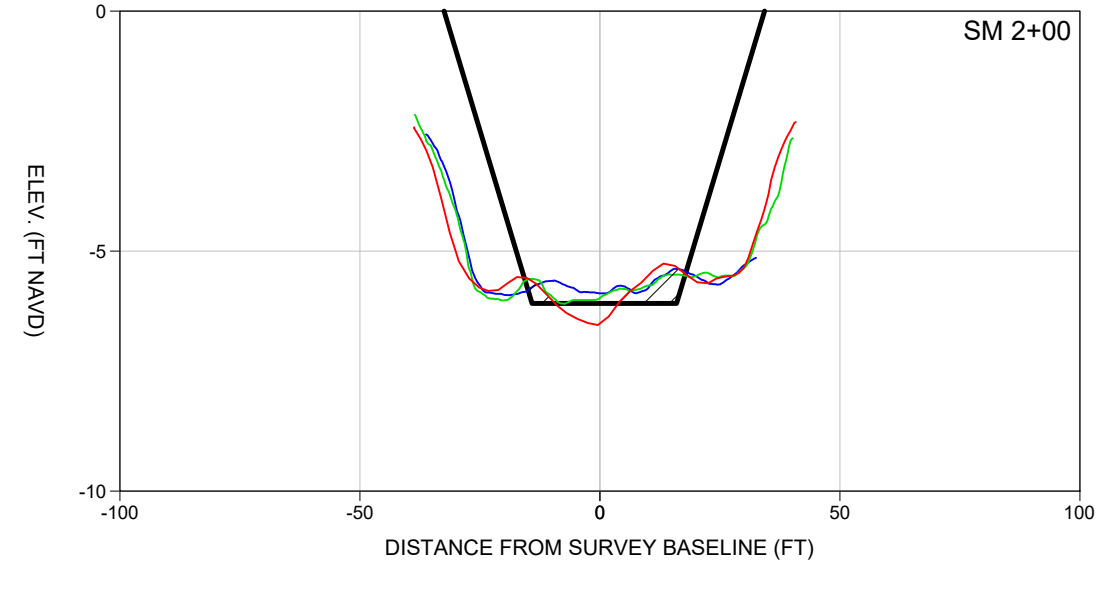
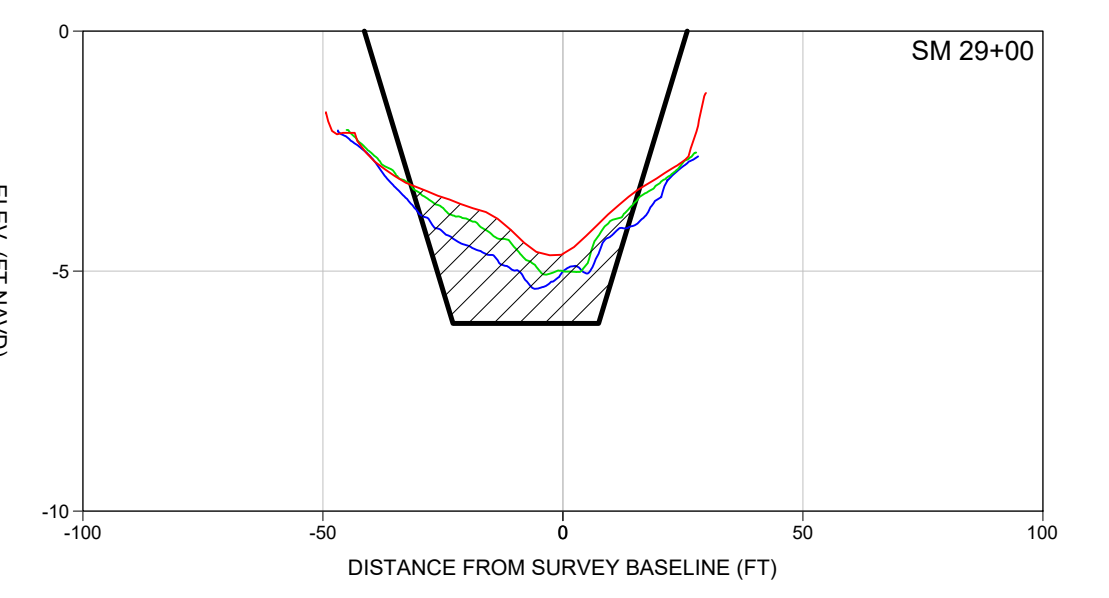
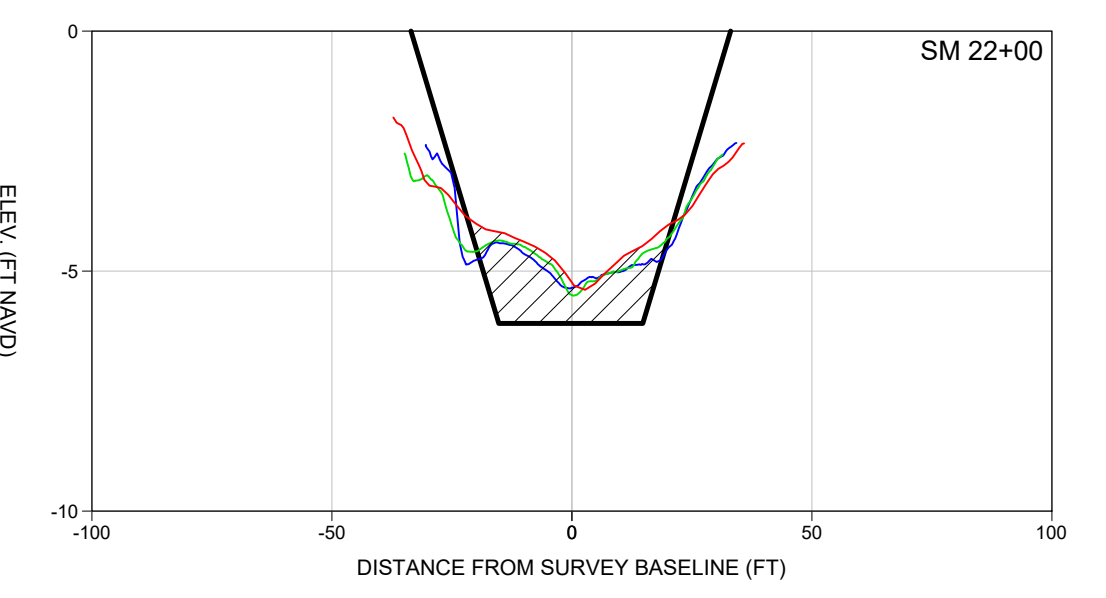
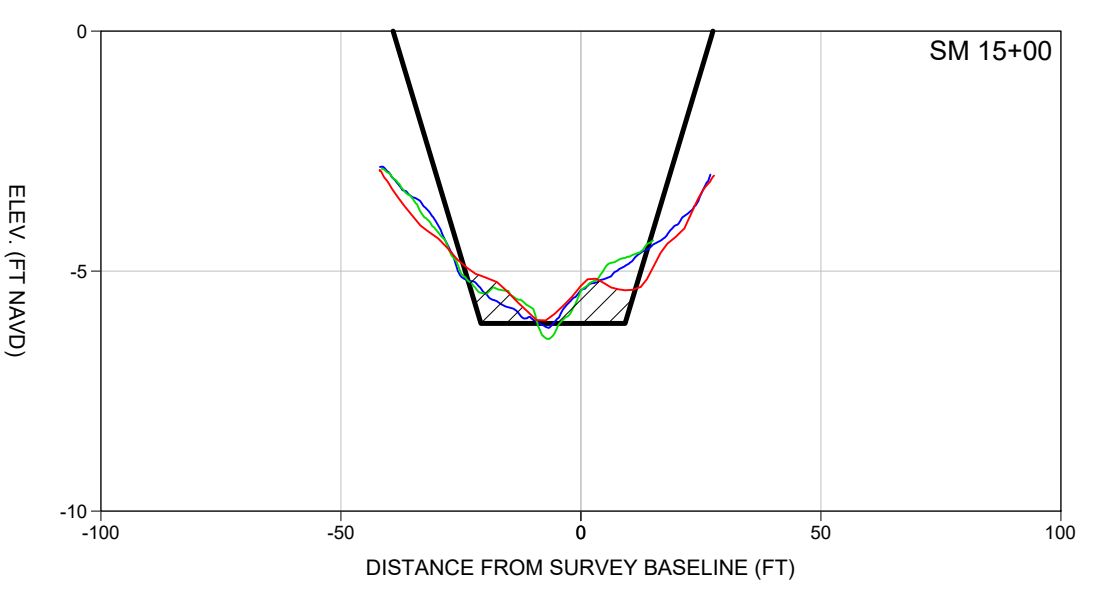
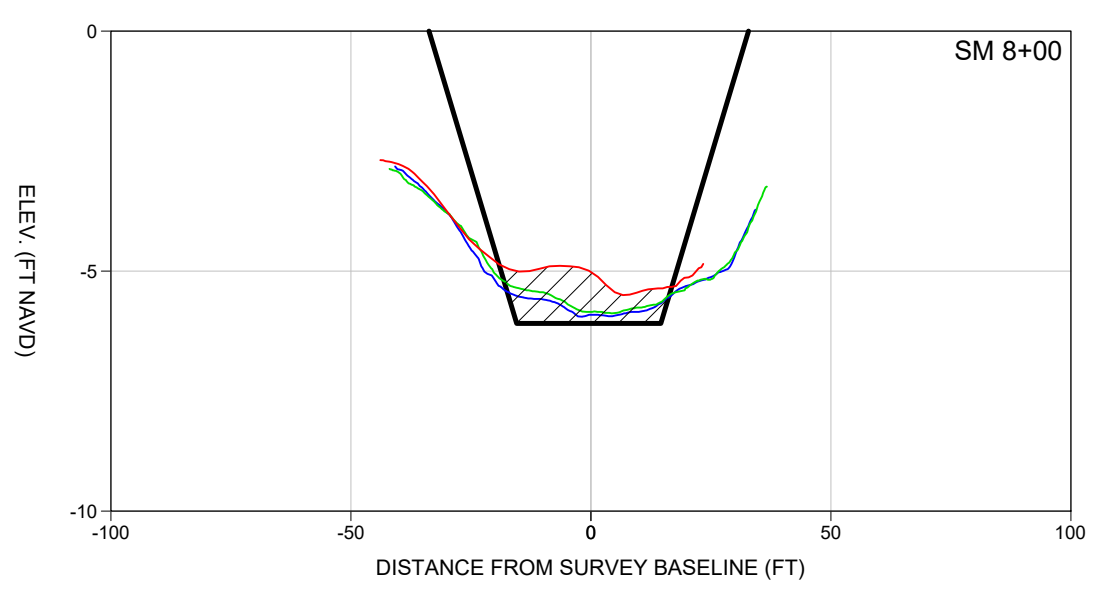
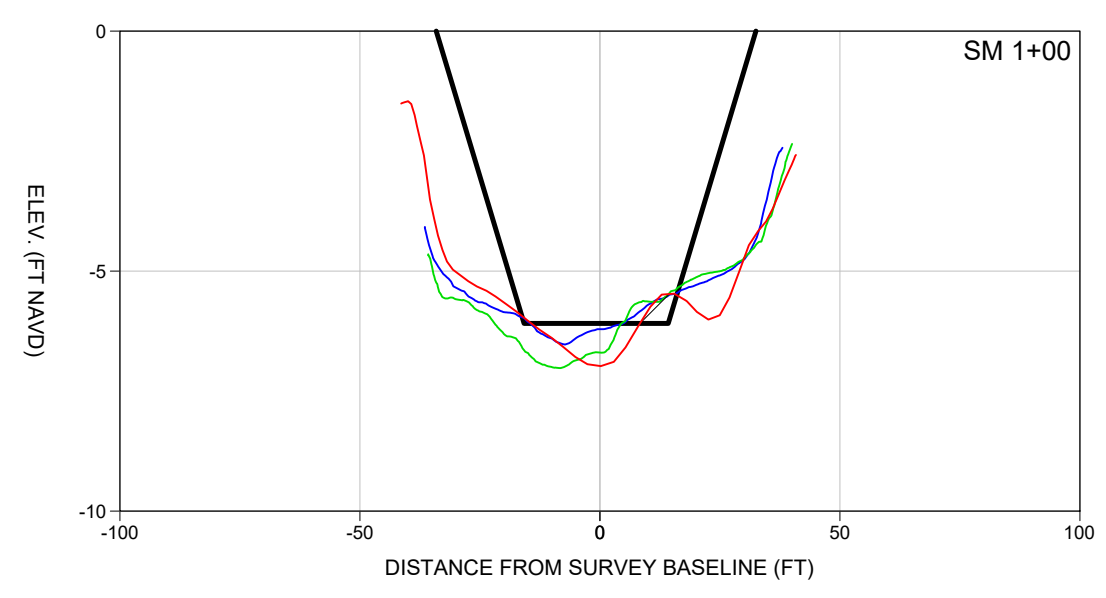
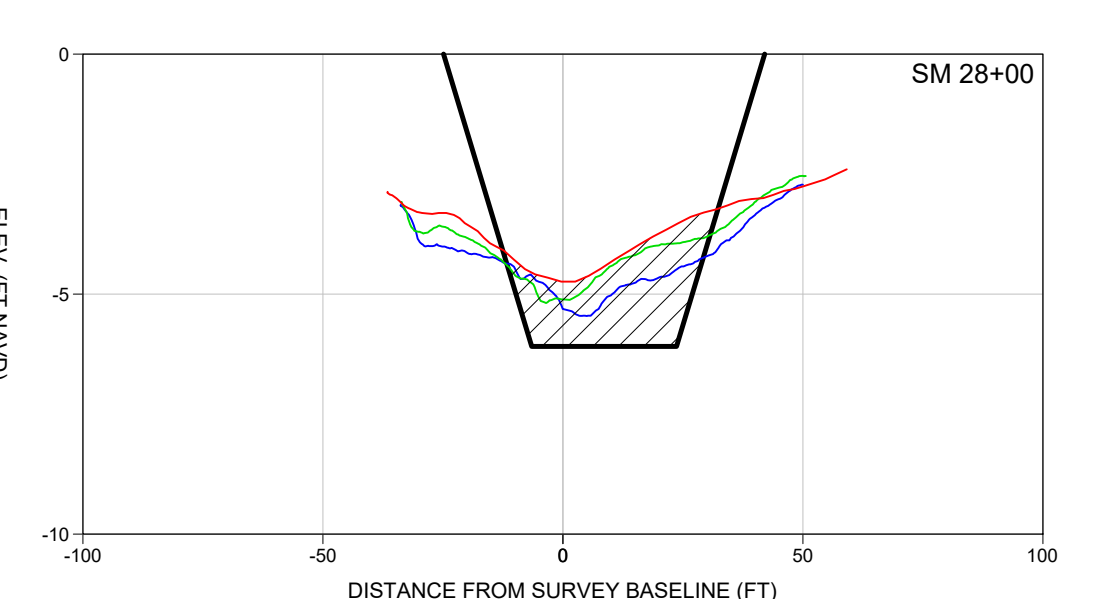
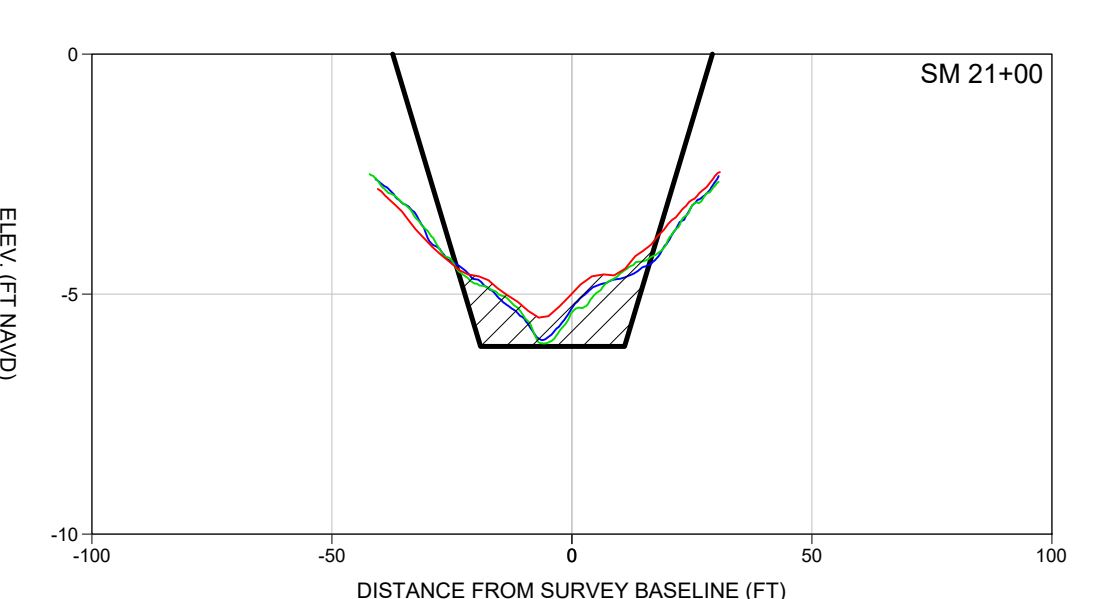
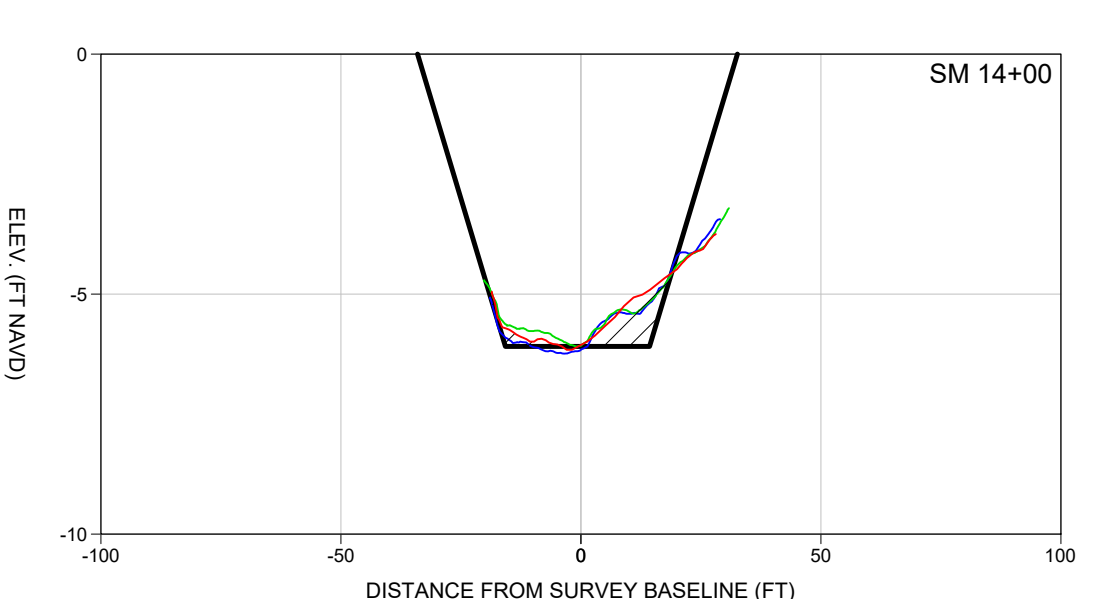
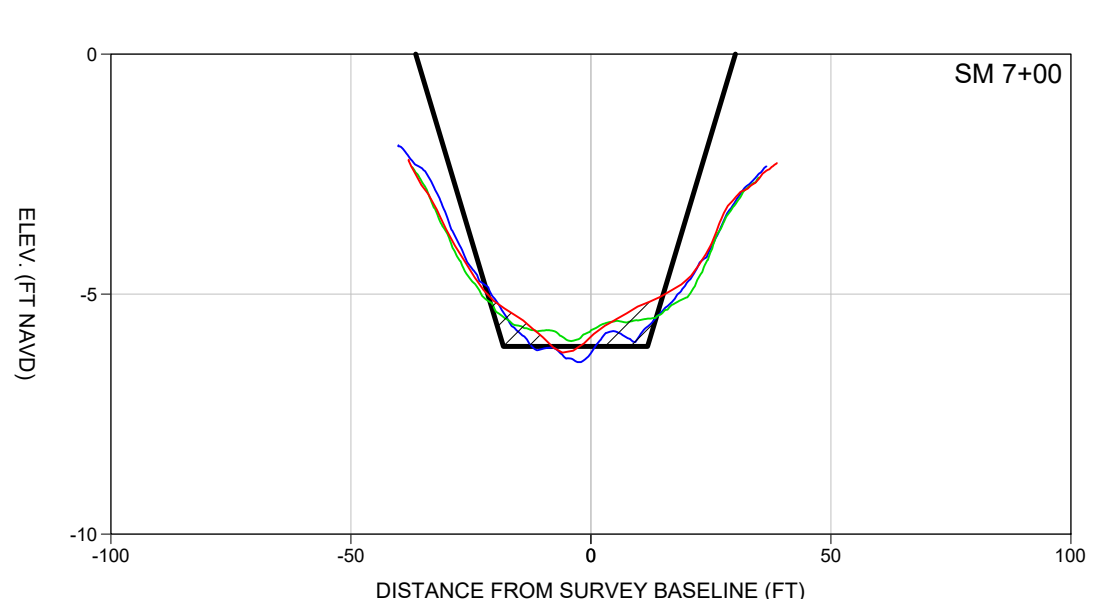
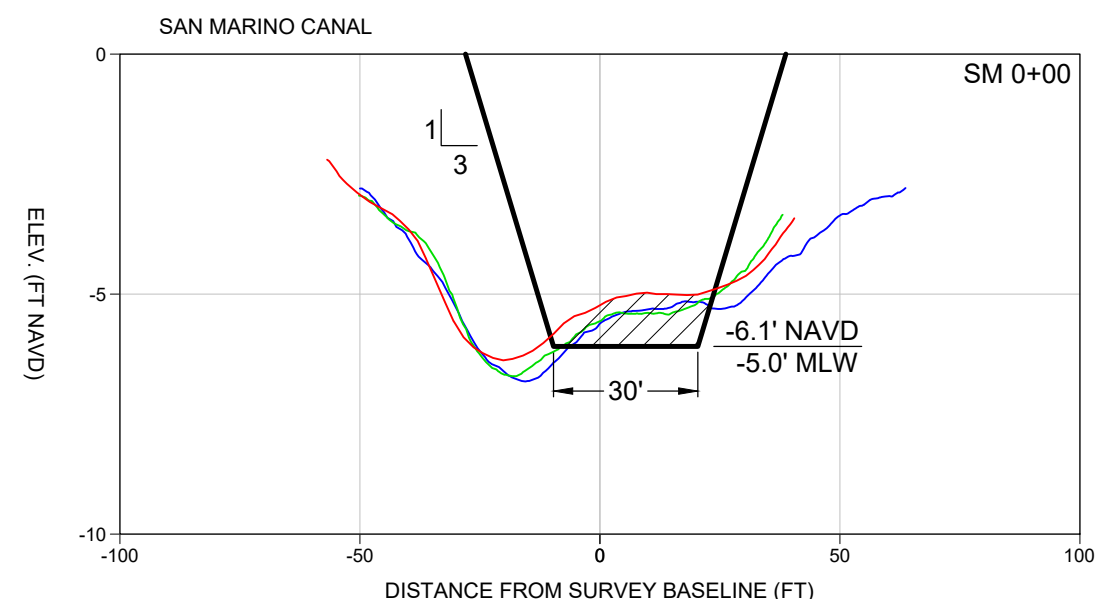
**DRAWN:** VVA F.B.  
**CHECKED:** RJE J.G.

**SEC:** TWP. RING.  
**ACAD NO.:** 23075-Harbour Heights.dwg  
**REF. NO.:** 23.075

**DATE:** BY  
**NO.:** 23.075  
**REVISION DESCRIPTION:**

**COASTAL ENGINEERING CONSULTANTS INC.**  
 Serving Florida Since 1977  
 28421 BONITA CROSSINGS BLVD  
 BONITA SPRINGS, FLORIDA 34104  
 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastalengineering.com  
 E-Mail: info@cecinc.com

**SHEET 5**  
**FILE NO.:** 23075-HH-5



**LEGEND**  
 10/22/2019 SURVEY  
 12/10/2020 SURVEY  
 6/13/2023 SURVEY  
 DREDGE AREA

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

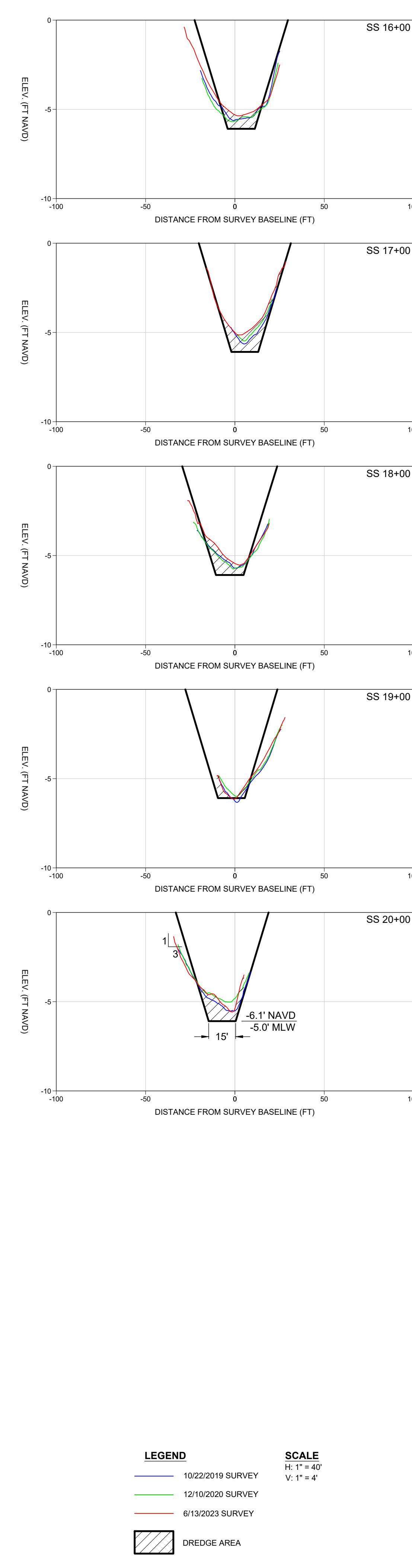
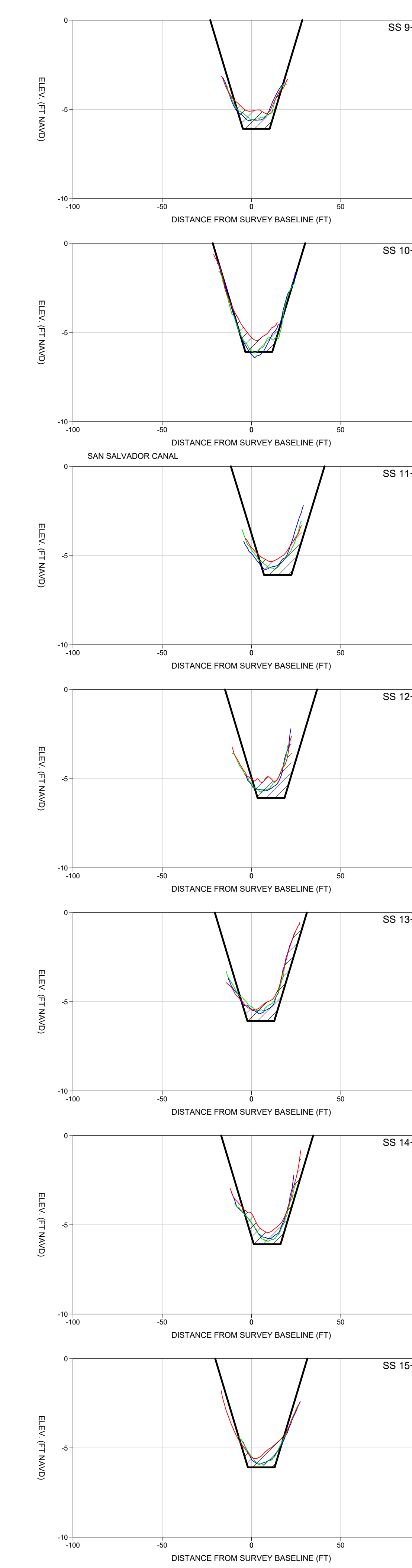
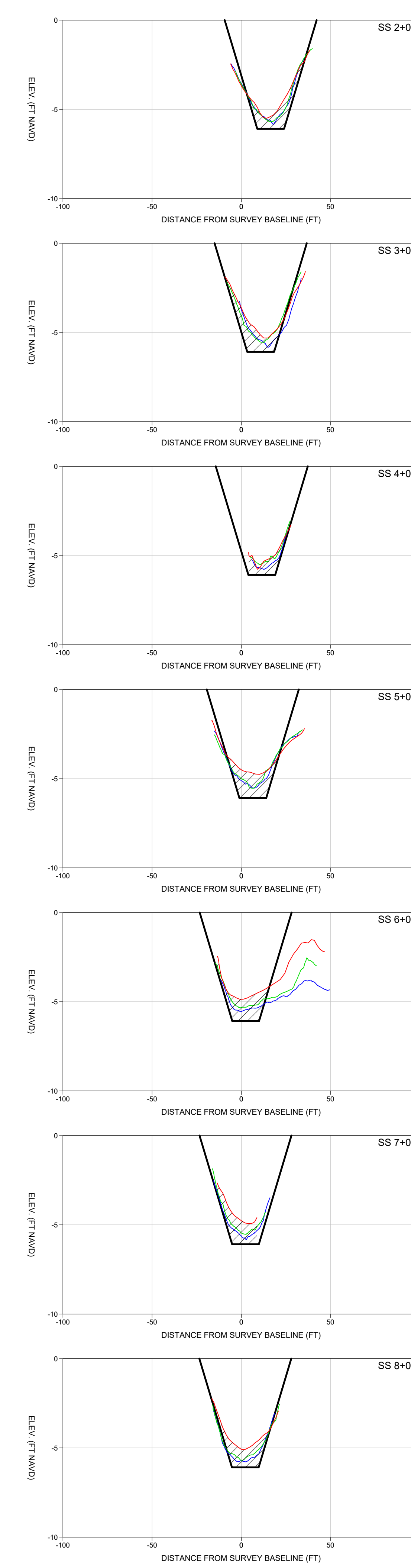
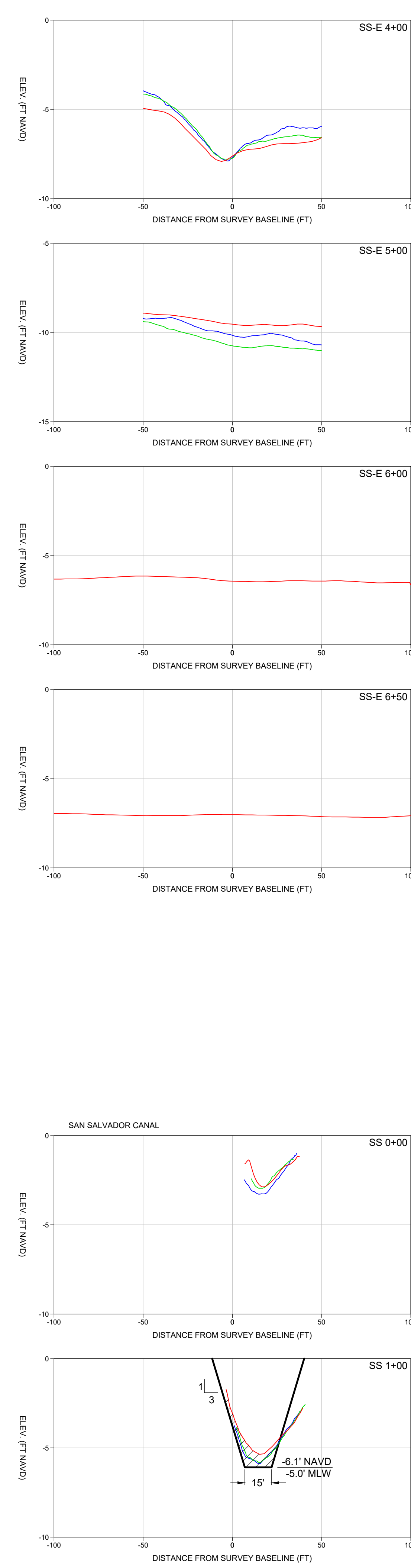
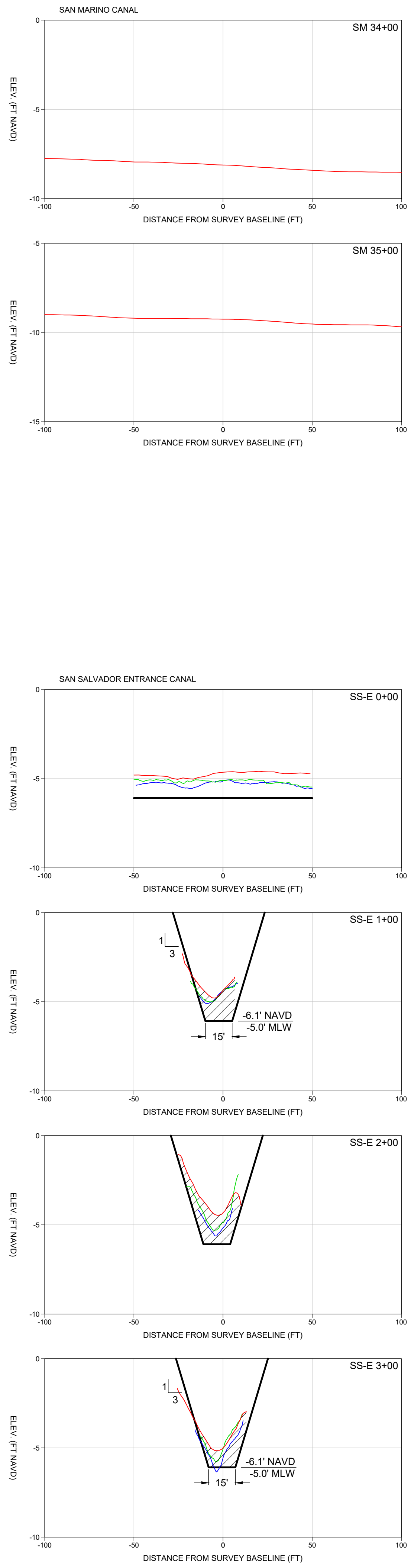
**CHARLOTTE COUNTY**  
**HARBOUR HEIGHTS CHANNELS**  
**CROSS SECTIONS**  
**SAN MARINO CANAL: 0+00 TO 33+00**

CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464  
 TITLE: 23075-HH-6

DATE: 7/6/2023 SCALE: AS NOTED  
 DRAWN: VVA F.B. CHECKED: RJE J.G.  
 SEC. TWP. RING.  
 ACAD NO. 23075-Harbour Heights.dwg REF. NO. 23.075 NO. BY DATE

PHONE: (239)643-2324 FAX: (239)643-1143 www.coastalengineering.com E-Mail: info@cecinc.com  
 28421 BONITA CROSSINGS BLVD BONITA SPRINGS, FLORIDA 34104

COASTAL ENGINEERING CONSULTANTS INC.  
 Serving Florida Since 1977  
 SHEET 6  
 FILE NO.: 23075-HH-6



**LEGEND**

- 10/22/2019 SURVEY
- 12/10/2020 SURVEY
- 6/13/2023 SURVEY
- DREDGE AREA

**SCALE**

H: 1" = 40'

V: 1" = 4'

**COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464**

**INC.**

Serving Florida Since 1977  
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BONITA SPRINGS, FLORIDA 34104

PHONE: (239)643-2324  
FAX: (239)643-1143  
www.coastalengineering.com  
E-Mail: info@cecinc.com

**CLIENT:** CHARLOTTE COUNTY

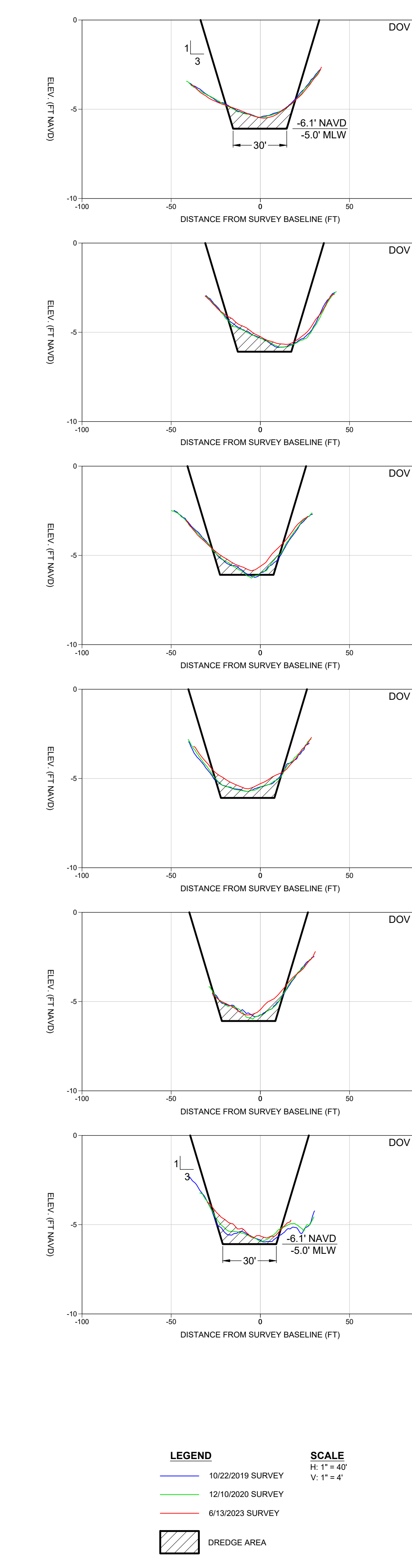
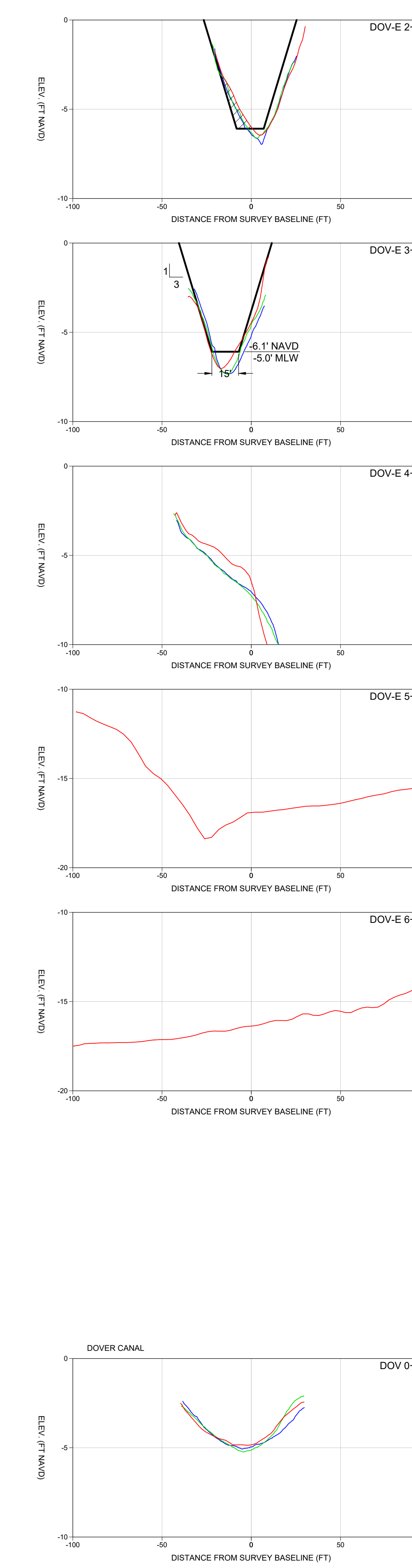
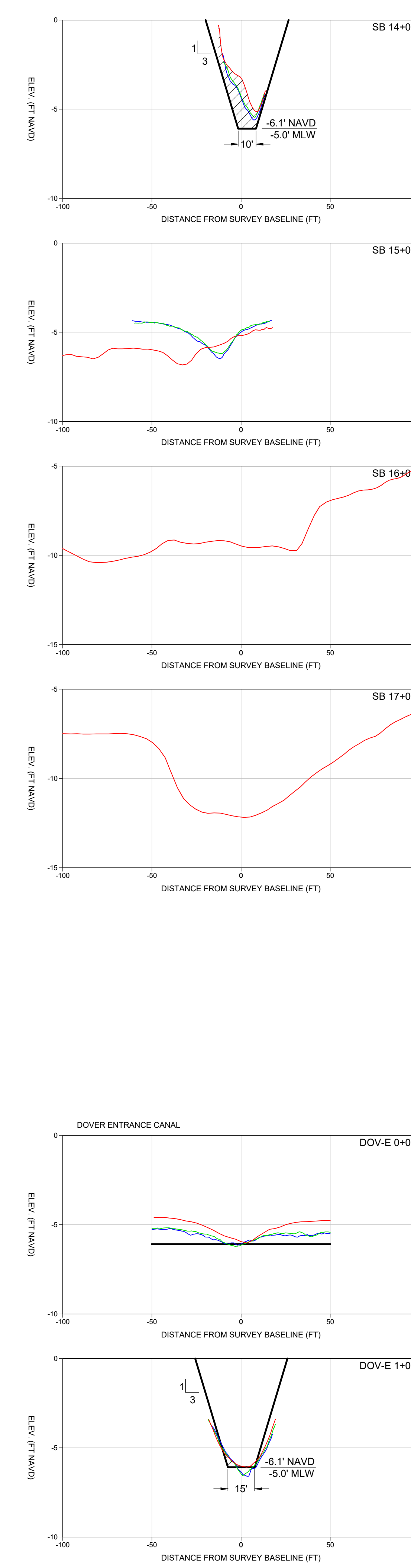
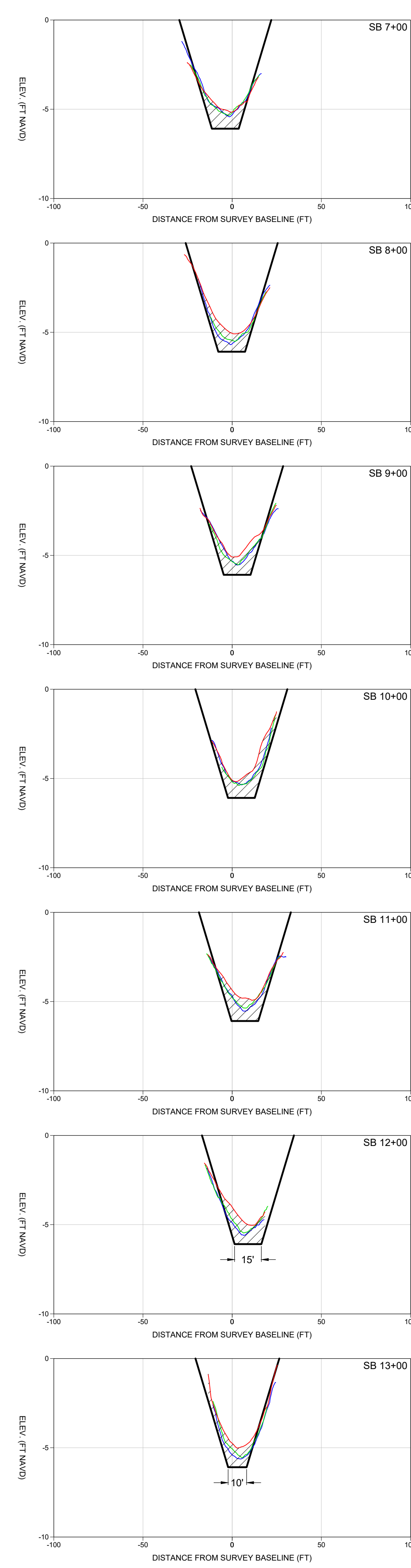
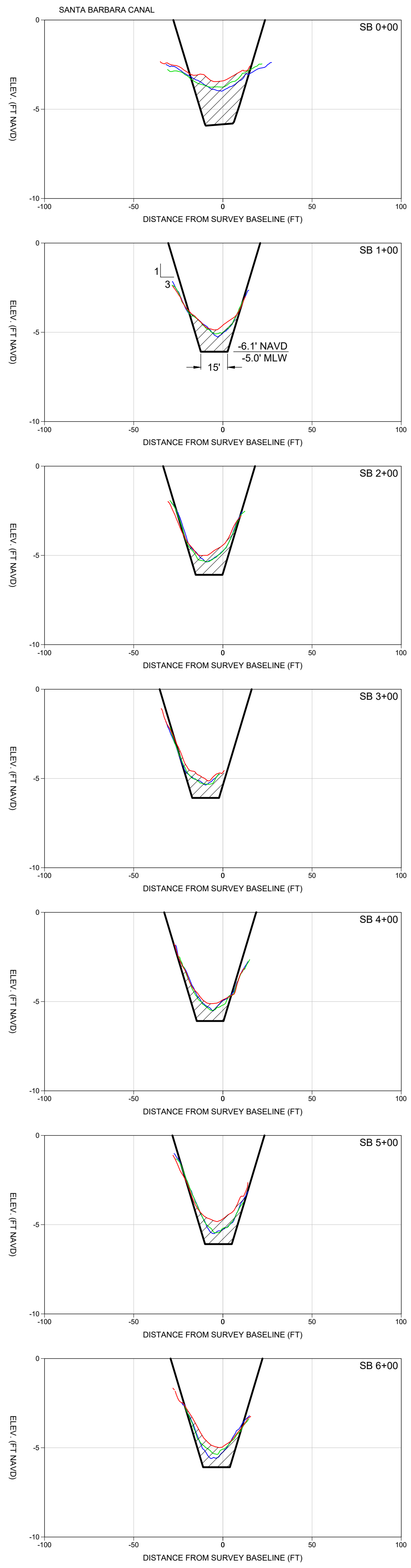
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS

**AS NOTED**

DATE: 7/6/2023 SCALE: VVA F.B.

DRAWN: RJE PG. CHECKED: TWP. RING.

ACAD NO. 23075-Harbour Heights.dwg REF. NO. 23 075 NO. DATE BY REVISION DESCRIPTION



**LEGEND**

- 10/22/2019 SURVEY
- 12/10/2020 SURVEY
- 6/13/2023 SURVEY
- DREDGE AREA

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

**COASTAL ENGINEERING CONSULTANTS INC.**  
 Serving Florida Since 1977  
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 BONITA SPRINGS, FLORIDA 34104

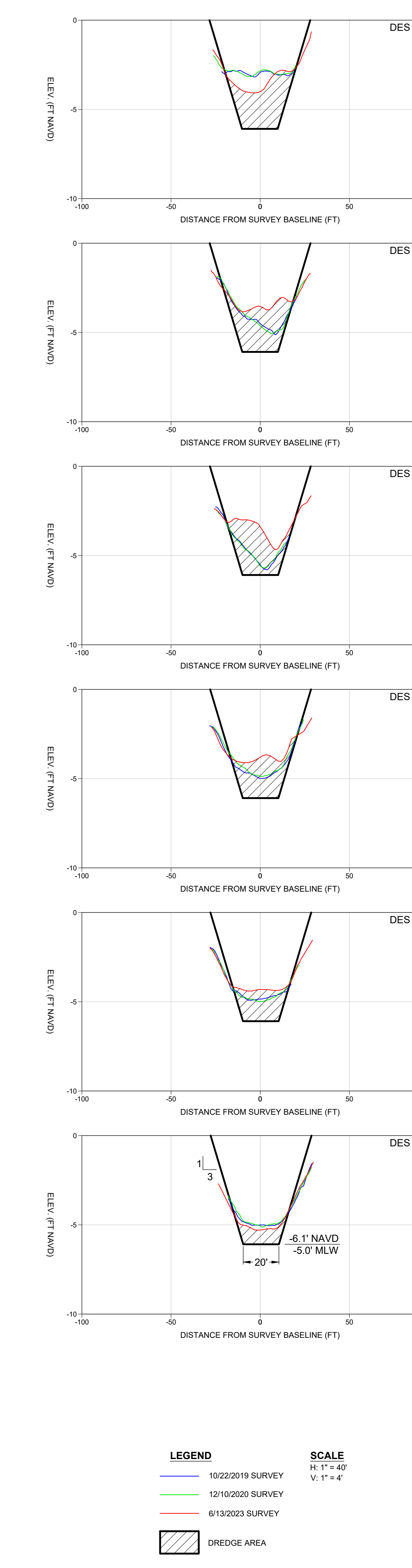
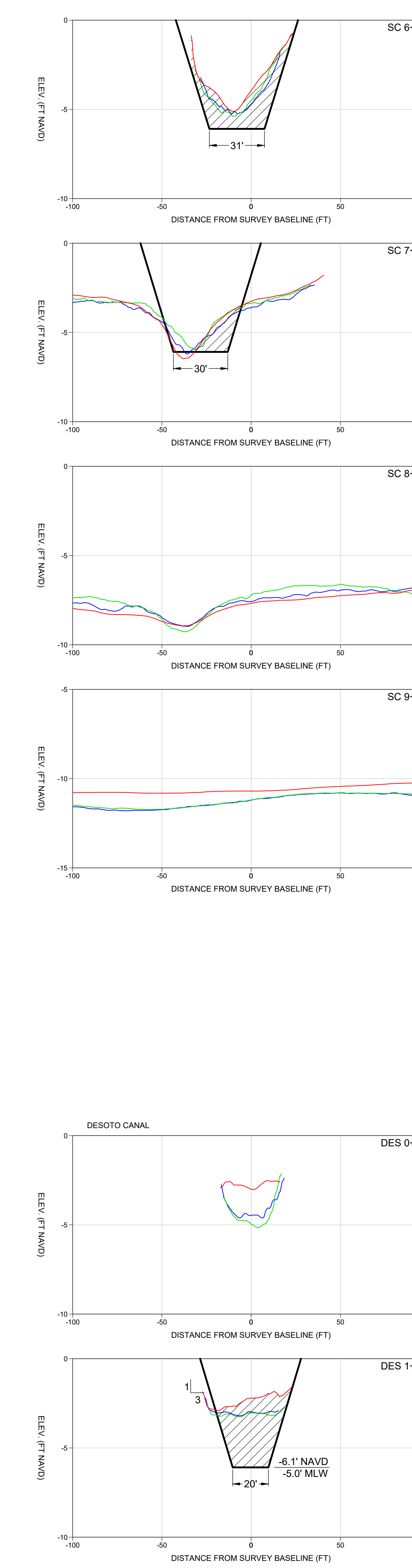
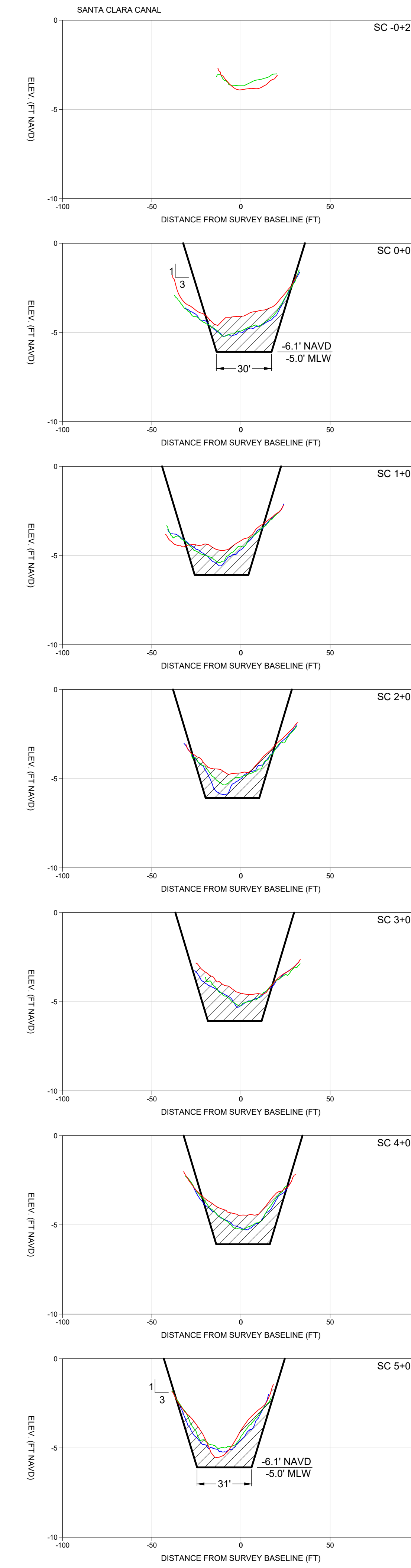
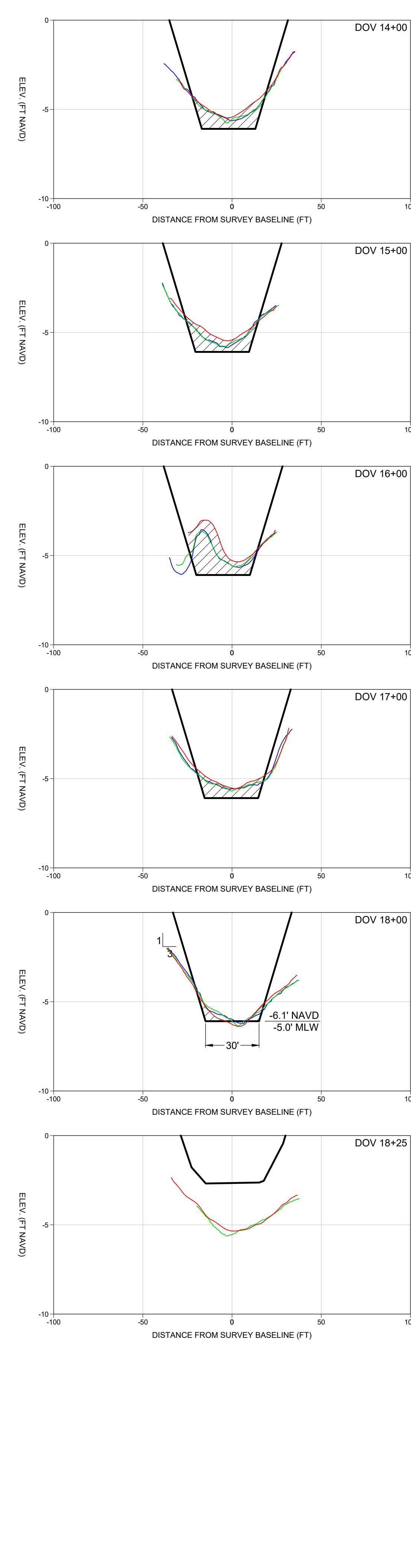
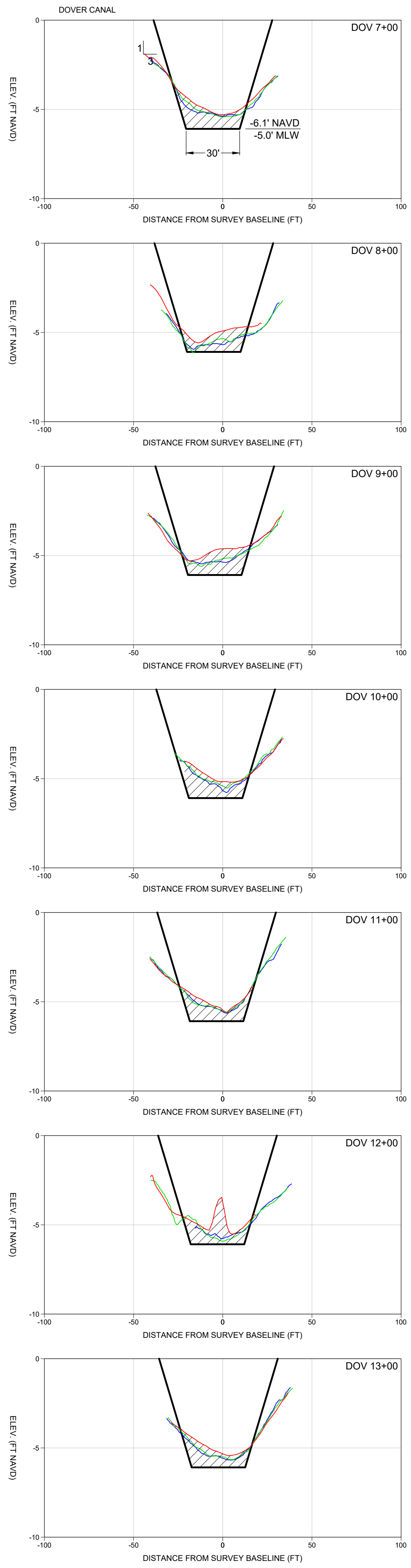
PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastalengineering.com  
 E-Mail: info@cecinc.com

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS  
 SANTA BARBARA CANAL: 0+00 TO 17+00  
 DOVER ENTRANCE CANAL: 0+00 TO 6+00  
 DOVER CANAL: 0+00 TO 6+00

DATE:	7/6/2023	SCALE:	AS NOTED	BY:	
DRAWN:	VVA	F.B.	RJE	PG.	
CHECKED:		TWP.		RNG.	
SEC.		ACAD NO.	23075-Harbour Heights.dwg		
REF. NO.		NO.	23 075		
DATE		BY			

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**LEGEND**  
 10/22/2019 SURVEY  
 12/10/2020 SURVEY  
 6/13/2023 SURVEY  
 DREDGE AREA

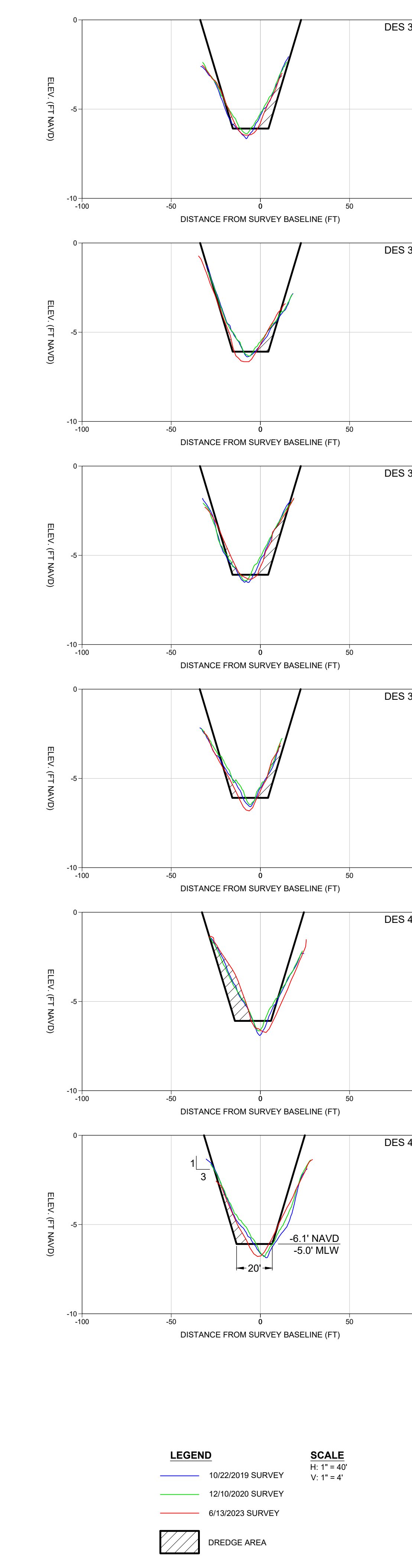
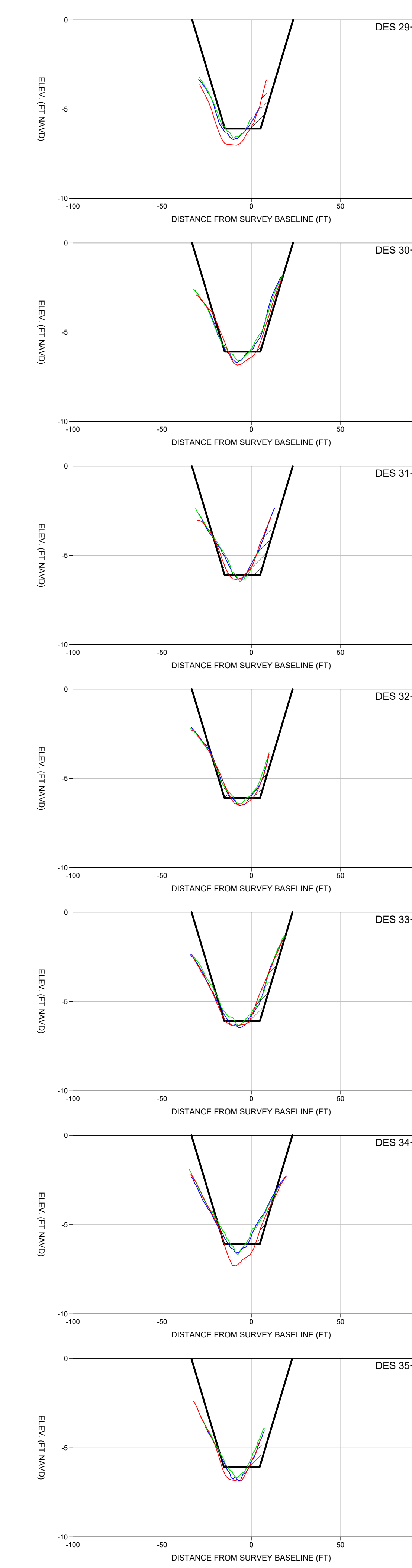
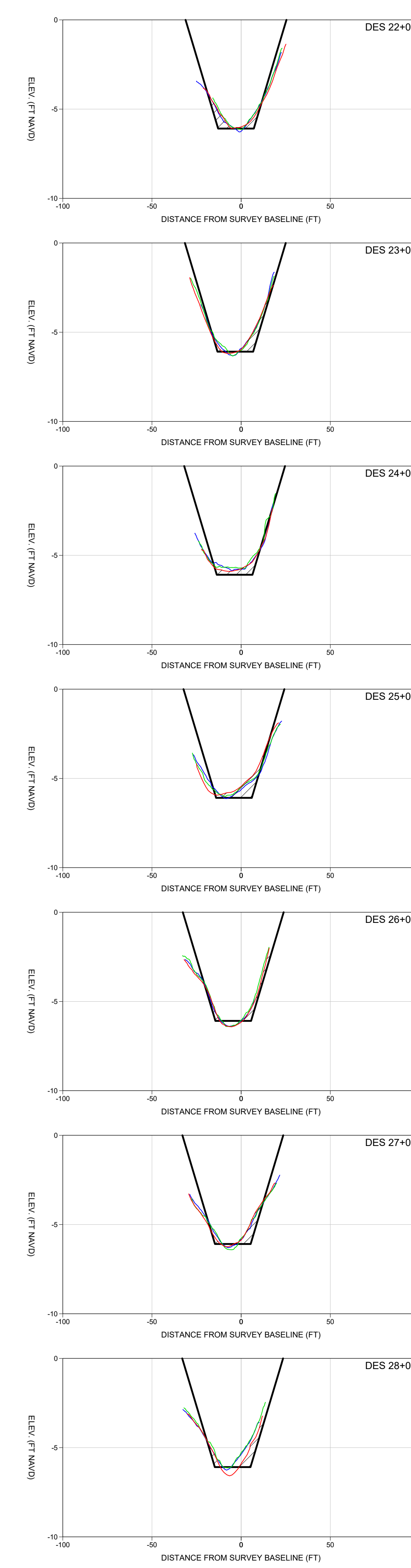
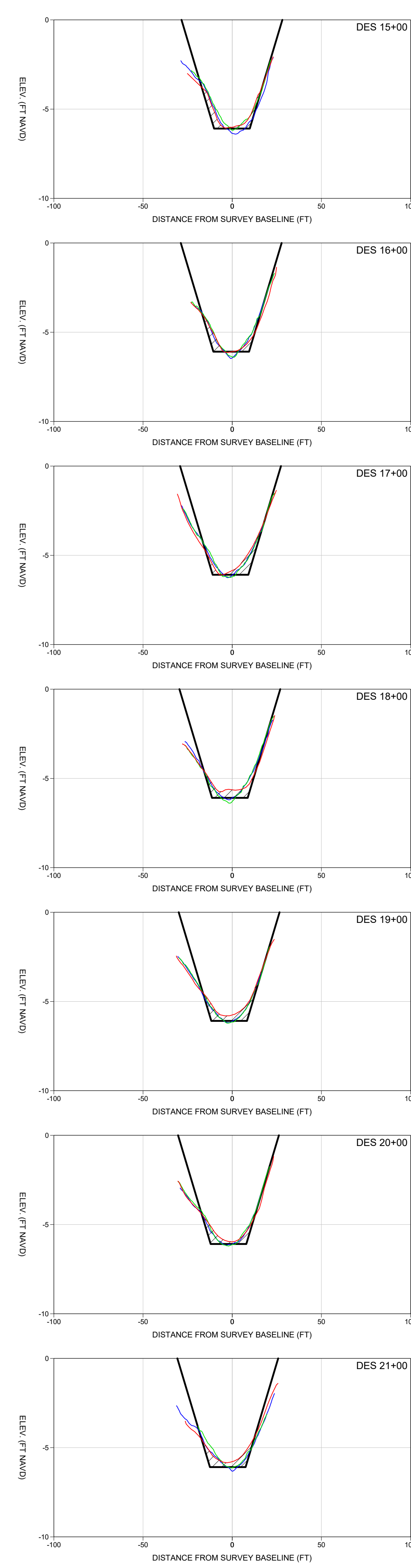
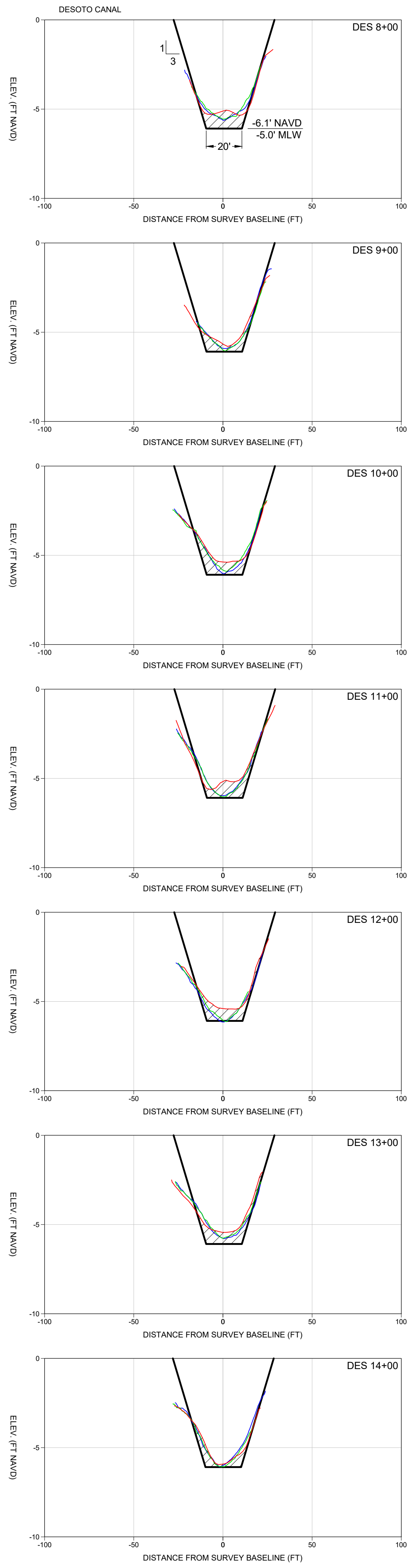
**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

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

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS  
 DOVER CANAL: 7+00 TO 18+25  
 SANTA CLARA CANAL: -0+25 TO 9+00  
 DESOTO CANAL: 0+00 TO 7+00

**DATE:** 7/6/2023  
**SCALE:** AS NOTED  
**DRAWN:** VVA F.B.  
**CHECKED:** RJE J.G.  
**SEC:** TWP. RING.  
**ACAD NO.:** 23075-Harbour Heights.dwg  
**REF. NO.:** 23 075 NO. DATE BY  
 REVISION DESCRIPTION

SHEET 9  
 FILE NO.: 23075-HH-9



**LEGEND**  
 10/22/2019 SURVEY  
 12/10/2020 SURVEY  
 6/13/2023 SURVEY  
 DREDGE AREA

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

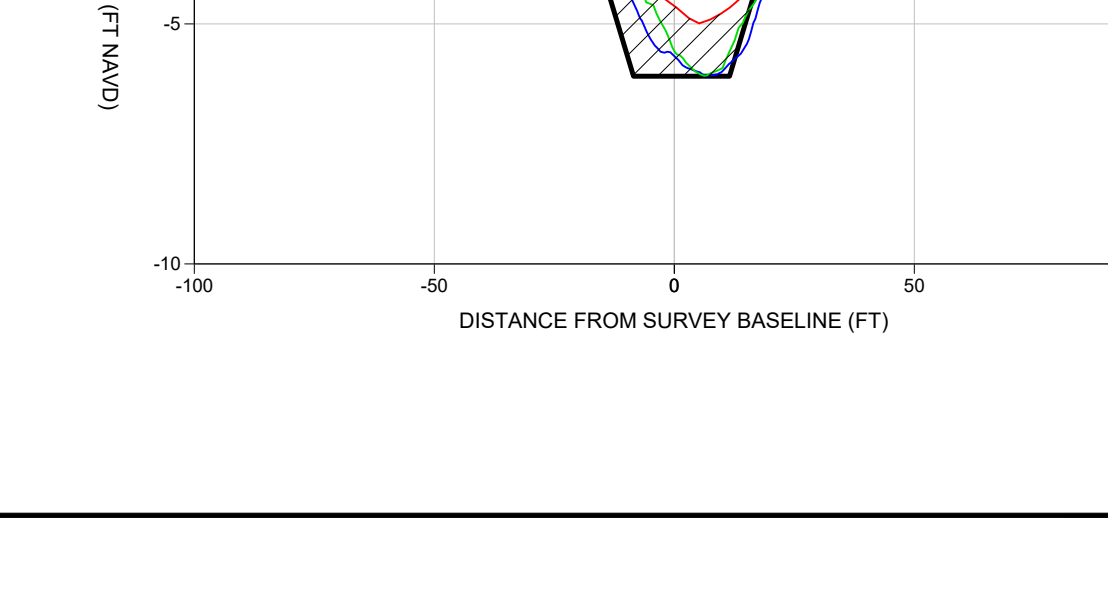
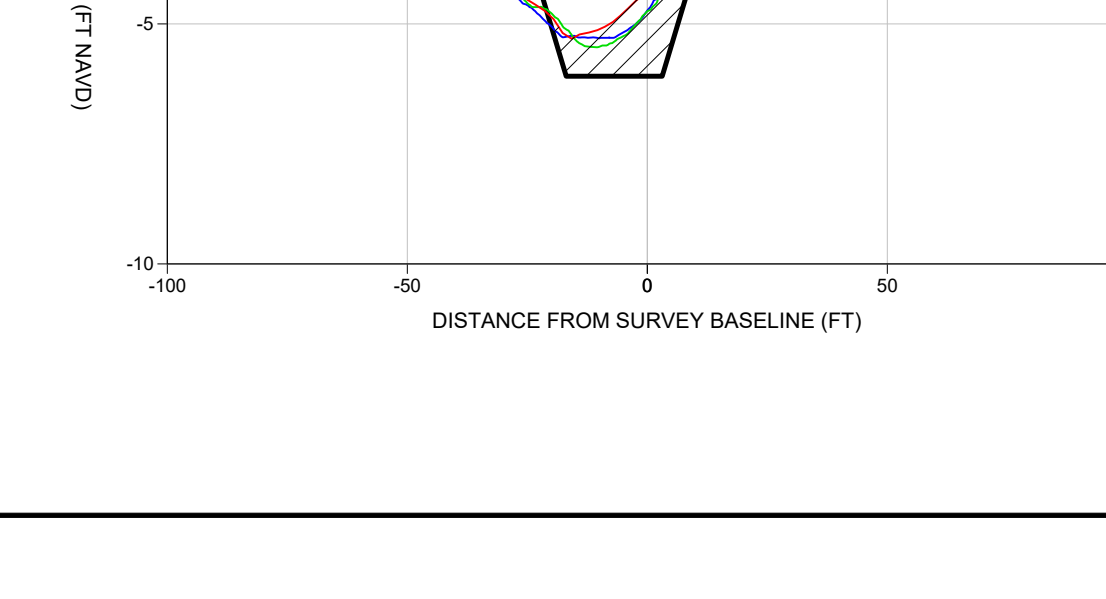
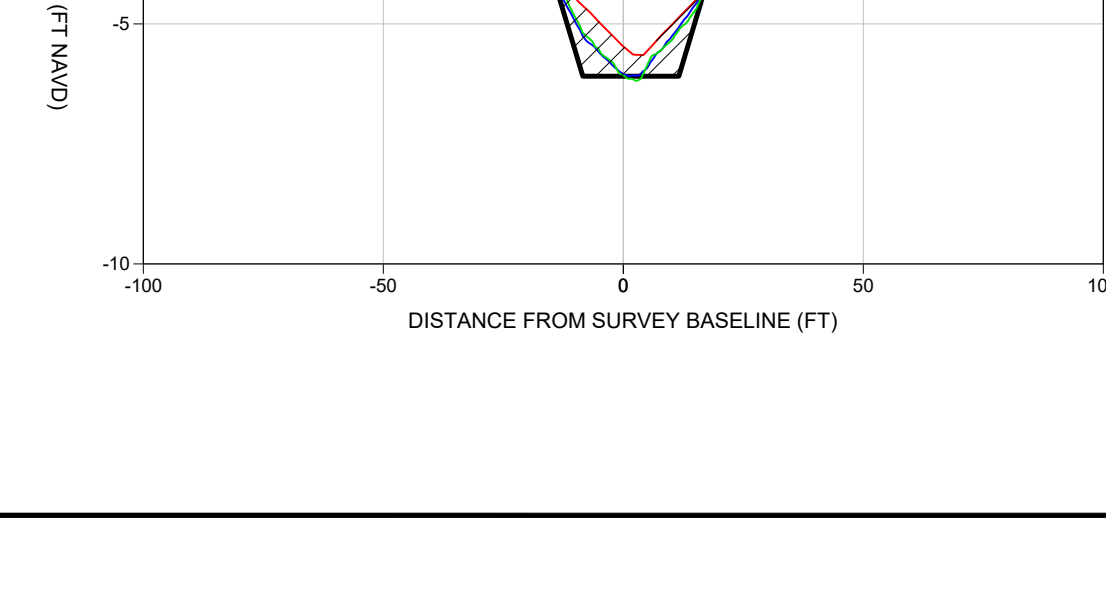
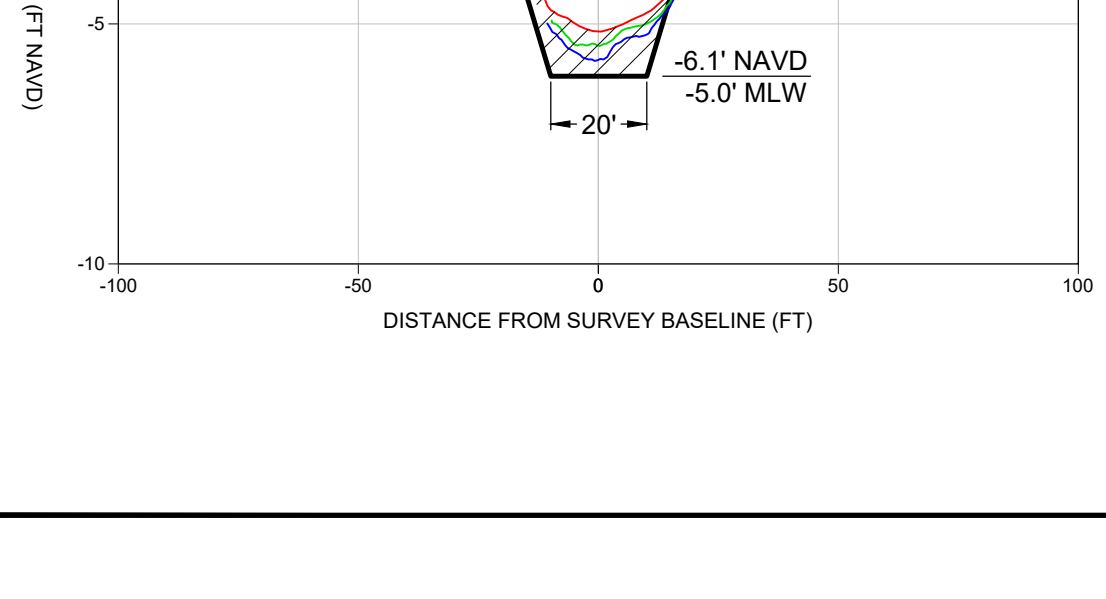
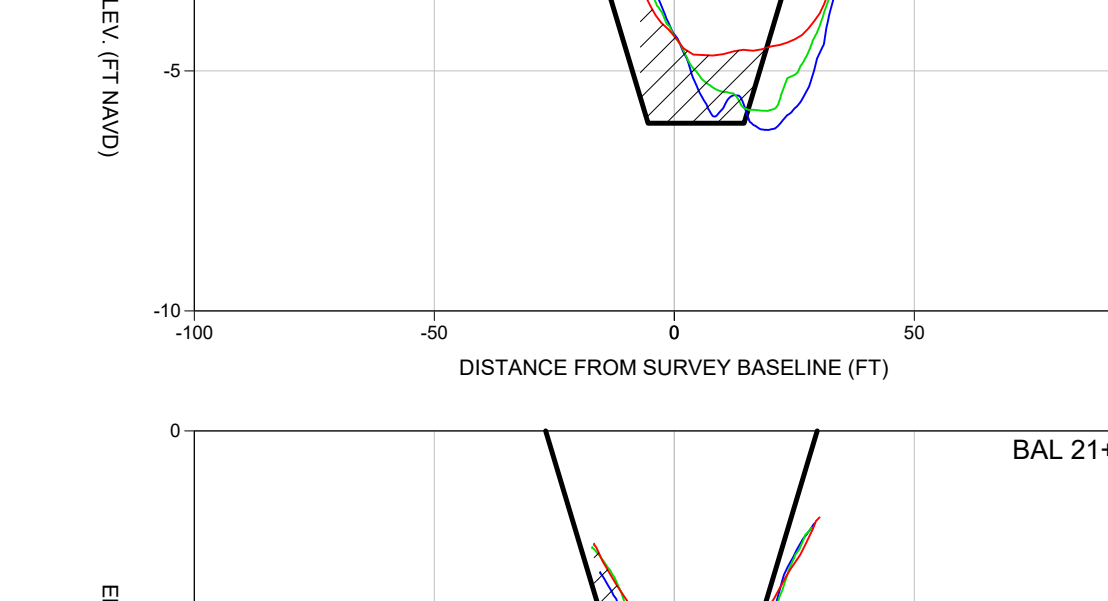
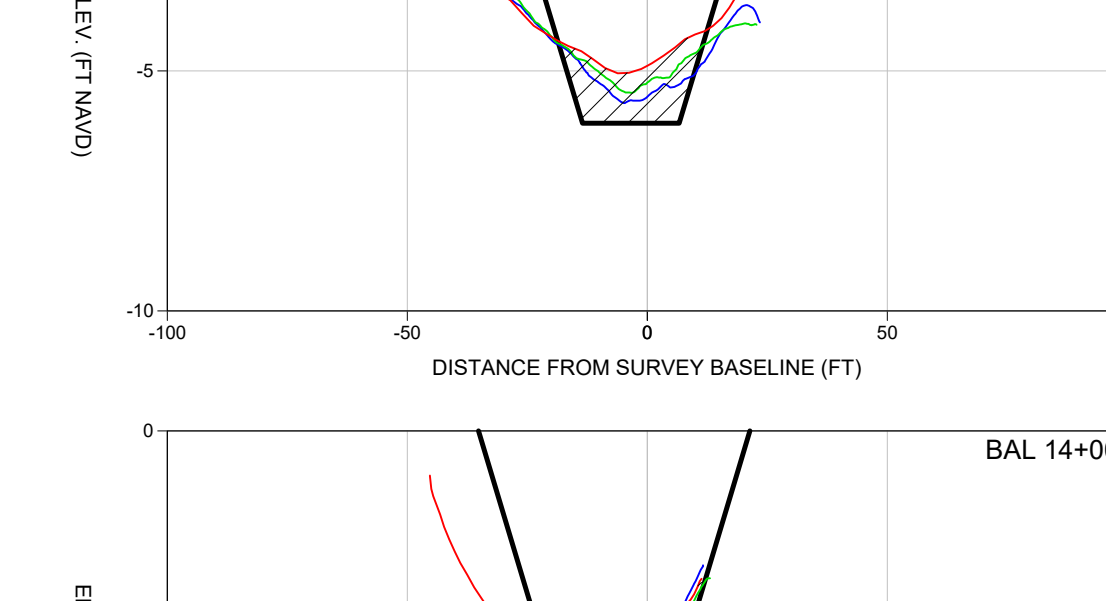
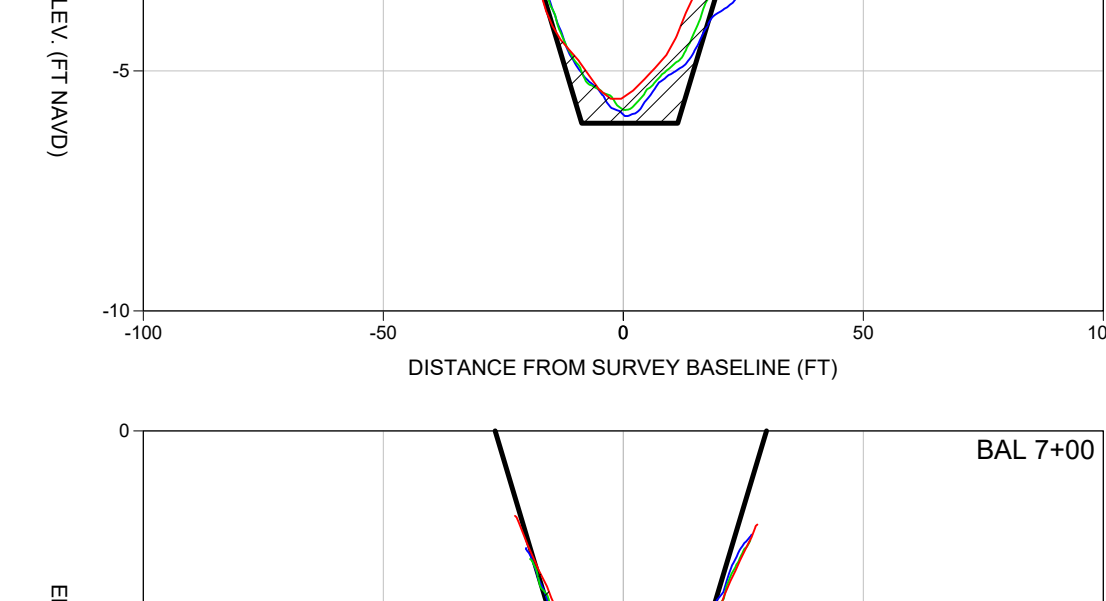
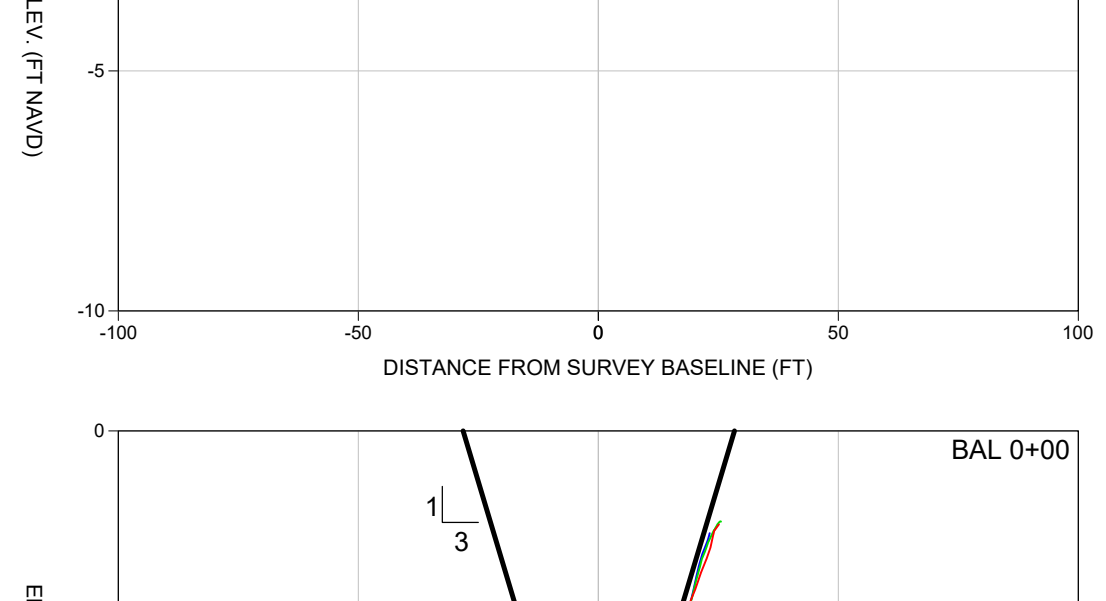
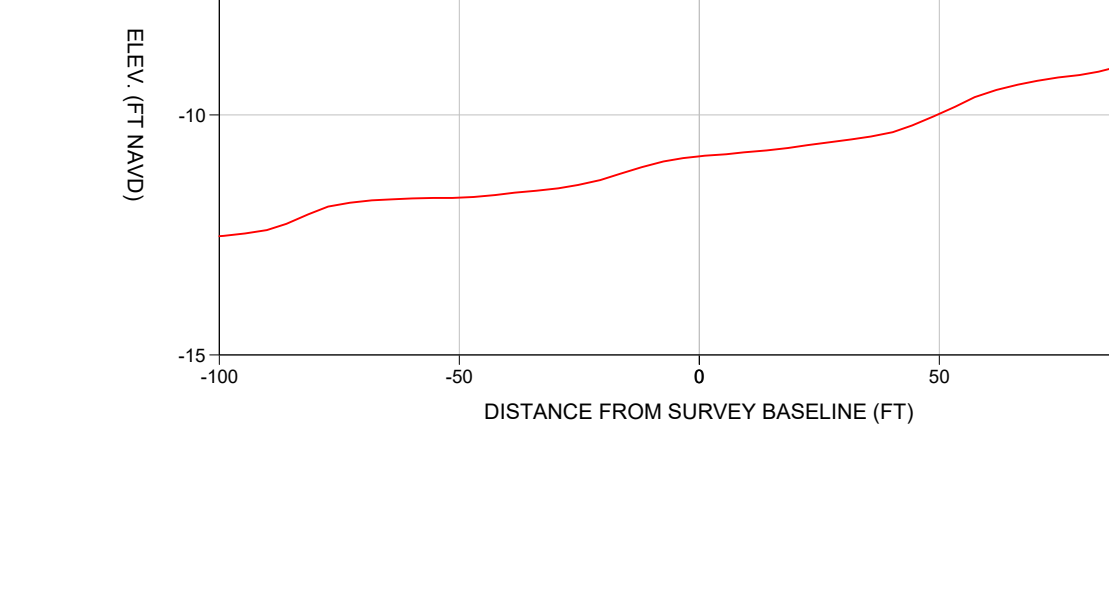
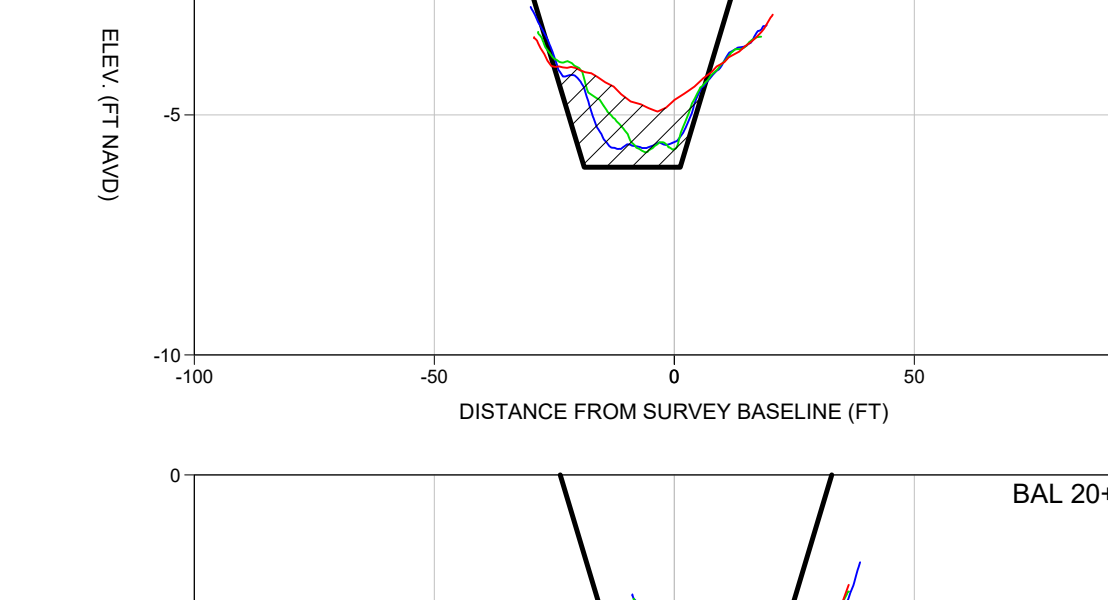
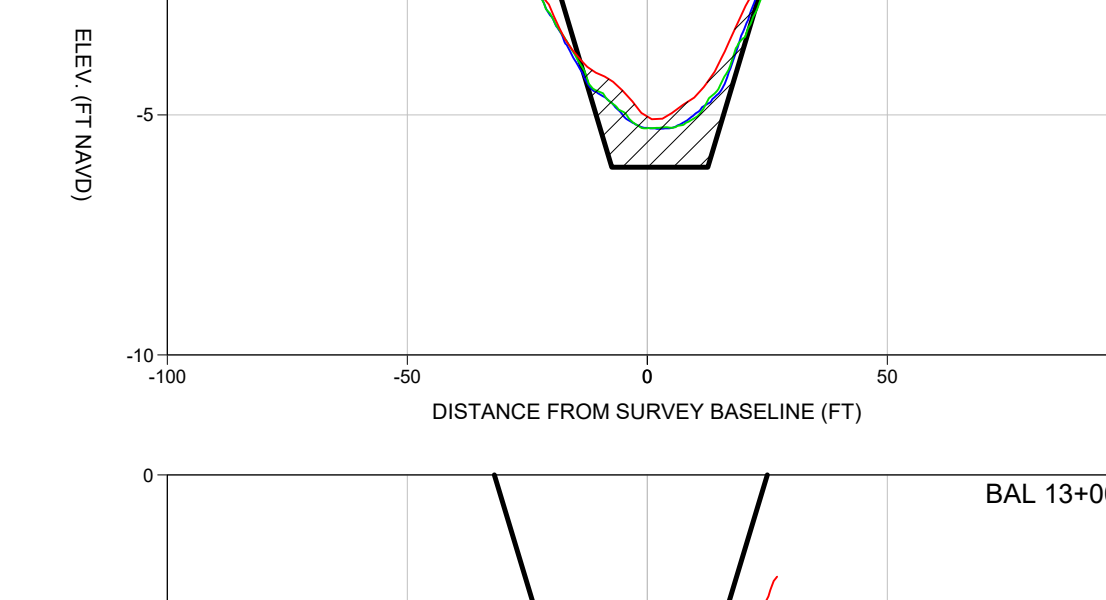
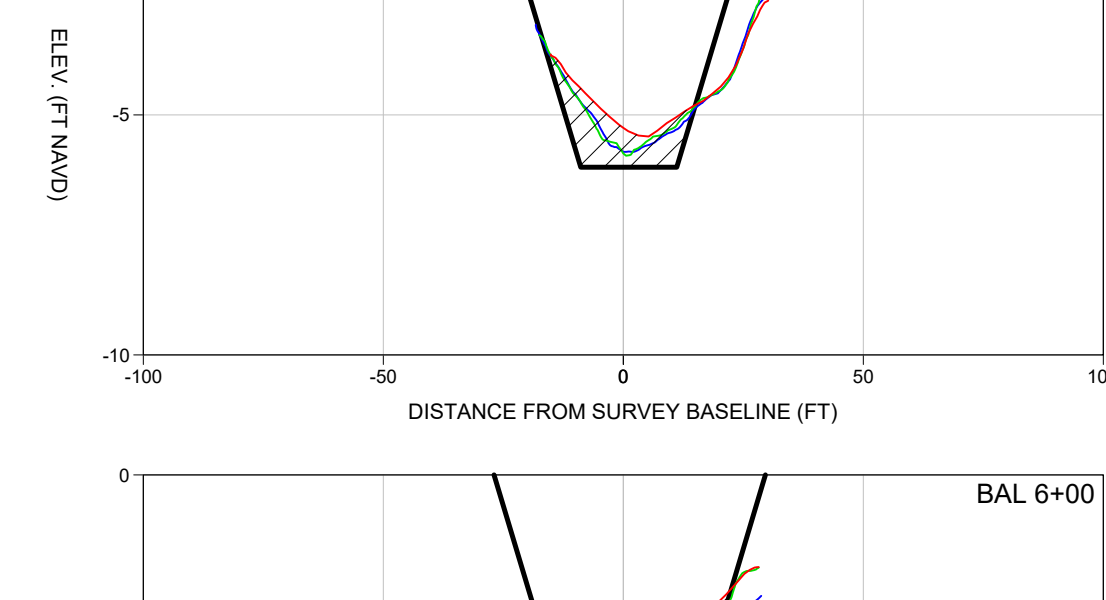
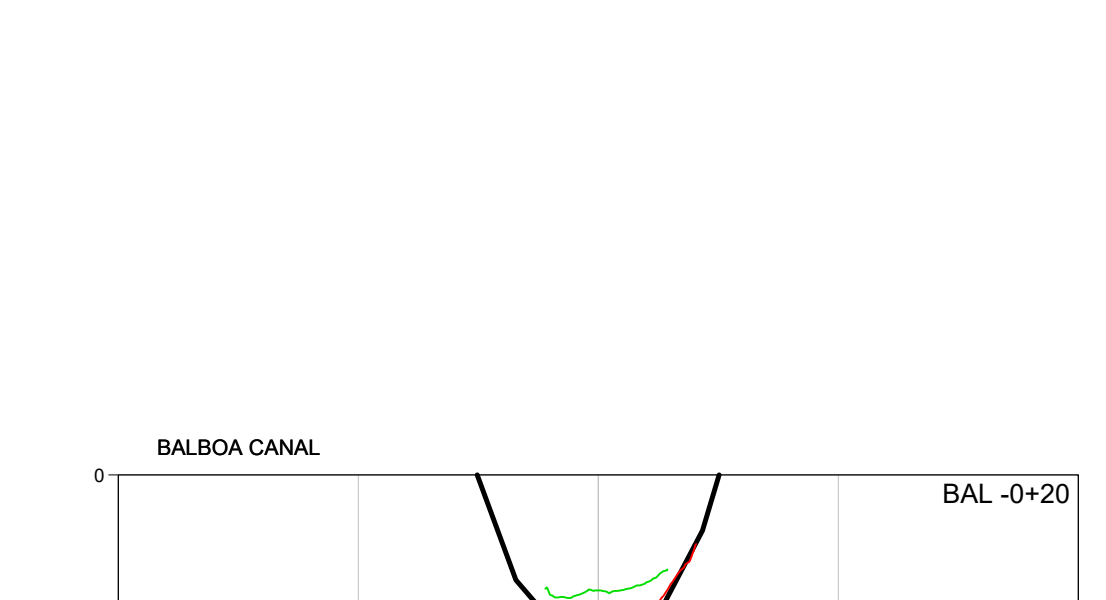
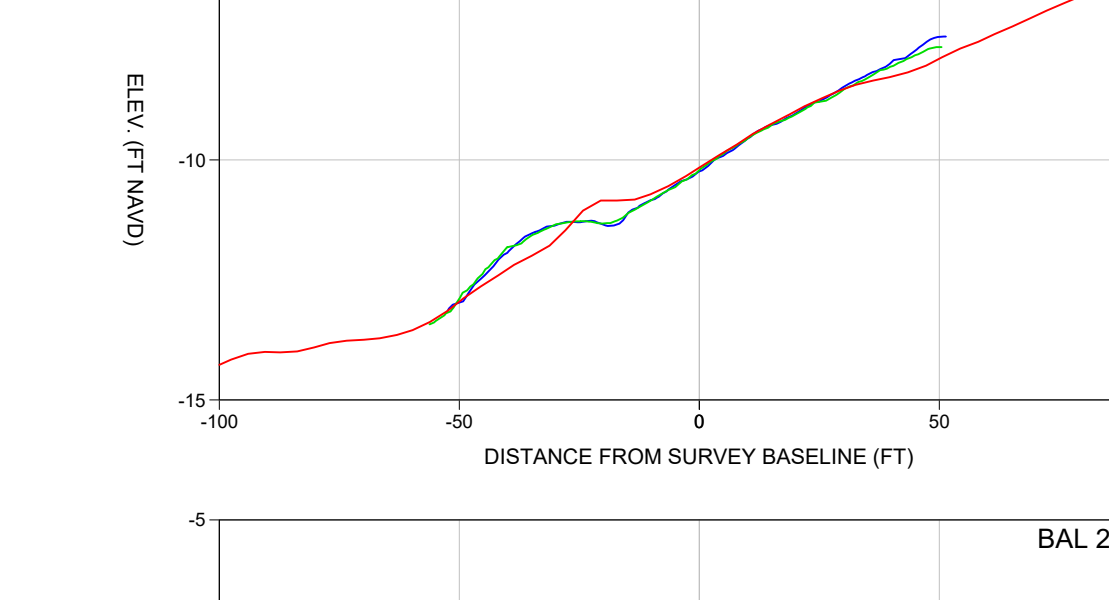
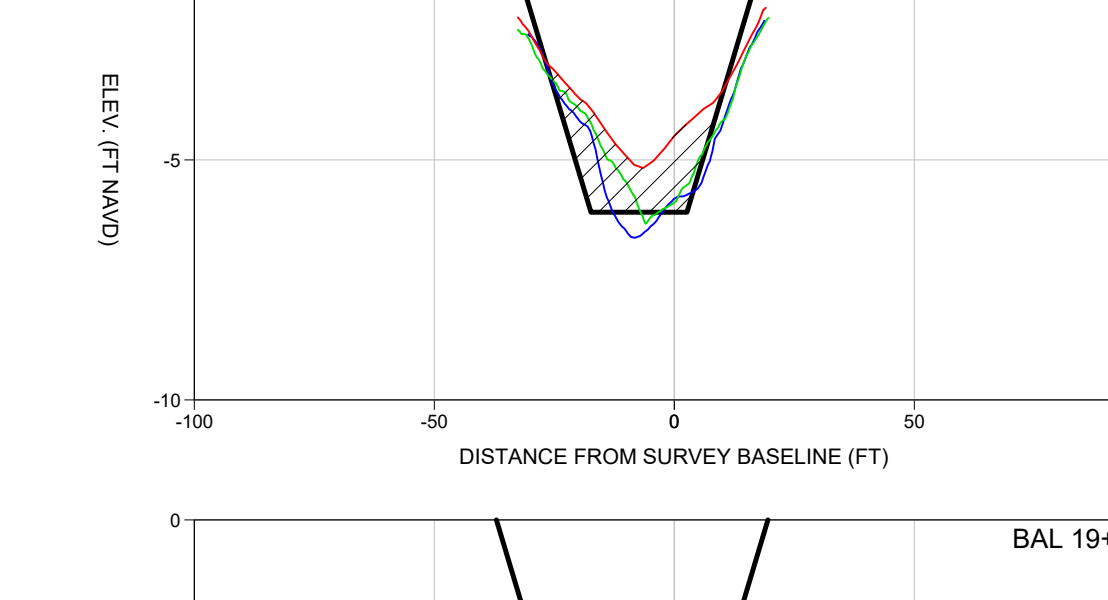
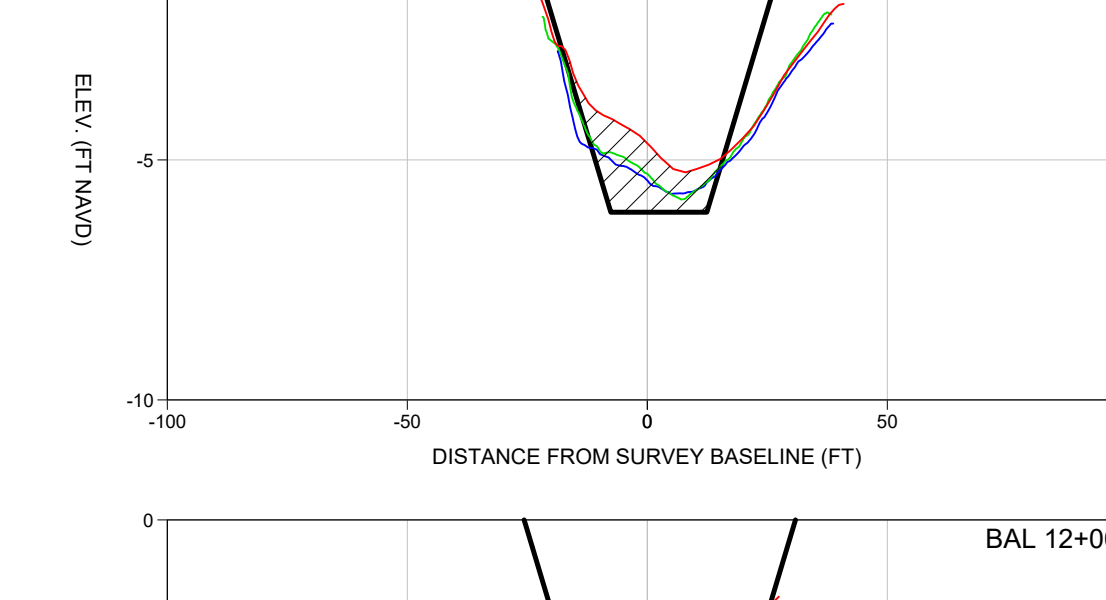
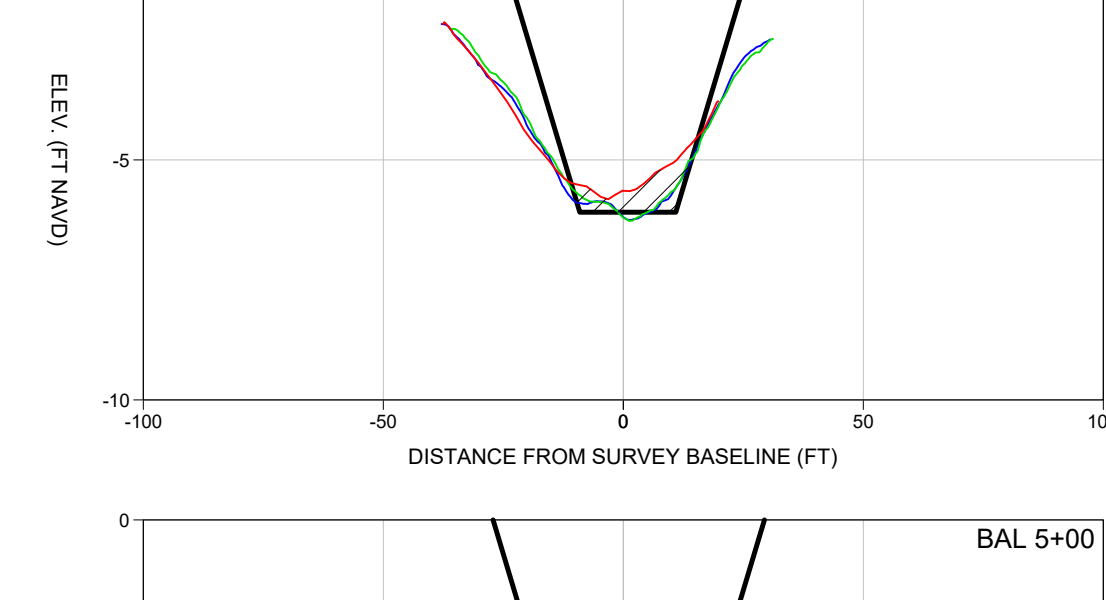
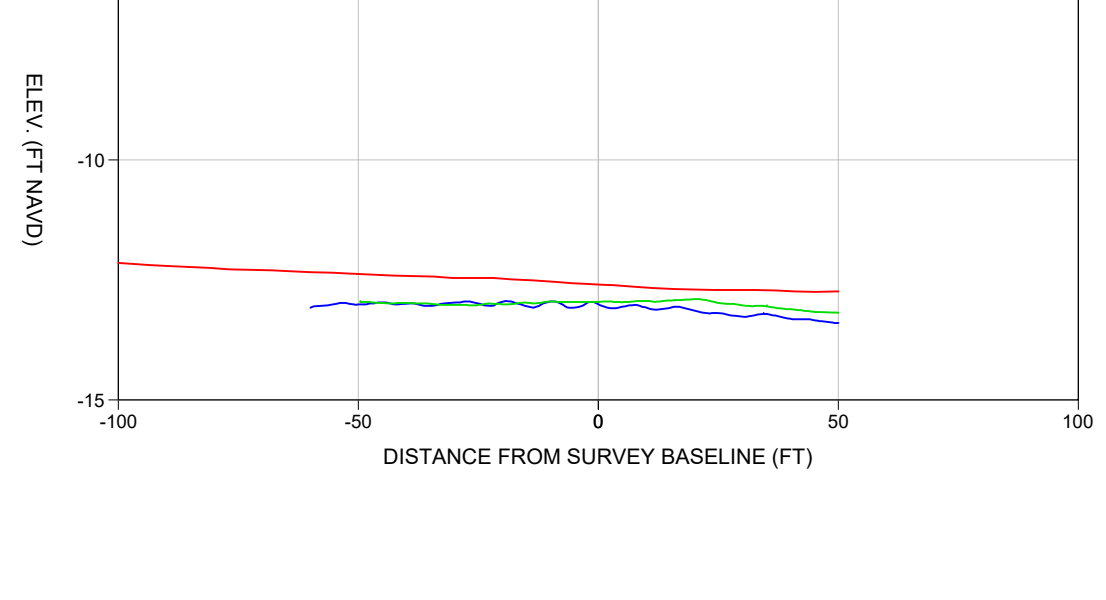
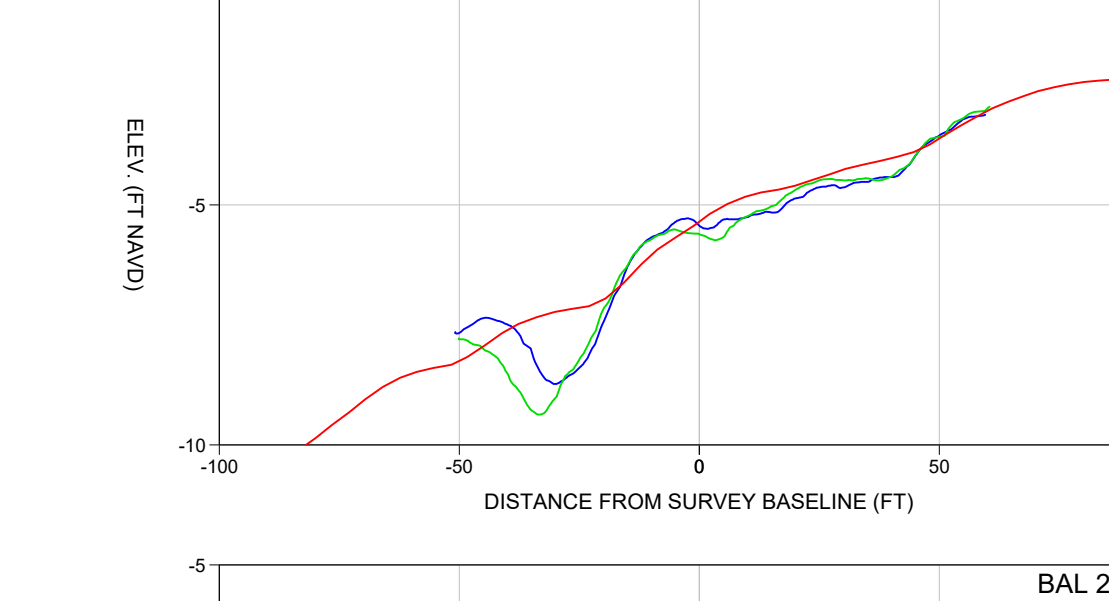
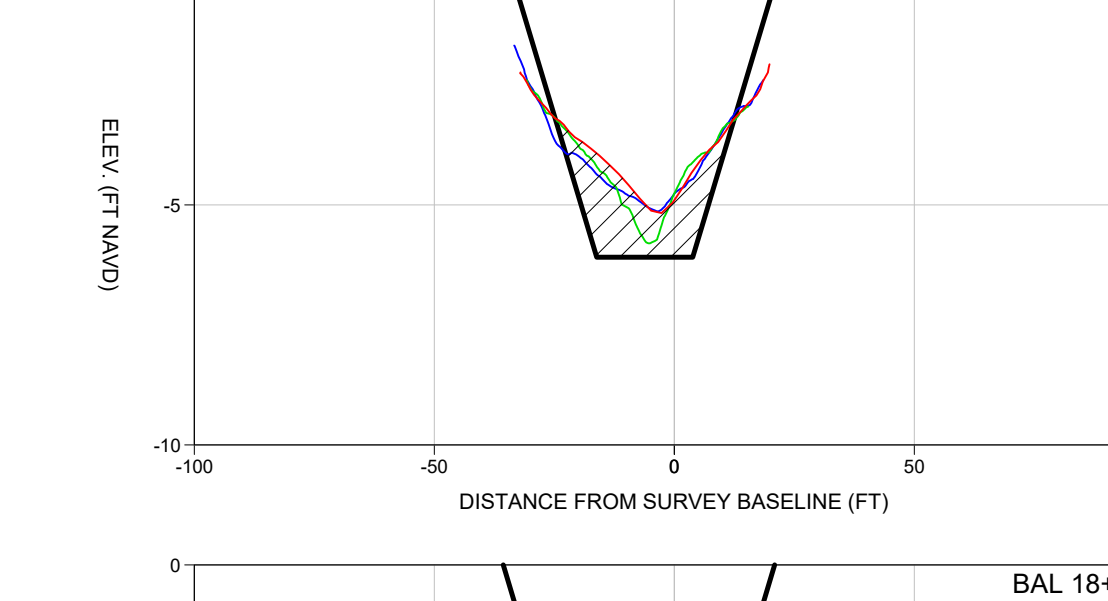
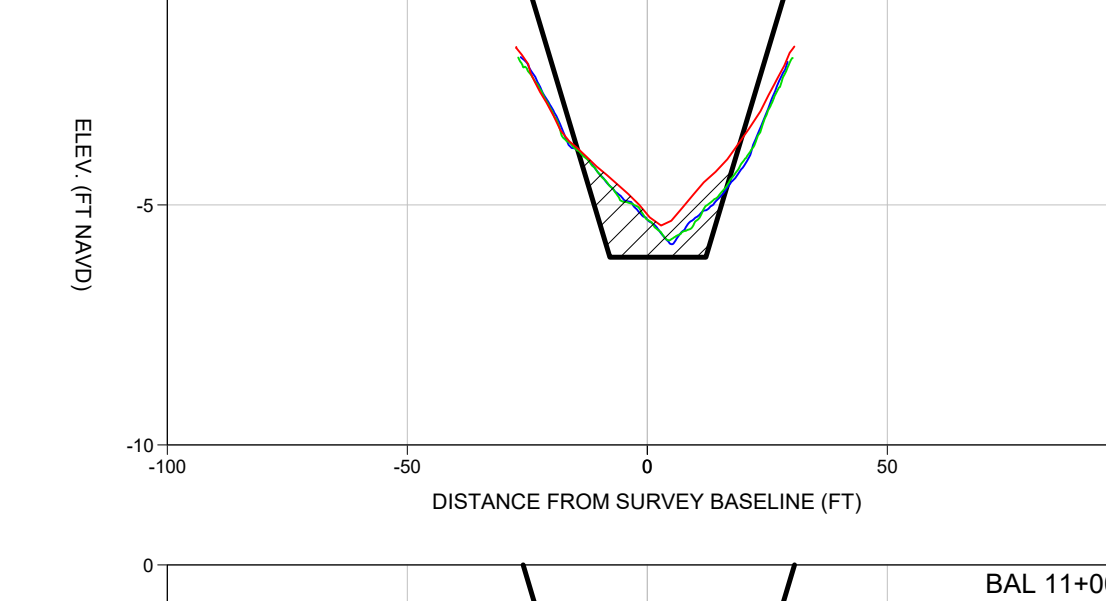
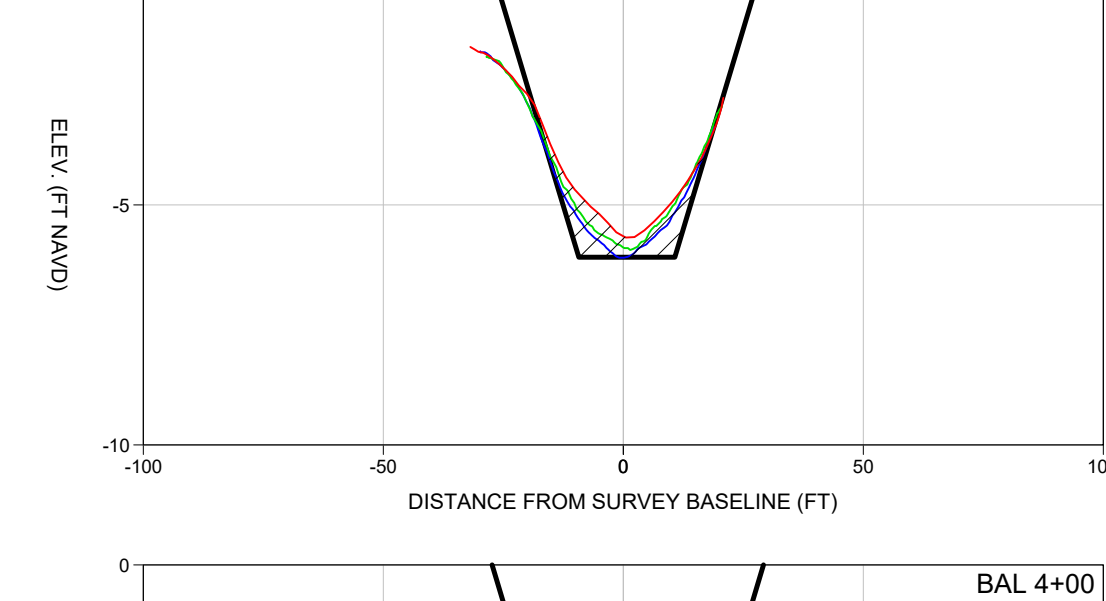
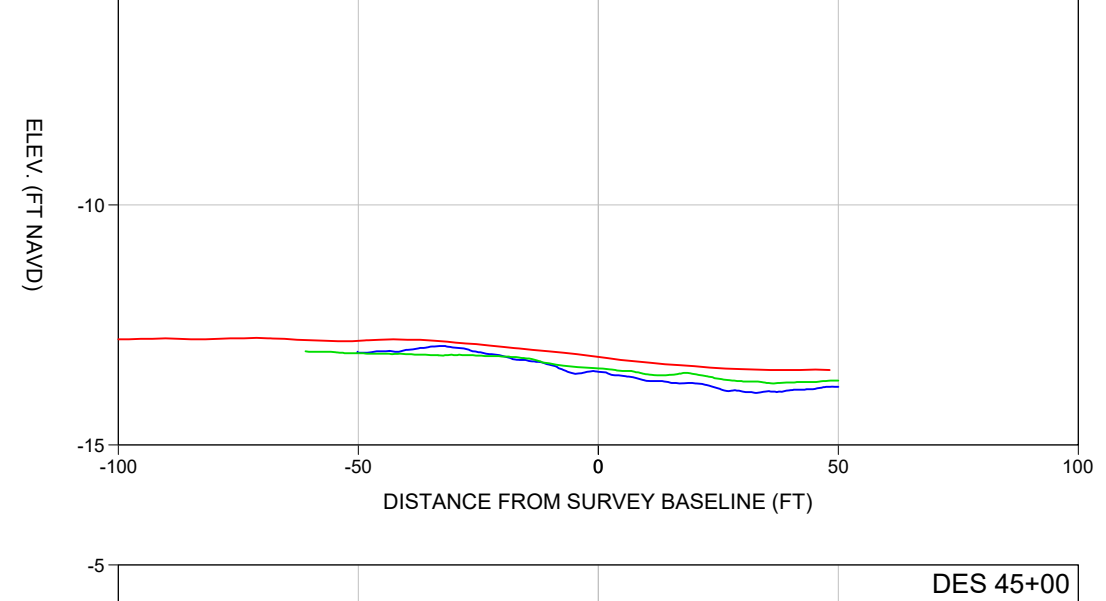
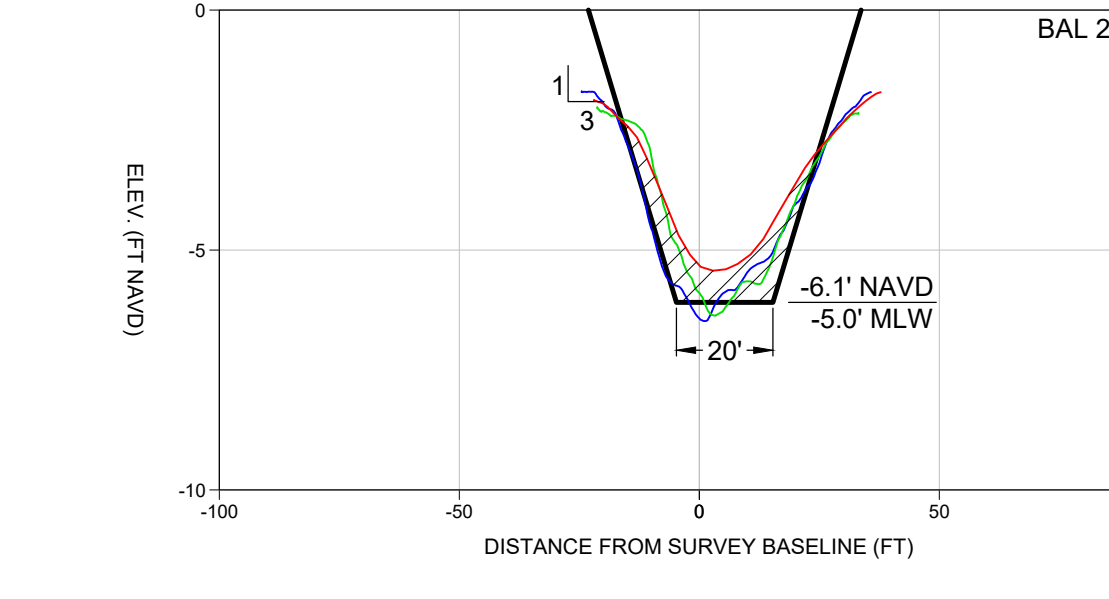
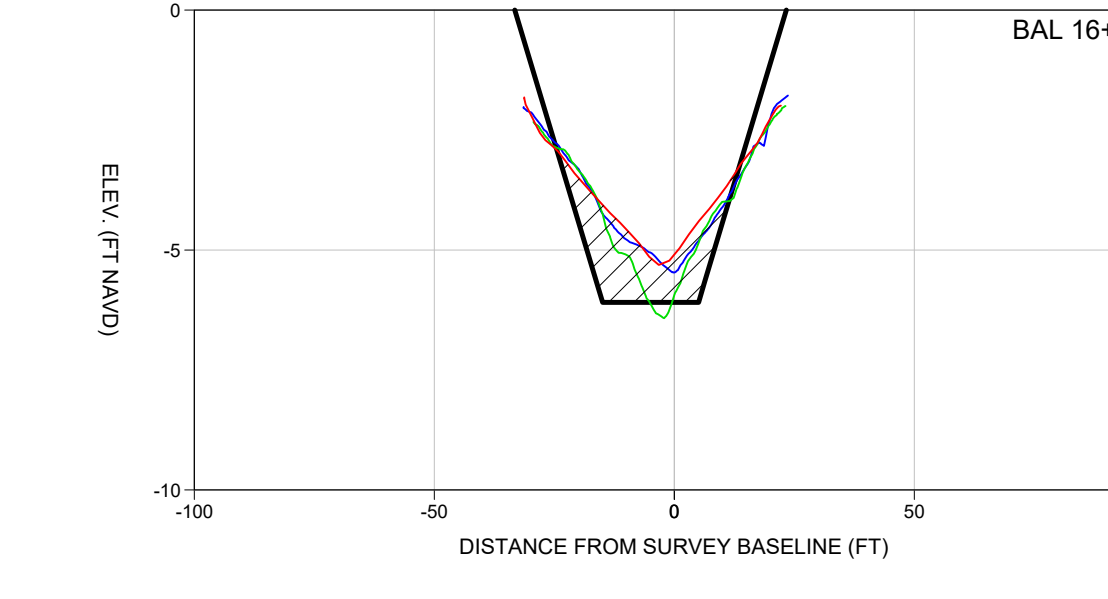
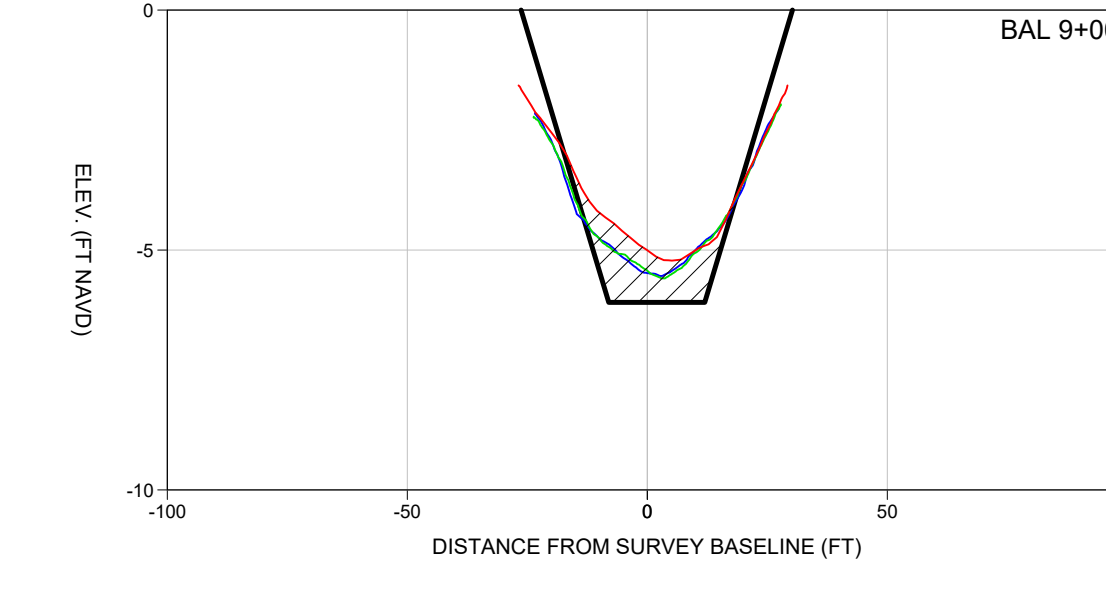
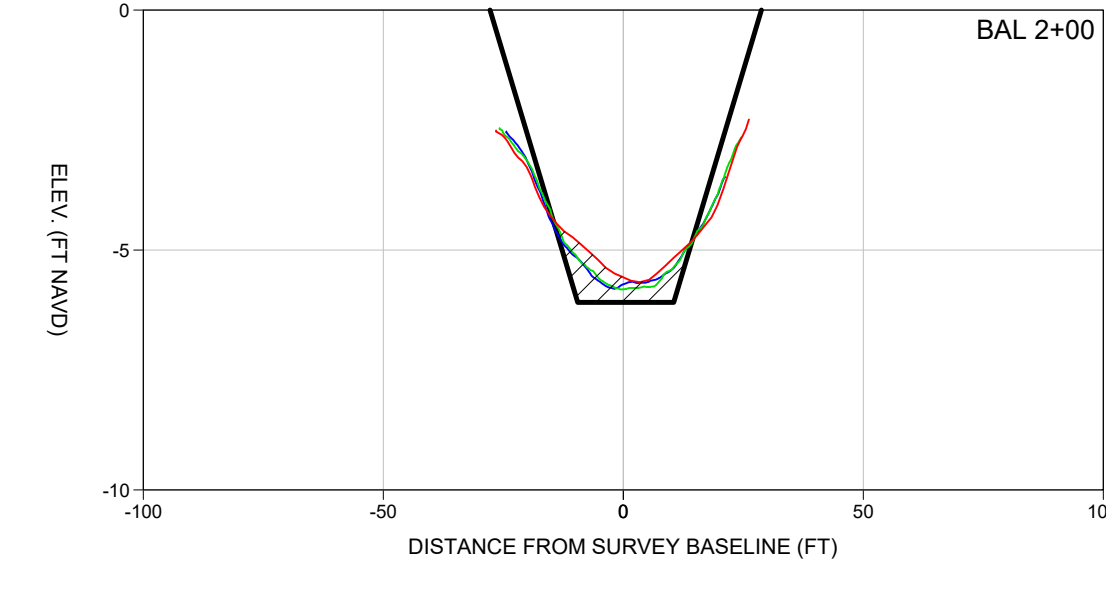
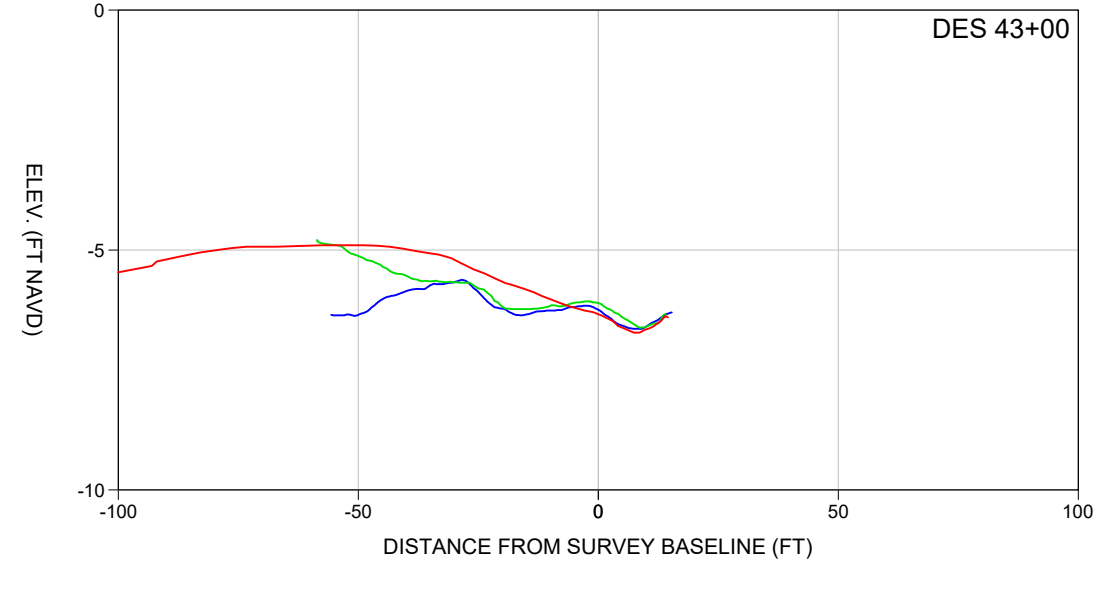
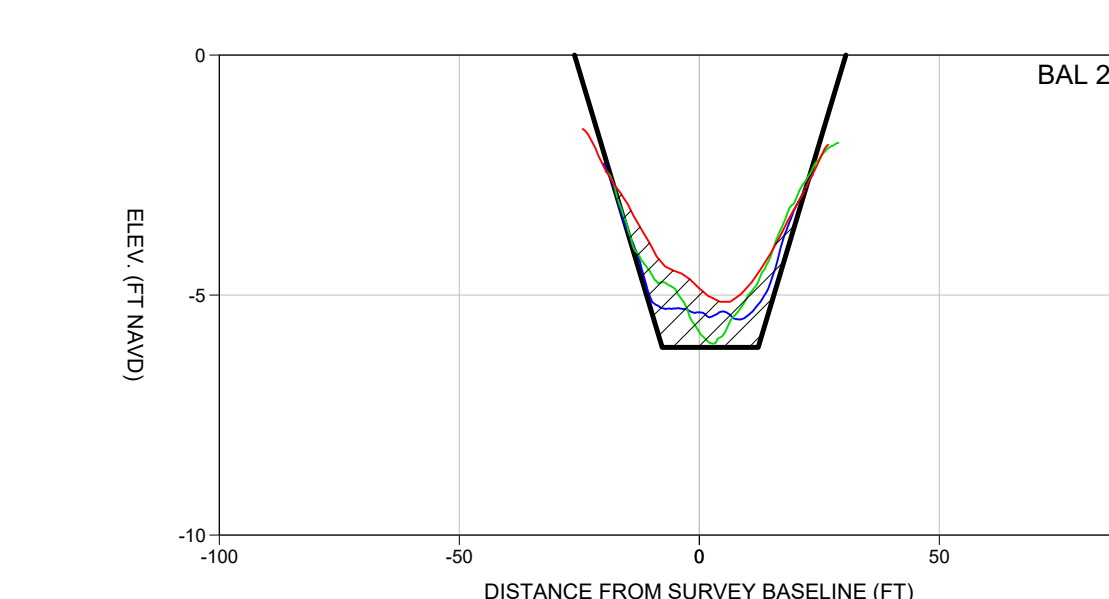
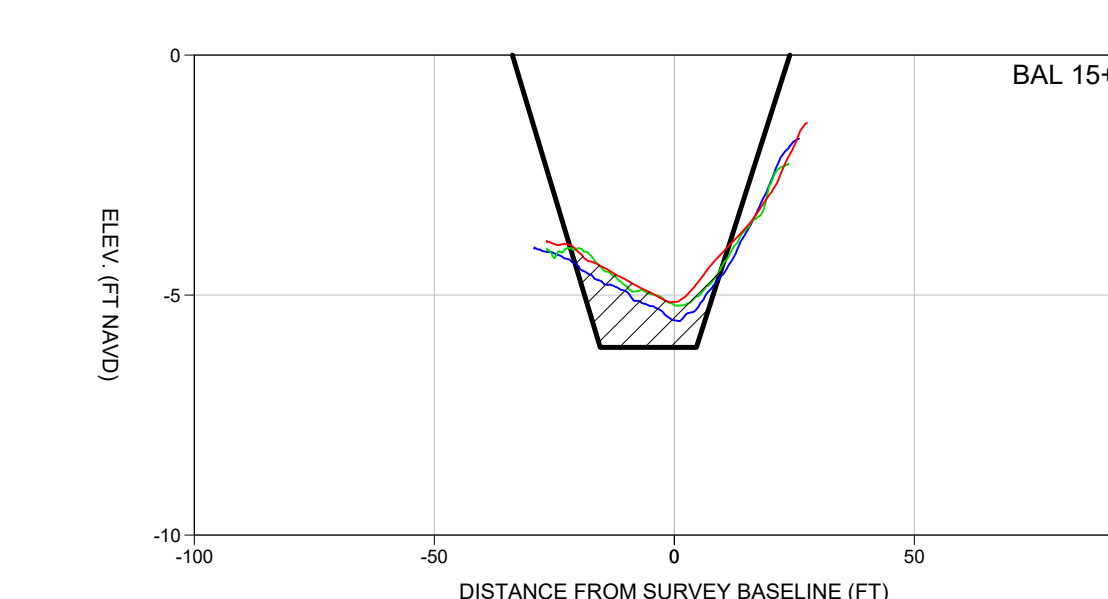
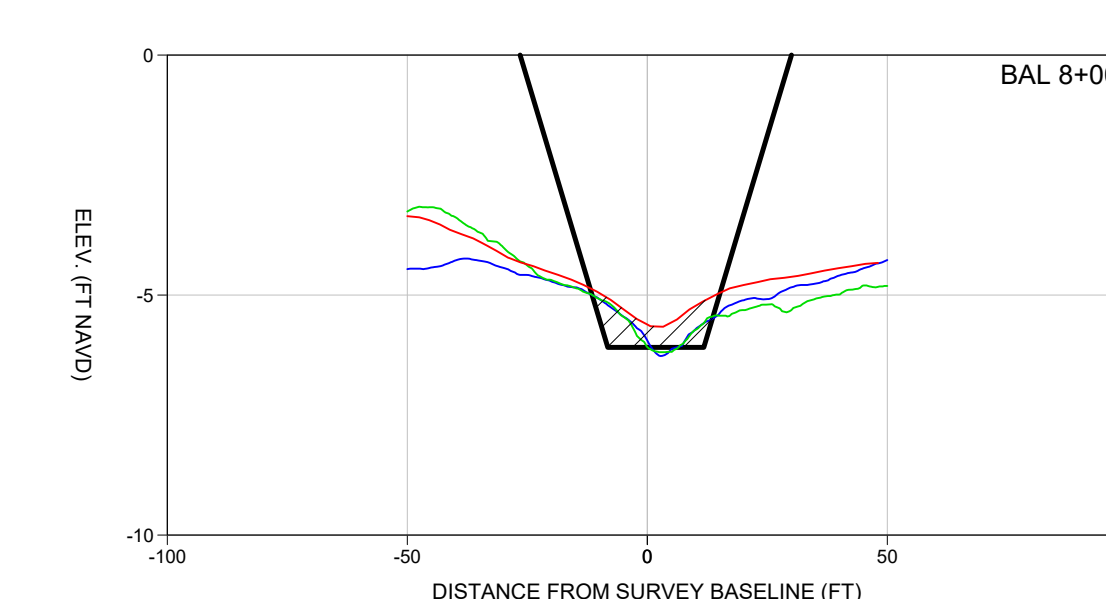
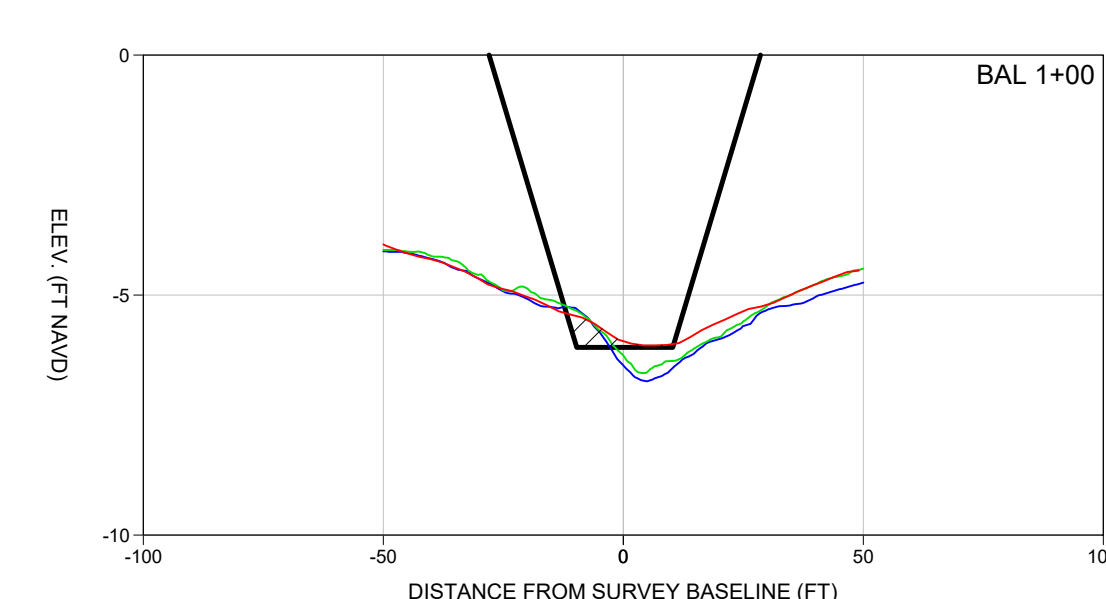
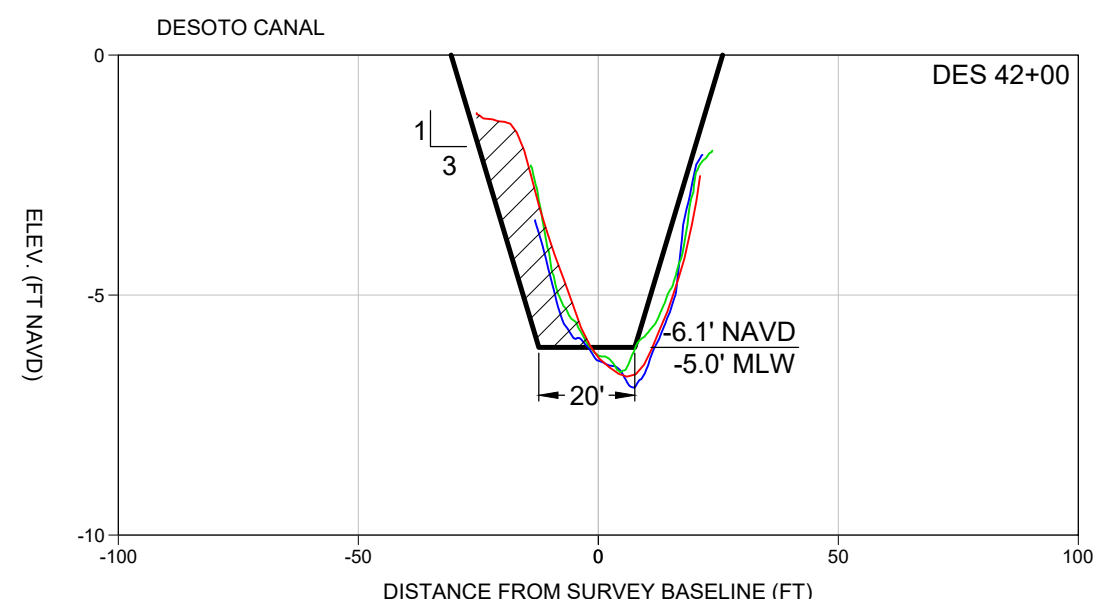
**COASTAL ENGINEERING CONSULTANTS INC.**  
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 PHONE: (239)643-2324  
 FAX: (239)643-1143  
 www.coastalengineering.com  
 E-Mail: info@cecinc.com

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS  
 DESOTO CANAL: 8+00 TO 41+00

**DATE:** 7/16/2023  
**SCALE:** AS NOTED  
**DRAWN:** VVA  
**CHECKED:** RJE  
**SEC.:** TWP.  
**ACAD NO.:** 23075-Harbour Heights.dwg  
**REF. NO.:** 23.075

NO.	DATE	BY	REVISION DESCRIPTION

SHEET 10  
 FILE NO.: 23075-HH-10



**LEGEND**  
 10/22/2019 SURVEY  
 12/10/2020 SURVEY  
 6/13/2023 SURVEY  
 DREDGE AREA

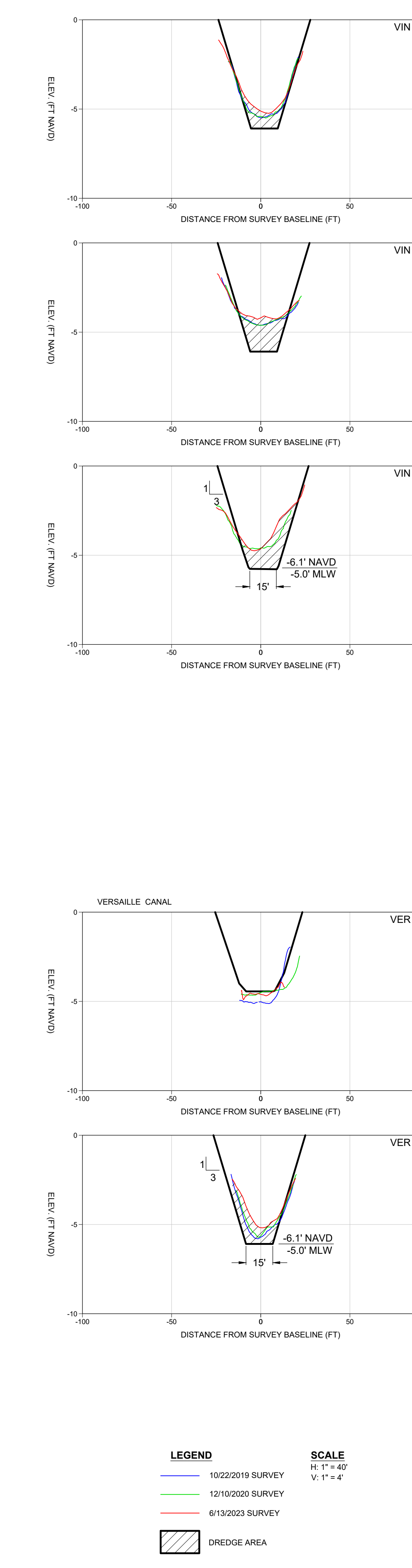
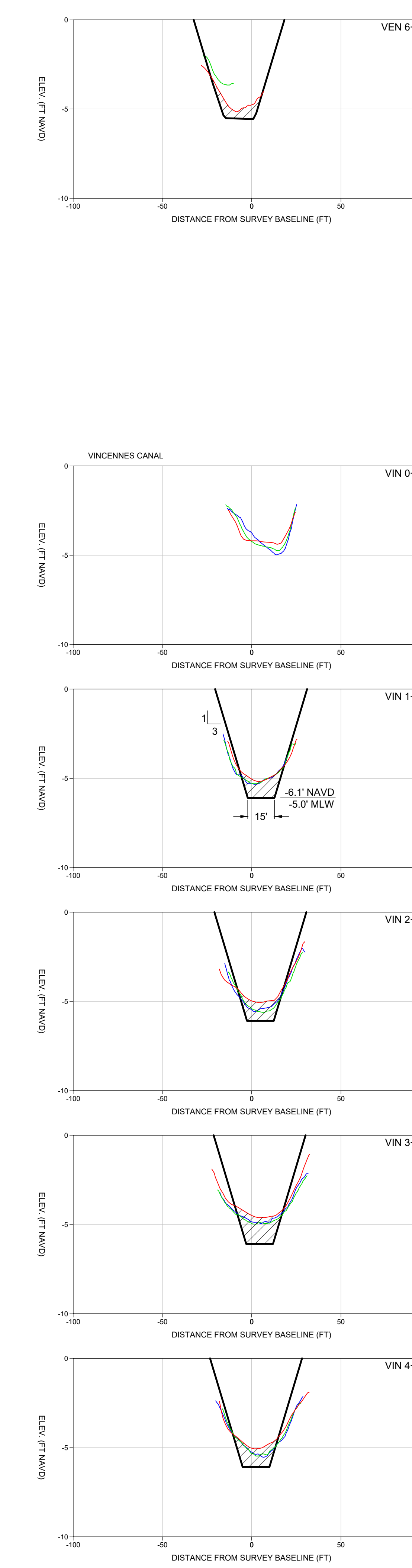
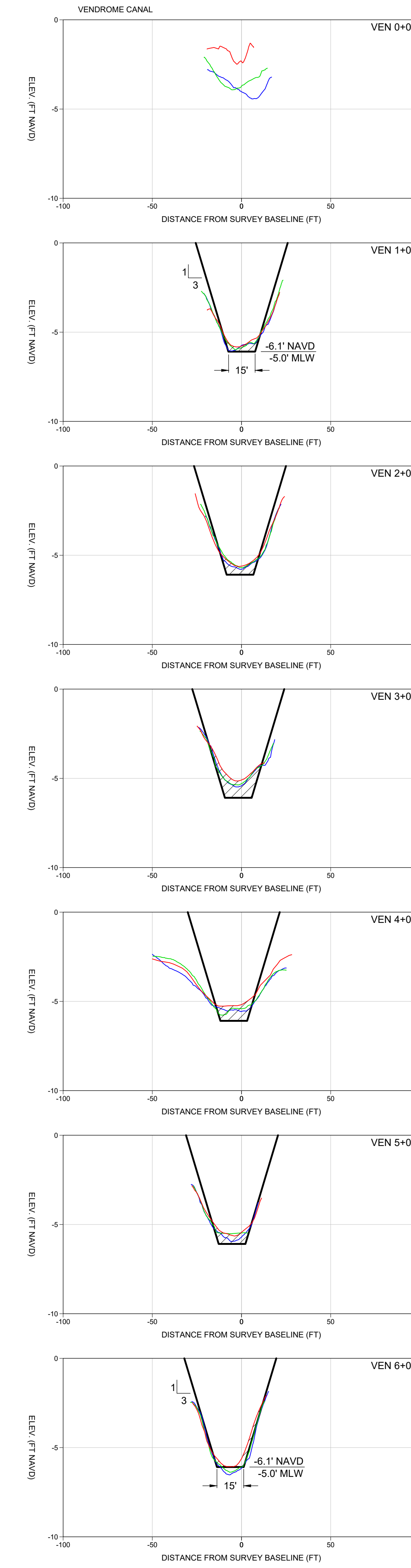
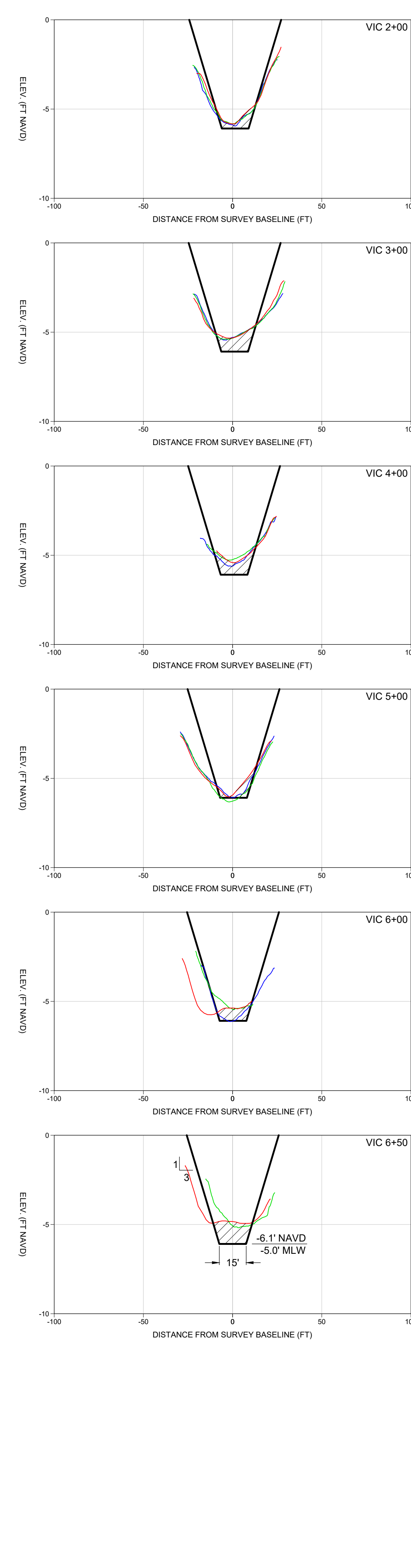
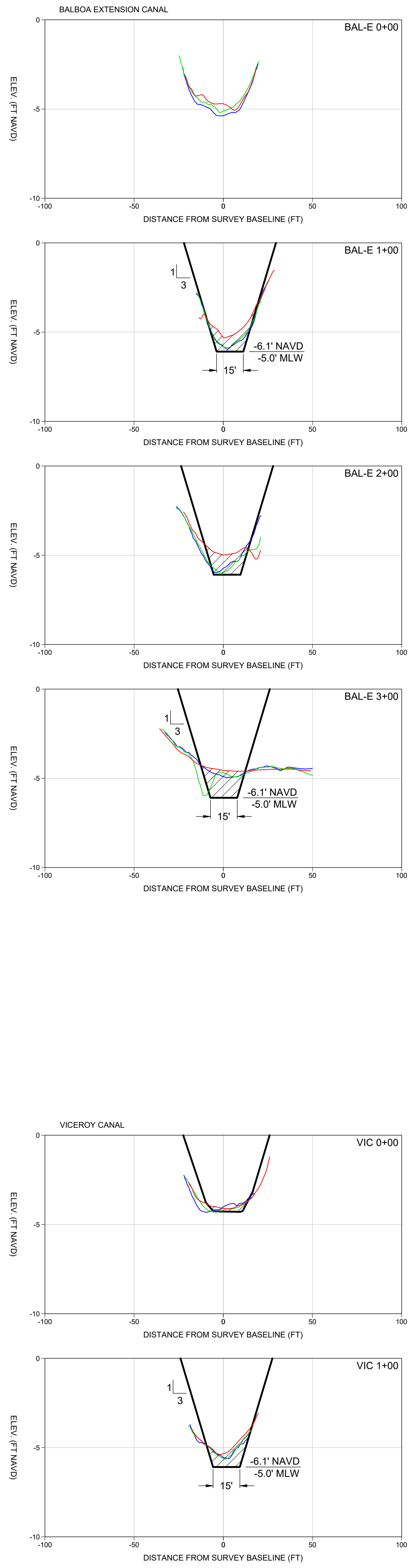
**SCALE**  
 H: 1" = 40'  
 V: 1" = 4'

**COASTAL ENGINEERING CONSULTANTS INC.**  
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 BONITA SPRINGS, FLORIDA 34104  
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 FAX: (239)643-1143  
 www.coastalengineering.com  
 E-Mail: info@cecinc.com

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS  
 DESOTO CANAL: 42+00 TO 45+00  
 BALBOA CANAL: -0+20 TO 26+00

**DATE:** 7/6/2023  
**SCALE:** AS NOTED  
**DRAWN:** VVA F.B.  
**CHECKED:** RJE J.G.  
**SEC:** TWP. RNG.  
**ACAD NO.:** 23075-Harbour Heights.dwg  
**REF. NO.:** 23 075 NO. DATE BY REVISION DESCRIPTION

SHEET 11  
 FILE NO.: 23075-HH-11



**LEGEND**

- 10/22/2019 SURVEY
- 12/10/2020 SURVEY
- 6/13/2023 SURVEY
- DREDGE AREA

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

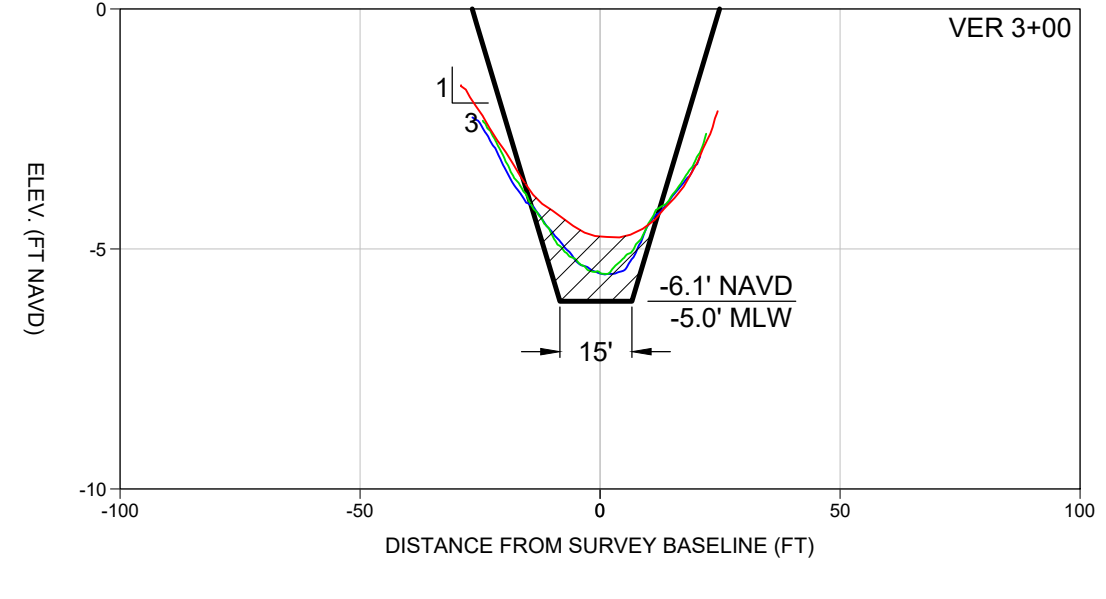
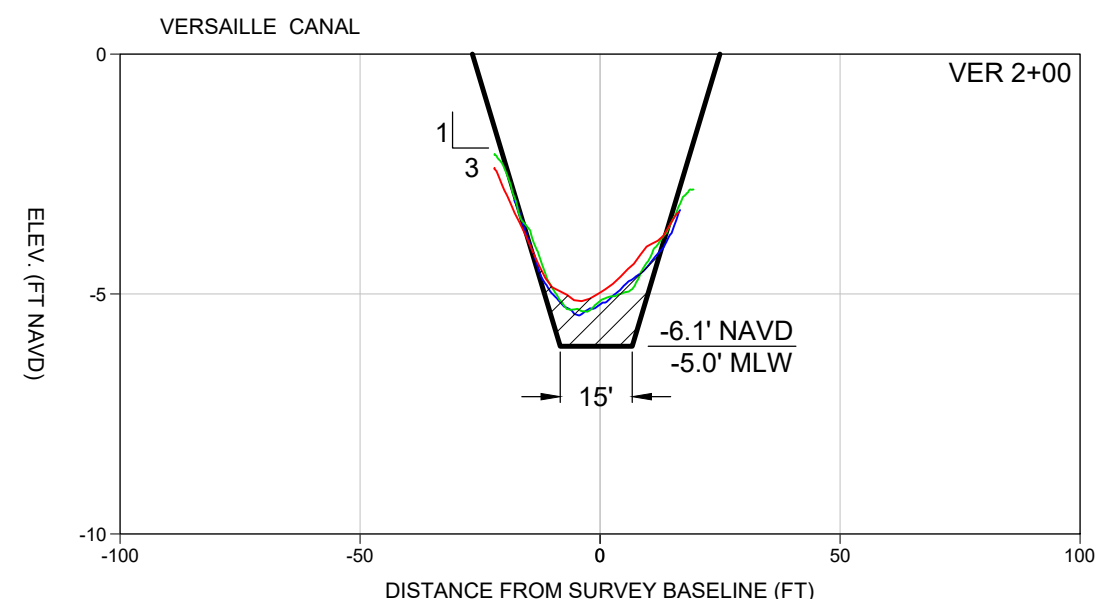
**COASTAL ENGINEERING CONSULTANTS INC.**  
 Serving Florida Since 1977  
 28421 BONITA CROSSINGS BLVD  
 BONITA SPRINGS, FLORIDA 34104

**CLIENT:** CHARLOTTE COUNTY  
**TITLE:** HARBOUR HEIGHTS CHANNELS CROSS SECTIONS  
**CLIENT:** BALBOA EXTENSION CANAL: 0+00 TO 3+00, VICEROY CANAL: 0+00 TO 6+50, VENDROME CANAL: 0+00 TO 6+70, VINCENNES CANAL: 0+00 TO 6+60, VERSAILLE CANAL: 0+00 TO 1+00

**DATE:** 7/6/2023  
**DRAWN:** VVA  
**CHECKED:** RJE  
**SEC. NO.:** TWP.  
**ACAD NO.:** 23075-Harbour Heights.dwg  
**REF. NO.:** 23 075

**SCALE:** AS NOTED  
**VVA F.B.:** RJE  
**RJE P.G.:** RJE  
**DATE:** BY  
**NO.:** 23 075  
**REVISION DESCRIPTION:**

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**LEGEND**

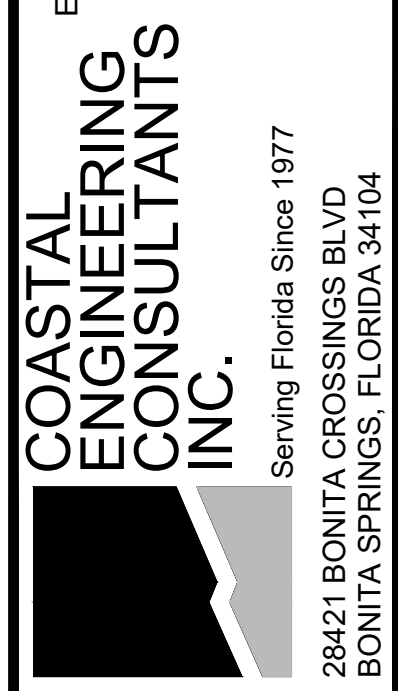
10/22/2019 SURVEY

12/10/2020 SURVEY

6/13/2023 SURVEY

DREDGE AREA

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



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CLIENT: CHARLOTTE COUNTY

TITLE: HARBOUR HEIGHTS CHANNELS  
CROSS SECTIONS  
VERSAILLE CANAL: 2+00 TO 3+00

DATE: 7/6/2023

SCALE: AS NOTED

DRAWN: VVA F.B.

CHECKED: RJE PG.

SEC: TWP. RNG.

ACAD NO. 23075-Harbour Heights.dwg

REF. NO. 23 075

NO.	DATE	BY	REVISION DESCRIPTION

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