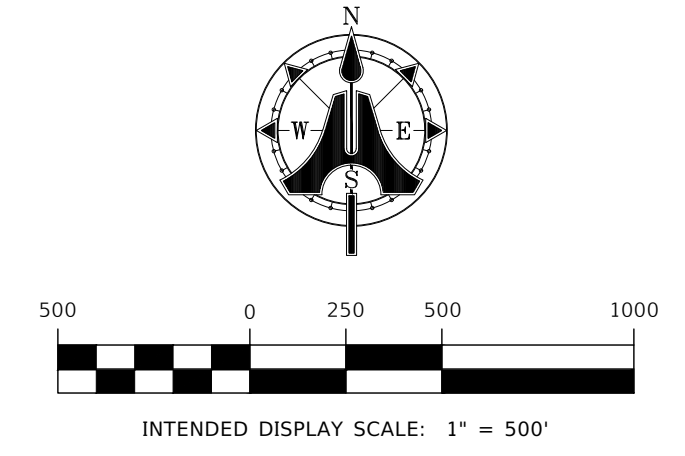


# HYDROGRAPHIC SURVEY

## BUENA VISTA WATERWAY

### CHARLOTTE COUNTY, FLORIDA



**NOTES:**

1. THE PURPOSE OF THIS HYDROGRAPHIC SURVEY IS TO: A.) DOCUMENT THE CURRENT DEPTHS OF A PORTION OF THE BUENA VISTA WATERWAY; B.) DETERMINE THE VOLUME OF MATERIAL IN THE SURVEYED CHANNELS THAT ARE ABOVE THE PERMITTED DREDGE DEPTH OF -6.2' NAVD 88 (-5.0' MLW), WITHIN THE PROJECT LIMITS. THE ELEVATIONS AND QUANTITIES REPORTED HEREIN ARE NOT INTENDED TO BE USED FOR DESIGN OR CONSTRUCTION PAYMENT ESTIMATING.
2. CHANNEL BOTTOM WIDTHS, SURVEY BASELINE ALIGNMENT, AND STATIONING ARE DEPICTED HEREON PER "BUENA VISTA BATHYMETRIC SURVEY" BY COASTAL ENGINEERING CONSULTANTS INC. SIGNED SEPTEMBER 6, 2023 AS PROVIDED BY CHARLOTTE COUNTY.
3. THE DREDGING TEMPLATE BOTTOM DEPTH AND SLOPES WERE PROVIDED BY CHARLOTTE COUNTY.
4. COORDINATES, CONTOURS, STATIONING, ELEVATIONS AND DISTANCES SHOWN ARE IN U.S. SURVEY FEET OR DECIMALS THEREOF.
5. BEARINGS ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (NAD 1983).
6. ALL CONTOURS AND ELEVATIONS SHOWN HEREON ARE RELATIVE TO NAVD 88 BASED ON DIRECT TIES TO NGS TIDAL BENCH MARK "872 5769 A" (PID AG7765). THE CONVERSION BETWEEN MLW AND NAVD 88 (MLW = -1.2 NAVD 88) IS BASED ON THE TIDAL DATUM REPORT FOR TIDE STATION 872 5769 BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
7. BACKGROUND AERIAL IMAGERY FROM CHARLOTTE COUNTY WAS ACQUIRED IN 2023. AERIAL PROVIDED FOR INFORMATIONAL PURPOSES ONLY. POSITIONAL ACCURACY OF SAID IMAGERY WAS NOT FIELD VERIFIED.
8. HYDROGRAPHIC BOTTOM ELEVATIONS WERE COLLECTED USING A HYDROLITE-TM ACOUSTIC ECHO SOUNDER WITH A 200 KILOHERTZ, SINGLE FREQUENCY TRANSDUCER. THE HORIZONTAL POSITION AND NAVD 88 ELEVATIONS OF BOTTOM DEPTHS WERE OBTAINED BY REAL-TIME KINEMATIC (RTK) GPS OBSERVATIONS SYNCHRONIZED TO THE TRANSDUCER BY A DATA COLLECTOR OPERATING BOTH SYSTEMS.
9. THE EXPECTED HORIZONTAL ACCURACY OF SONAR DERIVED BOTTOM ELEVATIONS IS +/- 1'. THIS INCLUDES ERRORS ASSOCIATED WITH WAVE ACTION AND THE SUBSEQUENT ROLLING, PITCHING AND HEAVING OF THE SURVEY VESSEL; AS WELL AS LAG TIME BETWEEN THE GPS POSITION MEASUREMENT AND THE ACOUSTIC SOUNDING SIGNAL FROM THE CANAL BOTTOM.
10. THE EXPECTED VERTICAL ACCURACY OF SONAR DERIVED BOTTOM ELEVATIONS IS 0.3' +/- . THIS WAS TESTED BY COMPARING OVERLAPPING HYDROGRAPHIC DATA COLLECTED ON DIFFERENT DAYS / SURVEY LINES, AS WELL AS DIRECT RTK GPS OBSERVATIONS OF THE CANAL BOTTOM. THE EXPECTED ACCURACY SHOULD BE TAKEN INTO ACCOUNT WHEN EVALUATING VOLUMES REPORTED HEREIN.
11. FIELD WORK PERFORMED ON MAY 7TH THROUGH MAY 13TH, 2025 AS RECORDED IN FIELD BOOK 1886, PAGES 54-57.
12. VOLUMES WERE CALCULATED IN AUTOCAD CIVIL 3D, UTILIZING THE COMPOSITE METHOD TO COMPARE THE DREDGE TEMPLATE AND A DIGITAL TERRAIN MODEL CREATED FROM BOTTOM ELEVATION DATA COLLECTED IN THE METHODS DESCRIBED ABOVE. SAID VOLUMES HAVE AN EXPECTED ACCURACY OF +/- 10%.

**SHEET INDEX:**

1. NOTES, LEGEND, VICINITY MAP
2. CHANNEL DETAILS B.O.S. STA. 00+00 TO STA. 19+50 CREEK DRIVE BASELINE
3. CHANNEL DETAILS STA. 19+50 TO E.O.S. STA. 21+00 CREEK DRIVE BASELINE & B.O.S. STA. -3+00 TO STA. 20+50 ELKHAM BASELINE
4. CHANNEL DETAILS STA. 20+50 TO E.O.S. STA. 29+50 ELKHAM BASELINE & B.O.S. STA. 200+00 TO E.O.S. STA. 209+00 GEORGE ROAD BASELINE & STA. 02+50 TO 06+00 BEENEY BASELINE & B.O.S. STA. 400+00 TO STA. 402+00 LATERAL CHANNEL BASELINE
5. CHANNEL DETAILS B.O.S. STA. 00+00 TO E.O.S. STA. 12+50 BEENEY BASELINE & STA. 207+50 TO E.O.S. STA. 209+00 GEORGE ROAD BASELINE & B.O.S. STA. 400+00 TO STA. 402+00 LATERAL CHANNEL BASELINE
6. CHANNEL DETAILS B.O.S. STA. 400+00 TO STA. 423+00 LATERAL CHANNEL BASELINE & STA. 01+00 TO STA. 04+50 BEENEY BASELINE & STA. 00+00 TO STA. 03+00 GARDNER BASELINE
7. CHANNEL DETAILS STA. 423+00 TO E.O.S. STA. 429+50 LATERAL CHANNEL BASELINE & B.O.S. STA. -01+00 TO STA. 10+00 GARDNER BASELINE & STA. 419+00 TO STA. 423+00 LATERAL CHANNEL
8. CHANNEL DETAILS STA. 10+00 TO E.O.S. STA. 18+50 GARDNER BASELINE
9. CHANNEL SECTIONS STA. 00+55 TO STA. 10+50 CREEK DRIVE BASELINE
10. CHANNEL SECTIONS STA. 11+00 TO STA. 20+50 CREEK DRIVE BASELINE & B.O.S. STA. -03+00 TO STA. 07+00 ELKHAM BASELINE
11. CHANNEL SECTIONS STA. 07+50 TO STA. 28+00 ELKHAM BASELINE
12. CHANNEL SECTIONS STA. 28+50 TO STA. 29+37 ELKHAM BASELINE & STA. 200+20 TO STA. 208+50 GEORGE ROAD BASELINE & B.O.S. STA. 00+00 TO STA. 08+50 BEENEY BASELINE
13. CHANNEL SECTIONS STA. 09+00 TO STA. 12+04 BEENEY BASELINE & STA. 400+53 TO STA. 417+00 LATERAL CHANNEL
14. CHANNEL SECTIONS STA. 417+50 TO STA. 429+18 LATERAL CHANNEL & STA. -00+11 TO STA. 07+00 GARDNER BASELINE
15. CHANNEL SECTIONS STA. 07+50 TO STA. 18+27 GARDNER BASELINE
16. VOLUME TABLES CREEK DRIVE WATERWAY, ELKHAM WATERWAY, GEORGE ROAD WATERWAY, BEENEY WATERWAY
17. VOLUME TABLES LATERAL CHANNEL WATERWAY, GARDNER WATERWAY

**LEGEND:**

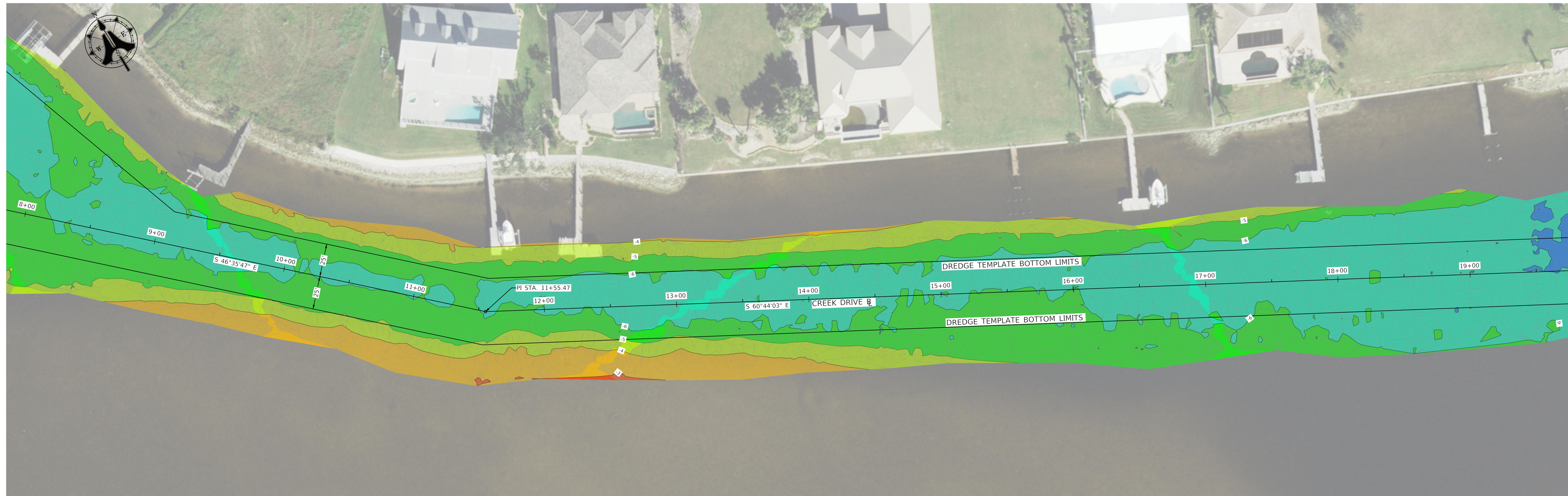
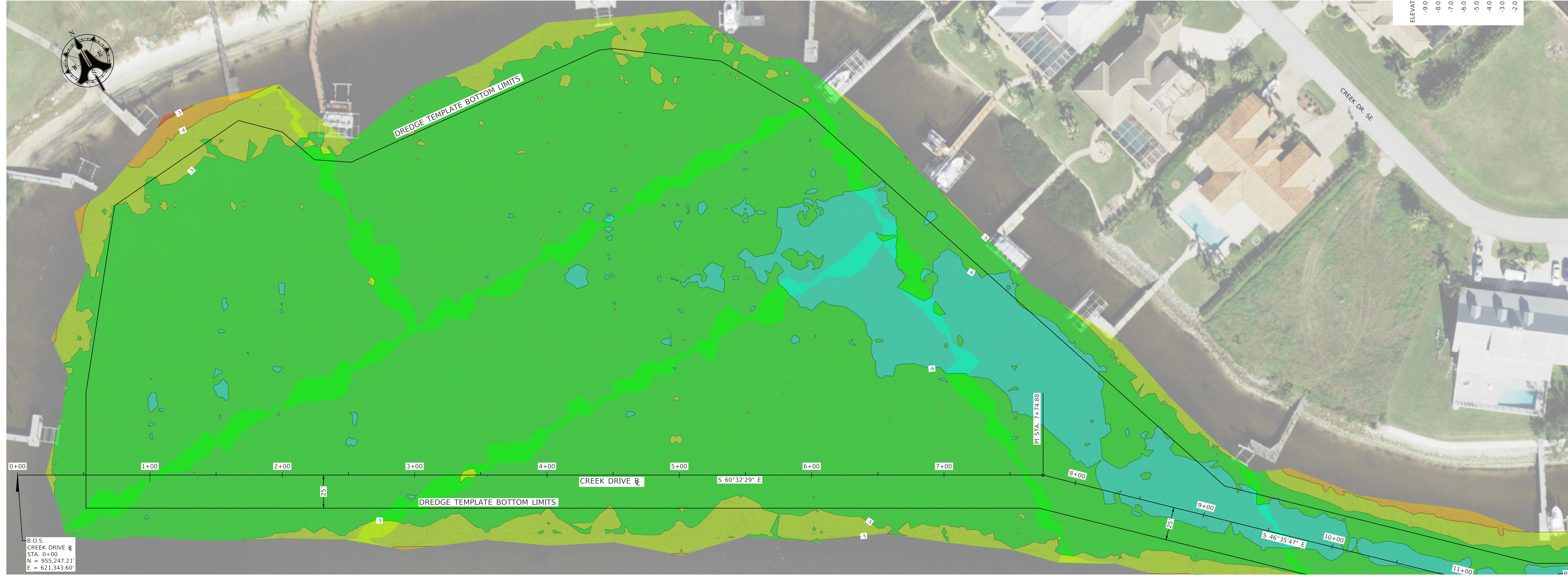
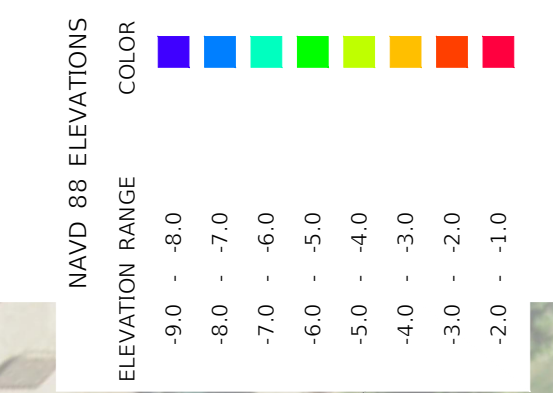
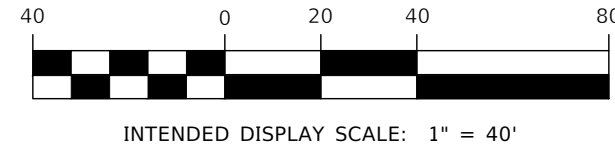
- = BASELINE
- = BEGINNING OF SURVEY
- = CUBIC YARDS
- = EASTING COORDINATE
- = ELEVATION
- = END OF SURVEY
- = FOUND PARKER-KALON NAIL & DISK
- = FEET
- = GLOBAL POSITIONING SYSTEM
- = INCORPORATED
- = LICENSED BUSINESS
- = LEFT
- = MEAN LOW WATER
- = NORTHING COORDINATE
- = NORTH AMERICAN DATUM OF 1983
- = NORTH AMERICAN VERTICAL DATUM OF 1988
- = NATIONAL GEODETIC SURVEY
- = NUMBER
- = POINT OF INTERSECTION
- = RIGHT
- = REAL-TIME KINEMATIC
- = SURVEY BASELINE STATION
- = MORE OR LESS
- = VOLUME
- = CHANNEL MARKERS



		<b>AIM Engineering &amp; Surveying, Inc.</b> CIVIL • SANITARY • TRANSPORTATION • DEVELOPMENT • PROJECT MANAGEMENT 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com		CLIENT: CHARLOTTE COUNTY	
PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		PREPARED BY: AIM ENGINEERING & SURVEYING, INC. SEE BELOW		DATE: 06-19-2025	
ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWINGS(S) MUST BE APPROVED BY THE PROJECT MANAGER, AIM ENGINEERING & SURVEYING, INC. IS PROHIBITED.		FIELD BOOK: 1886		DATE: 06-17-2025	
PROJECT NO.: 25-2079		SHEET NO.: 1		DATE: 06-19-2025	
COUNTY: CHARLOTTE		TOWNSHIP: 5		DT	
SHEET: 1		RANGE: E		DT	
OF 17		SHEET: 1		DT	

# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



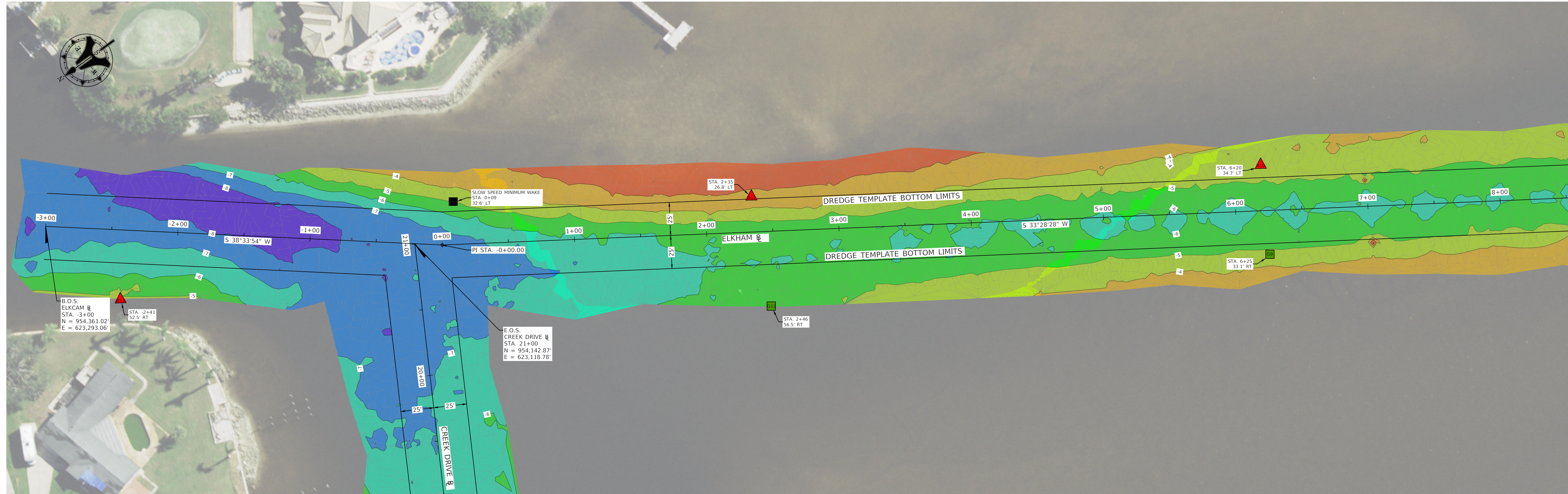
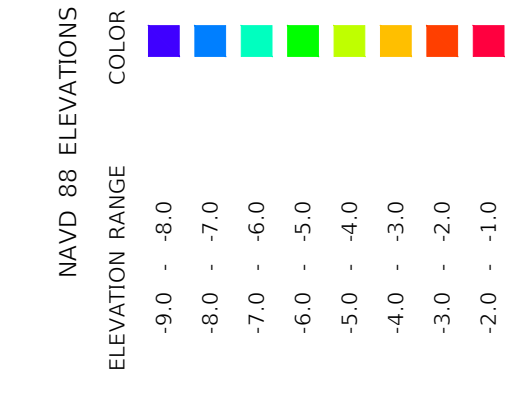
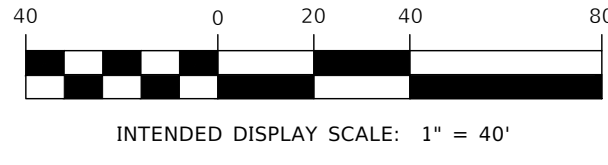
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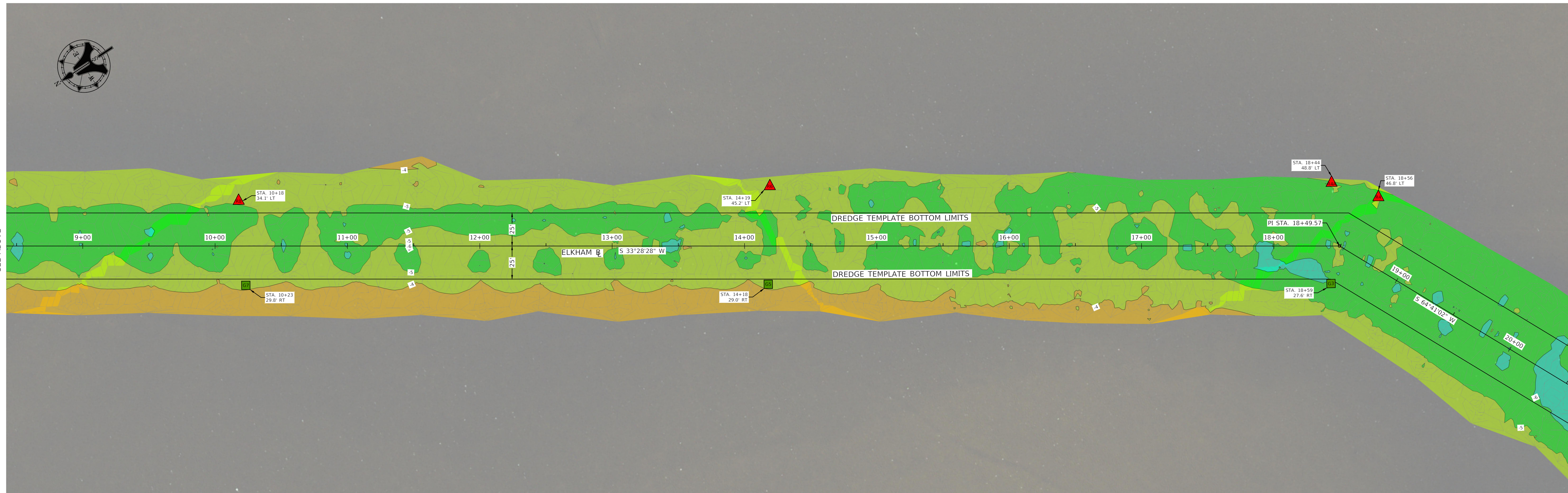
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CLIENT: CHARLOTTE COUNTY						
DRAWN: RH DATE: 06-17-2025						
CHECKED: DT DATE: 06-19-2025						
CERTIFICATE OF AUTHORIZATION No. 3114						
CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com						
AIM Engineering & Surveying, Inc.						
PROJECT NAME: WOF# 345 BUENA VISTA EXTERIOR						
PREPARED BY: AIM ENGINEERING & SURVEYING, INC.						
SEE SHEET 1 DARREN TOWNSEND PROFESSIONAL MAPPER FLORIDA CERTIFICATE NO. 6476						
ANY REVISIONS, ALTERATIONS, AND OR CHANGES TO DRAWINGS(S) MUST BE MADE TO THE ORIGINAL DRAWING(S) AND THE ORIGINAL DRAWING(S) MUST BE FILED IN THE FIELD BOOK. INC. IS PROHIBITED.						
FIELD BOOK: 1886 PAGE: 54-57						
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# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



SEE SHEET 2



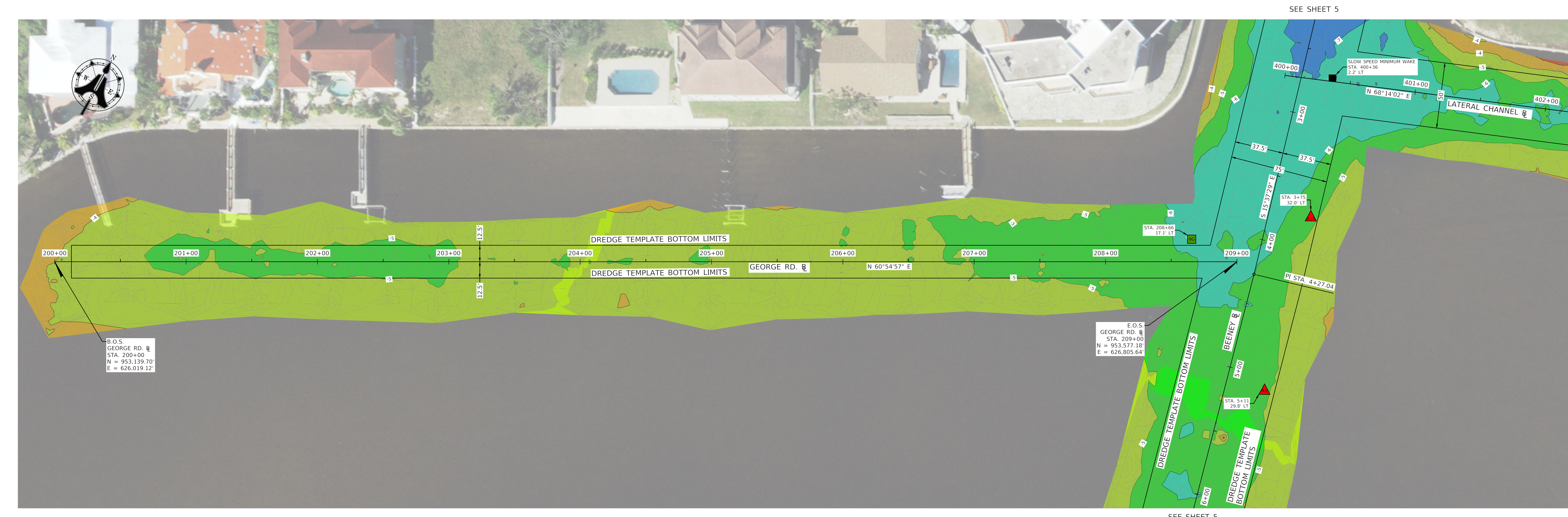
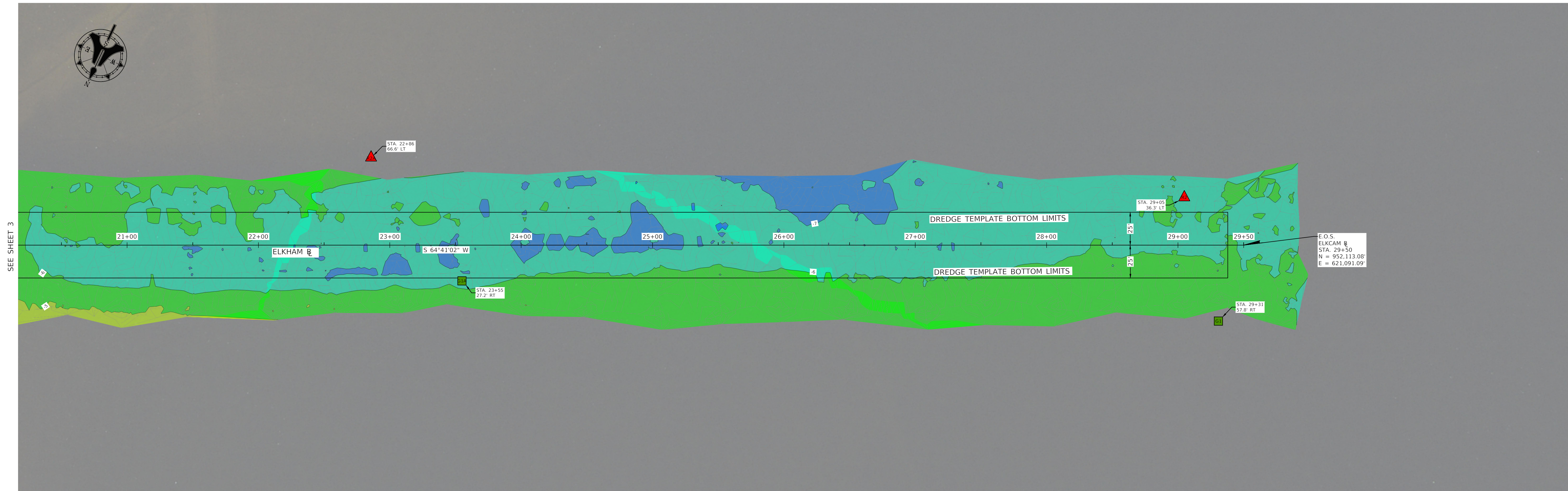
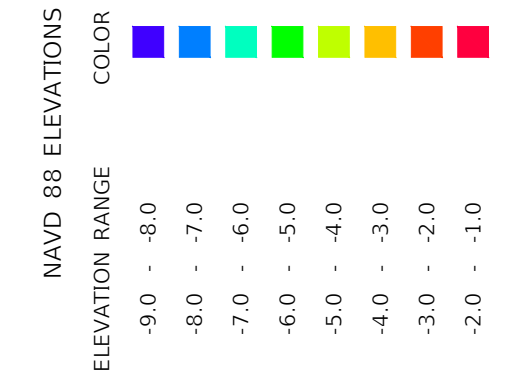
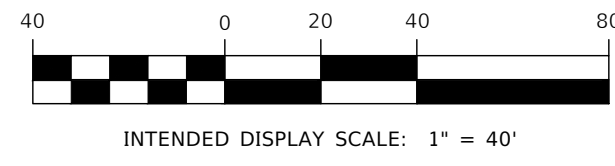
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PROJECT NO: 25-2079	COUNTY: CHARLOTTE	SHEET: 3	SHEET: 17	CLIENT: CHARLOTTE COUNTY		
AIM Engineering & Surveying, Inc. CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com						
PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		PREPARED BY: DARREN TOWSE/END MAPPER		ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWINGS(S) SHALL BE MADE TO THE ORIGINAL DRAWING(S) AND THE ORIGINAL DRAWING(S) SHALL BE MAINTAINED IN THE ORIGINAL DRAWING(S) AND NOT REPRODUCED OR REUSED FOR ANY OTHER PROJECT.		
FIELD BOOK: 1886		PAGE: 54-57		FIELD NO.: 1886		
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NO.: 2		DT: 06-17-2025		BY:		
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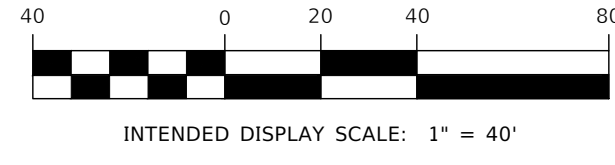
BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



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PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		CLIENT: AIM Engineering & Surveying, Inc.	DATE:	DT
PREPARED BY: DARREN TOWSE PROFESSOR FLORIDA CERTIFICATE NO. 6676		CERTIFICATE OF AUTHORIZATION NO. 3114	DATE:	DT
ANY REVISIONS, ALTERATIONS, AND OR CHANGES TO DRAWING(S) SHALL BE INDICATED BY A REVISION TABLE. THIS DRAWING, WHEN USED FOR CONSTRUCTION, SHALL BE THE ORIGINAL COPY AND SHALL BE KEPT ON FILE AT ALL TIMES.		DATE:	DT	DT
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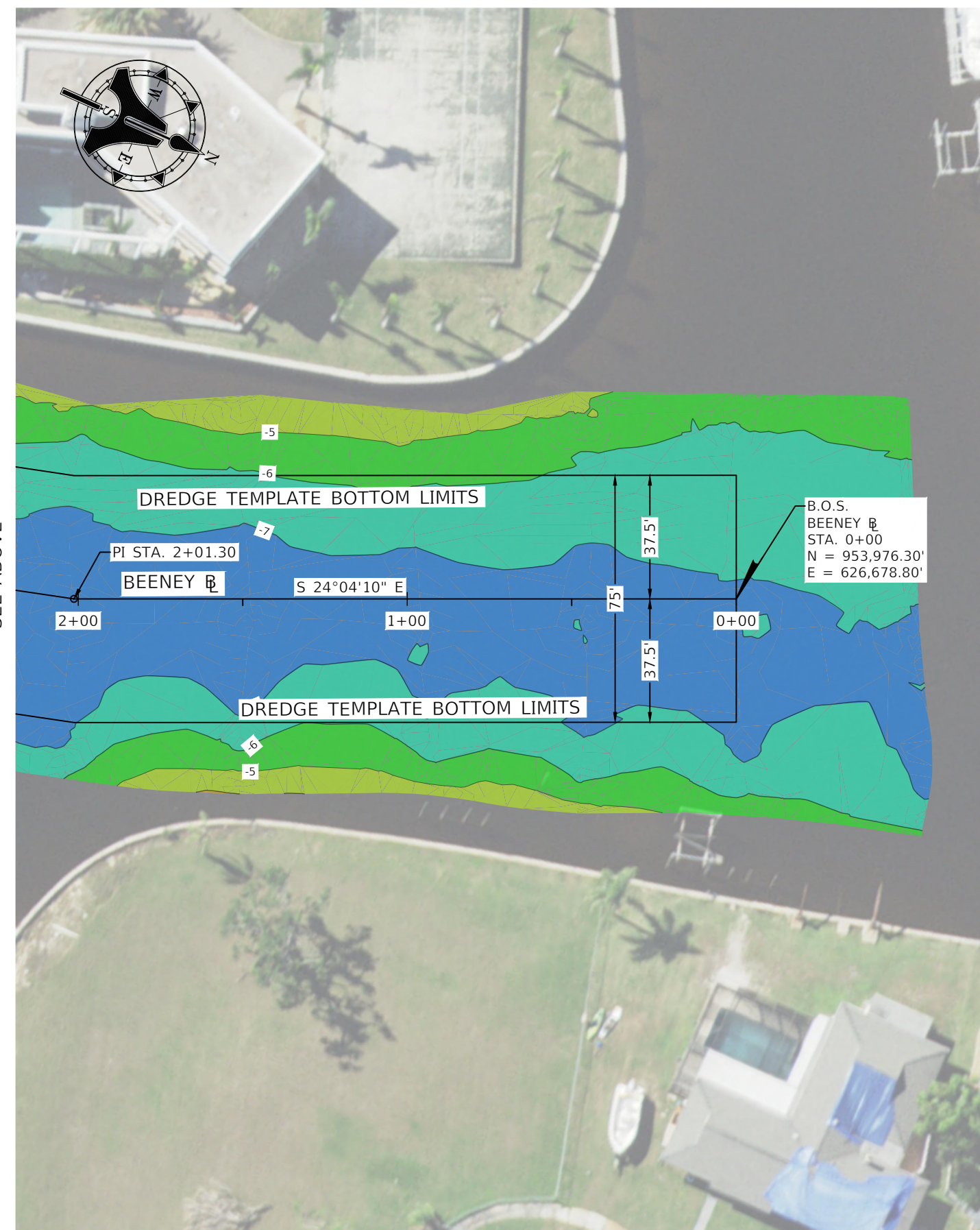
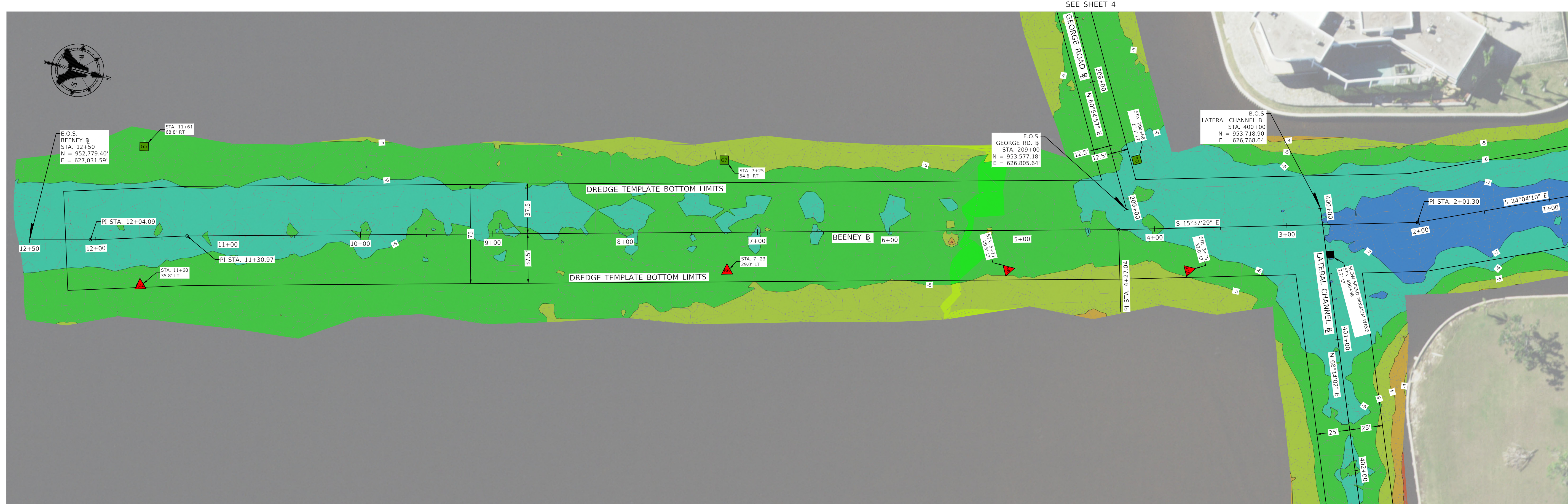
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BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



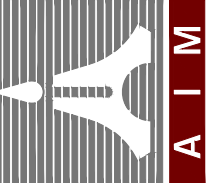
NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-9.0 - -8.0	Blue
-8.0 - -7.0	Light Blue
-7.0 - -6.0	Green
-6.0 - -5.0	Light Green
-5.0 - -4.0	Yellow
-4.0 - -3.0	Orange
-3.0 - -2.0	Red
-2.0 - -1.0	Dark Red



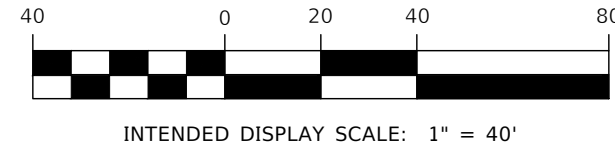
SEE SHEET 4

SEE SHEET 6

		<b>AIM Engineering &amp; Surveying, Inc.</b> CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT TOLL FREE 800-376-4569 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com		CLIENT: CHARLOTTE COUNTY	
PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		PREPARED BY: AIM ENGINEERING & SURVEYING, INC. SEE SHEET 1 DARREN TOWSE/SENIOR MAPPER PROFESSIONAL ENGINEER FLORIDA CERTIFICATE NO. 3114		CERTIFICATE OF AUTHORIZATION No. 3114 DATE: 06-17-2025 CHECKED: DT DATE: 06-19-2025 DRAWN: RH	
ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWINGS(S) MUST BE APPROVED BY THE ORIGINAL DESIGNER AND THE ORIGINAL CONTRACTOR AND THE ORIGINAL CONTRACTOR'S LICENSE NUMBER MUST BE OBTAINED FROM THE ORIGINAL CONTRACTOR. INC. IS PROHIBITED.		FIELD BOOK: 1886		PAGE: 54/57	
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PROJECT NO.: 25-2079_HYDRO		COUNTY: CHARLOTTE		TOWNSHIP: S RANGE: E	

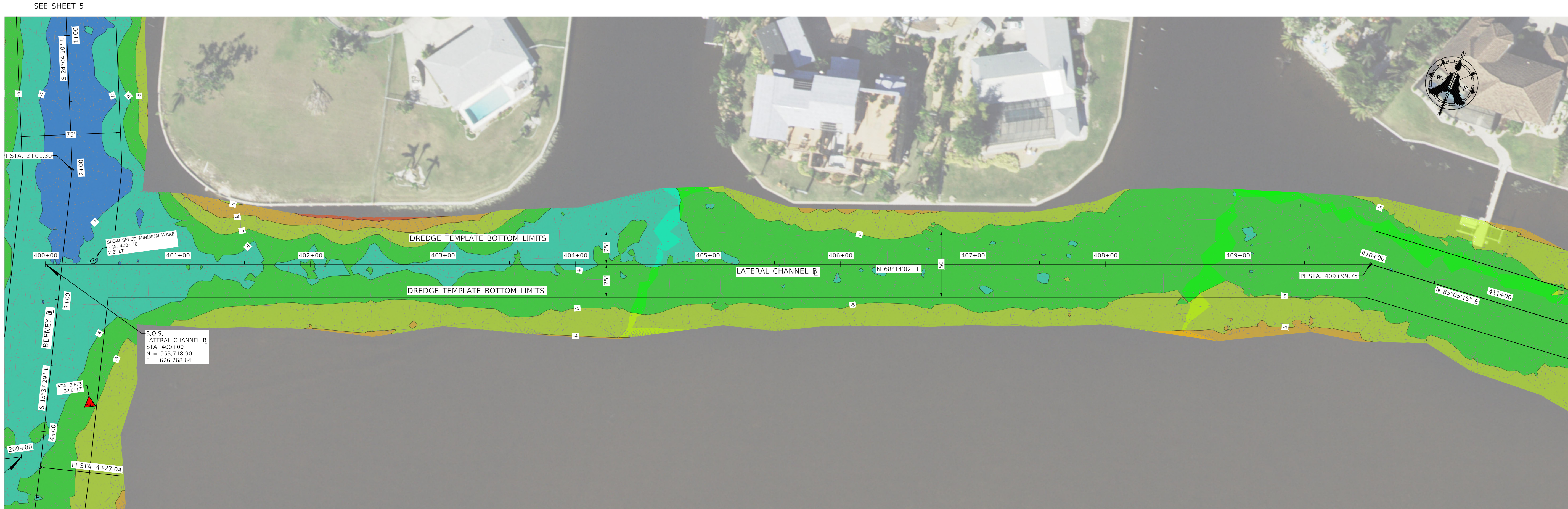
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BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA

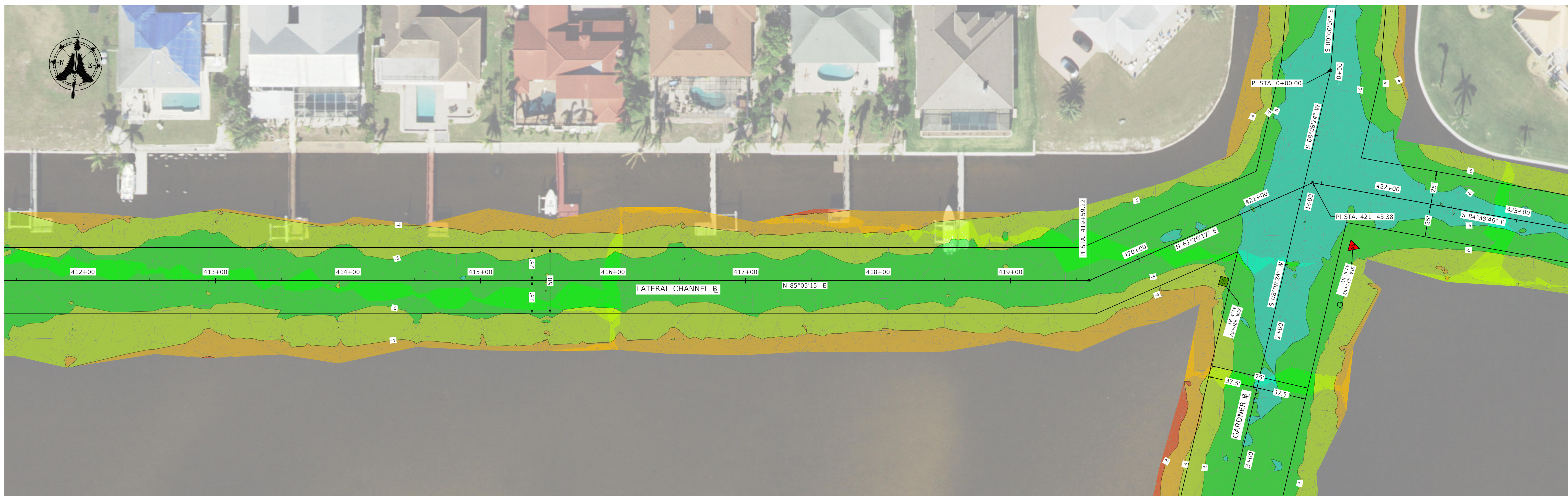


NAVD 88 ELEVATIONS

ELEVATION RANGE	COLOR
-9.0 - -8.0	Blue
-8.0 - -7.0	Light Blue
-7.0 - -6.0	Light Green
-6.0 - -5.0	Green
-5.0 - -4.0	Yellow-Green
-4.0 - -3.0	Yellow
-3.0 - -2.0	Orange
-2.0 - -1.0	Red



SEE SHEET 5

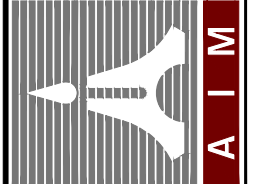


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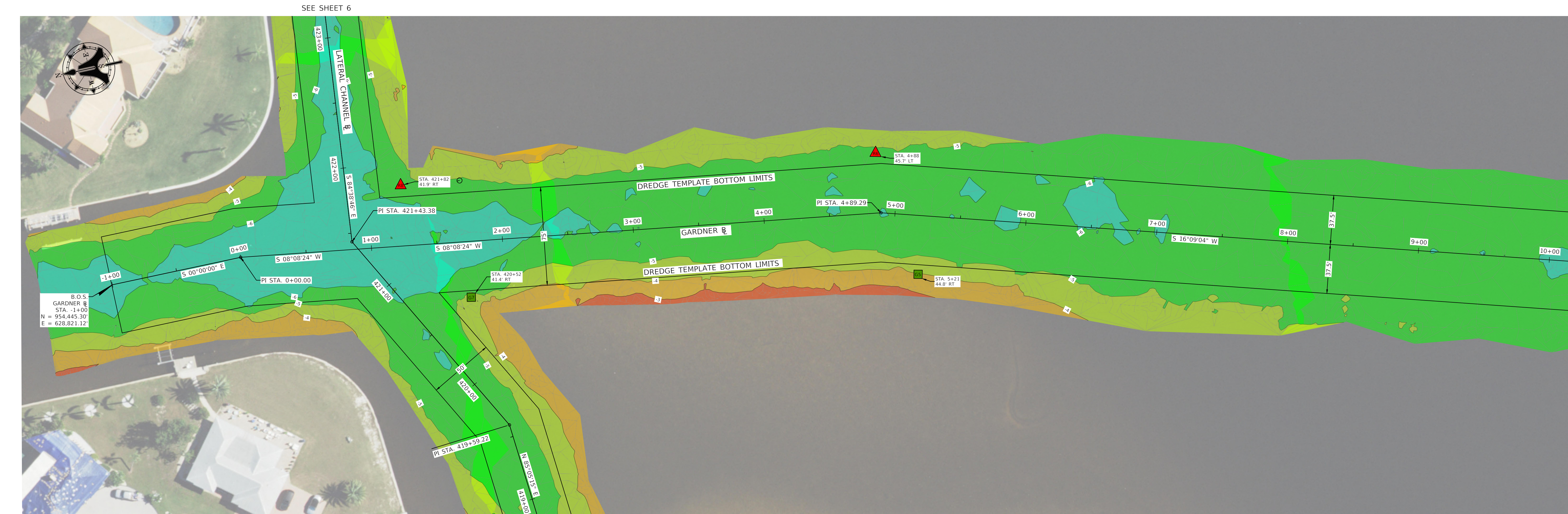
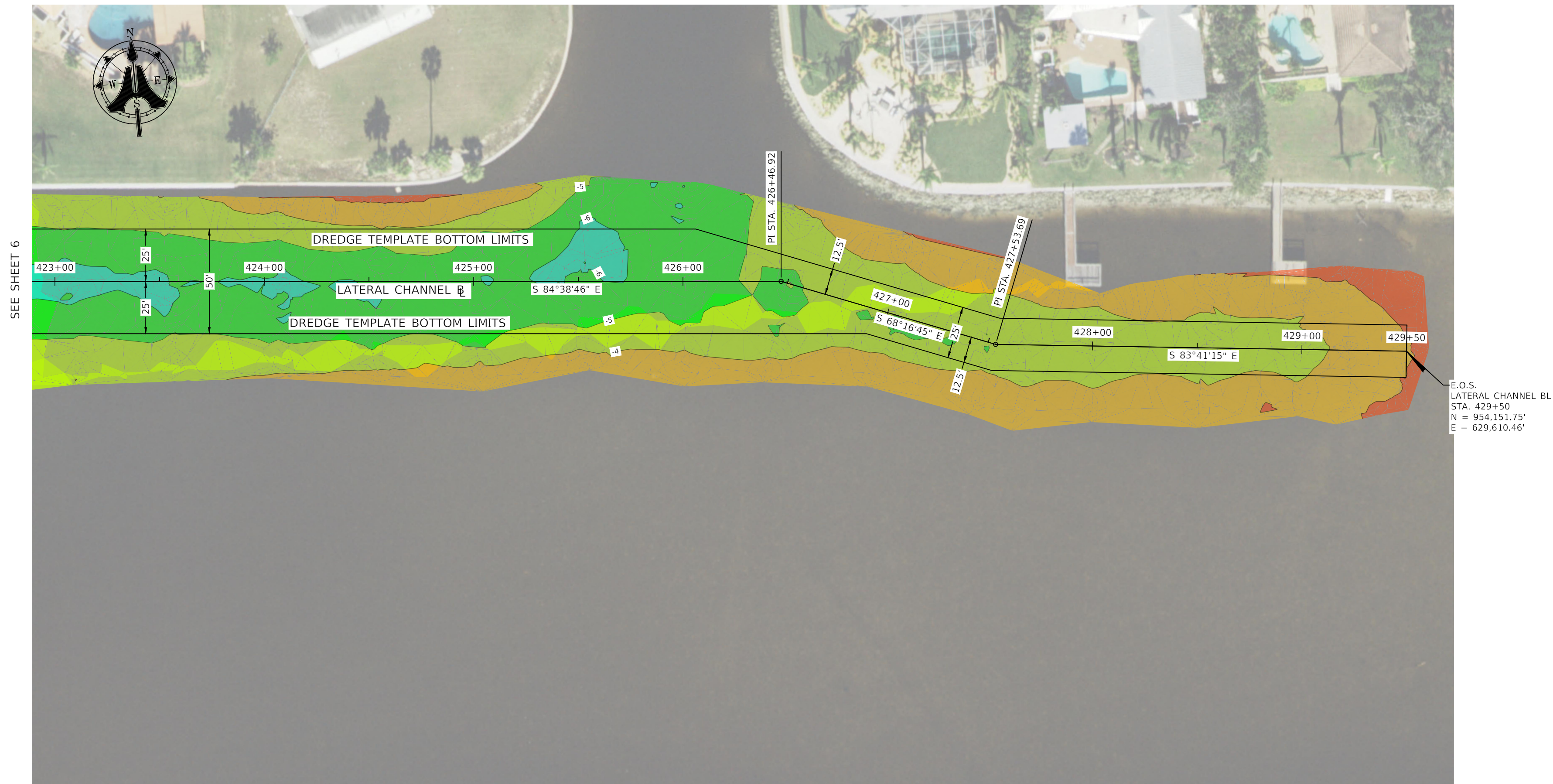
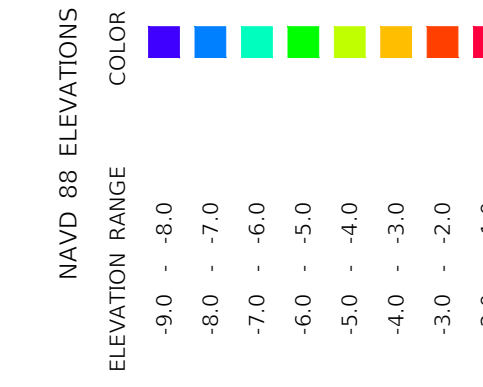
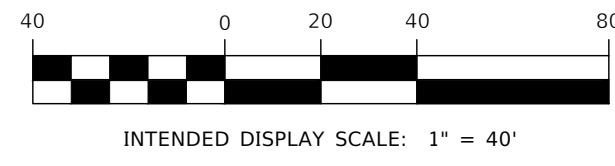
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PROJECT NAME: WOP# 345 BUENA VISTA EXTERIOR		PREPARED BY: AIM ENGINEERING & SURVEYING, INC. SEE SHEET 1 DARREN TOWNSEND PROFESSOR MAPPING FLORIDA CERTIFICATE NO. 6426		DATE: 06-19-2025 DT: 06-17-2025 RH:	
ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWINGS(S) MUST BE MADE TO THE ORIGINAL DRAWING(S) AND THE ORIGINAL DRAWING(S) MUST BE SIGNED AND SEALED BY THE ENGINEER & SURVEYOR. INC. IS PROHIBITED.		FIELD BOOK: 1886		PAGE: 54-57	
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SHEET: 6		PROJECT NO.: 25-2079_HYDRO		FILE NAME:	
COUNTY: CHARLOTTE		SECTION: S		TOWNSHIP: 5	
RANGE:		SHEET: 6		OF: 17	

# HYDROGRAPHIC SURVEY

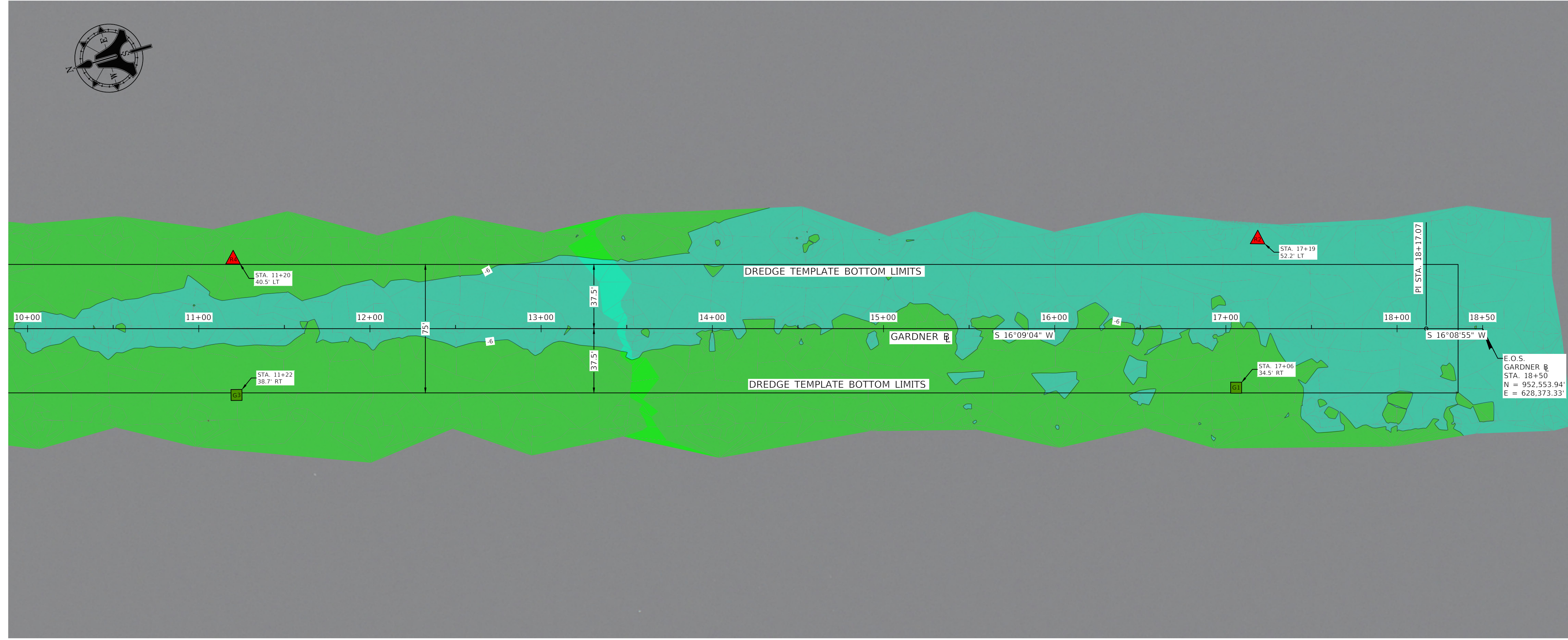
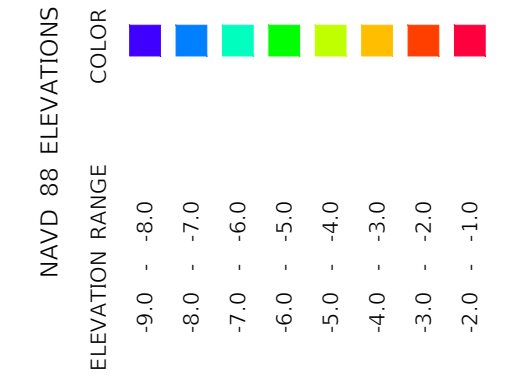
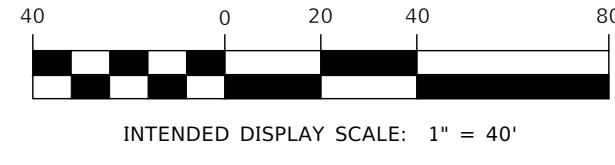
BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



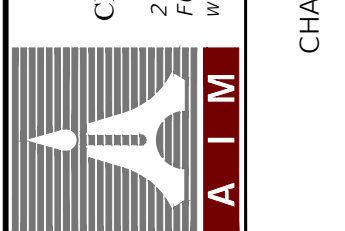
HYDROGRAPHIC SURVEY BUENA VISTA WATERWAY		FILE NAME: 25-2079_HYDRO	TOWNSHIP: S	RANGE: E
PROJECT NO: 25-2079	COUNTY: CHARLOTTE	SECTION: S	SHEET 7	
PROJECT NAME: WOF# 345 BUENA VISTA EXTERIOR		CLIENT: CHARLOTTE COUNTY	DATE: 06-17-2025	
PREPARED BY: DARREN TOWNSEND PROFESSOR FLORIDA CERTIFICATE NO. 6676		DRAWN: RH	CHECKED: DT	DATE: 06-19-2025
ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWINGS(S) AND/OR SURVEY DATA SHALL BE MADE TO THE ORIGINAL DRAWING(S) AND SURVEY DATA. THIS DRAWING(S) IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.		CERTIFICATE OF AUTHORIZATION No. 3114		
SEE SHEET 1		TOLL FREE: 800-376-4569 PHONE: 239-332-4569 FORT MYERS, FLORIDA 33901 www.aimengr.com		
FIELD BOOK: 1886		PAGE: 54-57		
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# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA



PROJECT NO.	25-2079	SECTION	CHARLOTTE	SHEET	8
FILE NAME	25-2079_HYDRO	TOWNSHIP	S	RANGE	E
COUNTY	CHARLOTTE				
					17



**AIM Engineering & Surveying, Inc.**  
 CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
 5151 FOWLER STREET, SUITE 100  
 FORT MYERS, FLORIDA 33901  
 www.aimengr.com

CHARLOTTE COUNTY

PROJECT NAME  
 WOF 345 BUENA VISTA EXTERIOR

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.

SEE SHEET 1

DARREN TOWNSEND  
 PROFESSIONAL MAPPING  
 FLORIDA CERTIFICATE NO. 6626

NO. 1886

PAGE 54-57

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FIELD BOOK: 1886

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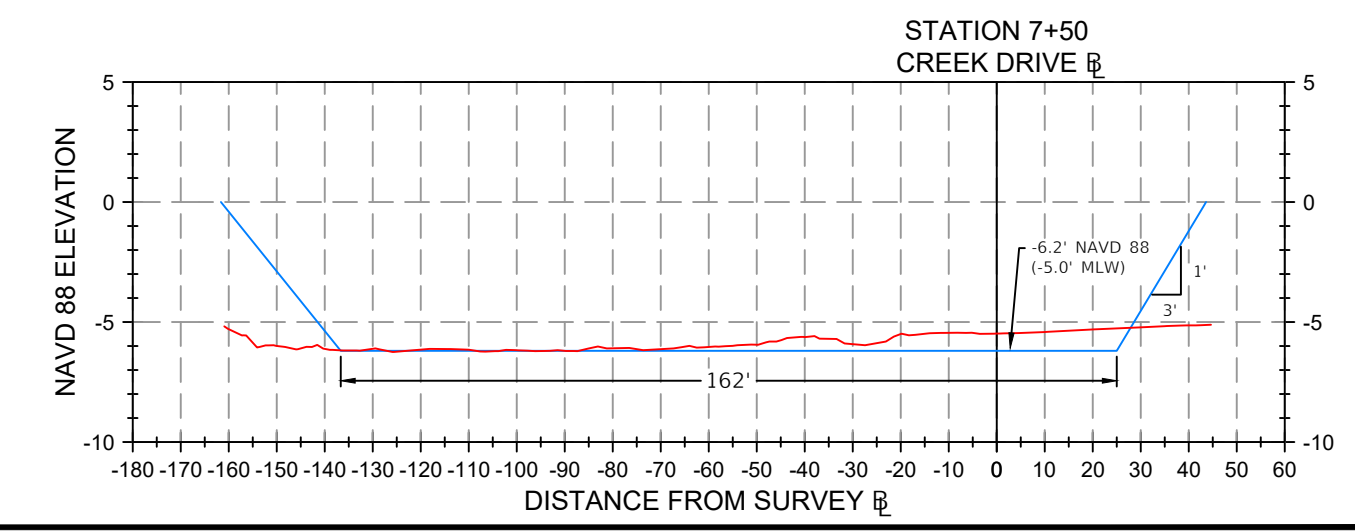
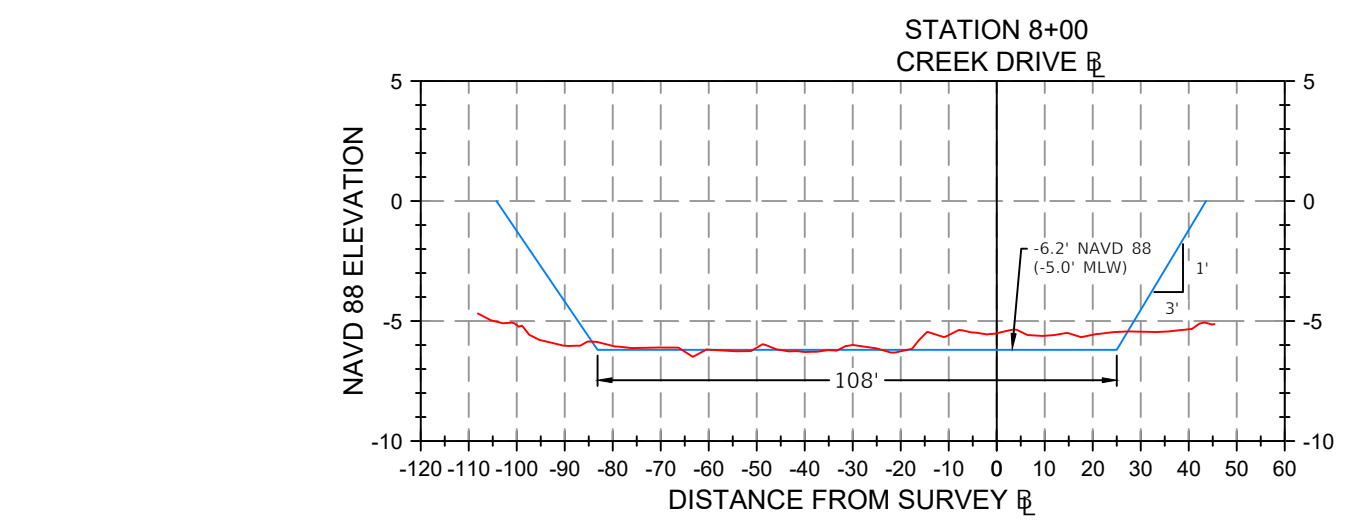
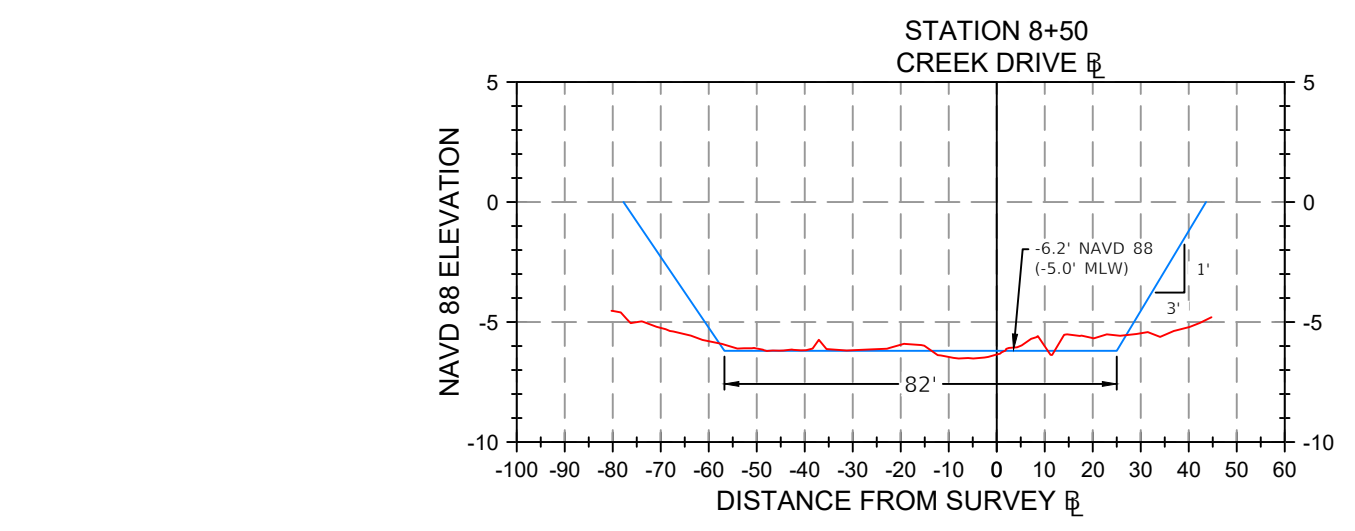
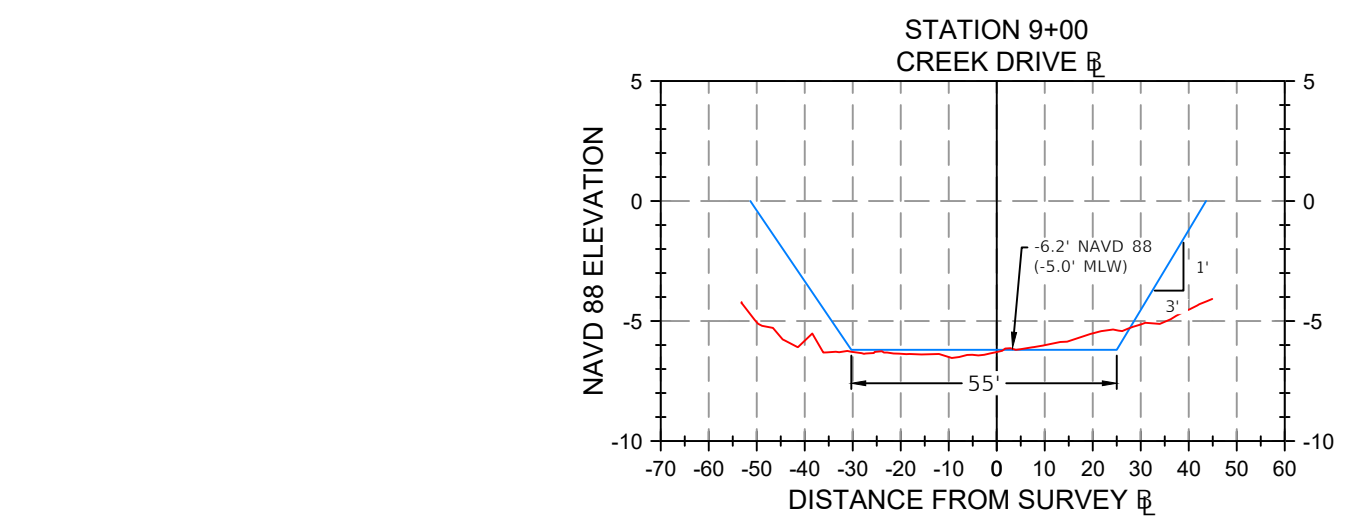
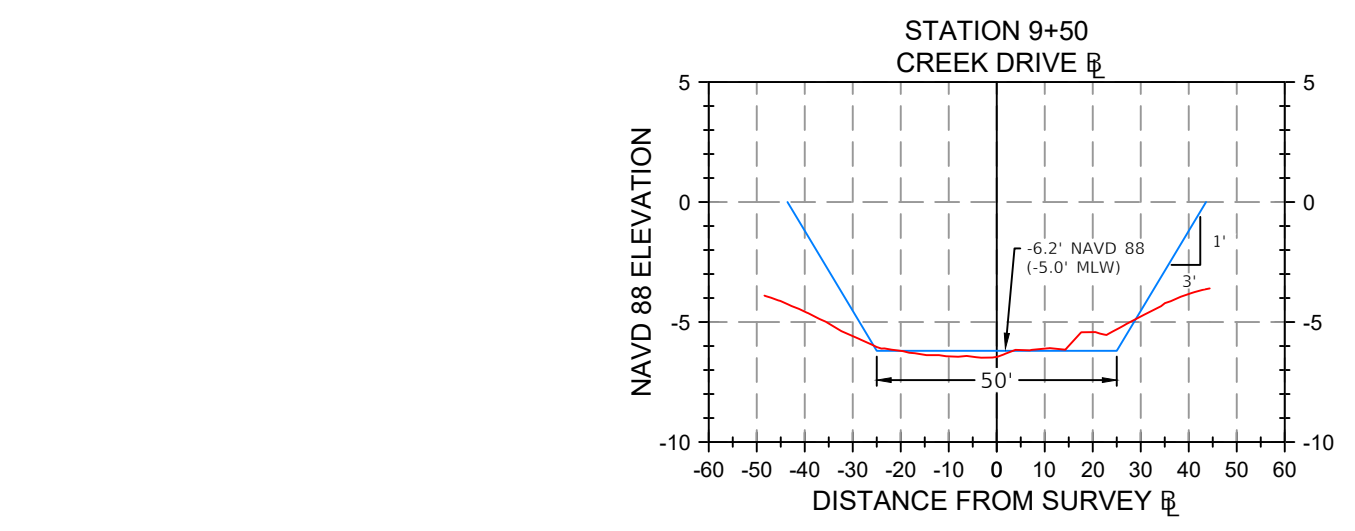
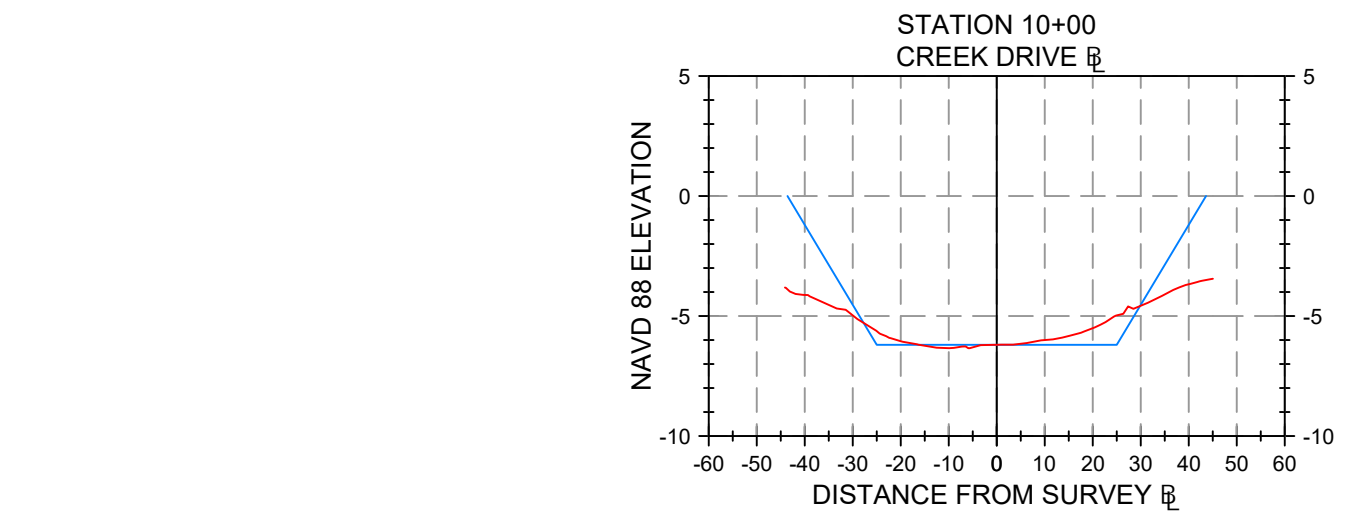
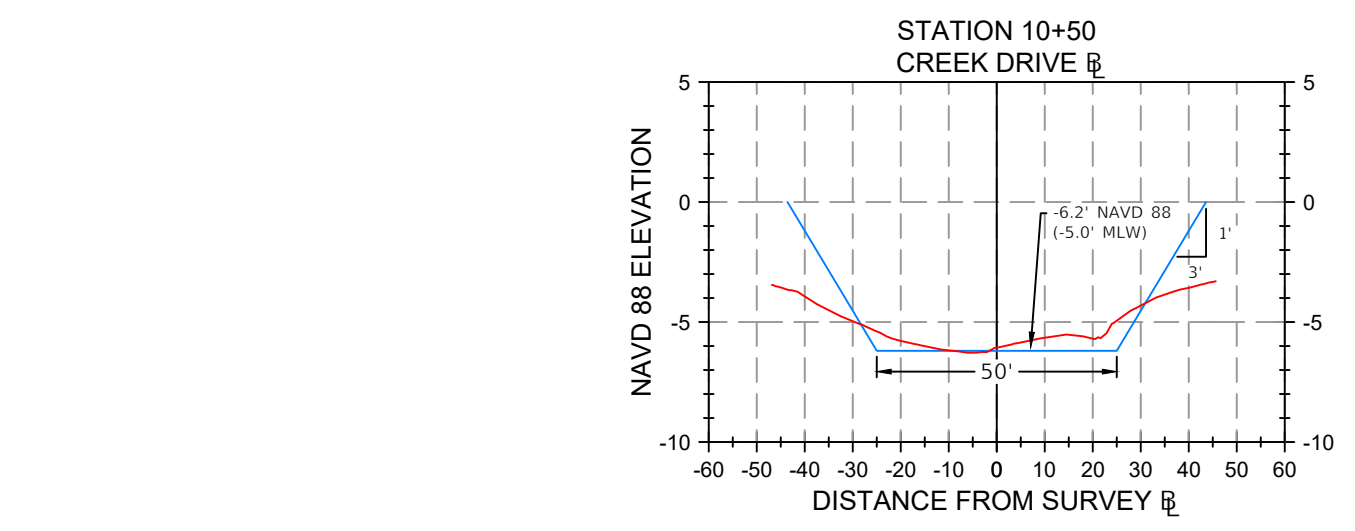
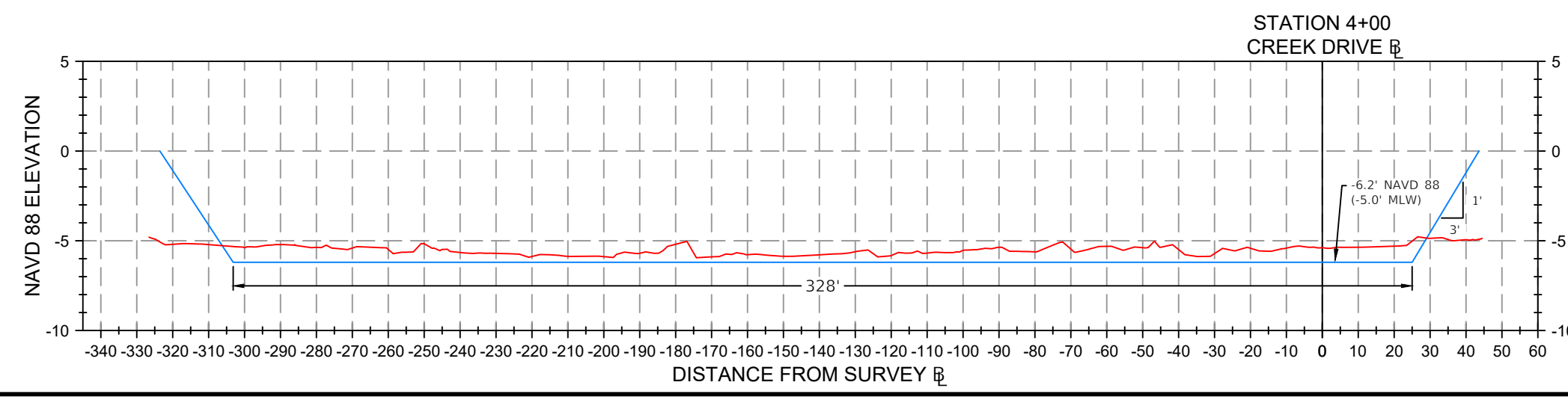
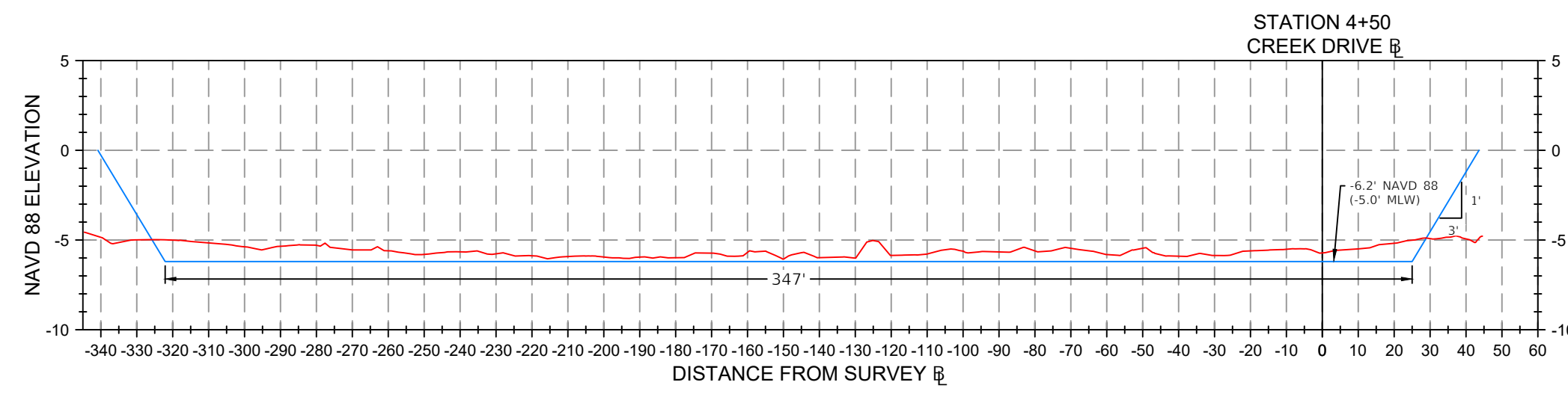
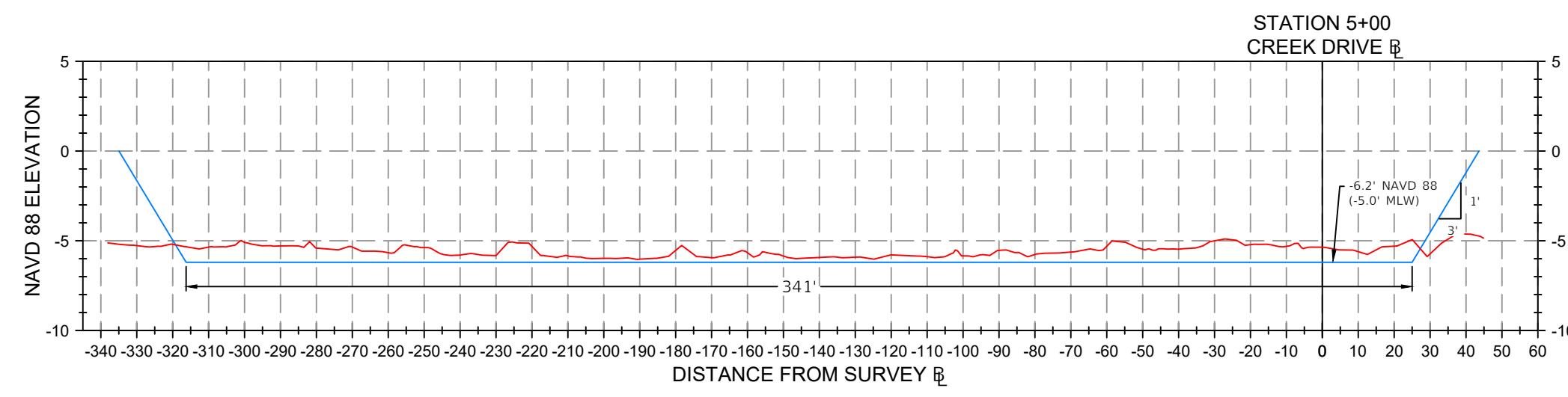
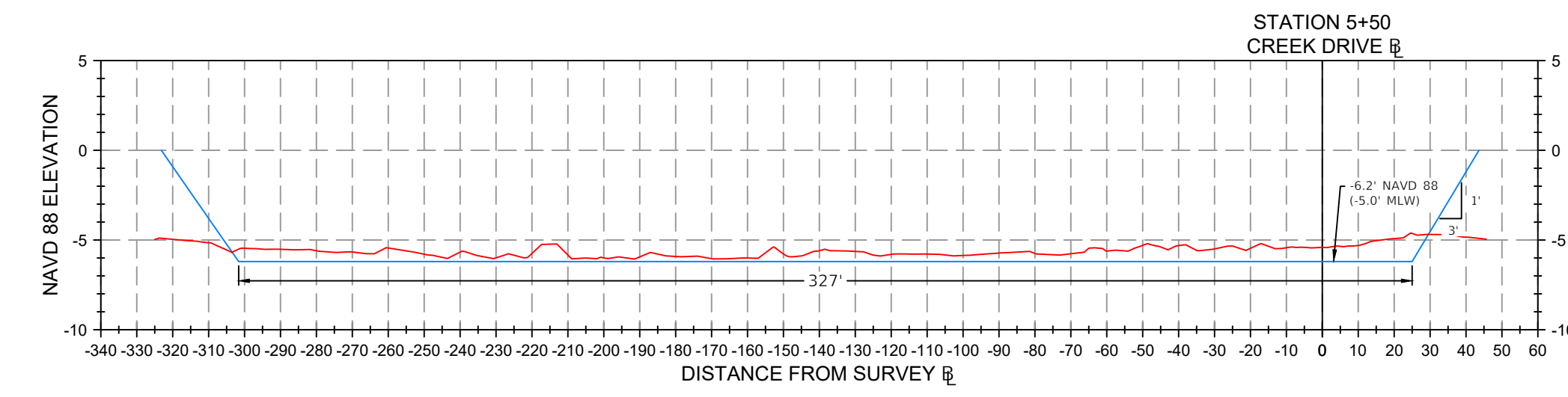
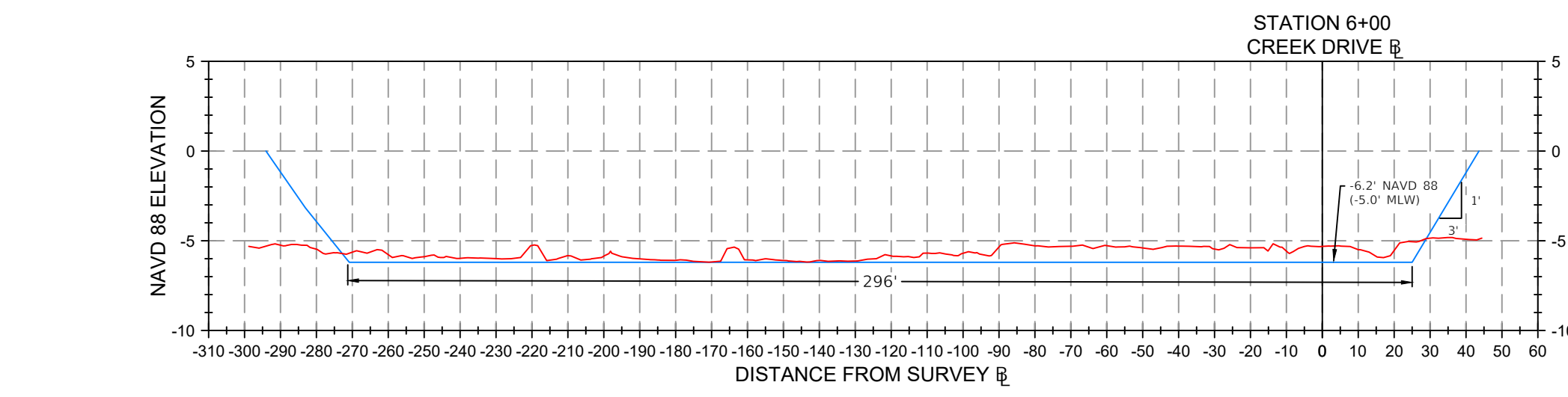
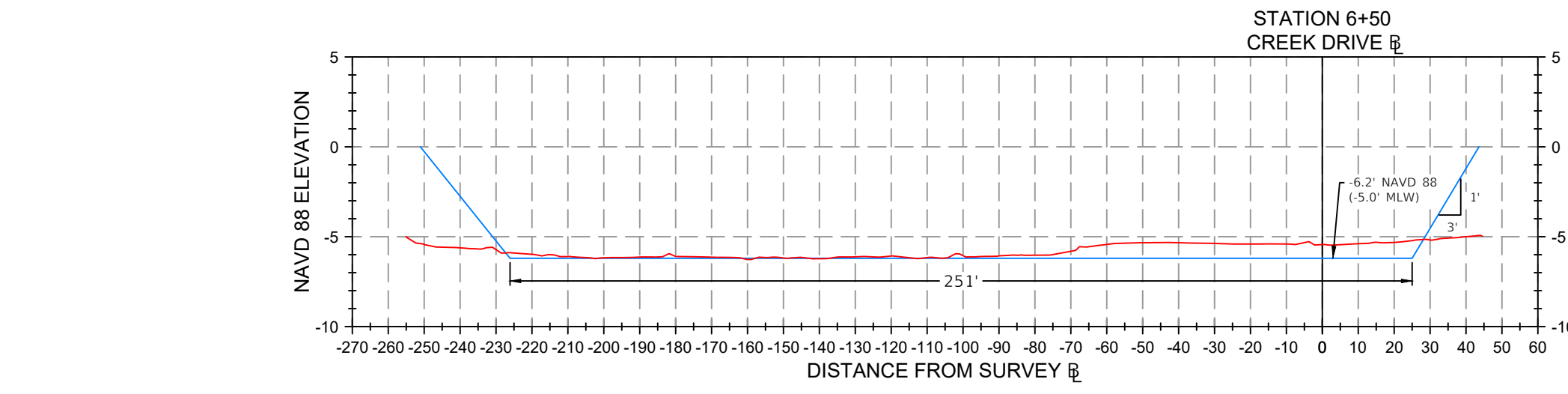
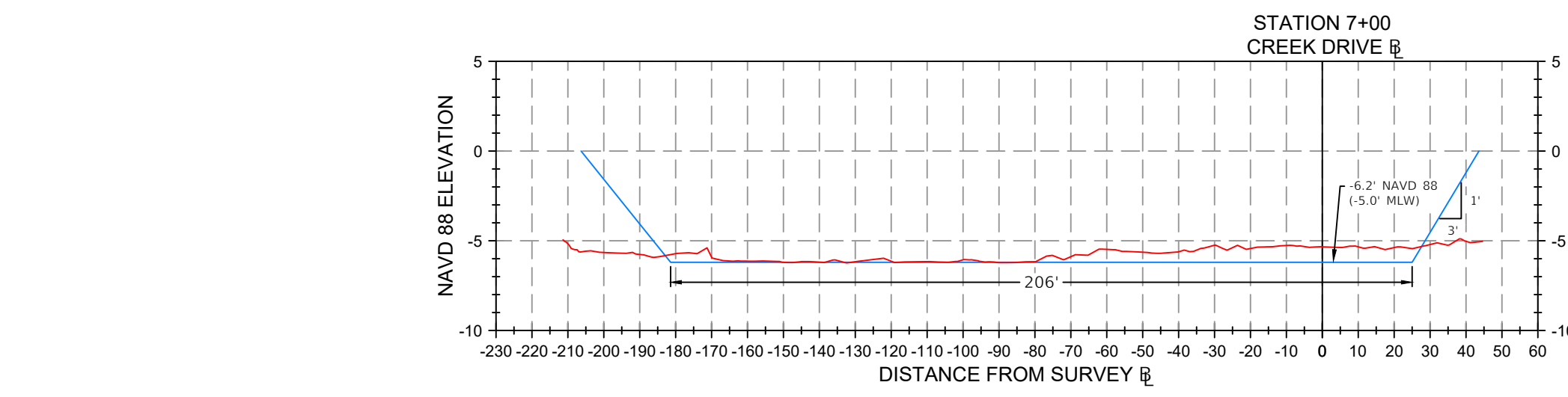
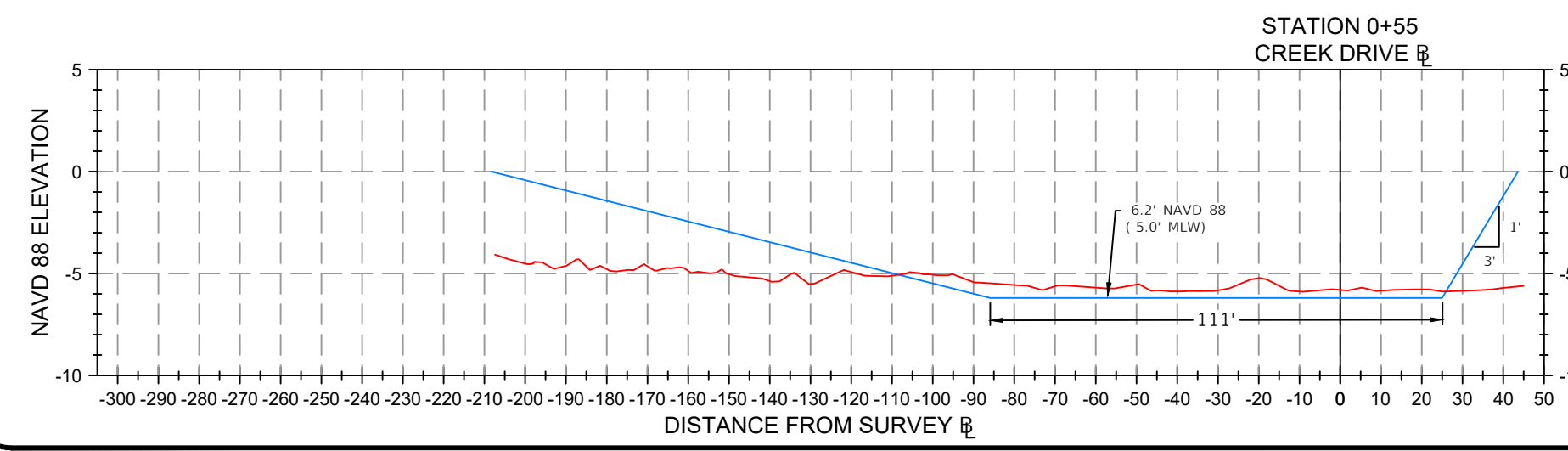
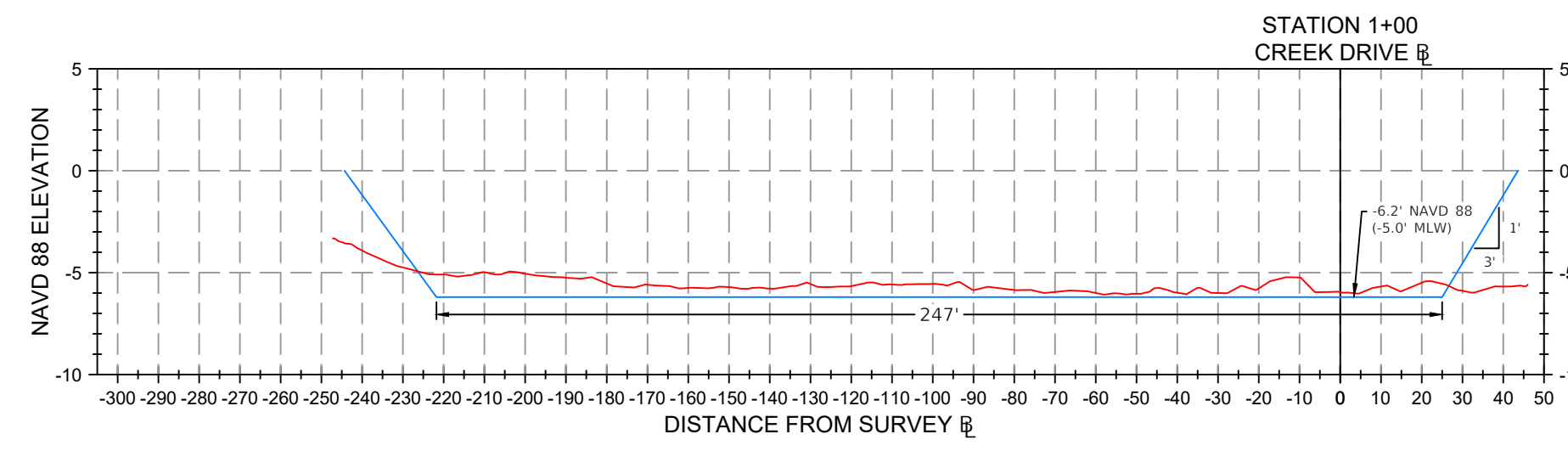
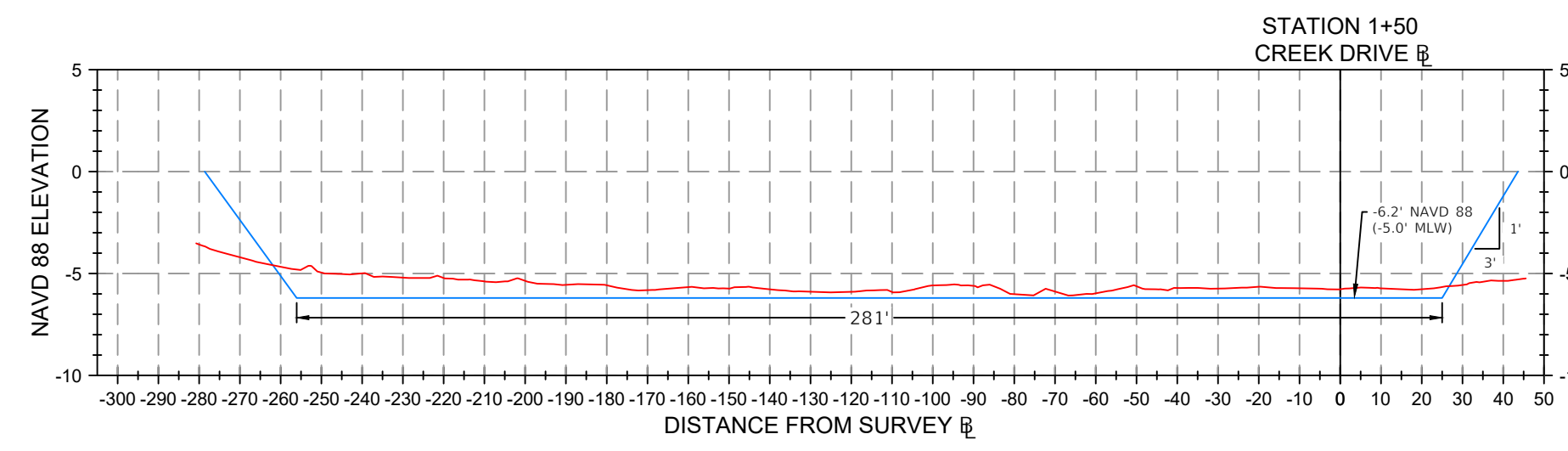
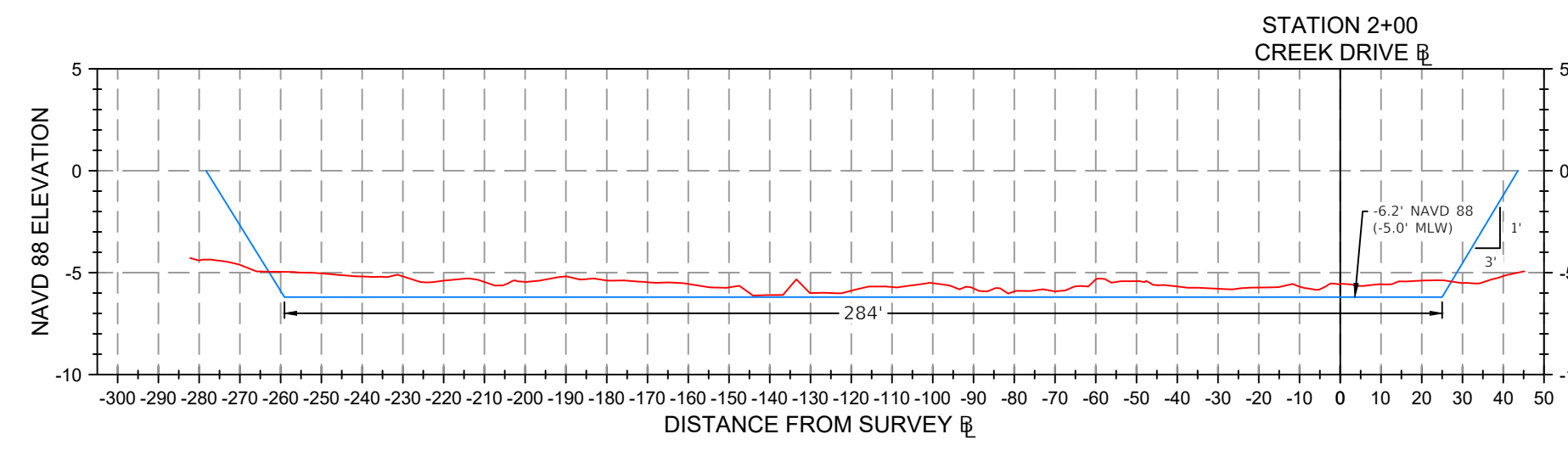
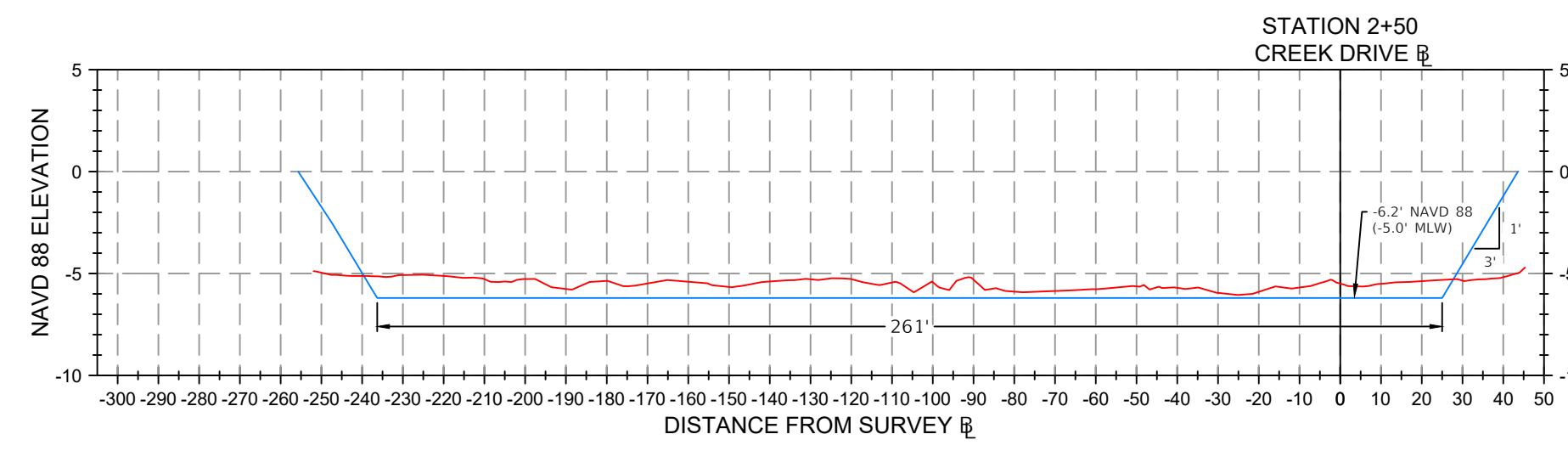
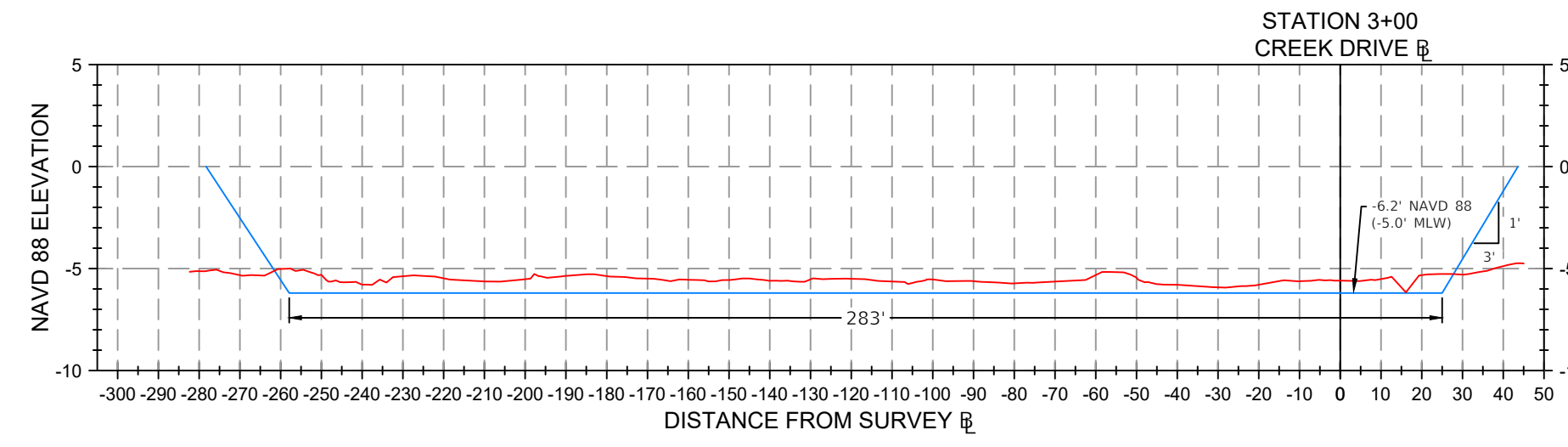
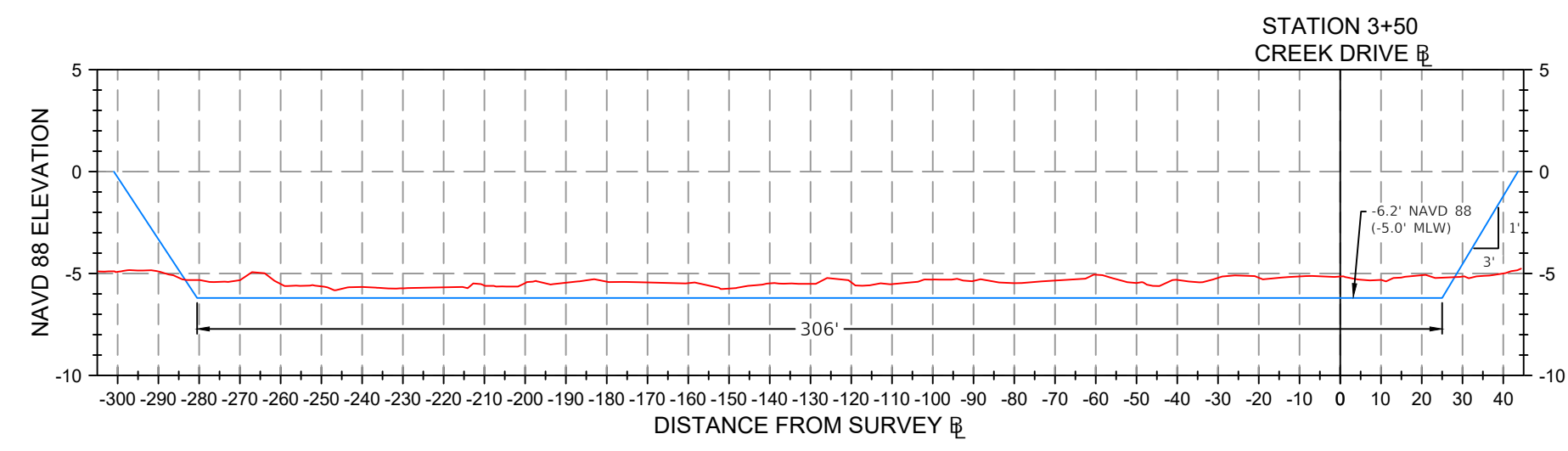
SECTION SHEET LEGEND:  
 — = BASELINE  
 — = EXISTING BOTTOM SURFACE  
 — = DREDGE TEMPLATE  
 — = MEAN LOW WATER  
 NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:  
 HORIZONTAL 1" = 40'  
 VERTICAL SCALE 1" = 8'

# HYDROGRAPHIC SURVEY

## BUENA VISTA WATERWAY

### CHARLOTTE COUNTY, FLORIDA



No.	BY	REVISIONS
1		
2		
3		
4		
5		
6		
7		

ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWING(S) MUST BE APPROVED BY THE PROJECT ENGINEER AND SURVEYING, INC. IS PROHIBITED.

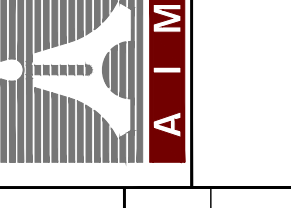
FIELD BOOK: 1886 PAGE: 54-57

PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR  
 PREPARED BY: AIM ENGINEERING & SURVEYING, INC.  
 SEE SHEET 1  
 DARRIN TOWSEND, REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR, FLORIDA LICENSE NO. 6676

AIM Engineering & Surveying, Inc.  
 CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
 3151 FOWLER STREET, SUITE 100  
 FORT WALTERS, FLORIDA 32001  
 www.aimengr.com

CERTIFICATE OF AUTHORIZATION No. 3114  
 DATE: 06-17-2025  
 CHECKED: DT  
 DATE: 06-19-2025

CLIENT: CHARLOTTE COUNTY



PROJECT NO.	25-2079_HIDAO
COUNTY	CHARLOTTE
TOWNSHIP	S
RANGE	E
SHEET	9
OF	17

SECTION SHEET LEGEND:

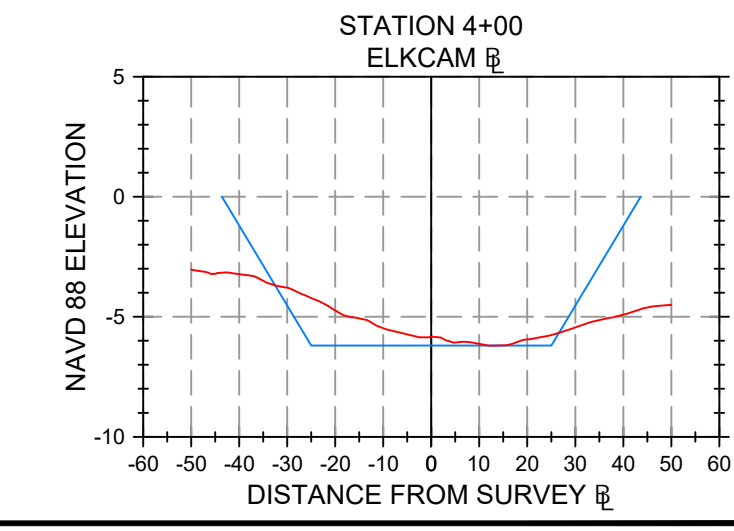
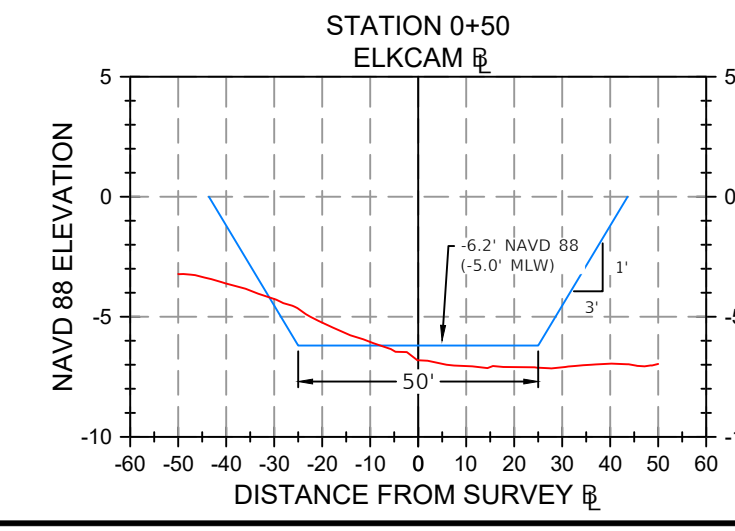
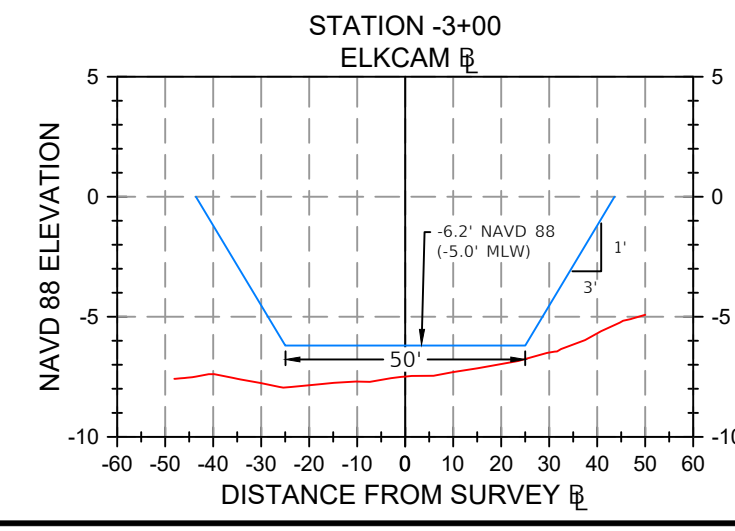
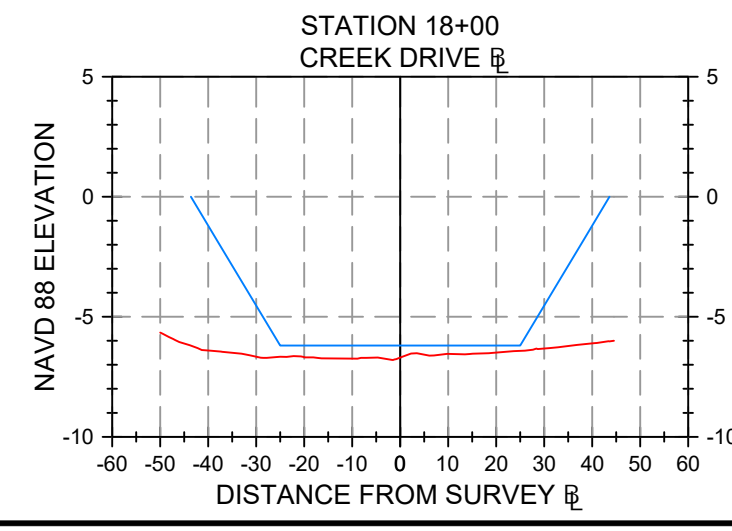
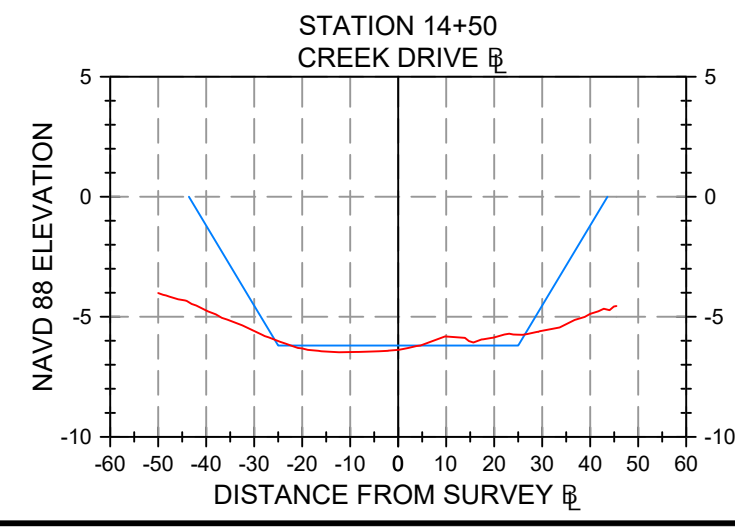
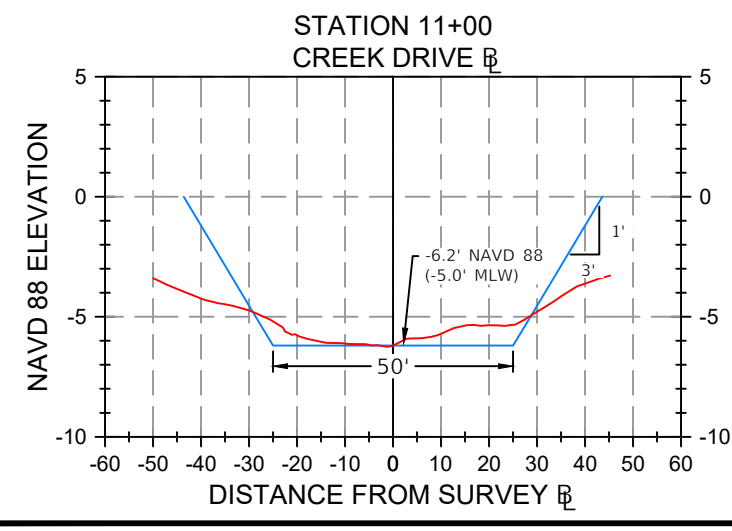
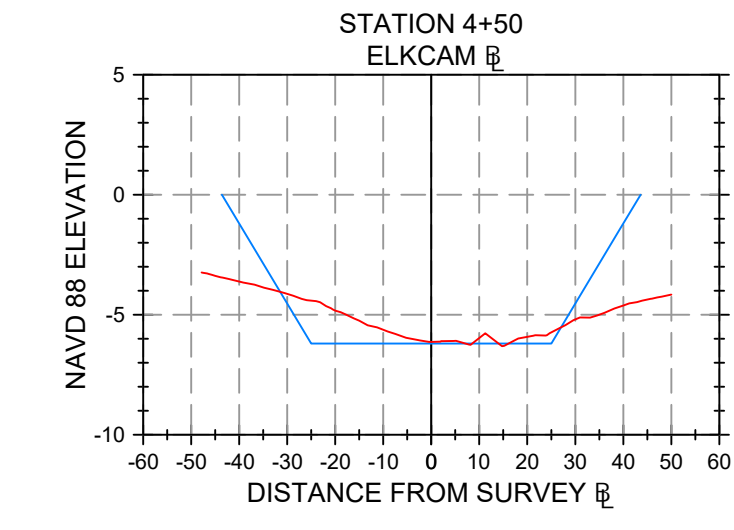
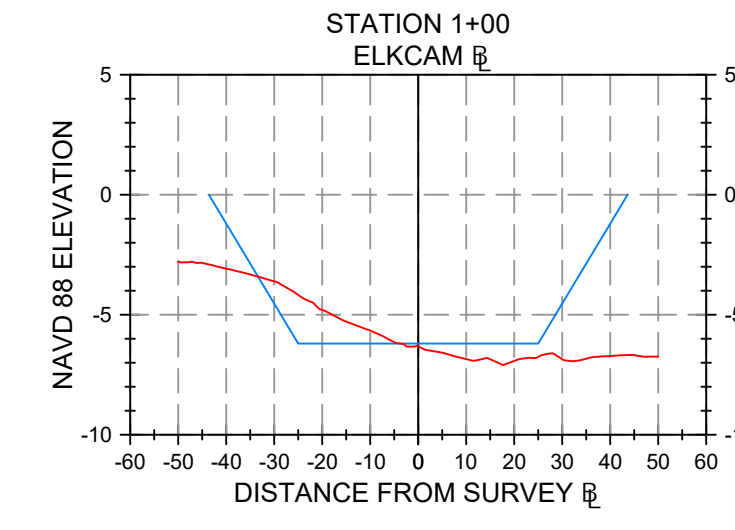
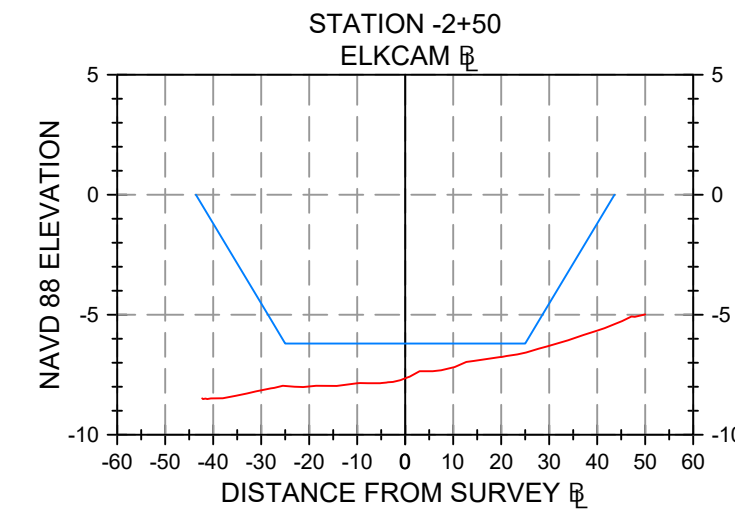
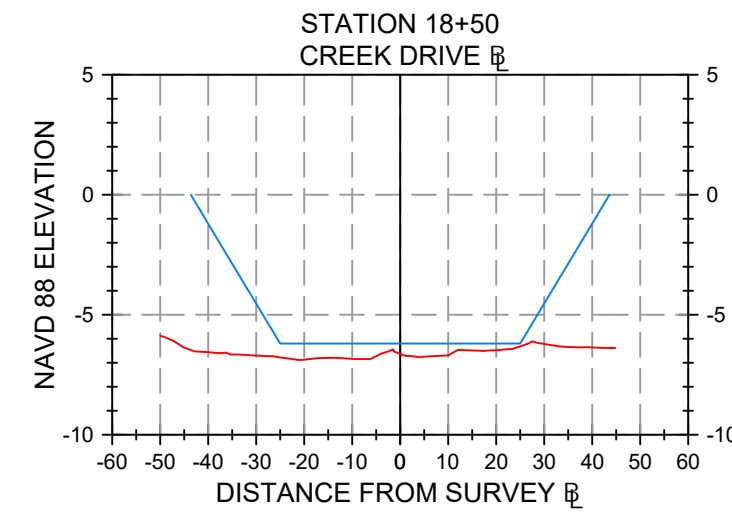
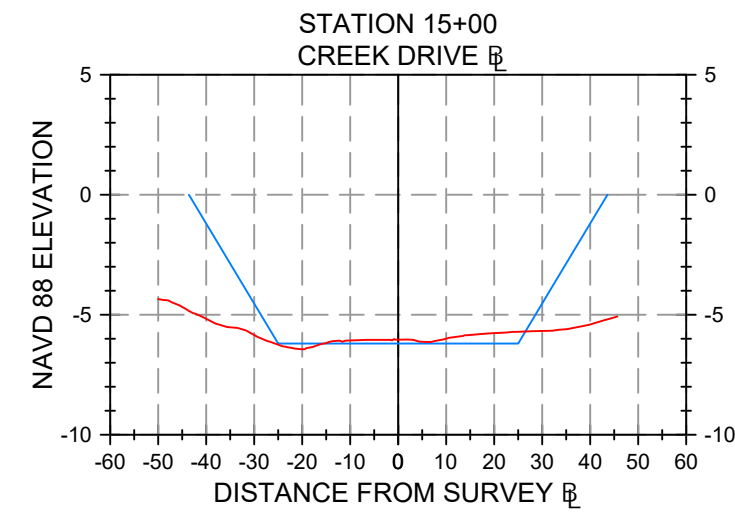
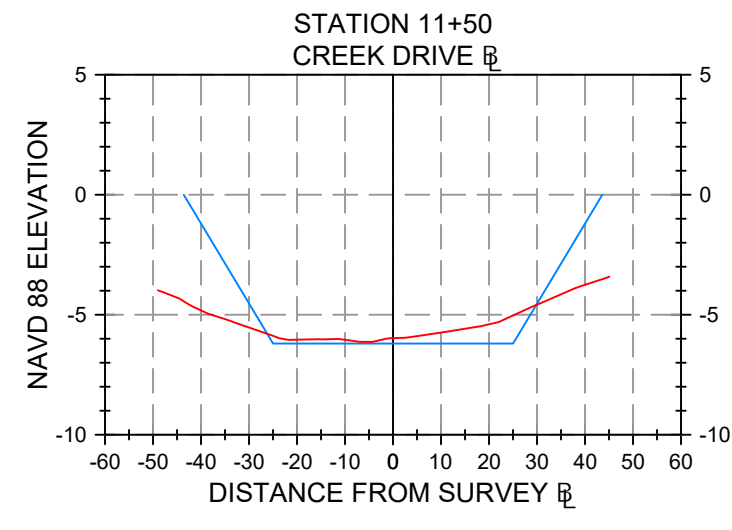
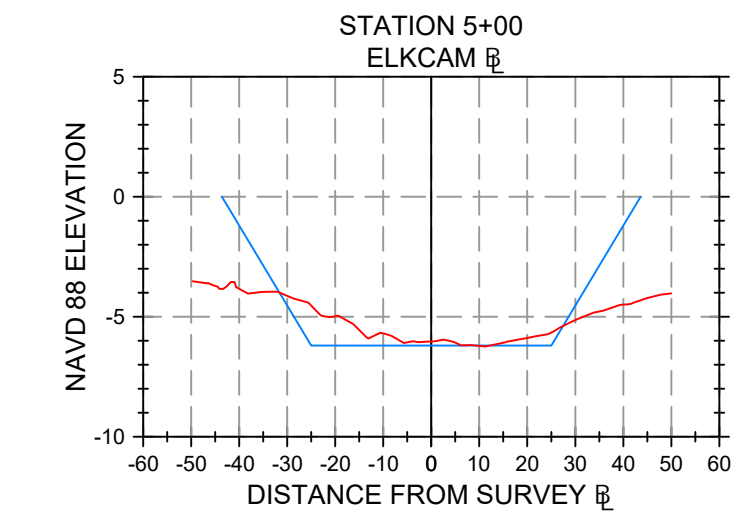
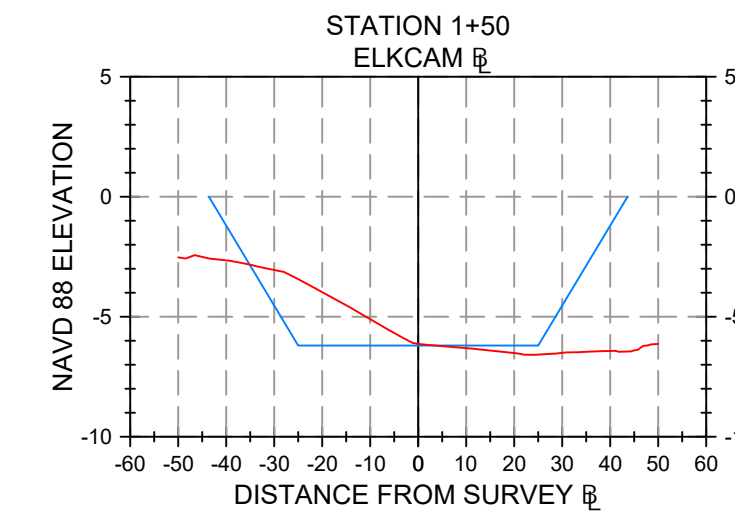
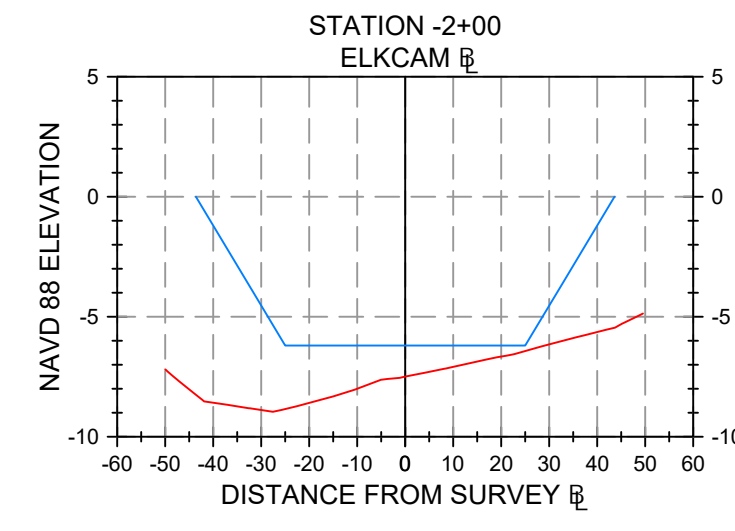
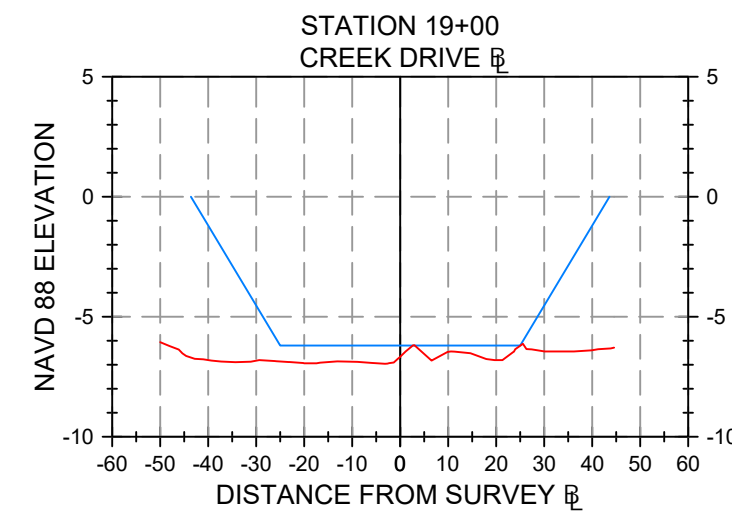
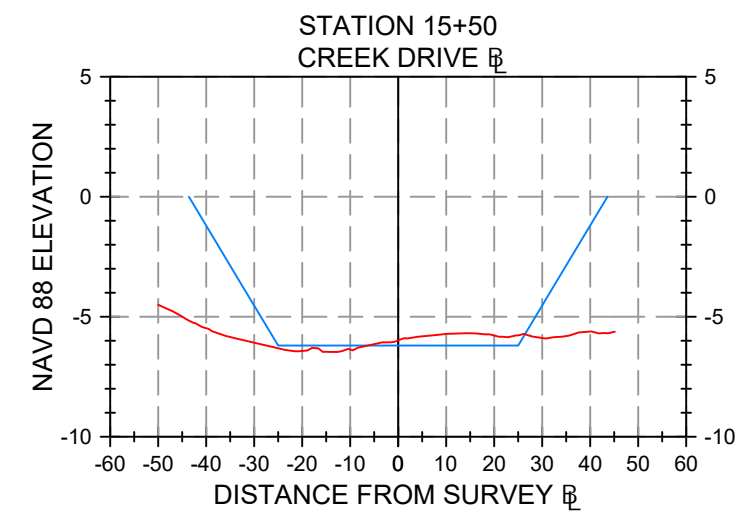
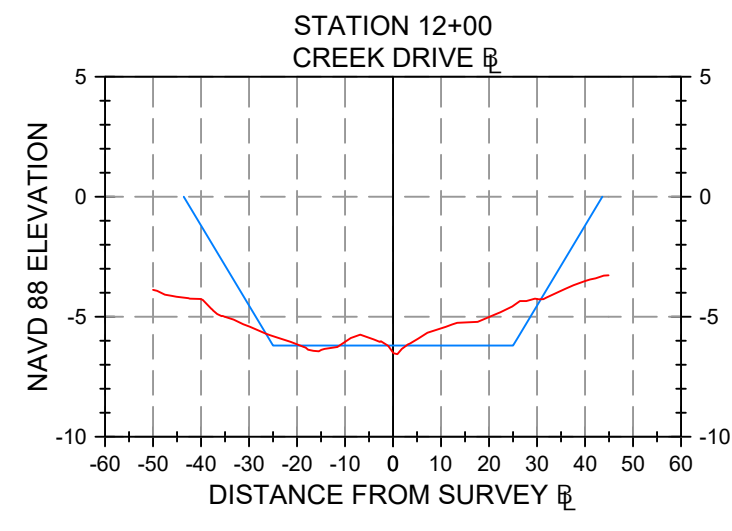
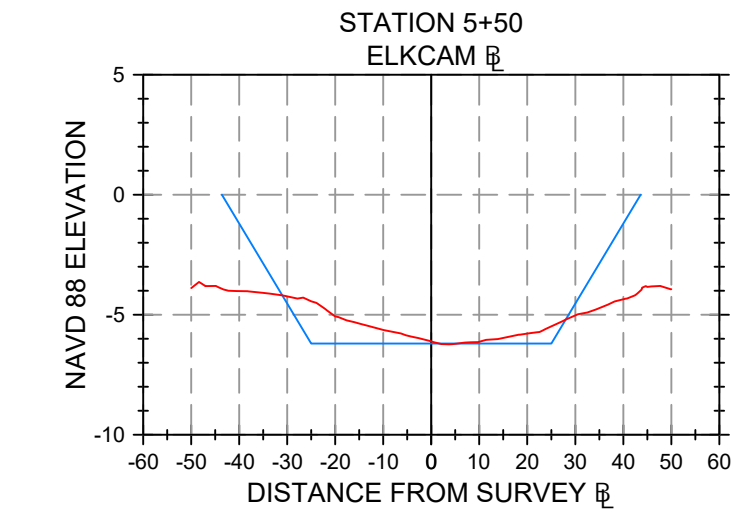
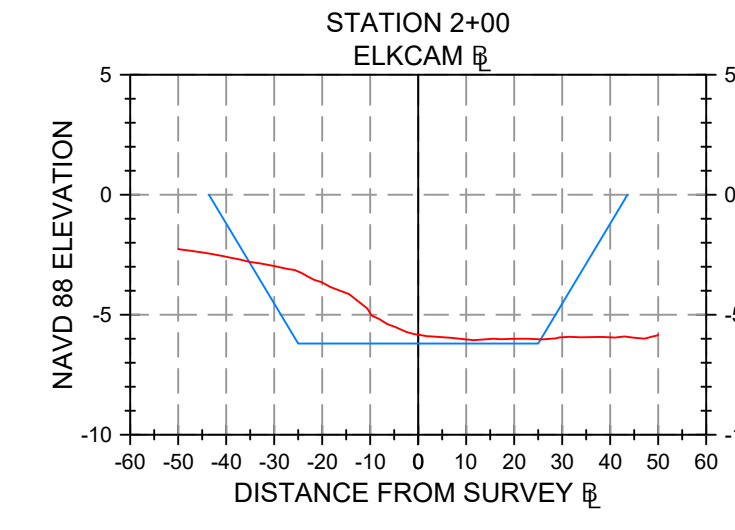
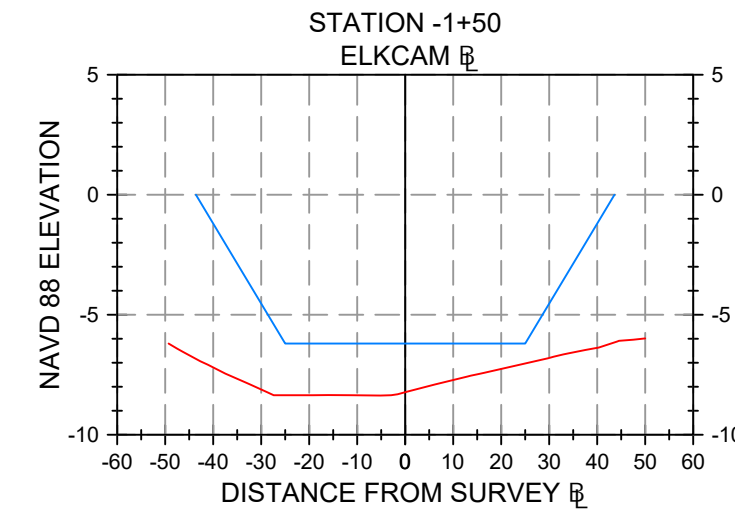
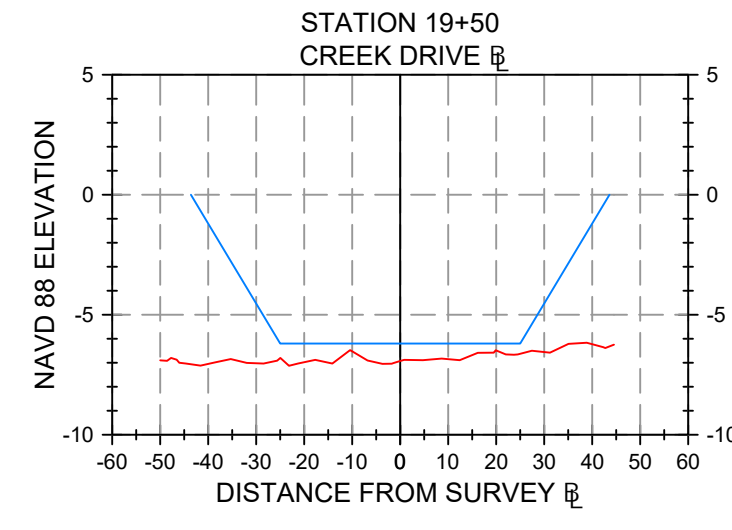
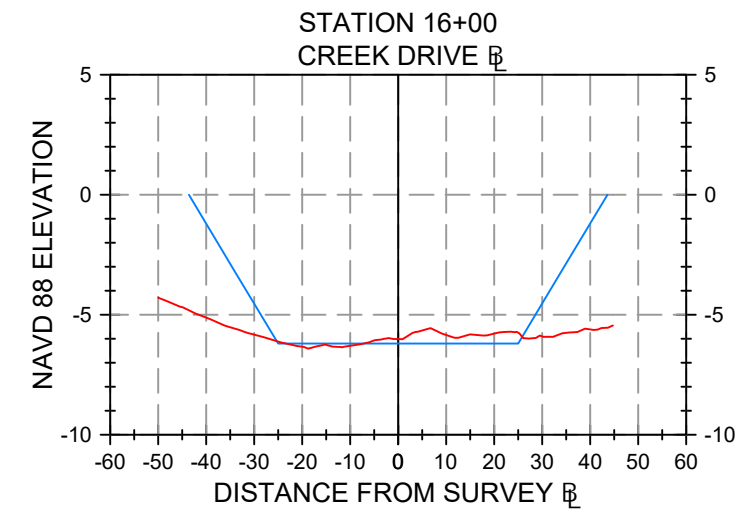
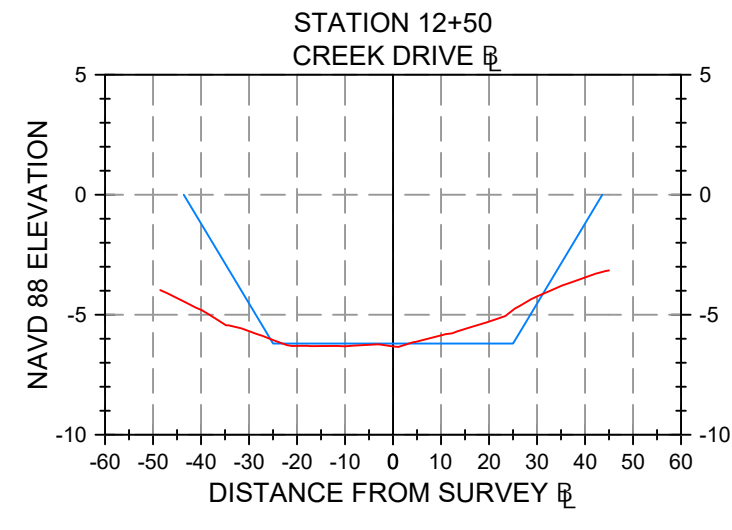
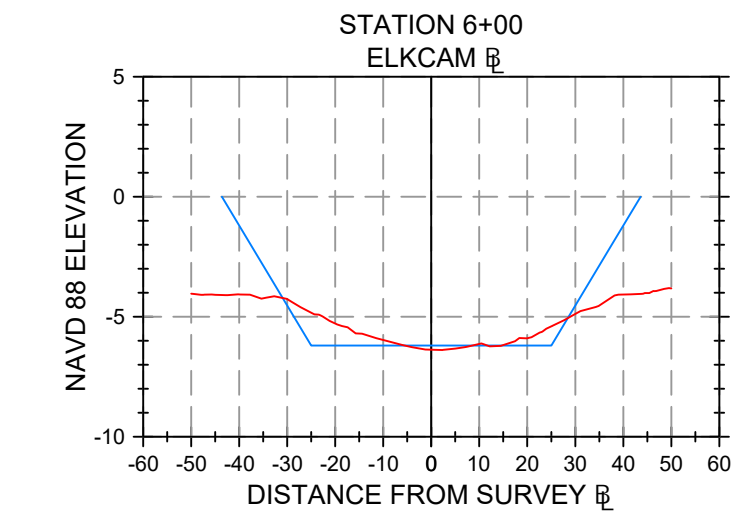
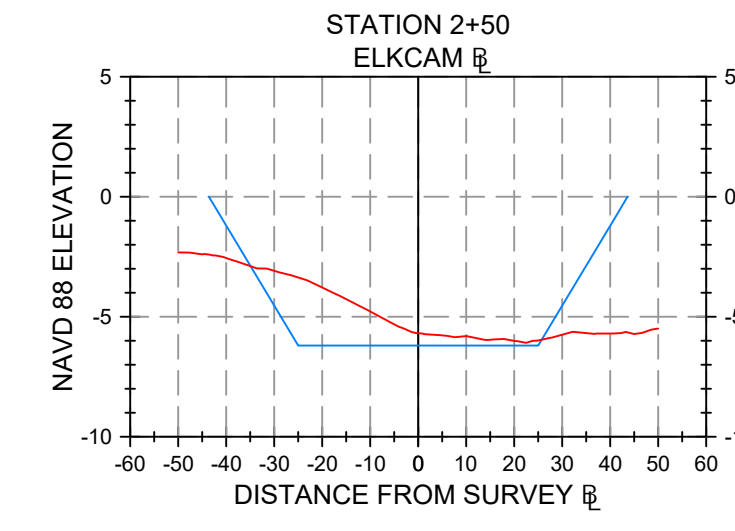
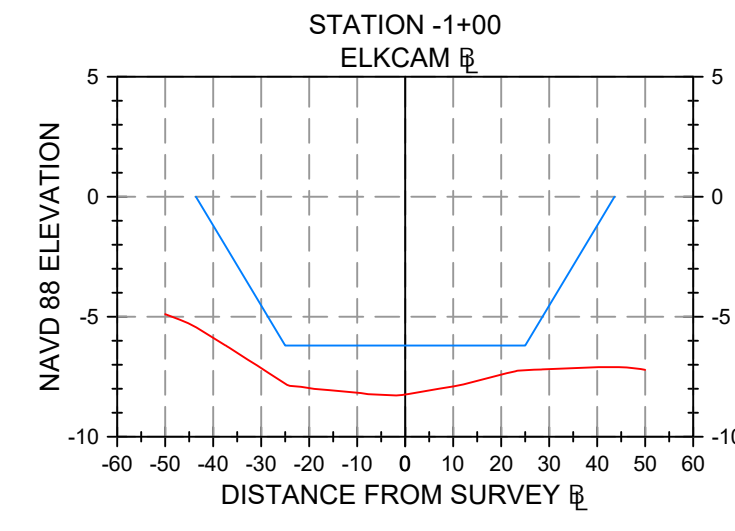
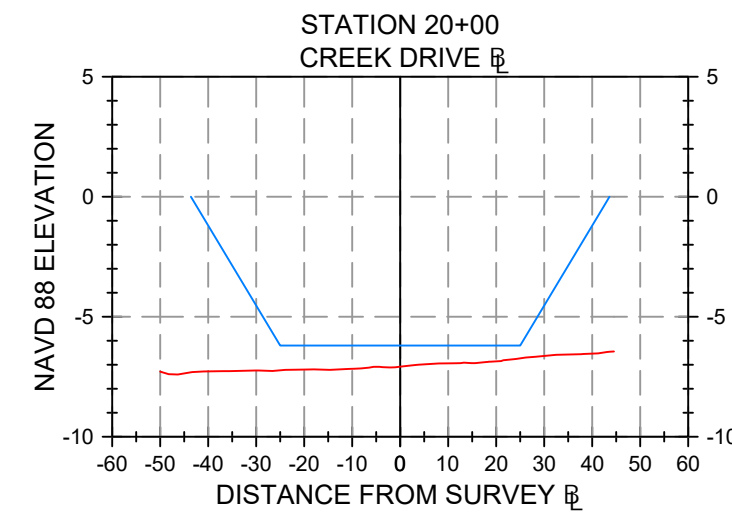
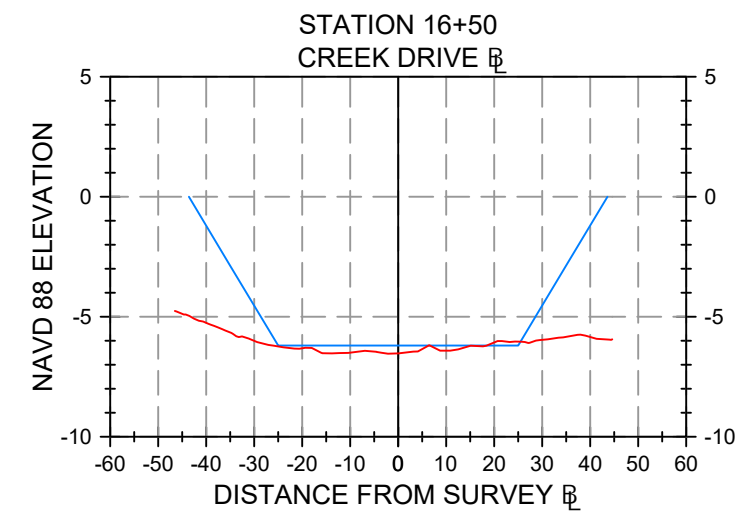
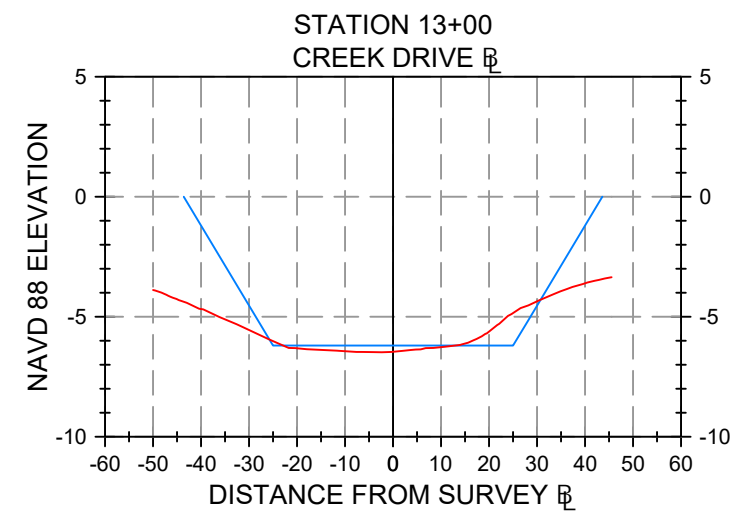
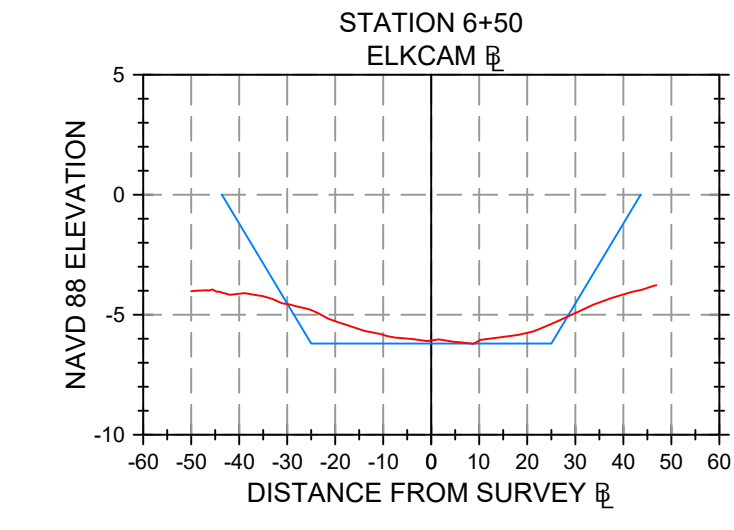
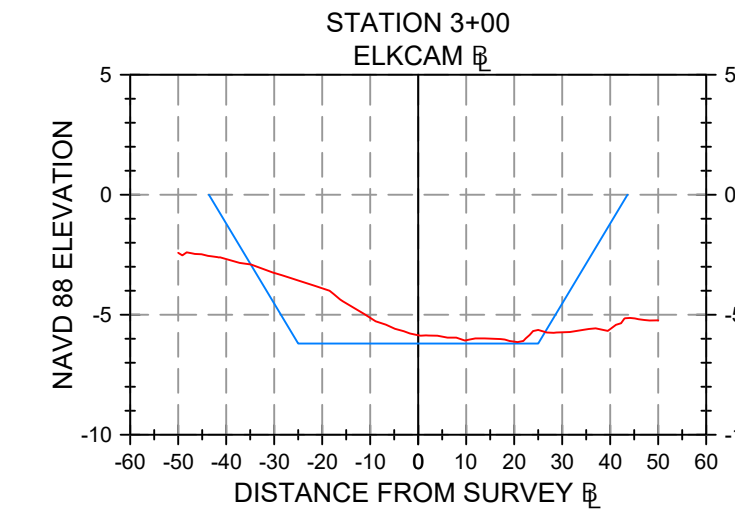
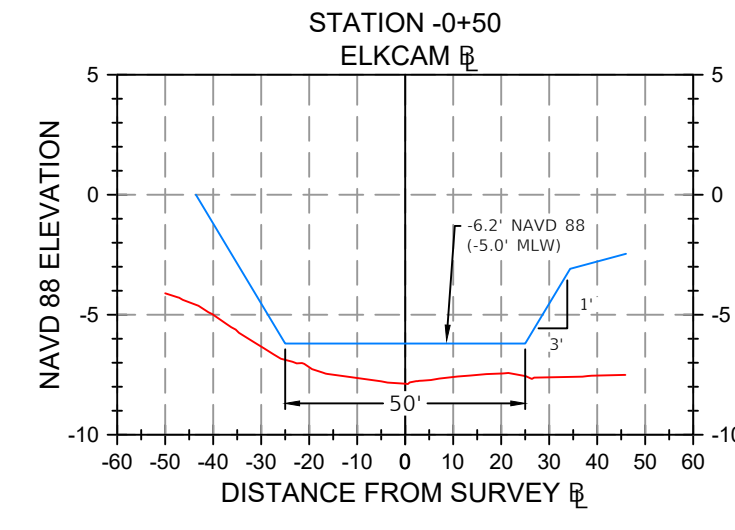
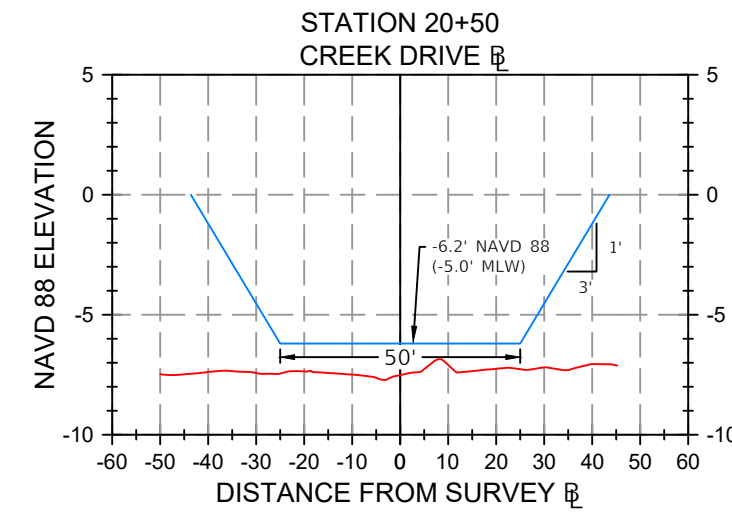
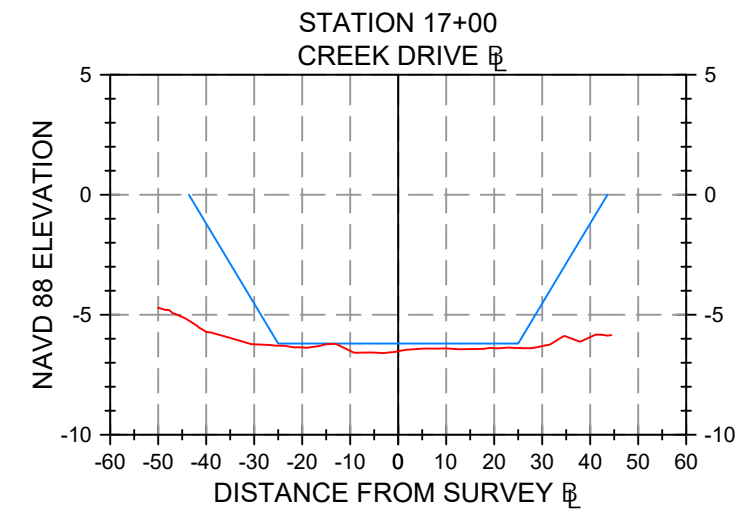
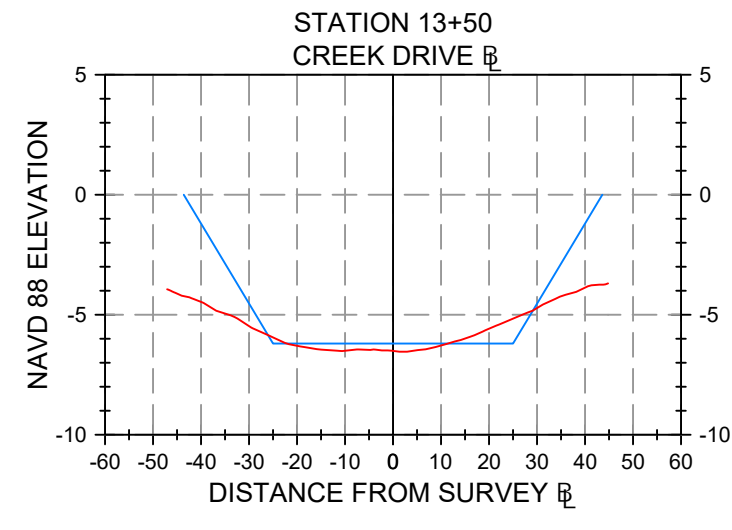
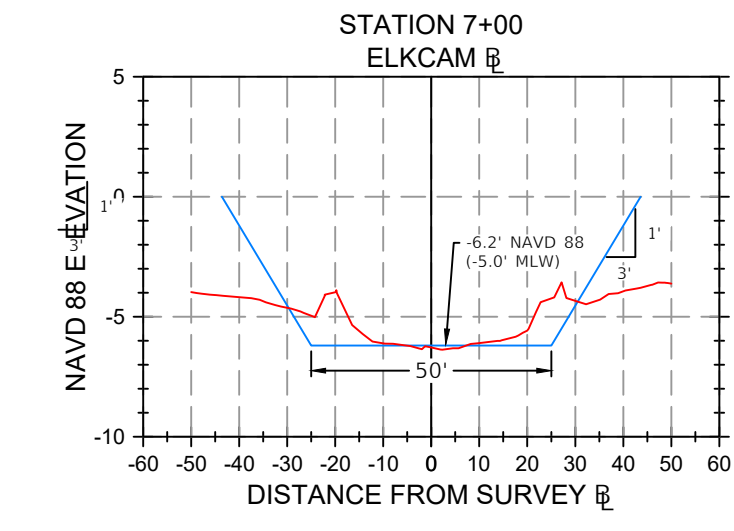
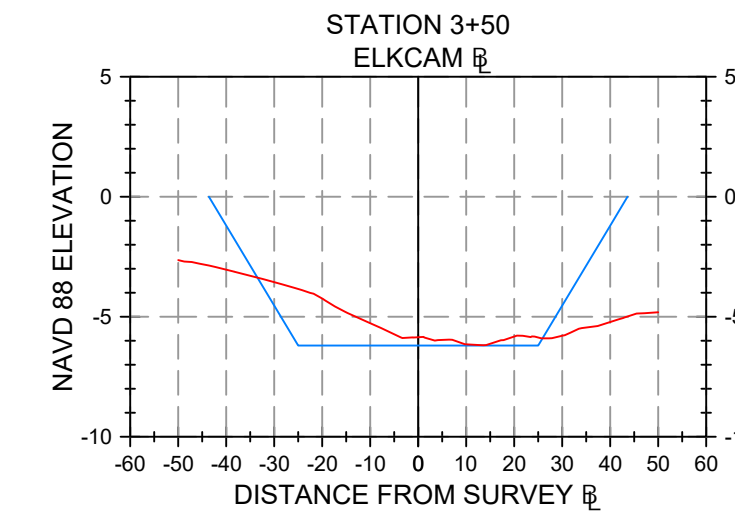
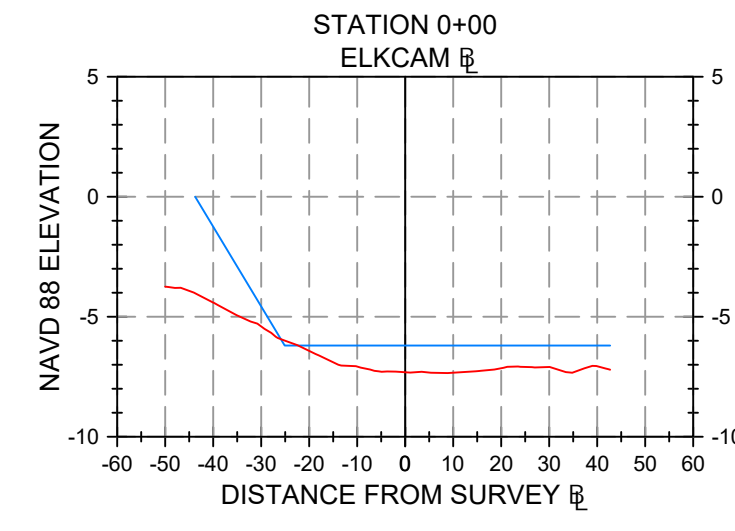
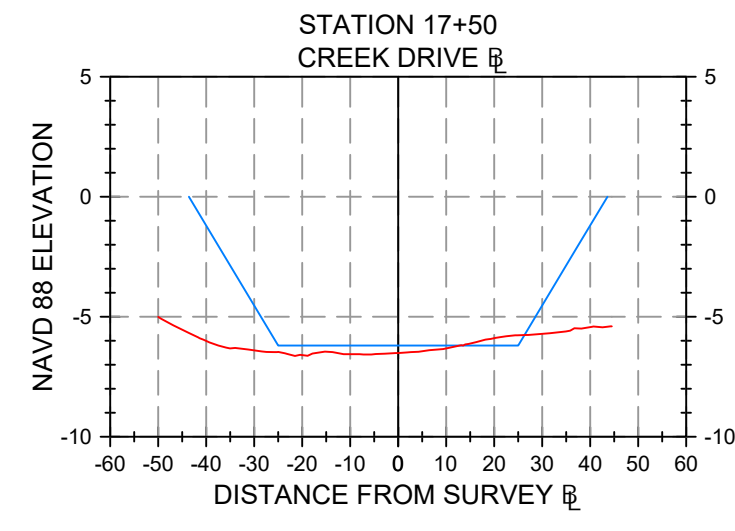
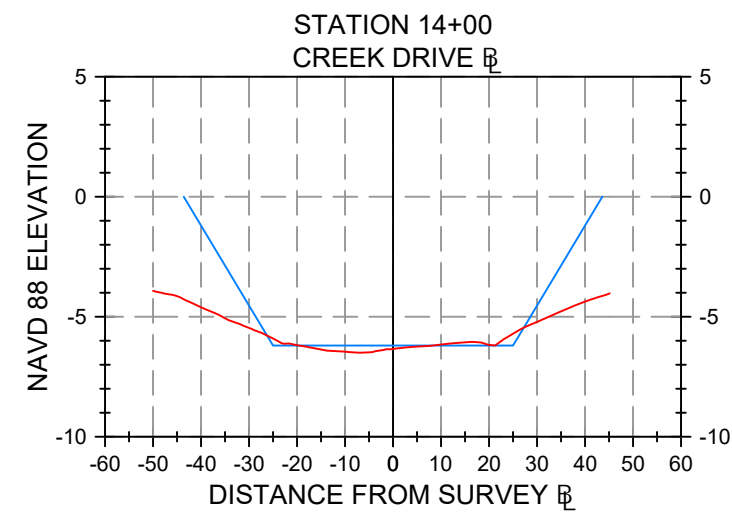
- = BASELINE
- = EXISTING BOTTOM SURFACE
- = DREDGE TEMPLATE
- = MEAN LOW WATER
- NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:  
 HORIZONTAL 1" = 40'  
 VERTICAL SCALE 1" = 8'

# HYDROGRAPHIC SURVEY

## BUENA VISTA WATERWAY

### CHARLOTTE COUNTY, FLORIDA



NO.	BY	REVISIONS
1		
2		
3		
4		
5		
6		
7		

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PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR  
 PREPARED BY: AIM ENGINEERING & SURVEYING, INC.  
 SEE SHEET 1  
 DARRIN TOWNSEND, REGISTERED PROFESSIONAL ENGINEER, FLORIDA LICENSE NO. 6476  
 PROJECT NO.: 1886  
 PAGE: 54-57

**AIM Engineering & Surveying, Inc.**  
 CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
 3151 FOWLER STREET, SUITE 100  
 FORT MYERS, FLORIDA 33901  
 www.aimengr.com

CERTIFICATE OF AUTHORIZATION No. 3114

DATE:	06-17-2025
CHECKED:	DT
DATE:	06-19-2025
DRAWN:	RH

CLIENT: CHARLOTTE COUNTY

PROJECT NO.	25-2079_HYDRO
COUNTY	CHARLOTTE
TOWNSHIP	S
RANGE	E
SHEET	10
OF	17

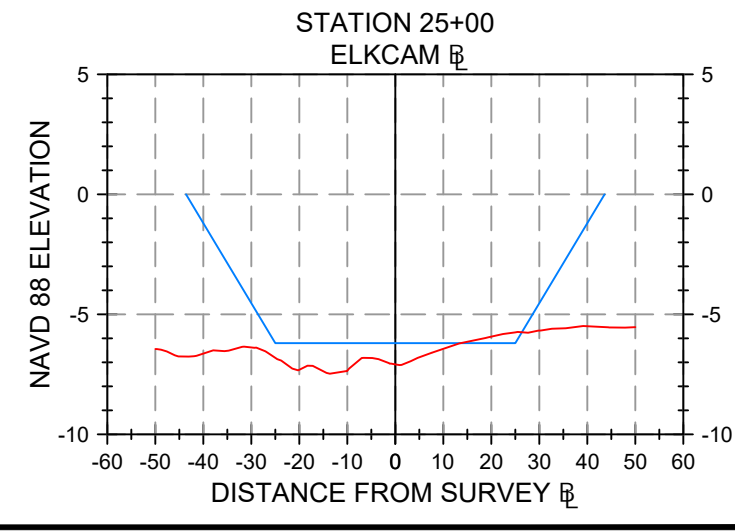
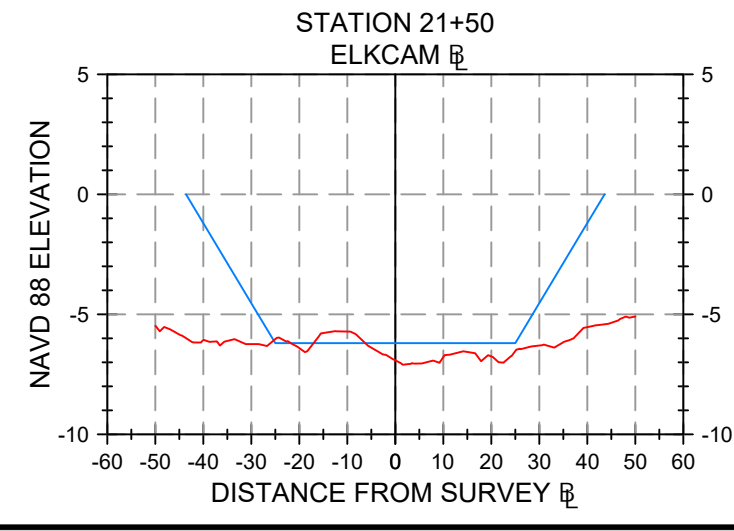
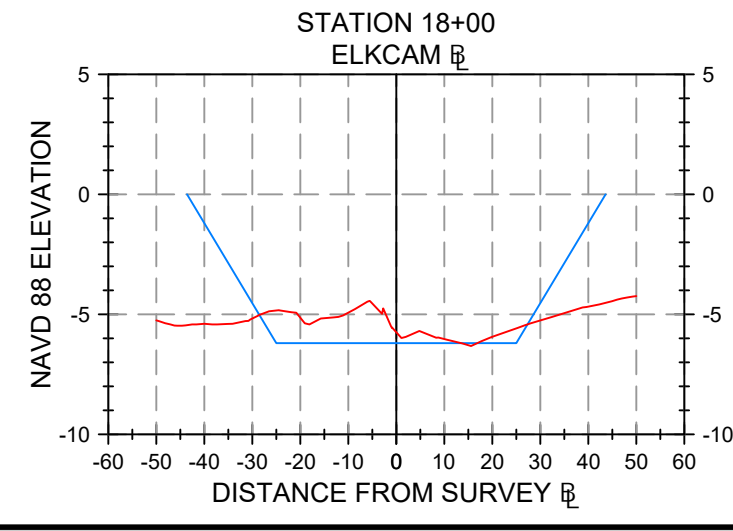
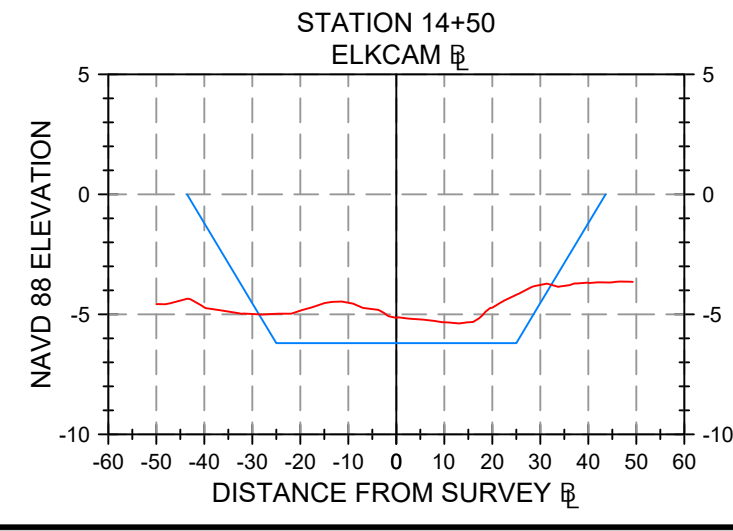
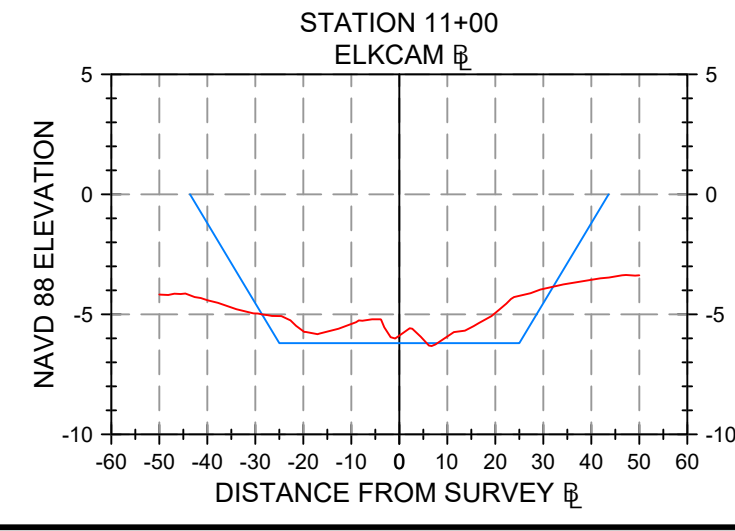
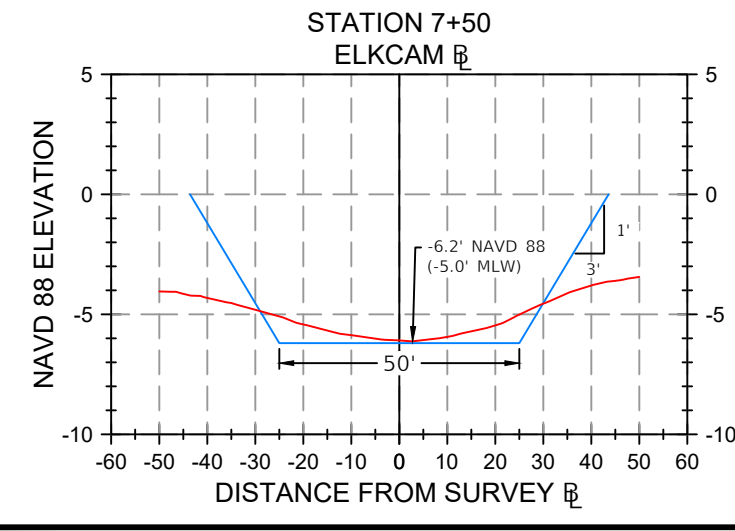
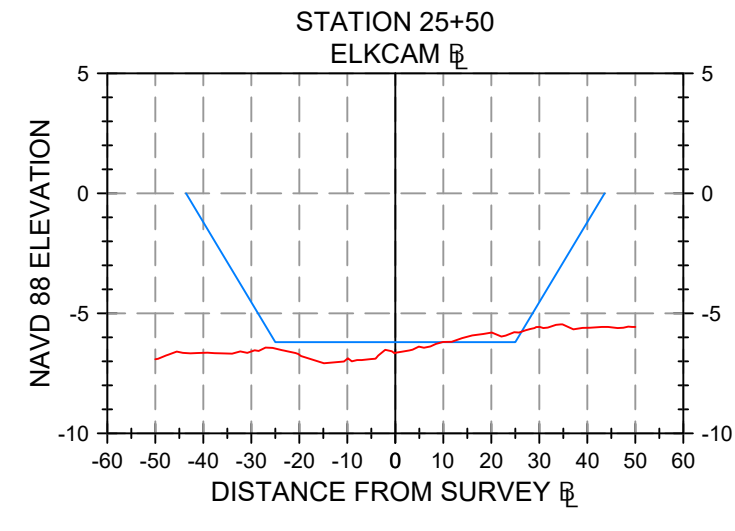
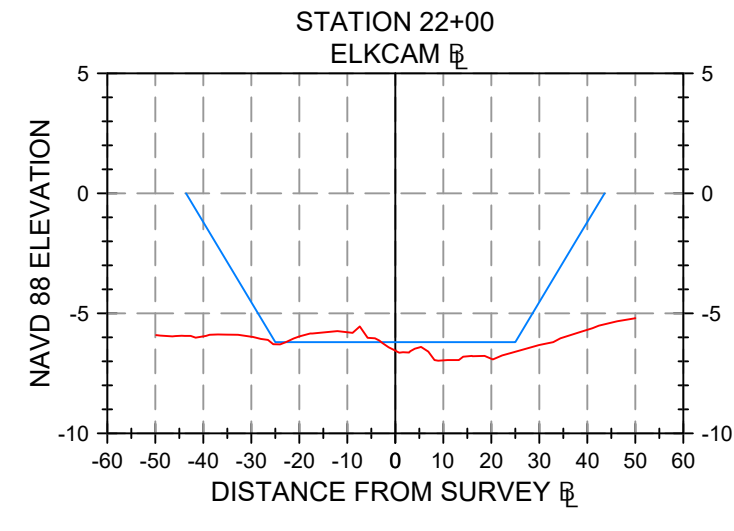
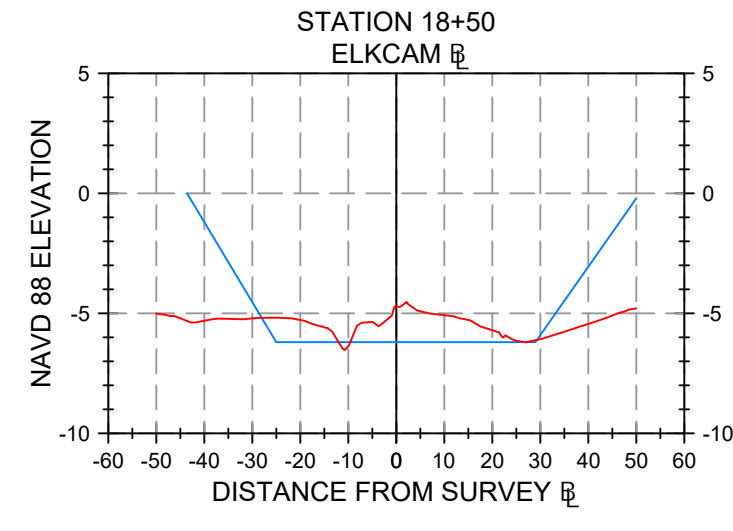
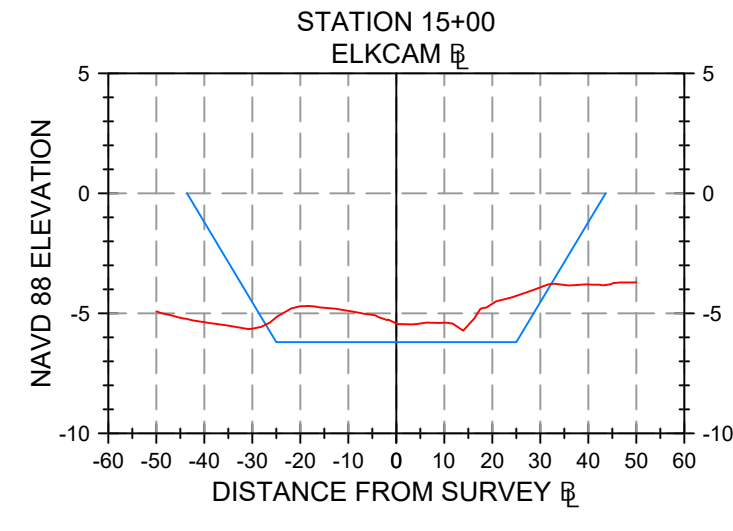
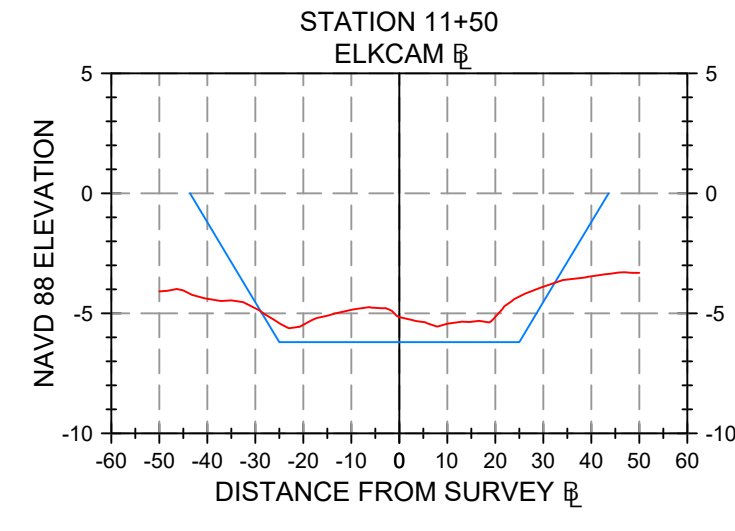
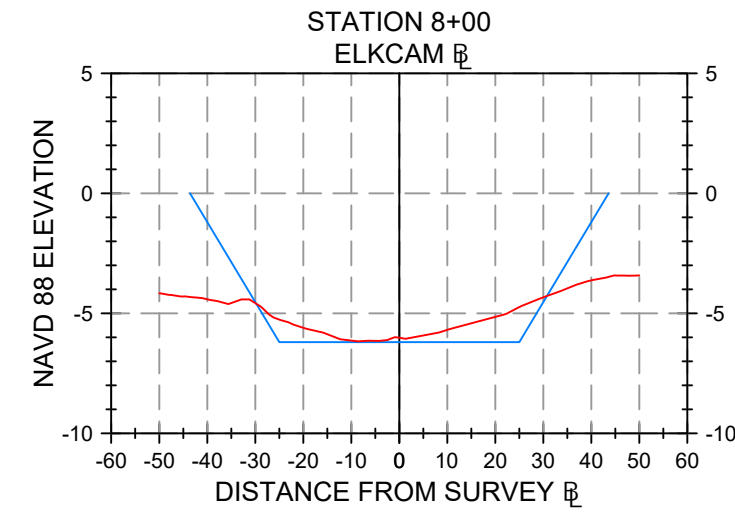
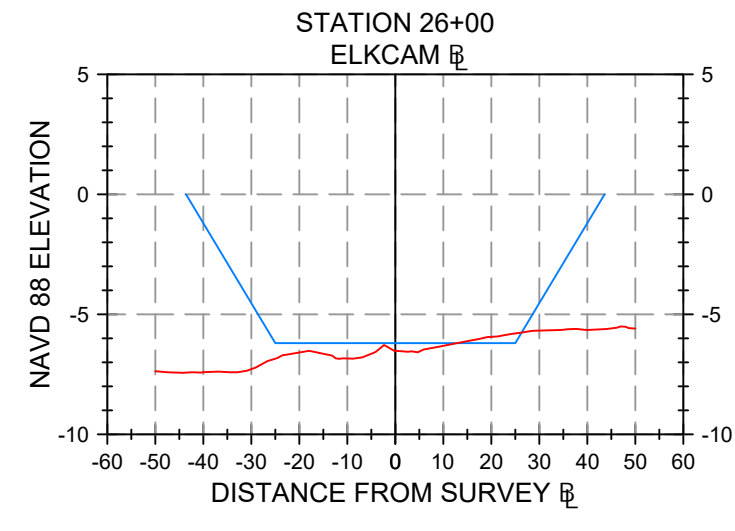
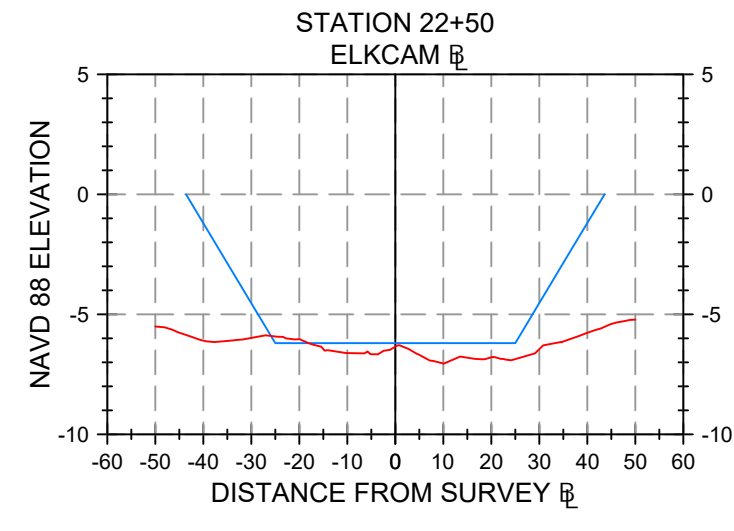
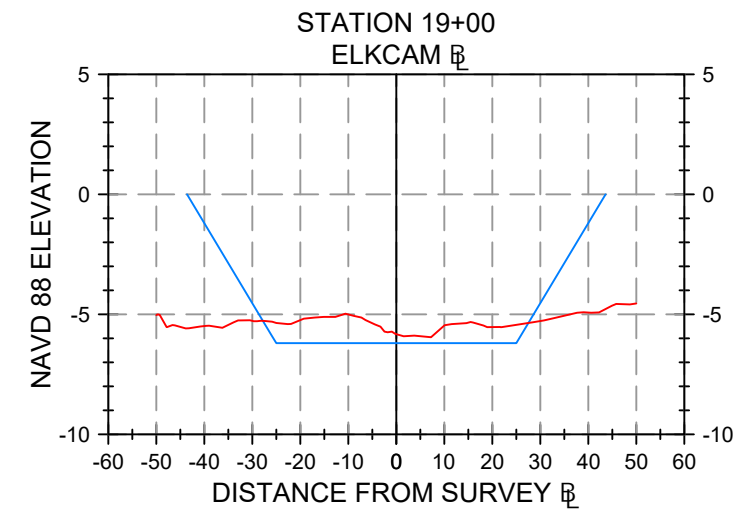
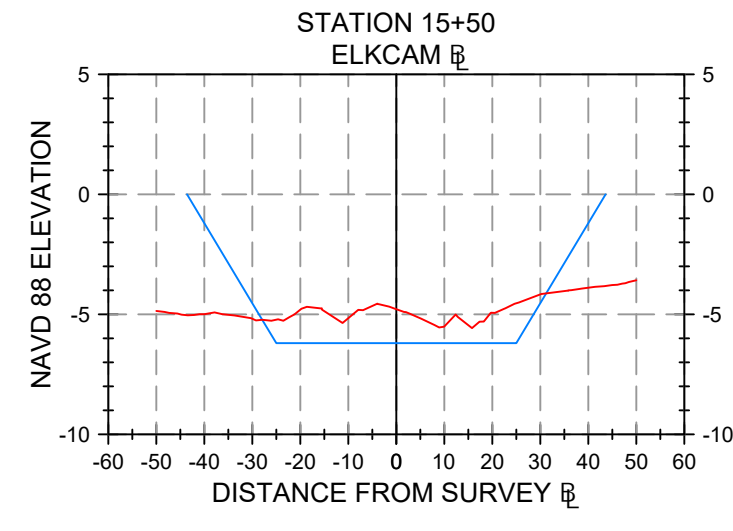
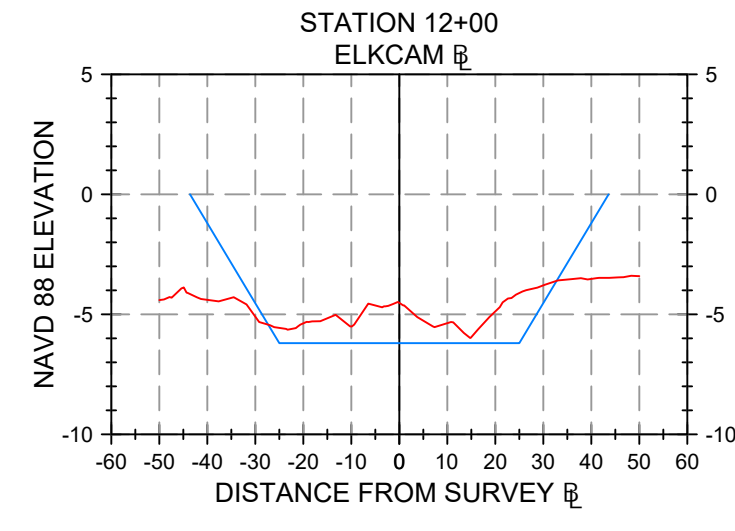
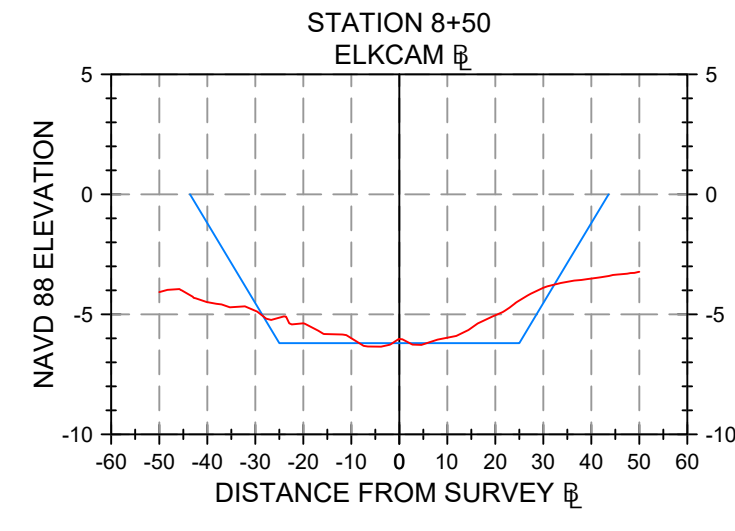
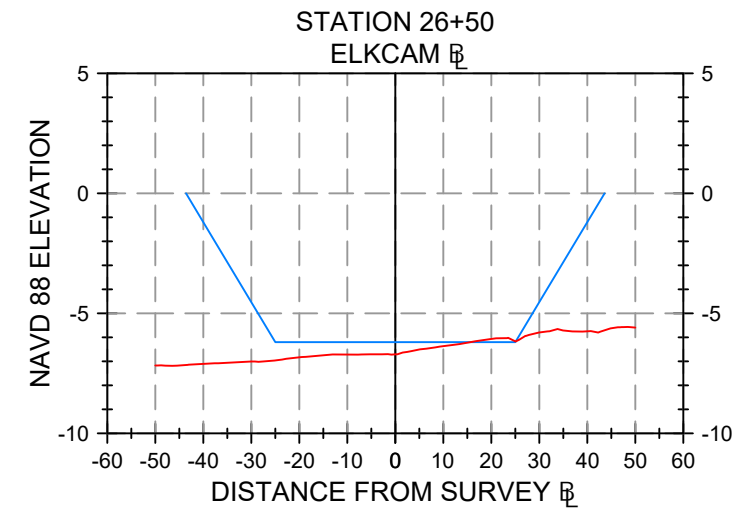
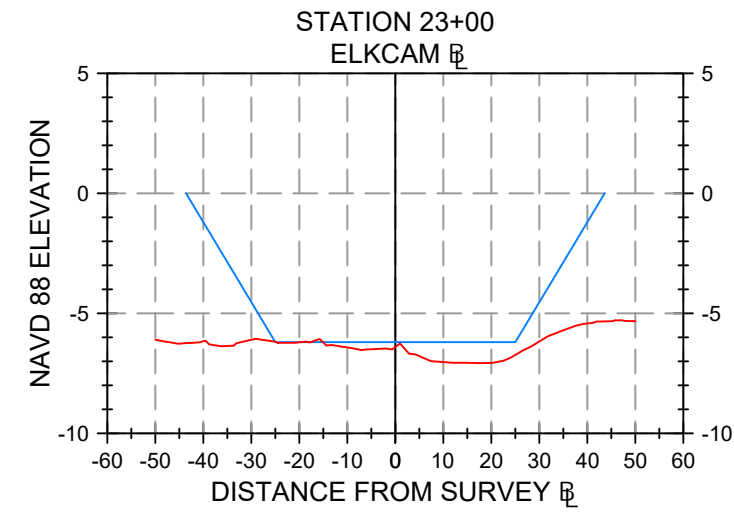
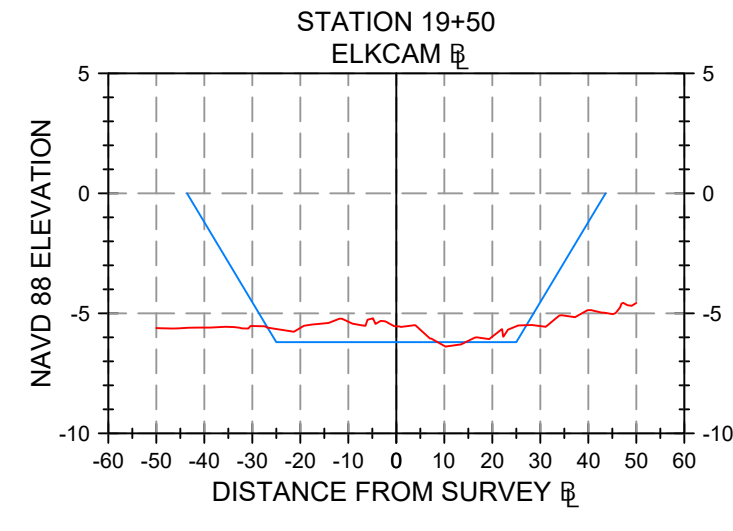
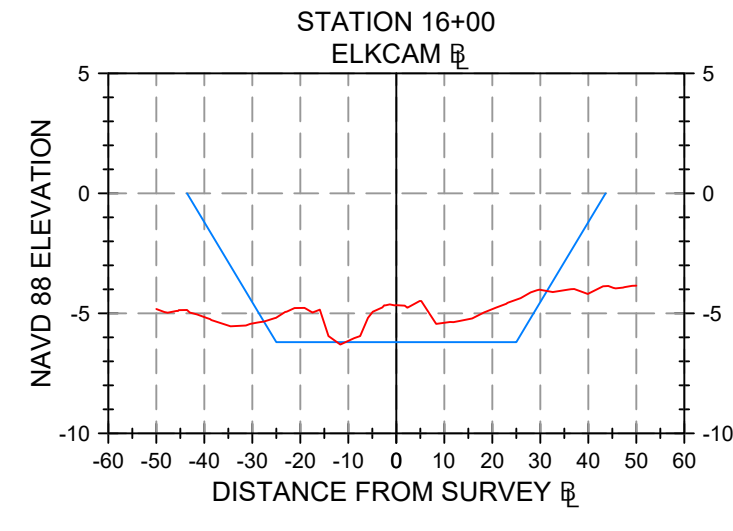
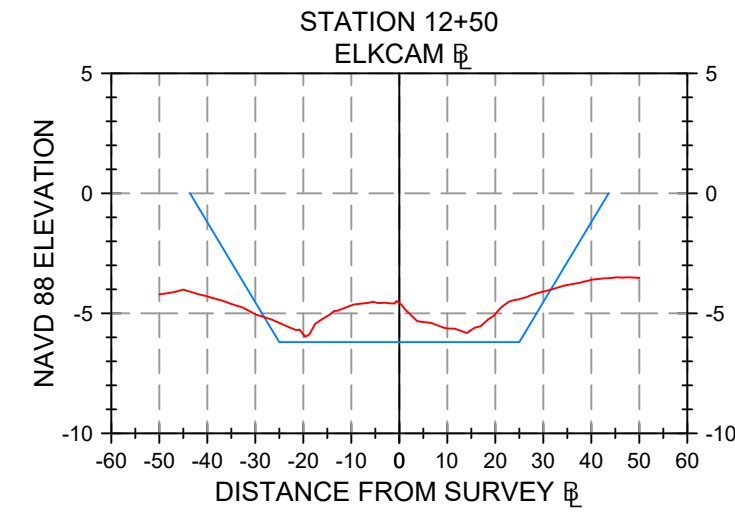
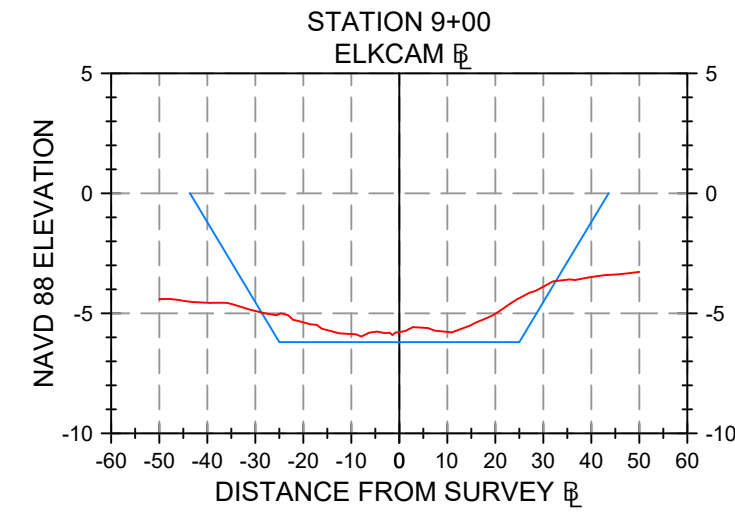
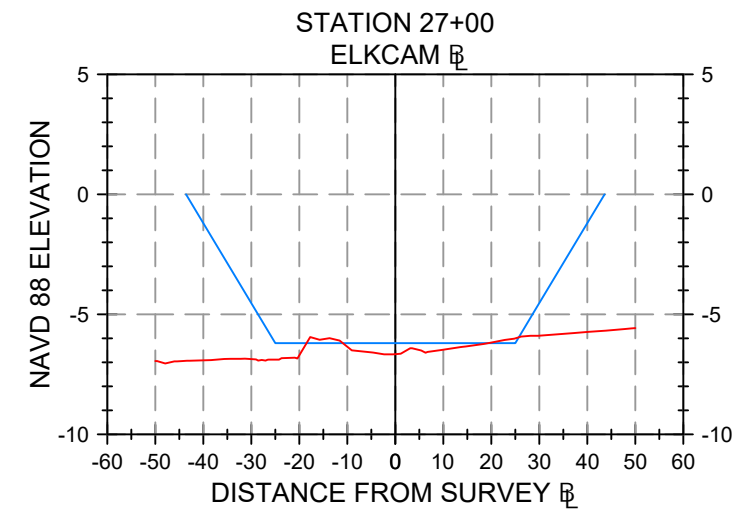
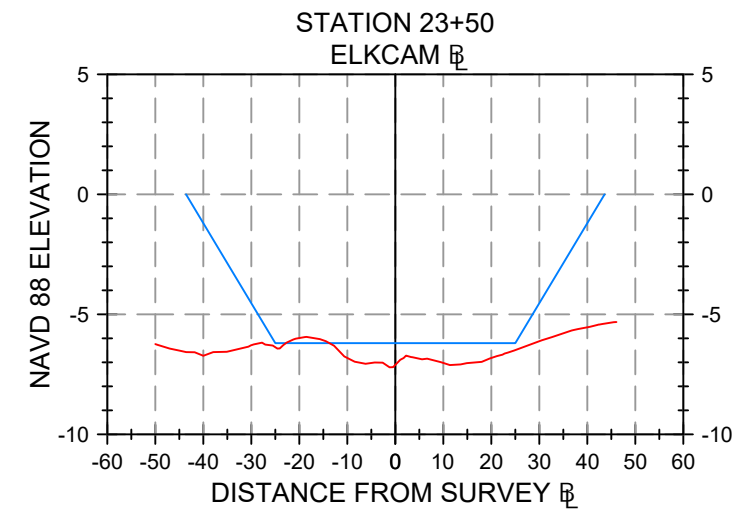
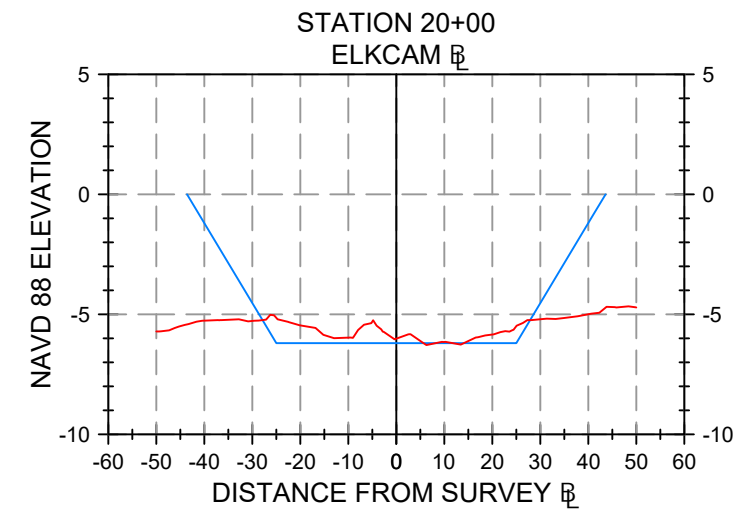
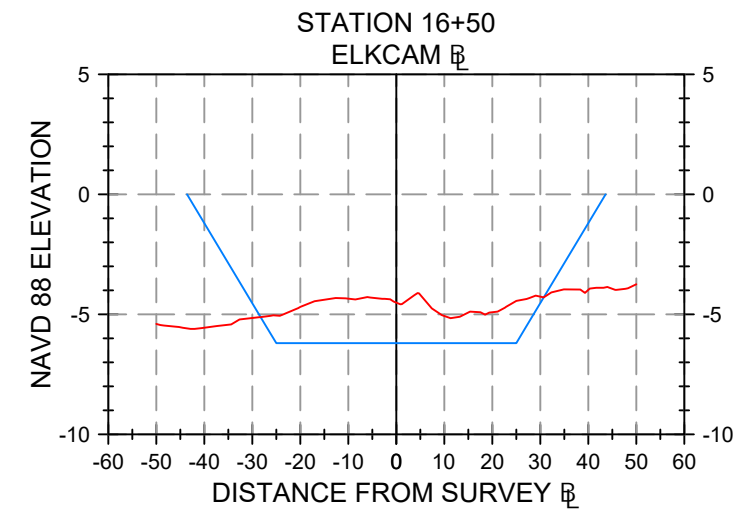
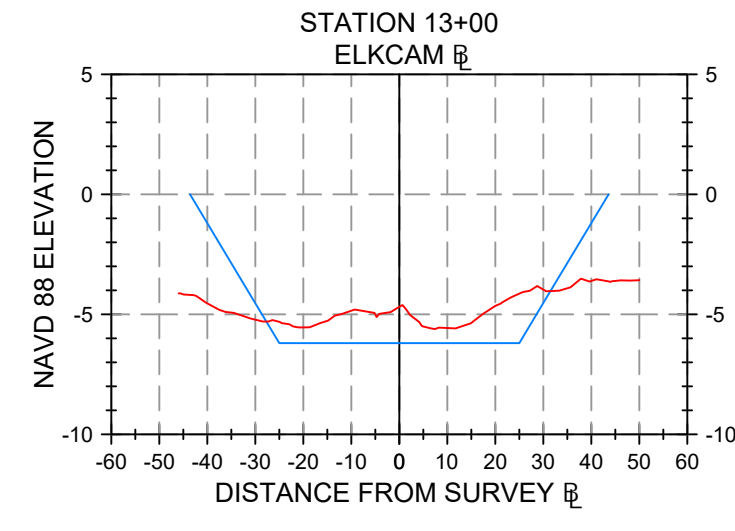
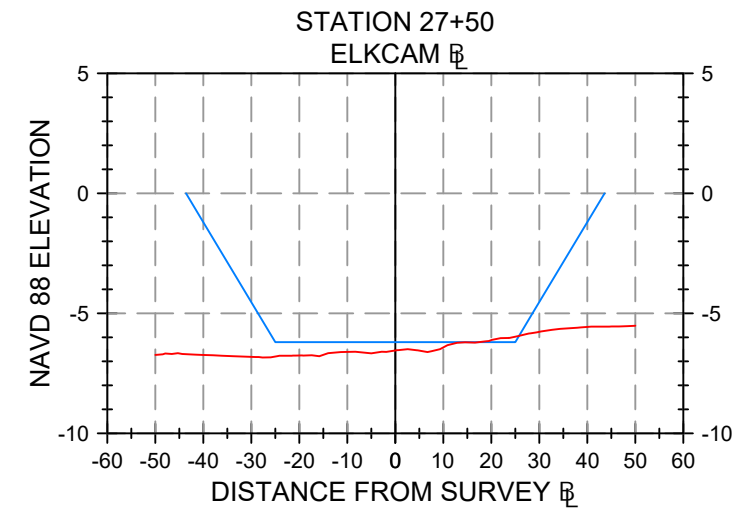
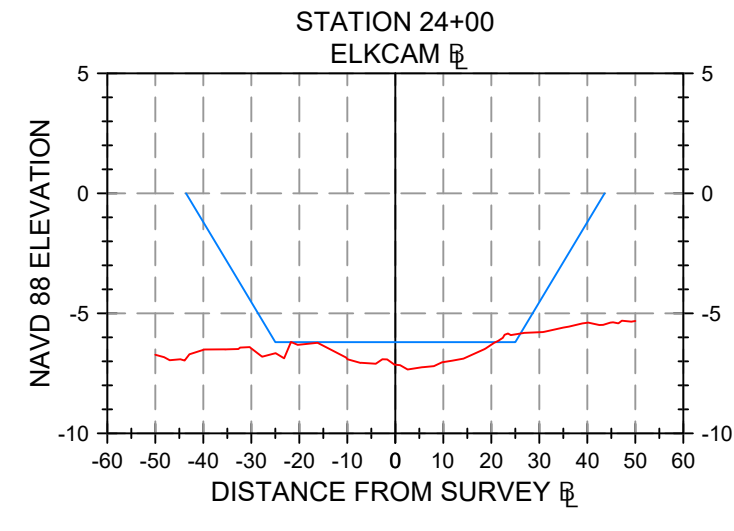
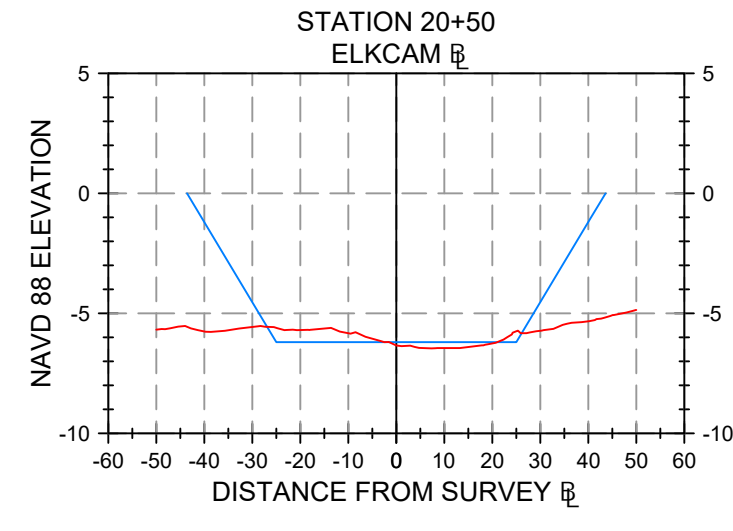
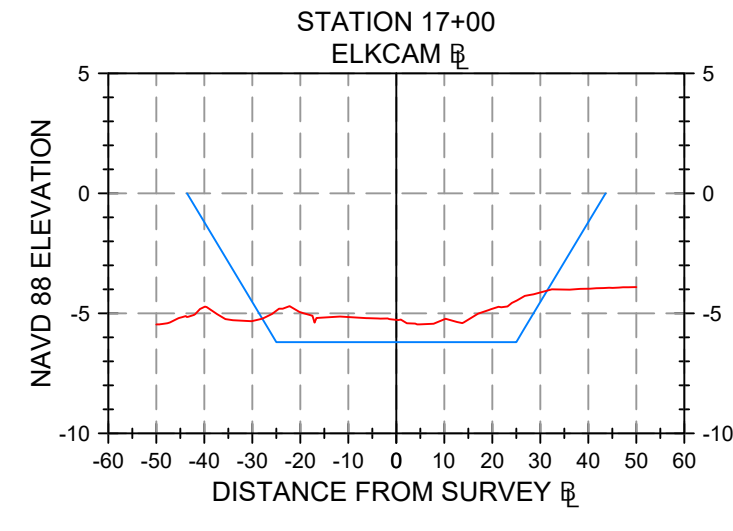
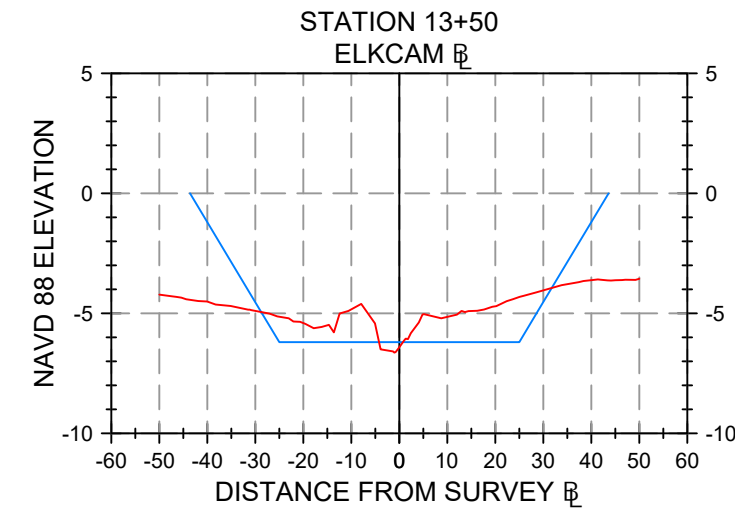
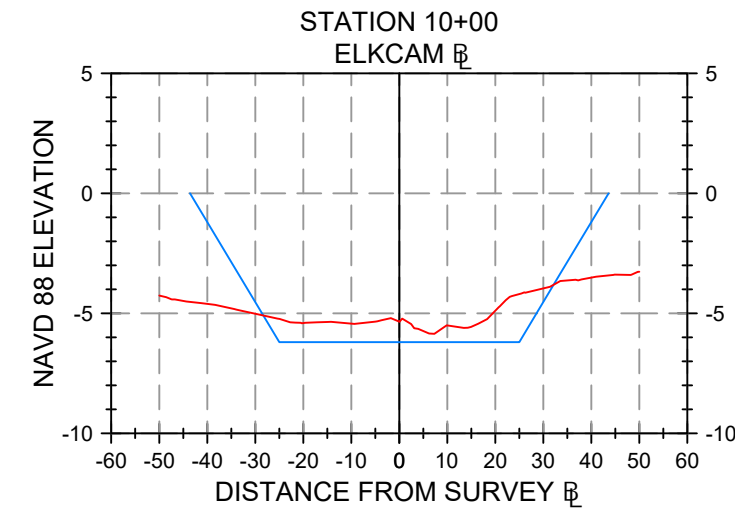
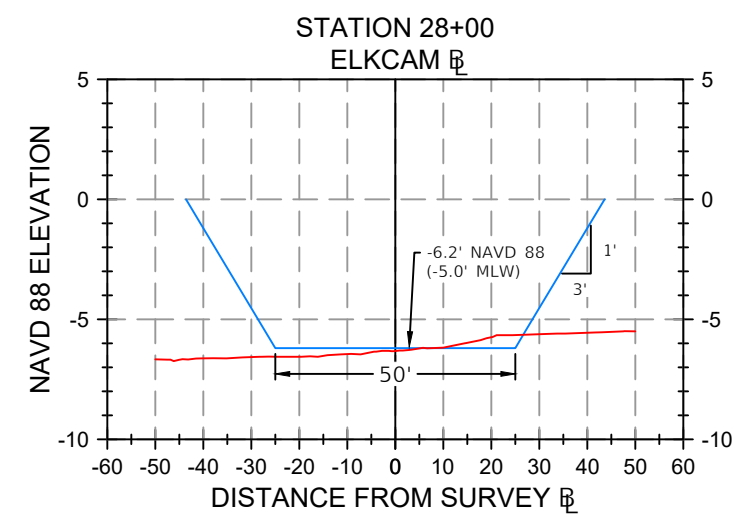
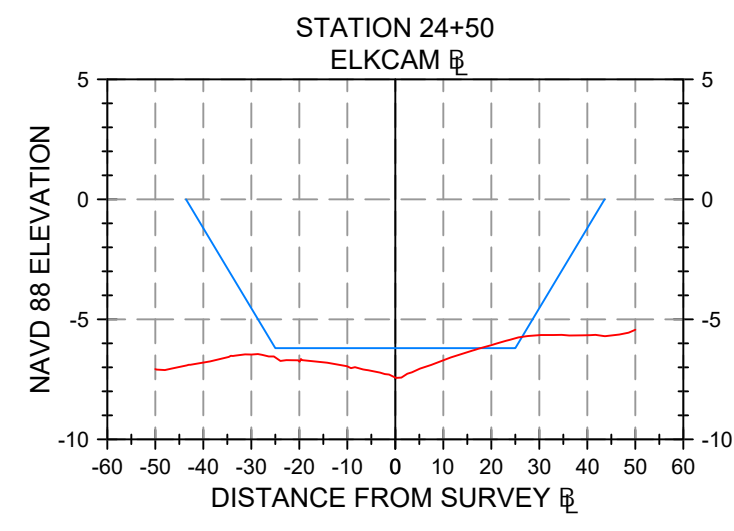
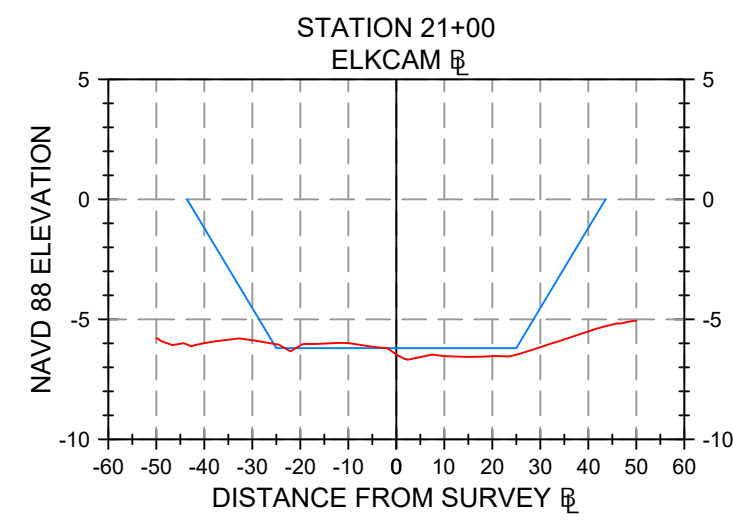
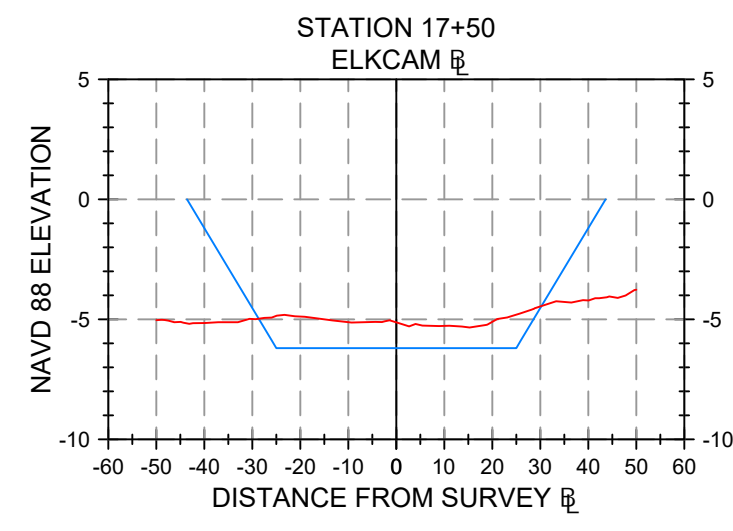
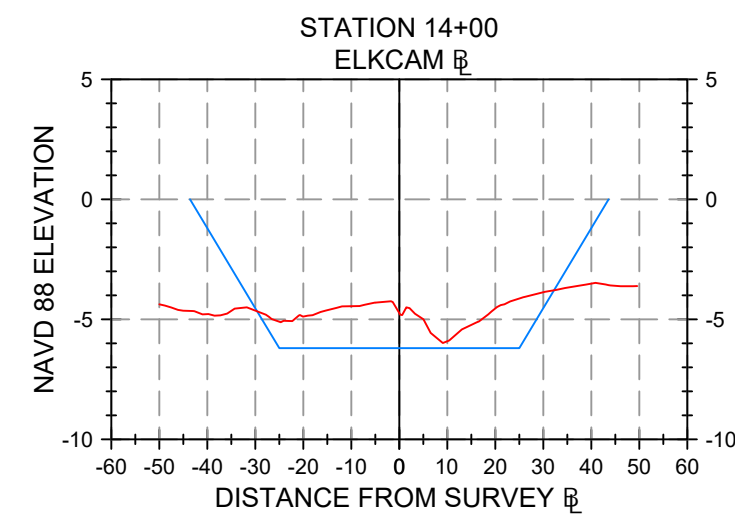
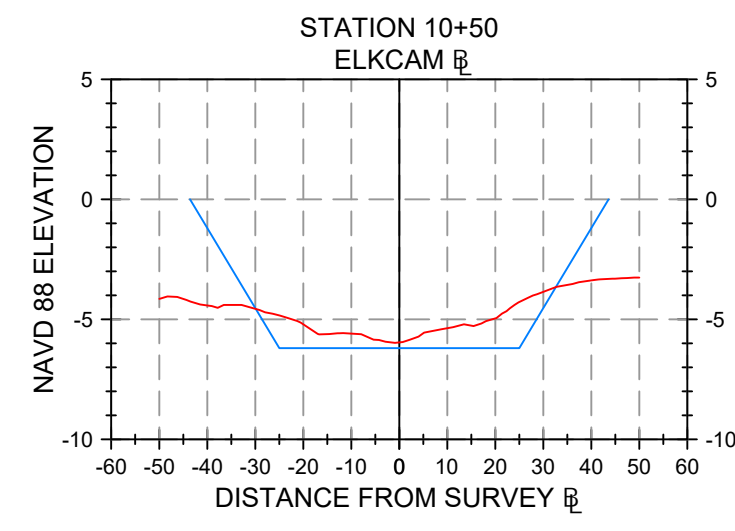
SECTION SHEET LEGEND:

- = BASELINE
- = EXISTING BOTTOM SURFACE
- = DREDGE TEMPLATE
- = MEAN LOW WATER
- NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:  
 HORIZONTAL 1" = 40'  
 VERTICAL SCALE 1" = 8'

# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
 CHARLOTTE COUNTY, FLORIDA



		<b>AIM Engineering &amp; Surveying, Inc.</b> CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com		CLIENT: CHARLOTTE COUNTY	
PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		PREPARED BY: AIM ENGINEERING & SURVEYING, INC.		DATE: 06-17-2025	
ANY REVISIONS, ALTERATIONS, AND/OR CHANGES TO DRAWING(S) MUST BE APPROVED BY THE ORIGINAL DESIGNER AND THE ORIGINAL SURVEYING ENGINEER. THIS DRAWING IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF AIM ENGINEERING & SURVEYING, INC.		SEE SHEET 1		DT: 06-19-2025	
FIELD BOOK: 1886		PROJECT NO.: 25-2079_HYDRO		SHEET: 11	
PROJECT NO.: 25-2079_HYDRO		COUNTY: CHARLOTTE		OF: 17	
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NO. 4		NO. 5		NO. 6	
NO. 7		NO. 8		NO. 9	
REVISIONS:		DATE:		BY:	
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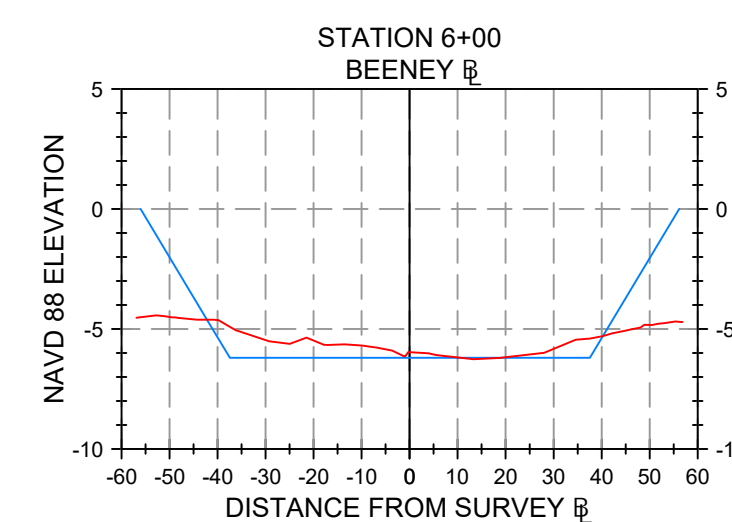
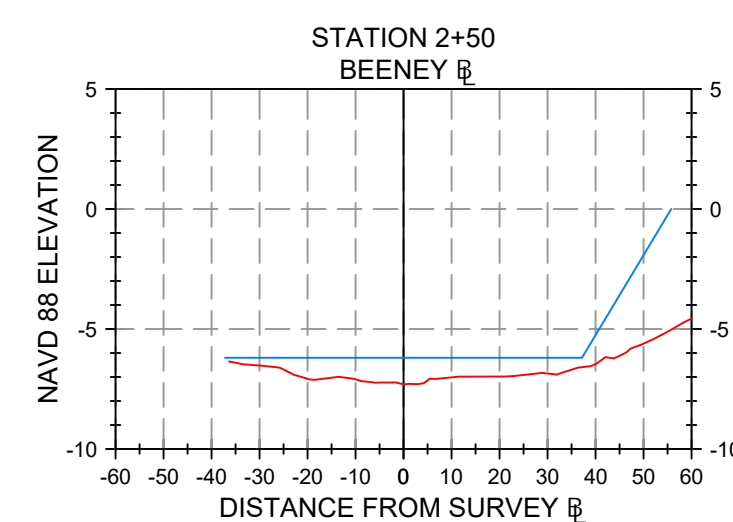
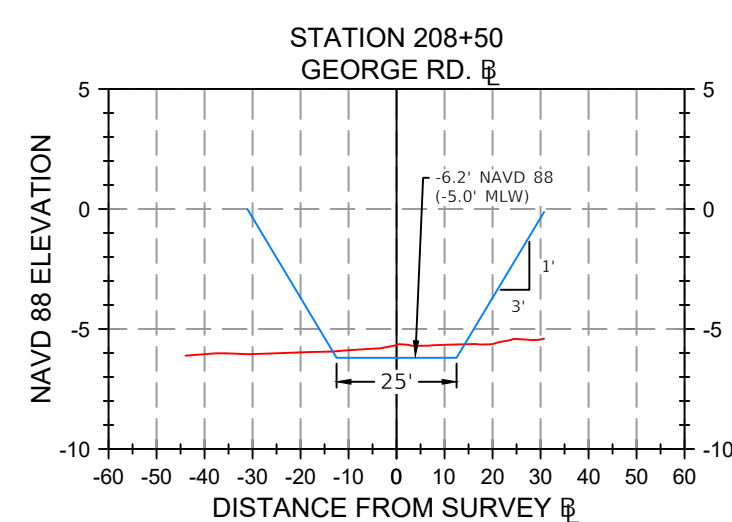
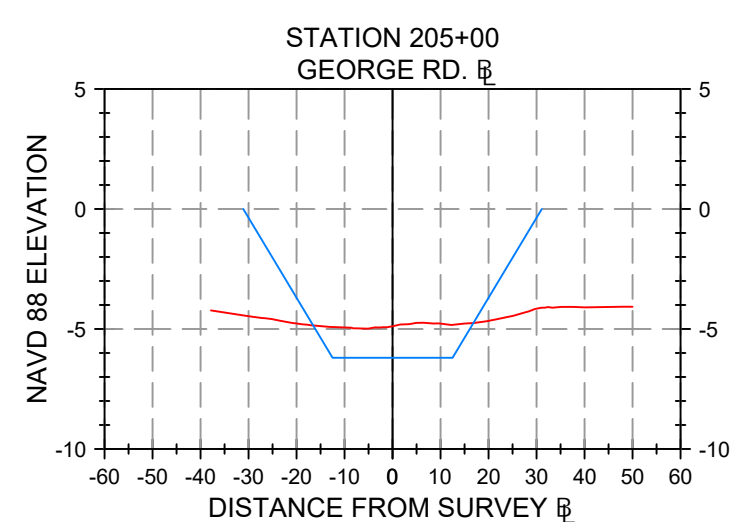
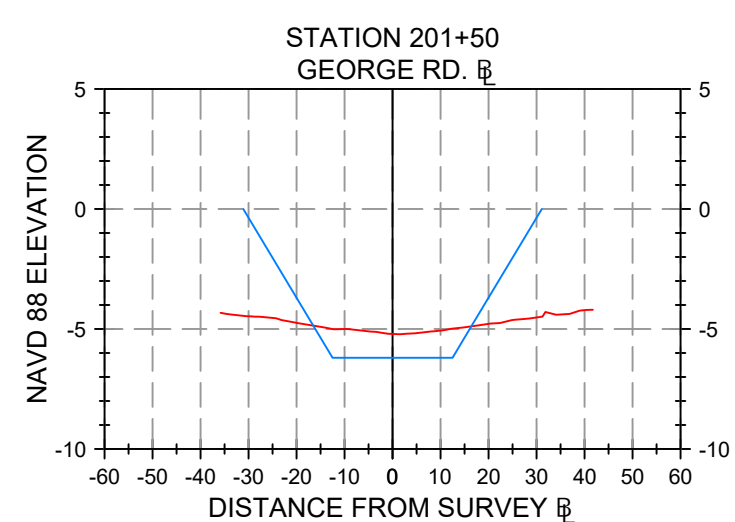
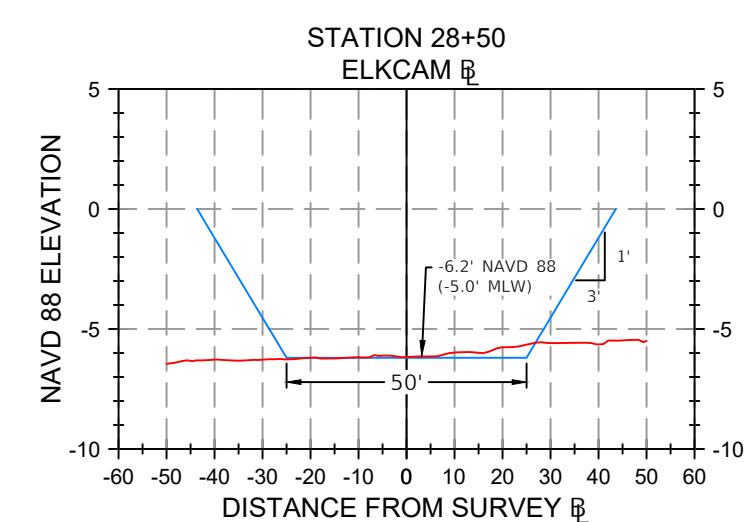
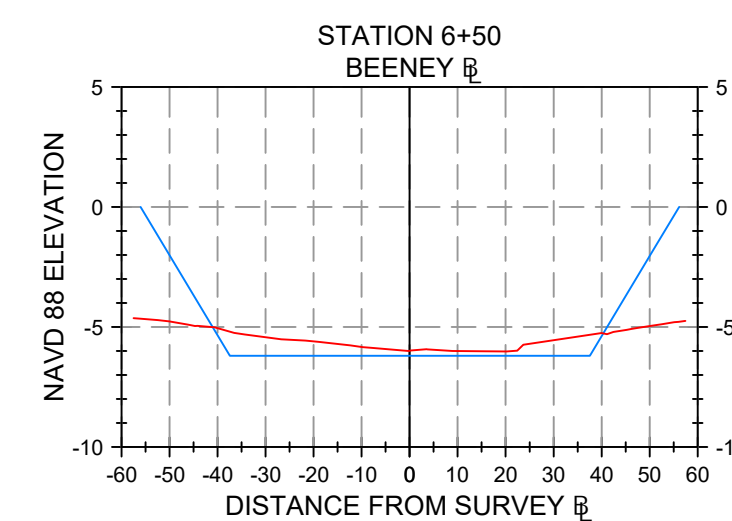
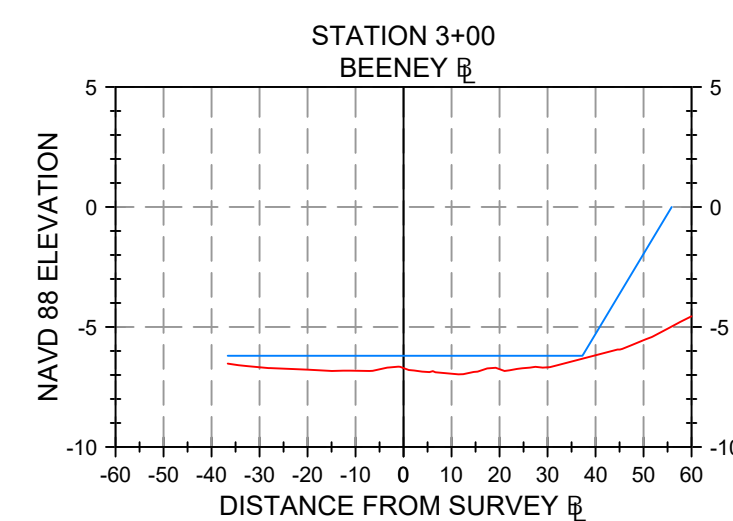
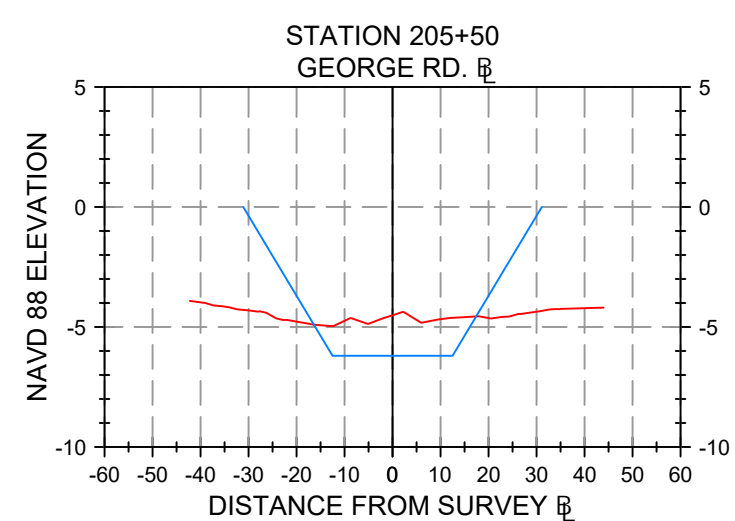
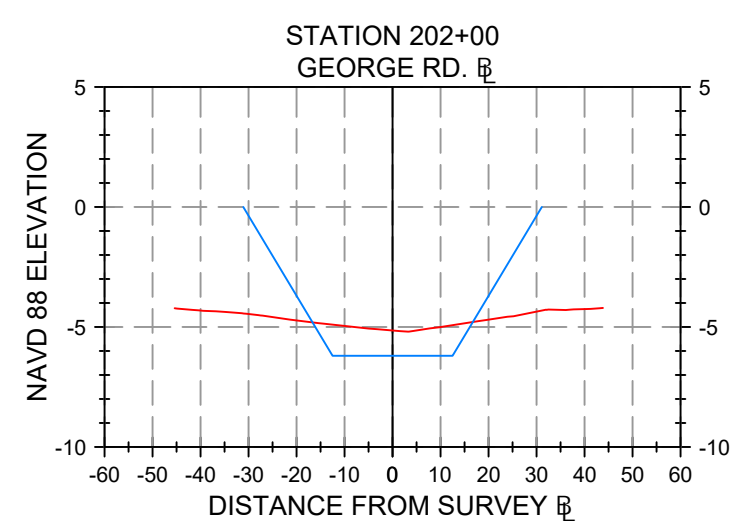
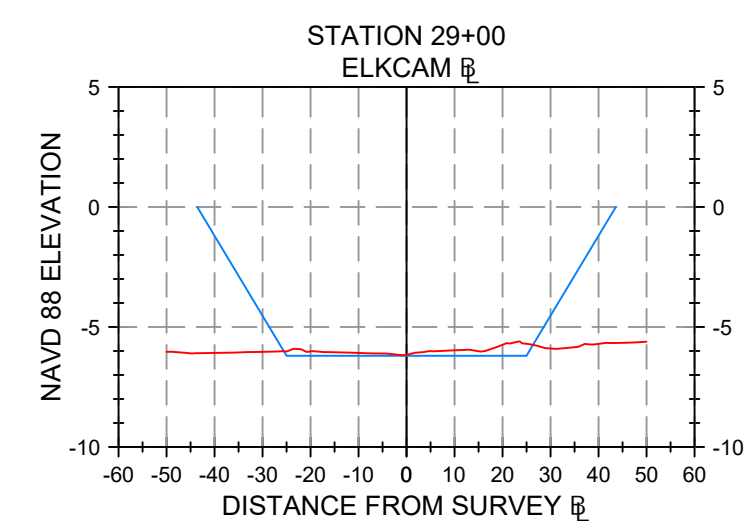
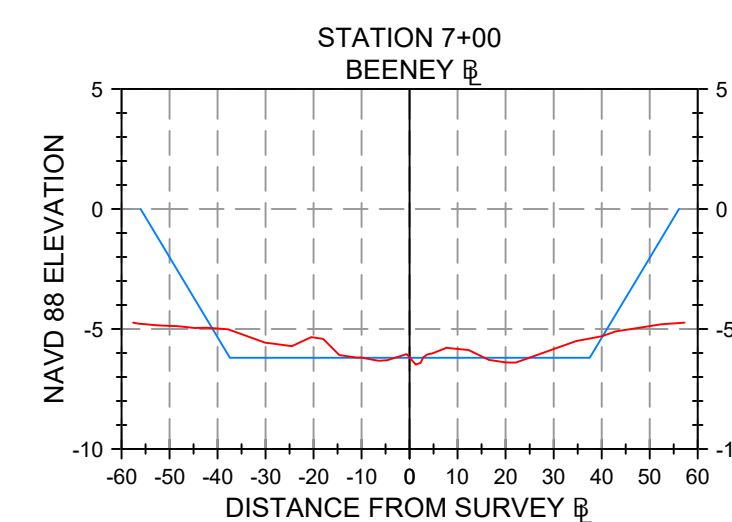
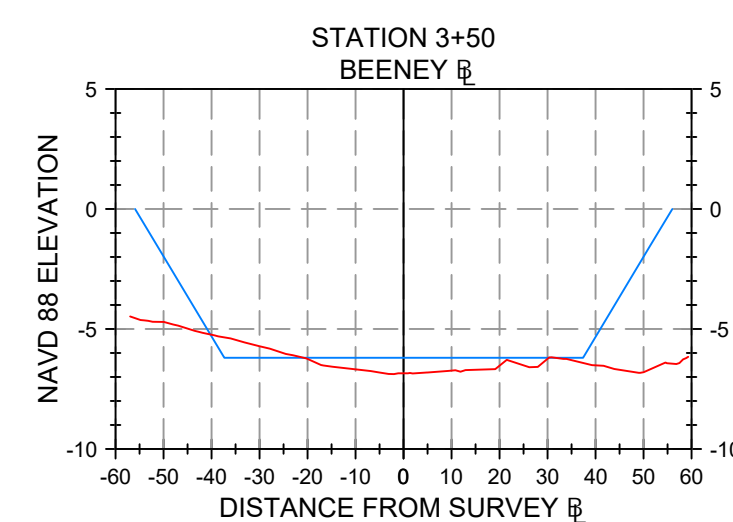
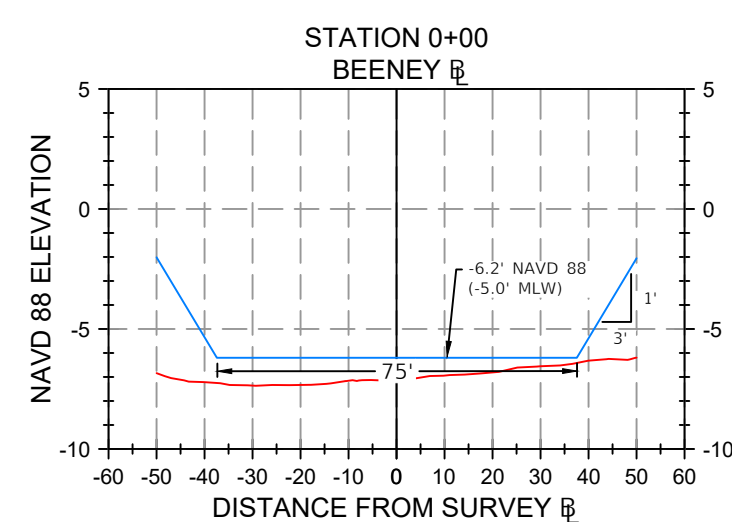
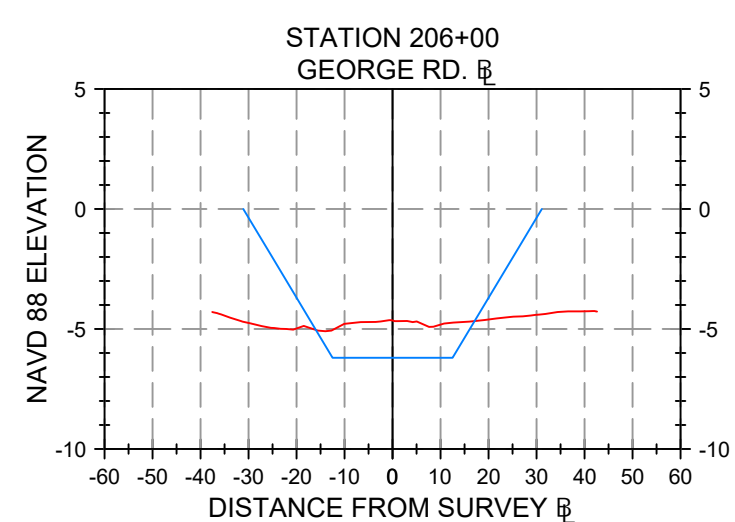
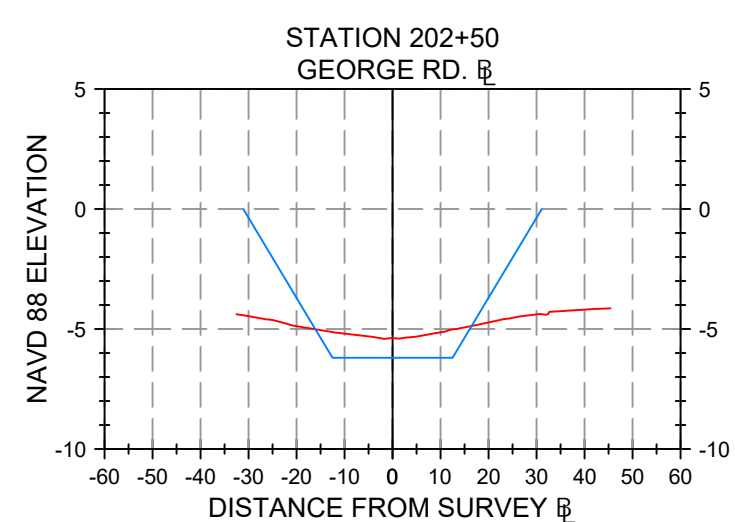
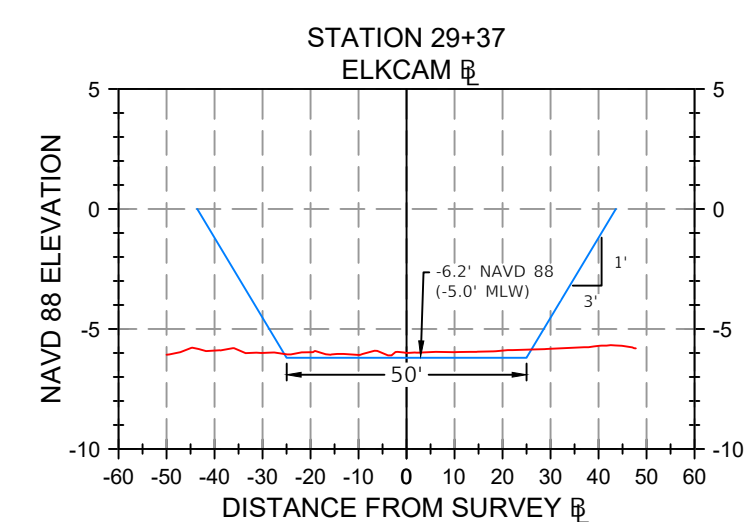
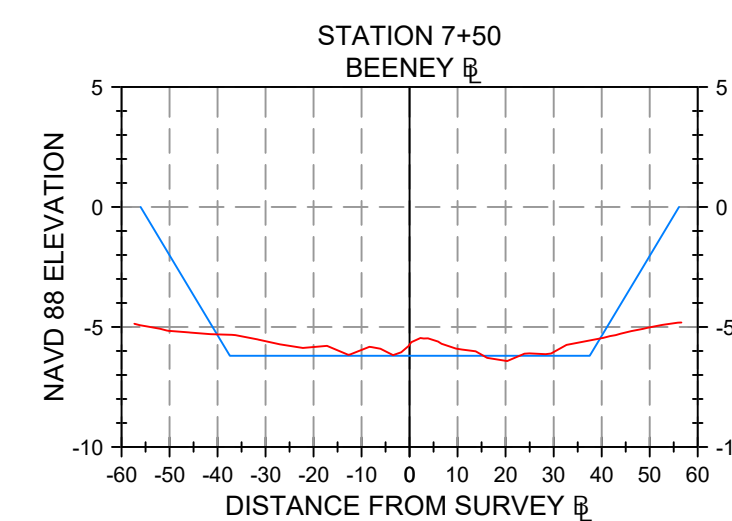
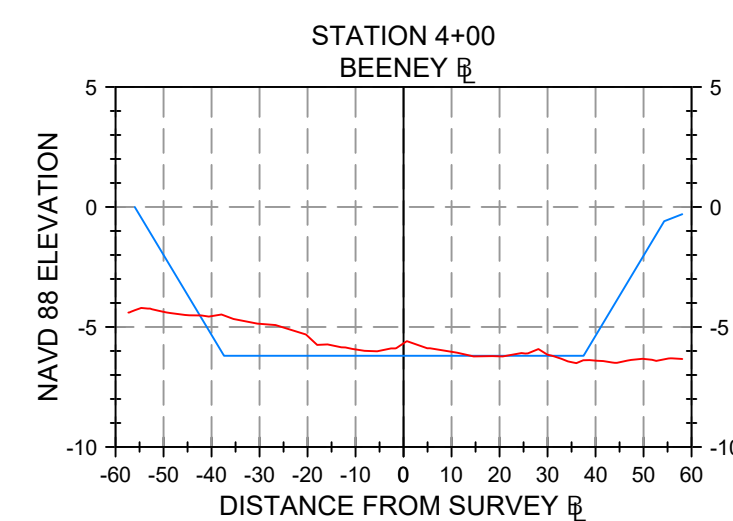
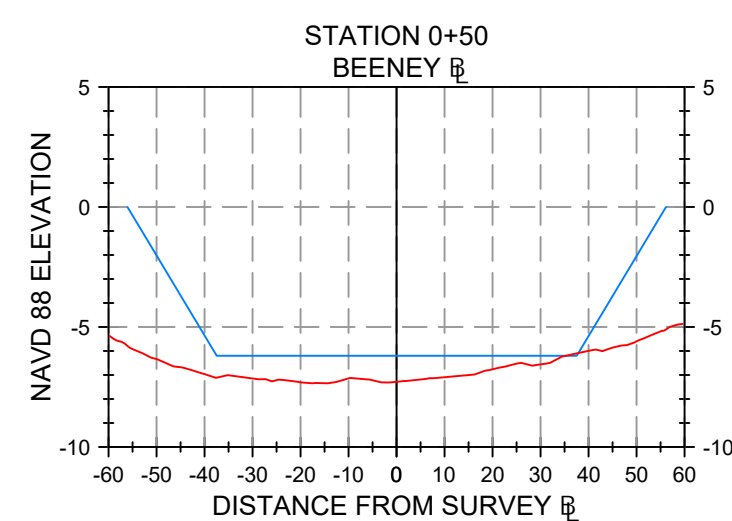
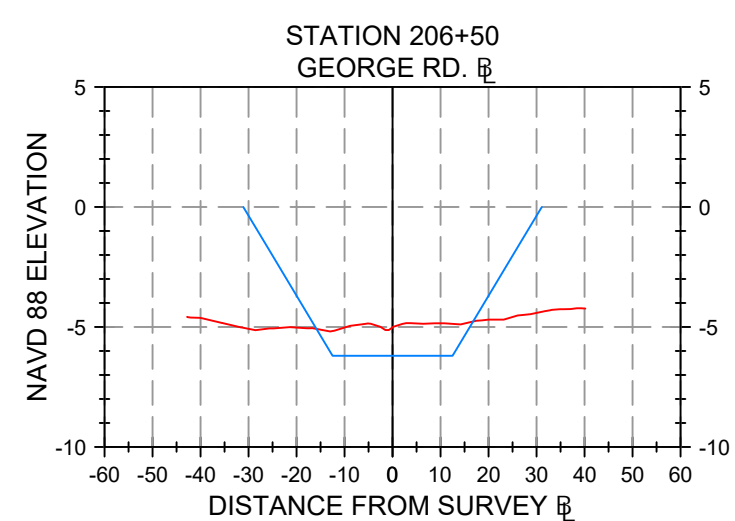
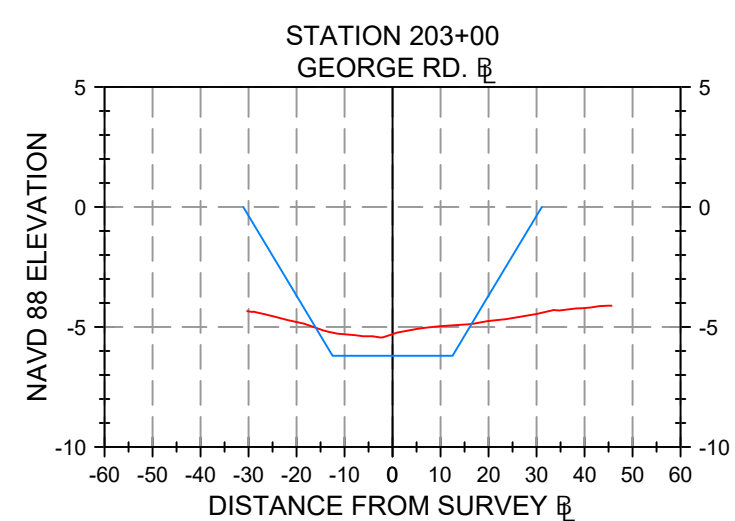
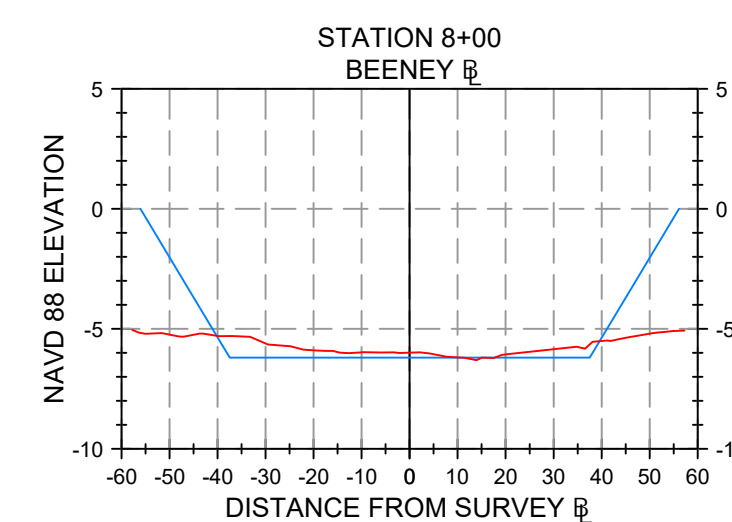
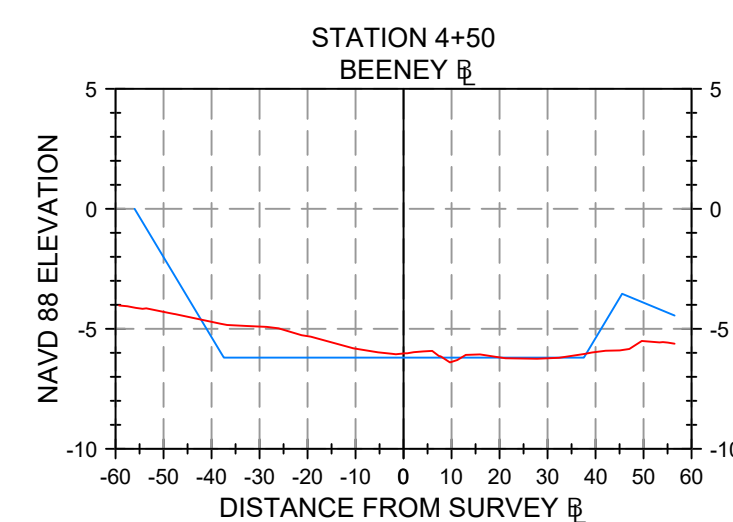
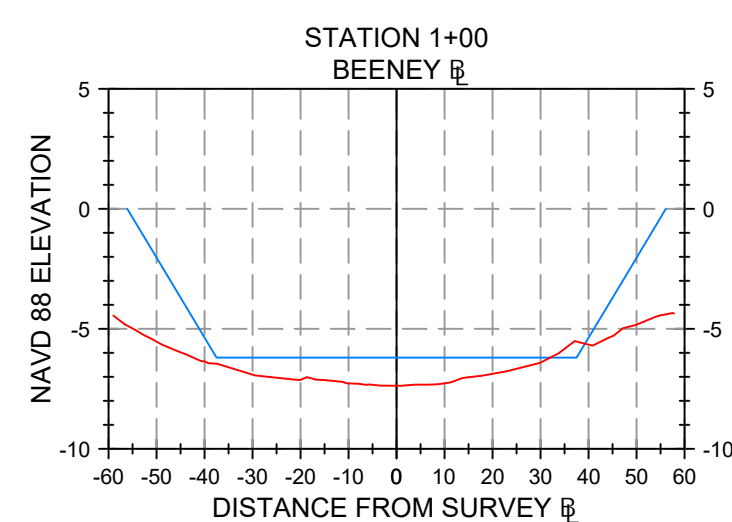
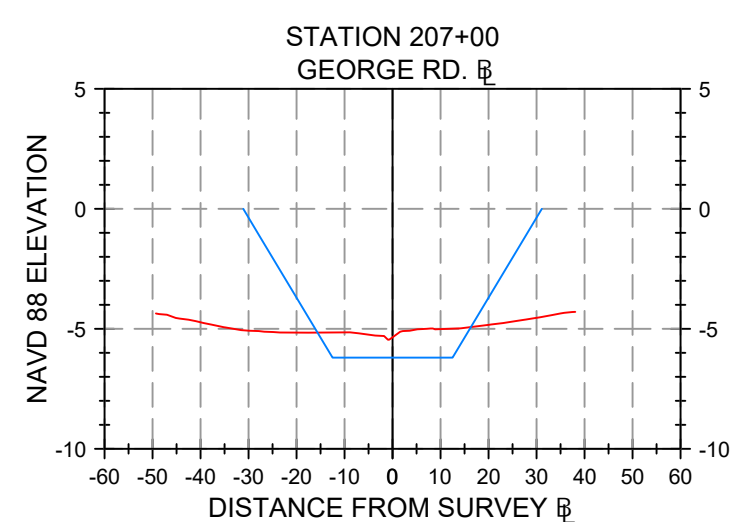
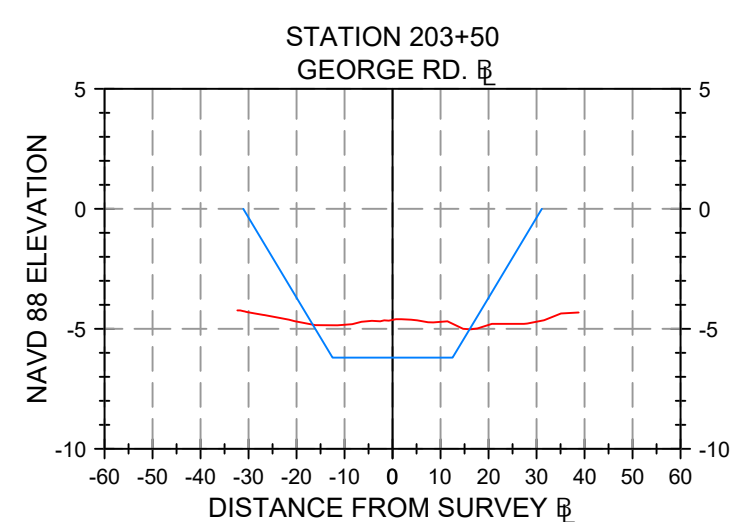
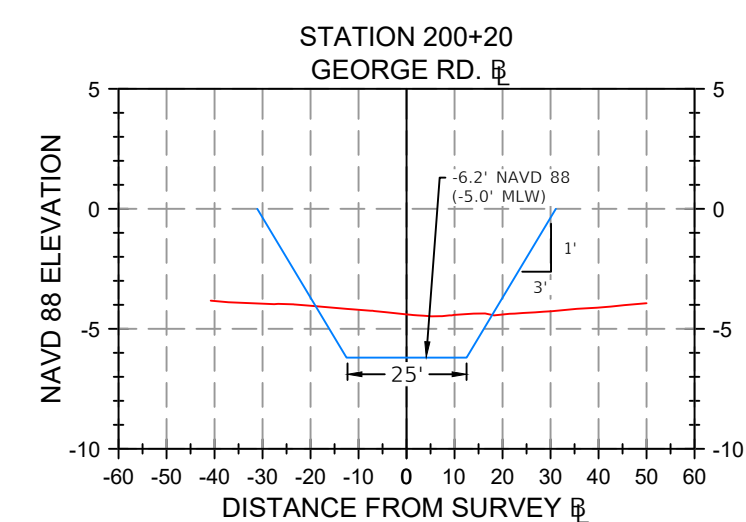
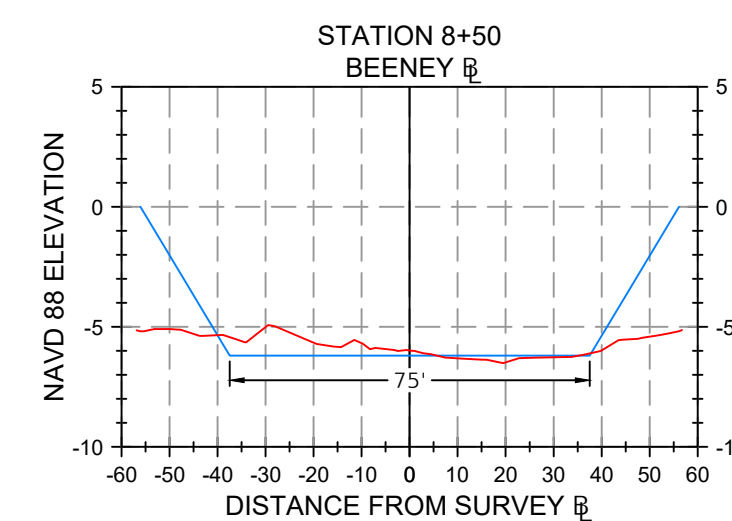
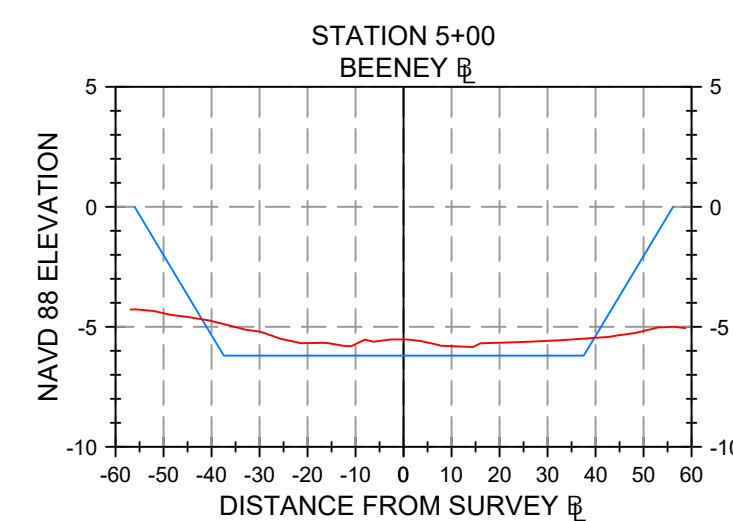
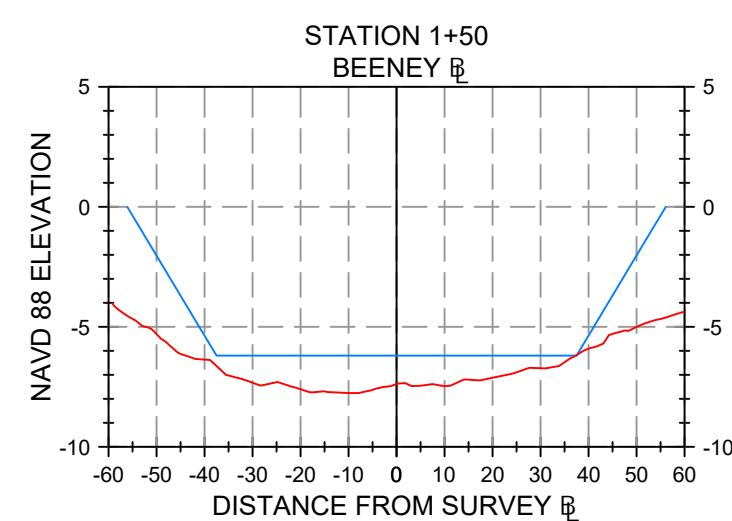
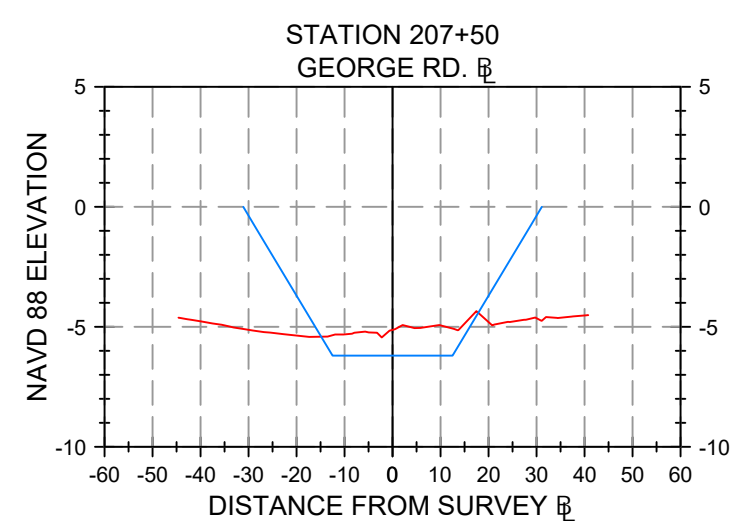
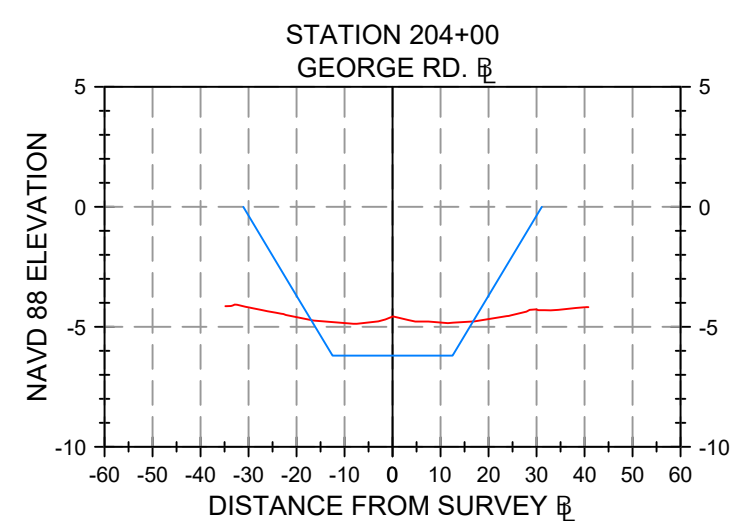
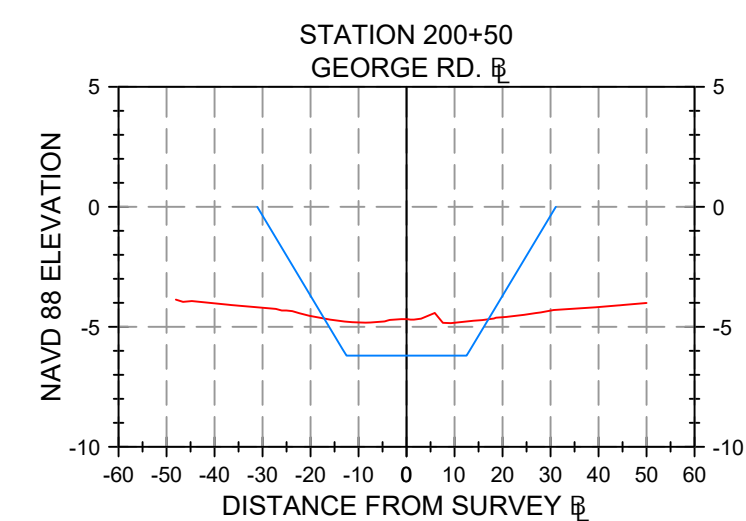
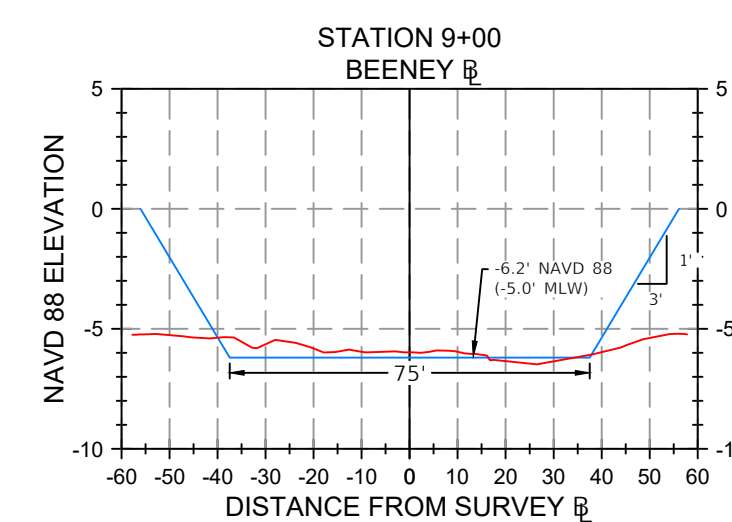
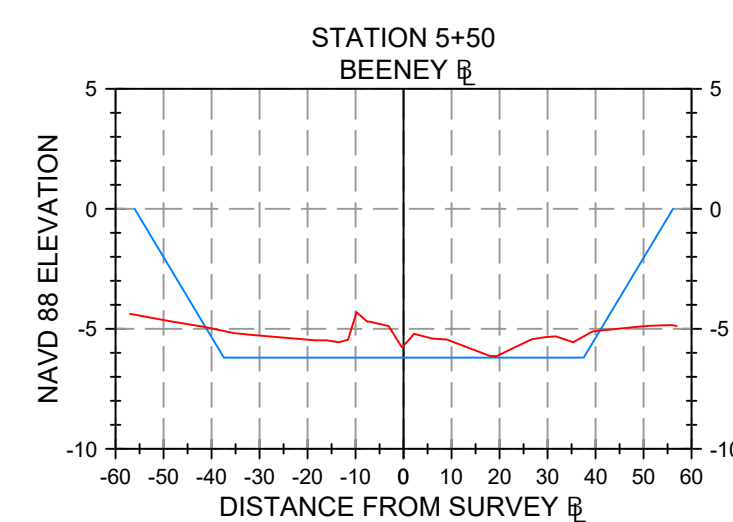
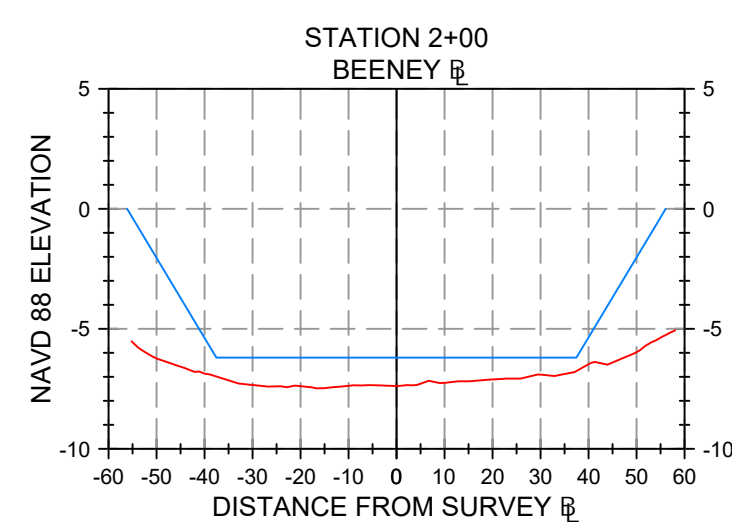
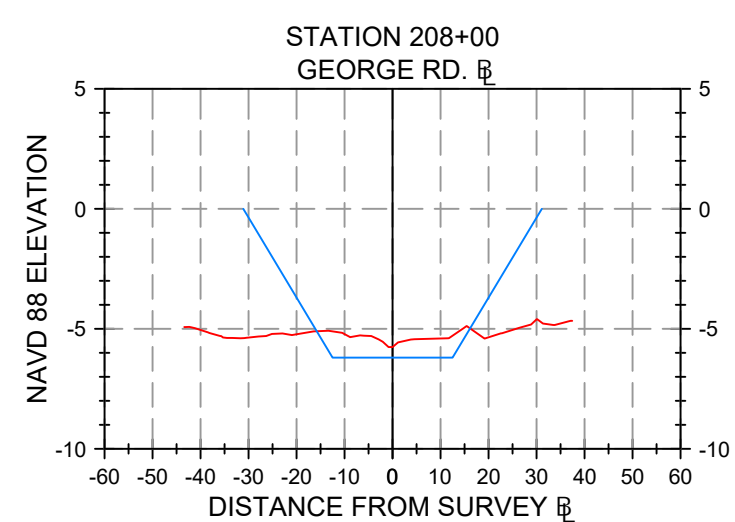
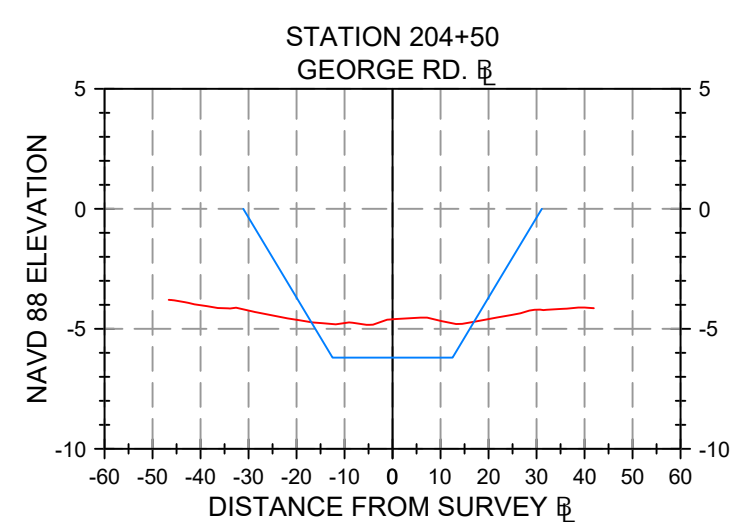
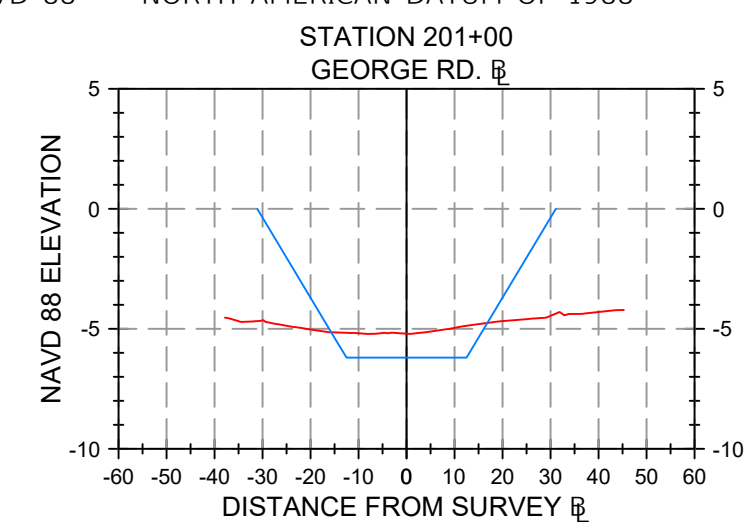
# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA

**SECTION SHEET LEGEND:**

- = BASELINE
- = EXISTING BOTTOM SURFACE
- = DREDGE TEMPLATE
- = MEAN LOW WATER
- NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:  
HORIZONTAL 1" = 40'  
VERTICAL SCALE 1" = 8'



<p><b>AIM Engineering &amp; Surveying, Inc.</b>                  CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT                  3151 FOWLER STREET, SUITE 100                  FORT MYERS, FLORIDA 33901                  www.aimengr.com</p>		<p>DATE: 06-17-2025                  CHECKED: DT                  DATE: 06-19-2025</p>
<p>PROJECT NAME:                  WOF 345 BUENA VISTA EXTERIOR                  PREPARED BY: AIM ENGINEERING &amp; SURVEYING, INC.                  SEE SHEET 1                  DARREN TOWSEND                  PROFESSOR                  FLORIDA CERTIFICATE NO. 6476                  3450 W. PALM BLVD., SUITE 100, FORT MYERS, FL 33901</p>		<p>DATE: 06-17-2025                  DT                  DATE: 06-19-2025</p>
<p>FILE NAME: 25-2079_HYDRO                  PROJECT NO: 25-2079                  COUNTY: CHARLOTTE                  TOWNSHIP: S                  SECTION: 5                  RANGE: E</p>		<p>CLIENT: CHARLOTTE COUNTY</p>
<p>HYDROGRAPHIC SURVEY                  BUENA VISTA WATERWAY</p>		<p>SHEET  <b>12</b>                  OF                  17</p>

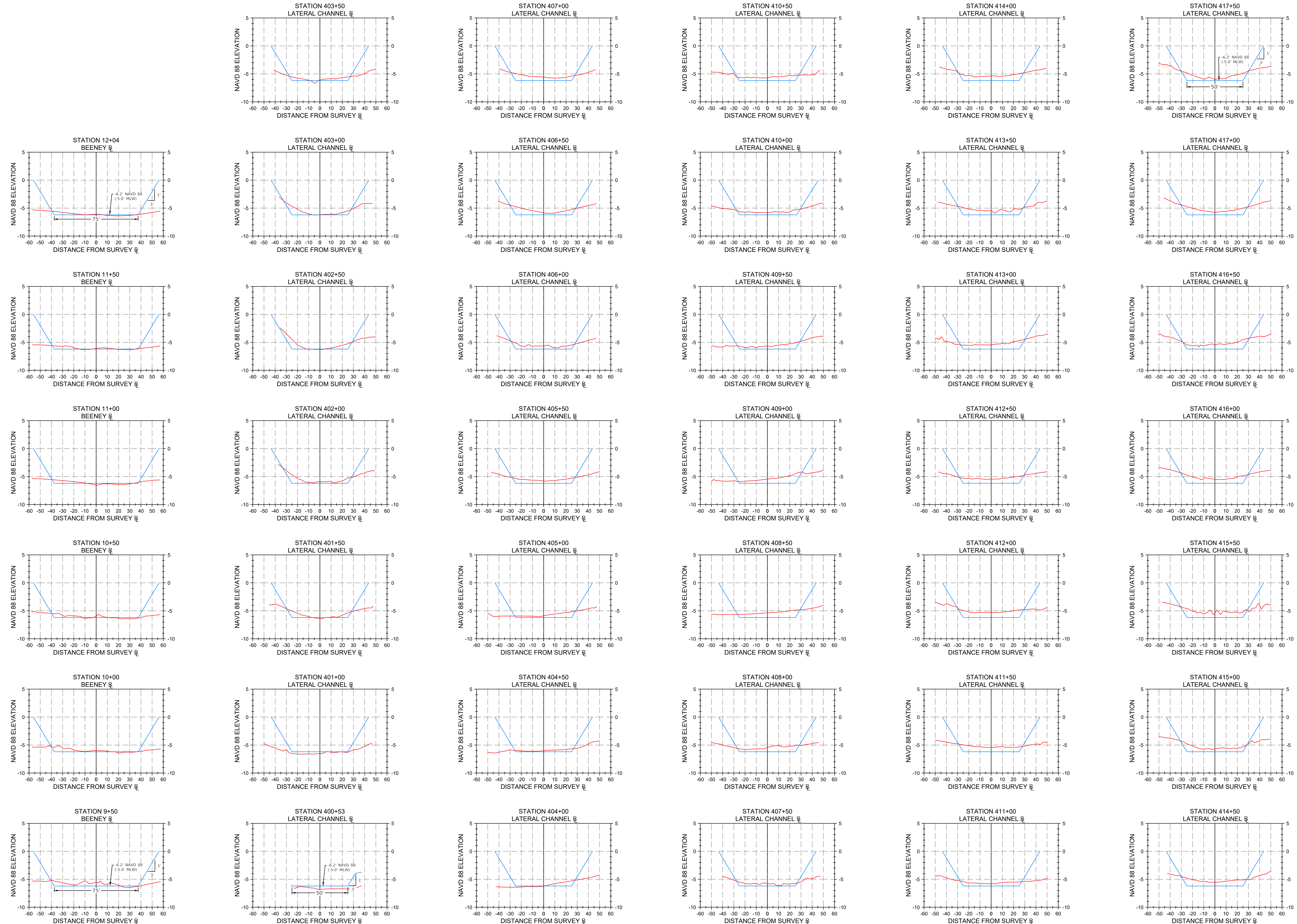
SECTION SHEET LEGEND:  
 — = BASELINE  
 — = EXISTING BOTTOM SURFACE  
 — = DREDGE TEMPLATE  
 MLW = MEAN LOW WATER  
 NAVD 88 = NORTH AMERICAN DATUM OF 1988

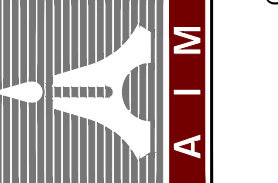
SCALE:  
 HORIZONTAL 1" = 40'  
 VERTICAL SCALE 1" = 8'

# HYDROGRAPHIC SURVEY





## BUENA VISTA WATERWAY

### CHARLOTTE COUNTY, FLORIDA



		<b>AIM Engineering &amp; Surveying, Inc.</b> CIVIL * SANITARY * TRANSPORTATION * DEVELOPMENT * PROJECT MANAGEMENT 3151 FOWLER STREET, SUITE 100 FORT MYERS, FLORIDA 33901 www.aimengr.com		CLIENT: CHARLOTTE COUNTY	
PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR		PREPARED BY: AIM ENGINEERING & SURVEYING, INC. <b>SEE SHEET 1</b>		CERTIFICATE OF AUTHORIZATION No. 3114 DATE: 06-17-2025 CHECKED: DT DATE: 06-19-2025	
ANY REVISIONS, ALTERATIONS, AND OR CHANGES TO DRAWING(S) MUST BE APPROVED BY THE ORIGINAL DESIGNER AND SURVEYING, INC. IS PROHIBITED.		FIELD BOOK: 1886		PAGE: 54-57	
PROJECT NO.: 25-2079_HYDRO		COUNTY: CHARLOTTE		SHEET: 13	
SECTION: S		TOWNSHIP:		RANGE: E	
OF 17		REVISIONS:		DATE:	
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No. 4		No. 5		No. 6	
No. 7		No. 8		No. 9	

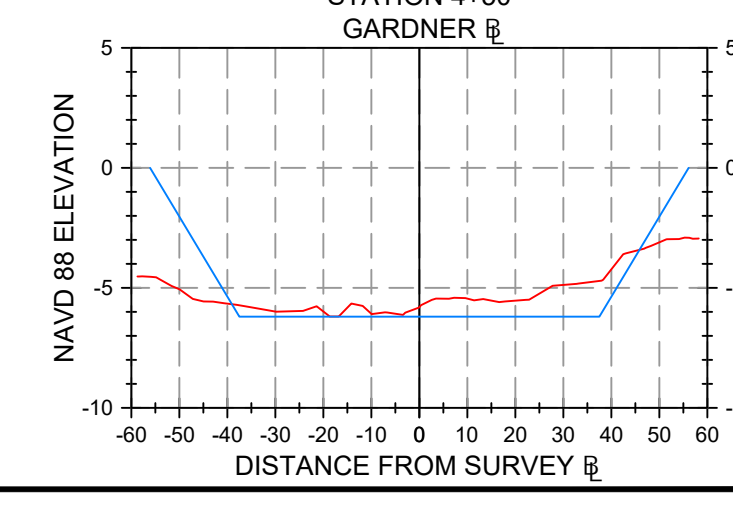
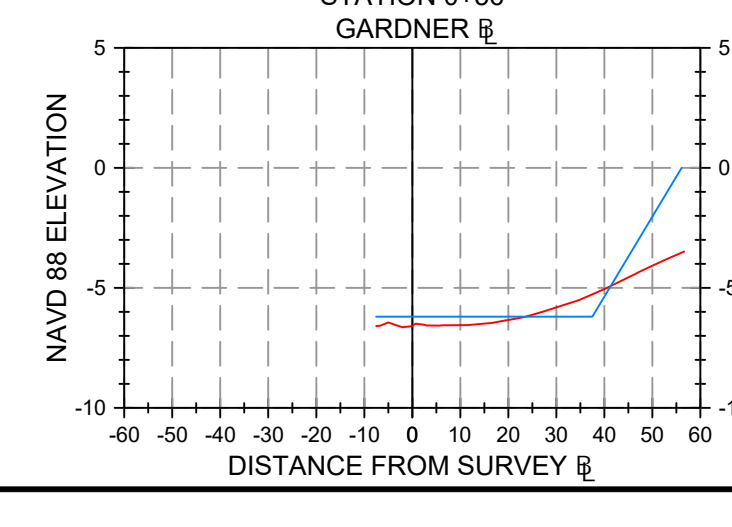
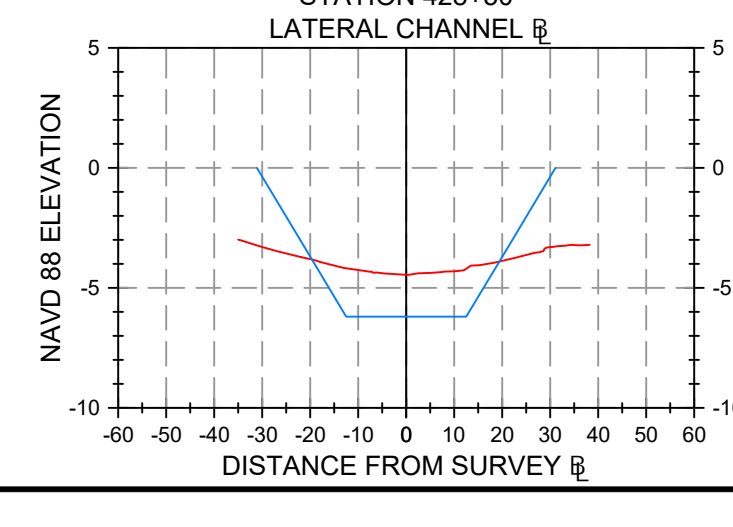
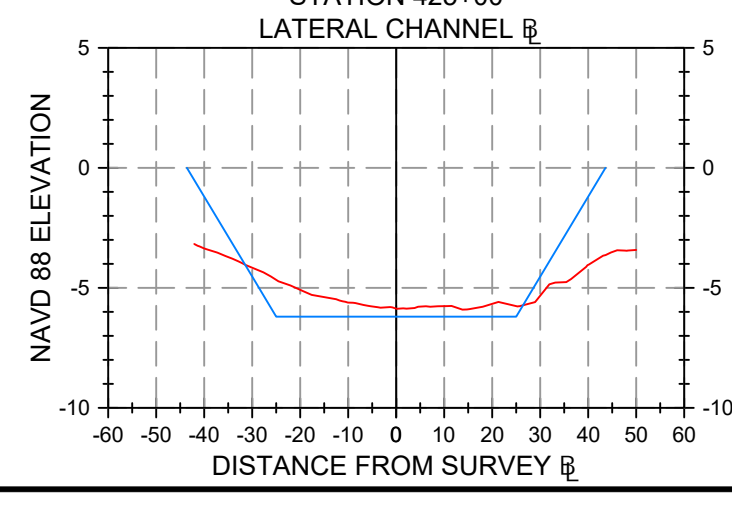
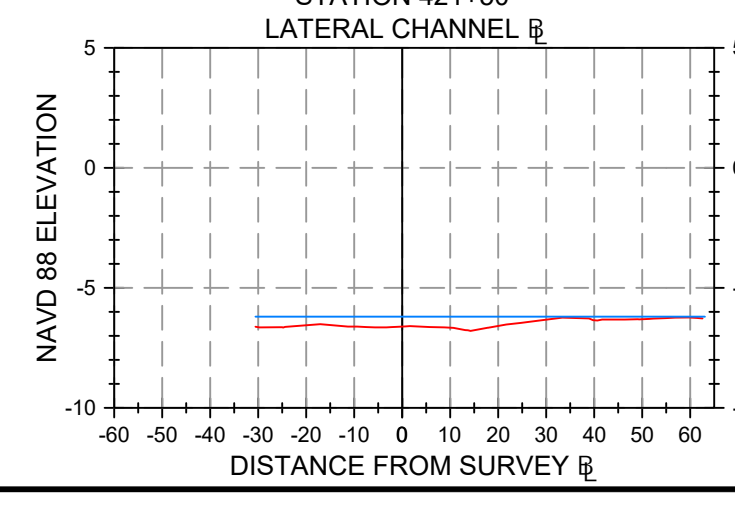
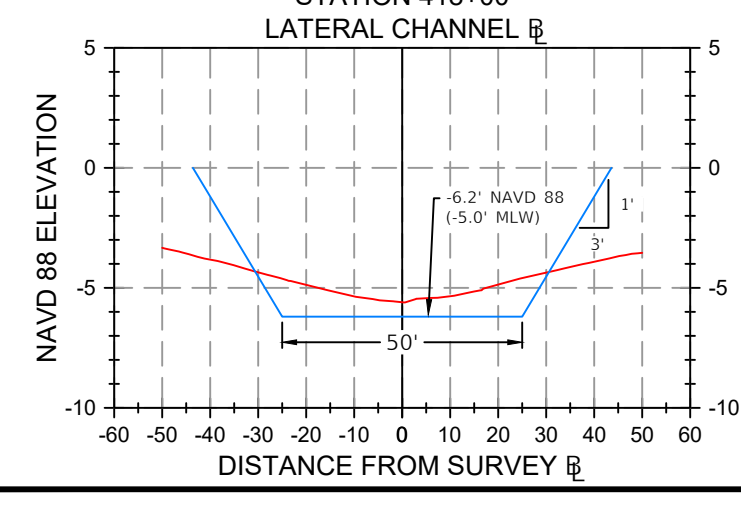
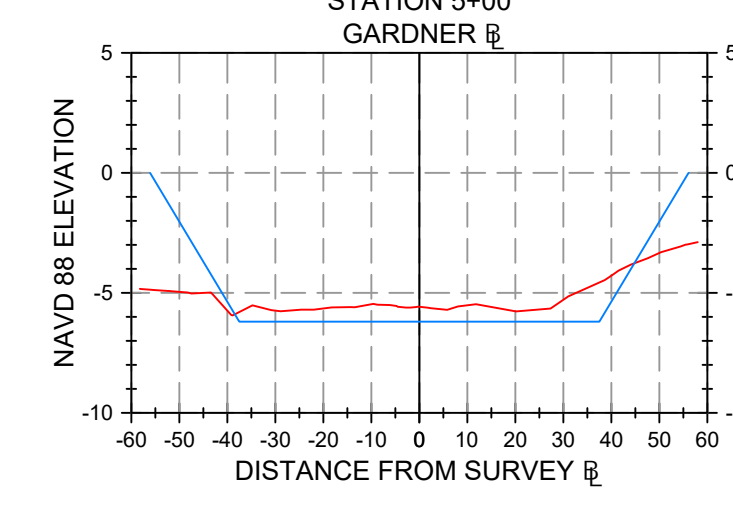
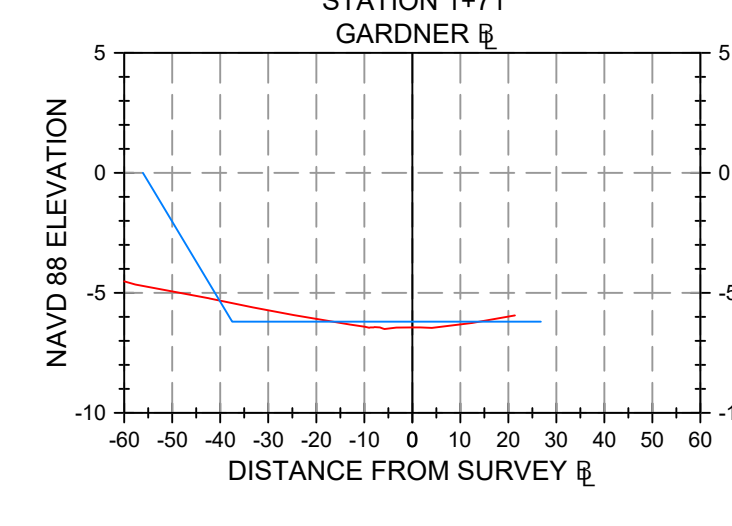
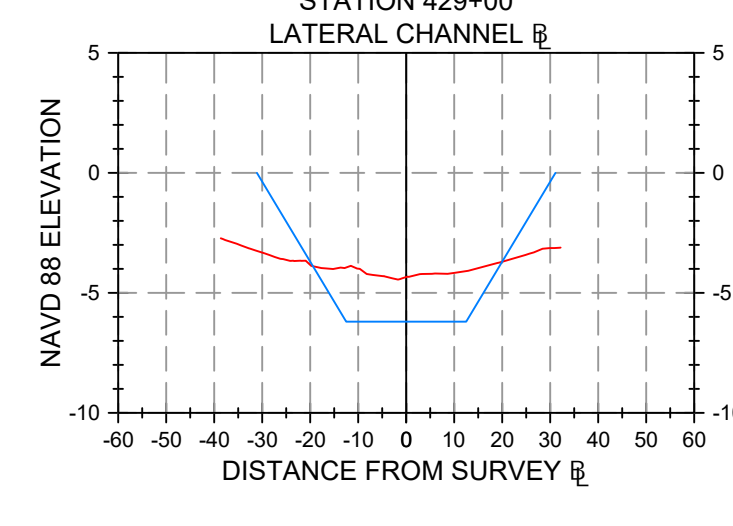
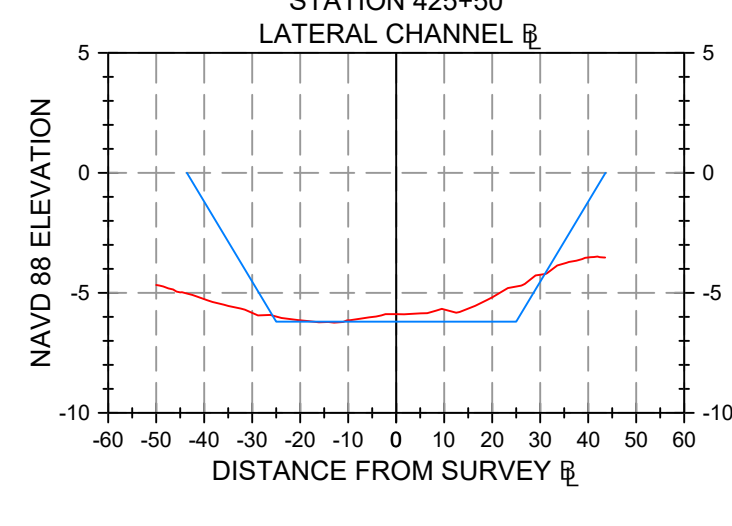
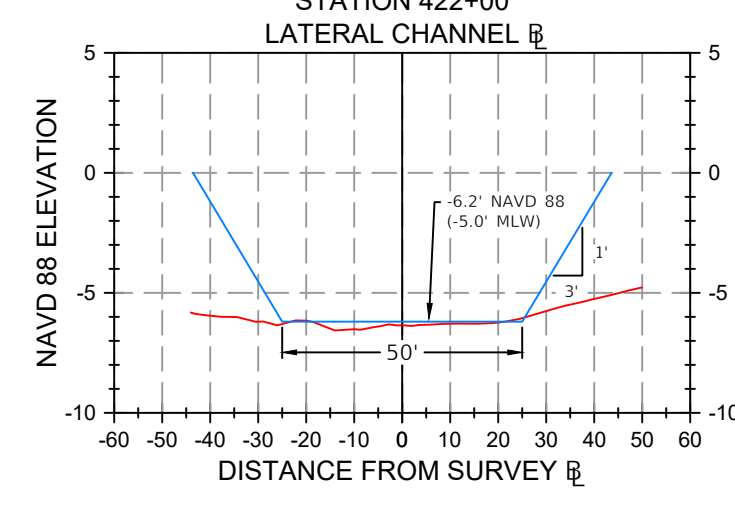
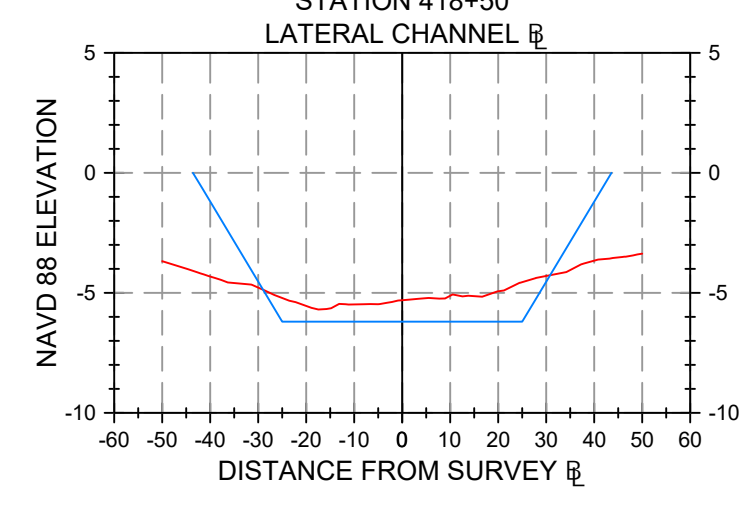
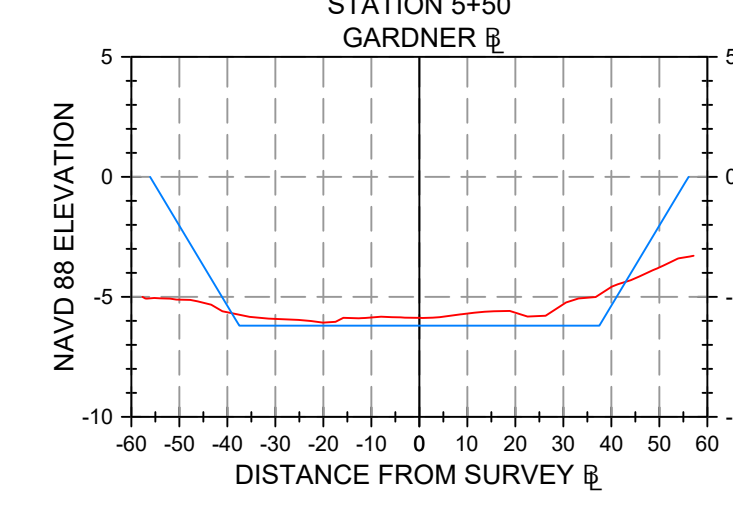
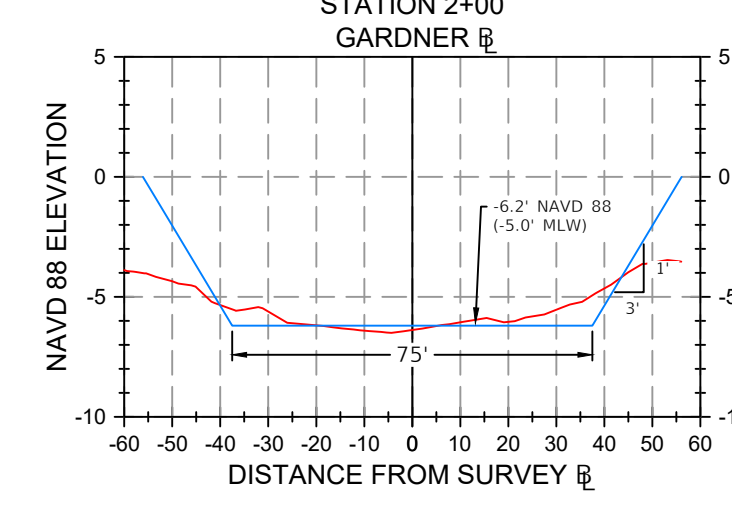
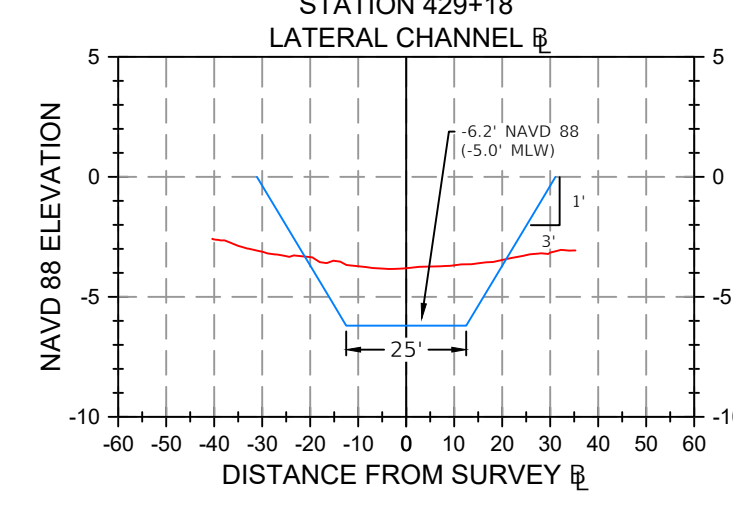
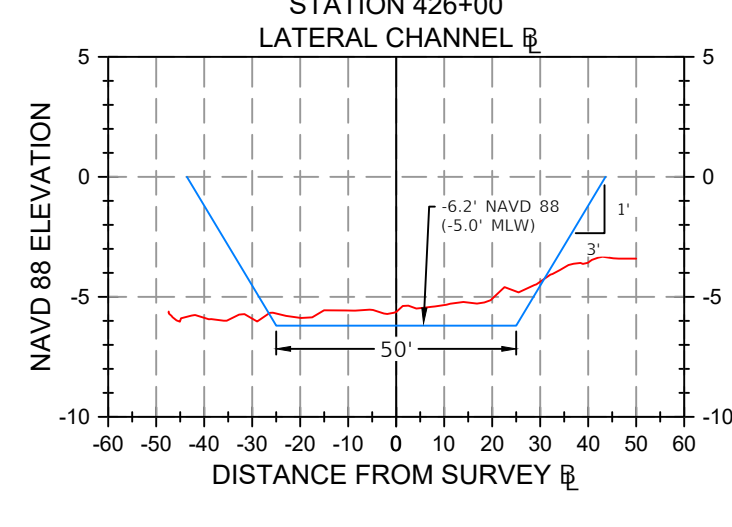
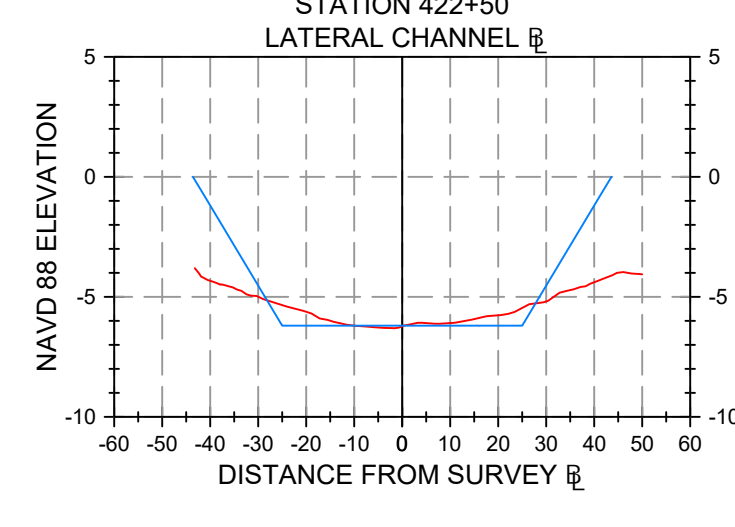
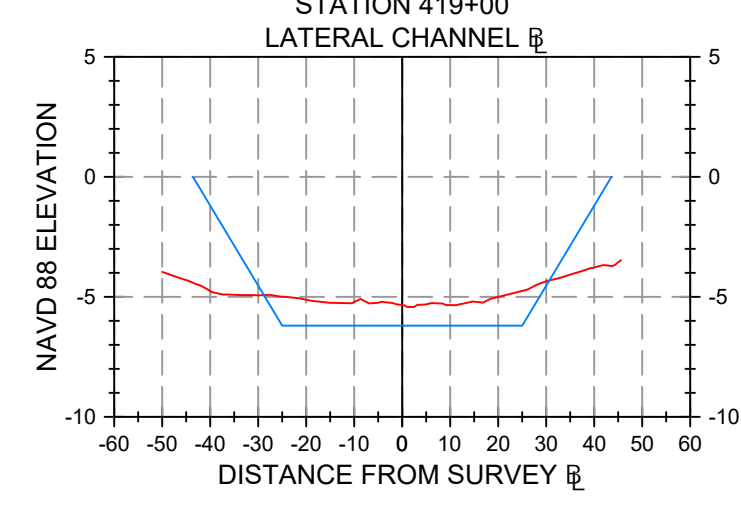
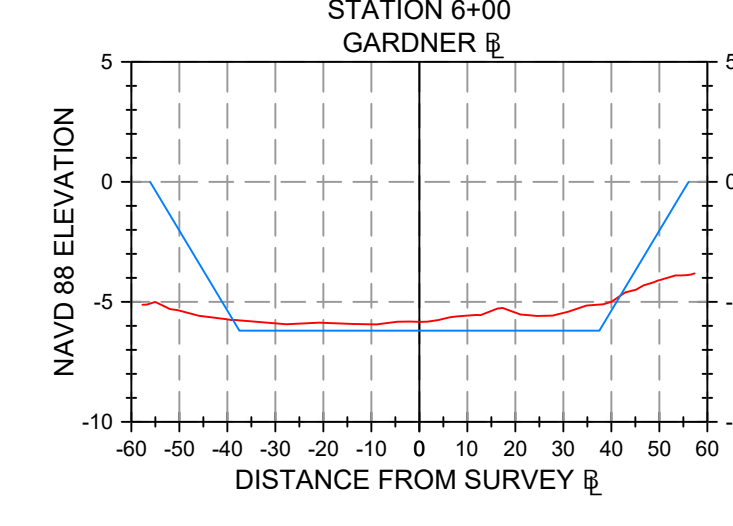
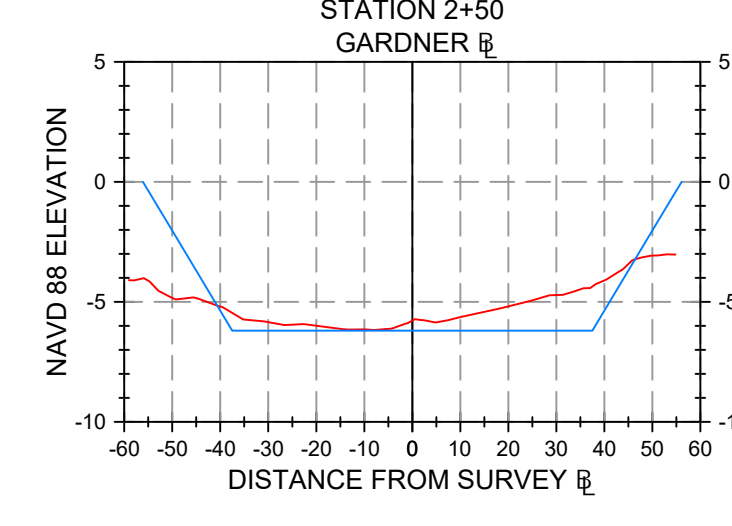
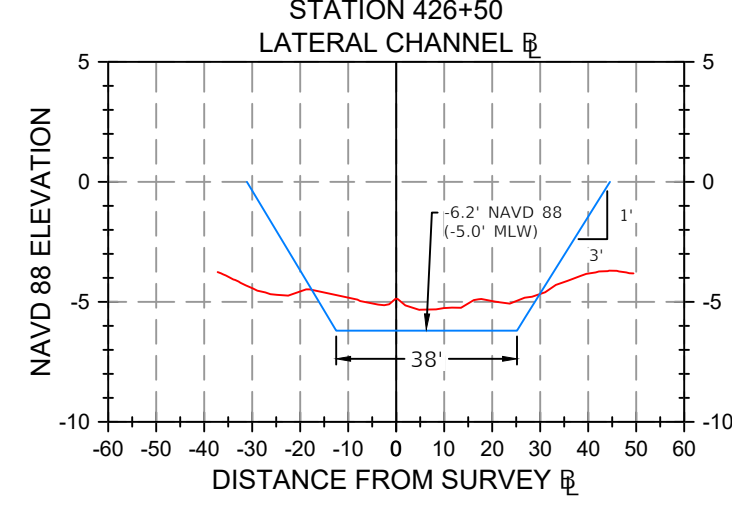
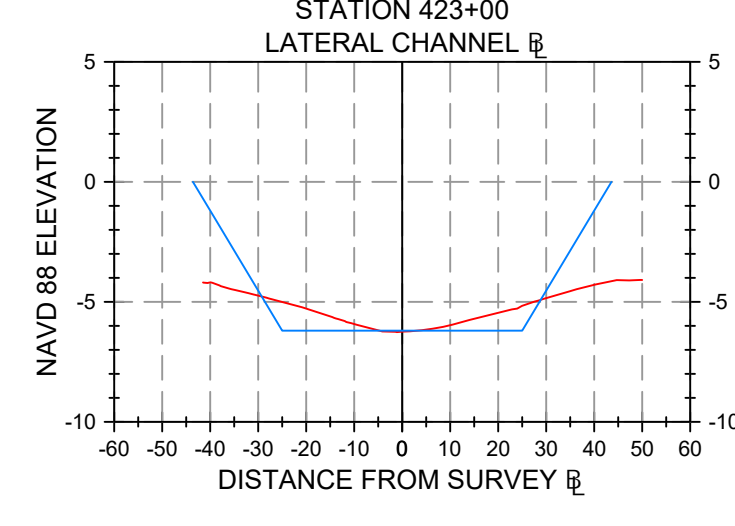
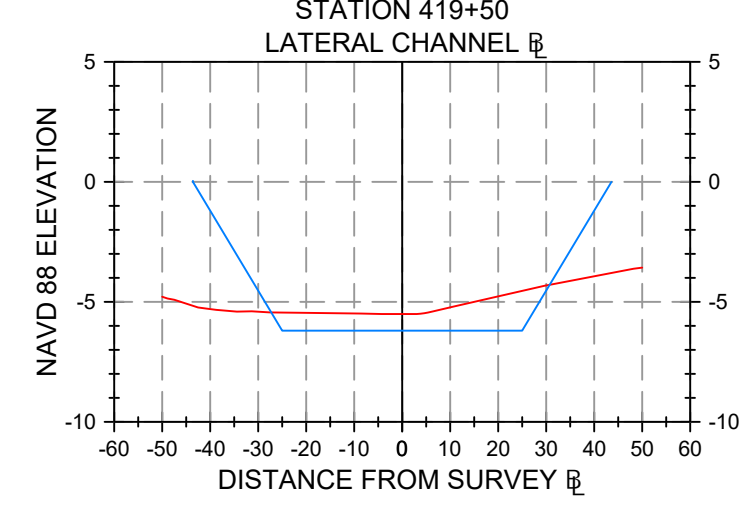
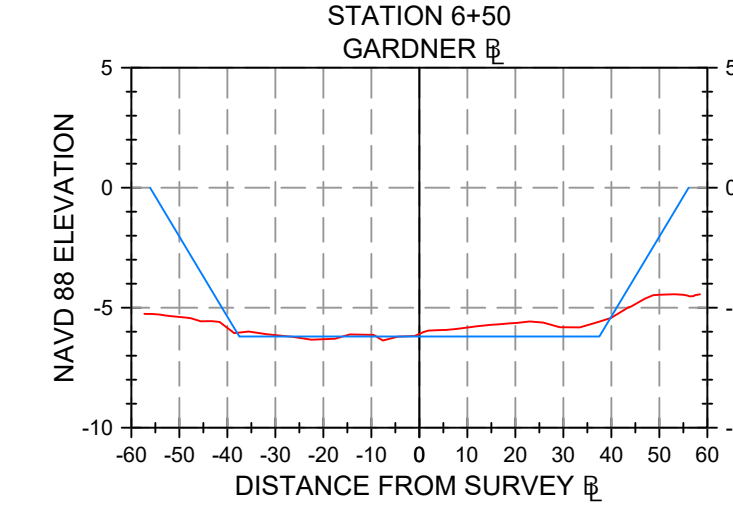
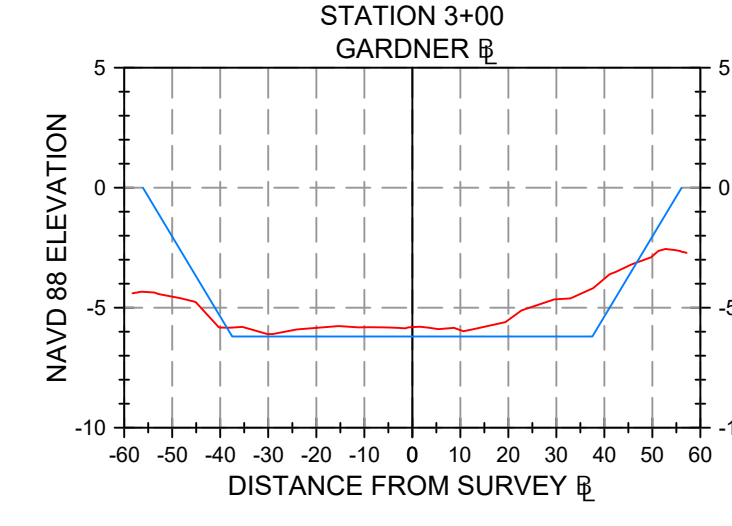
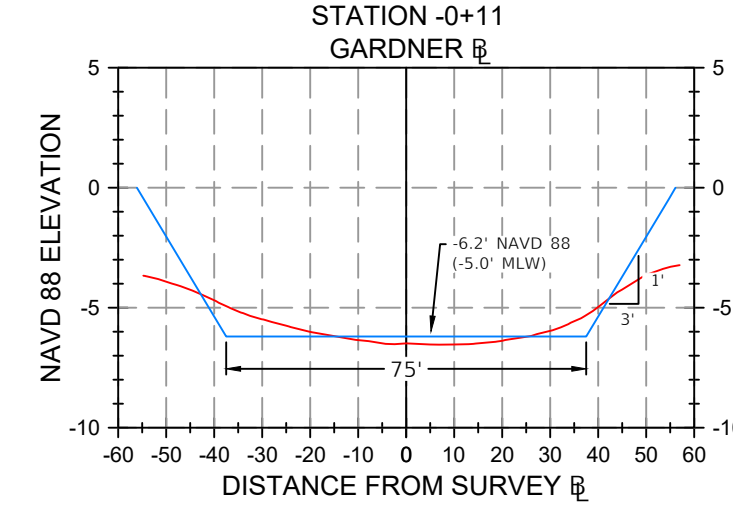
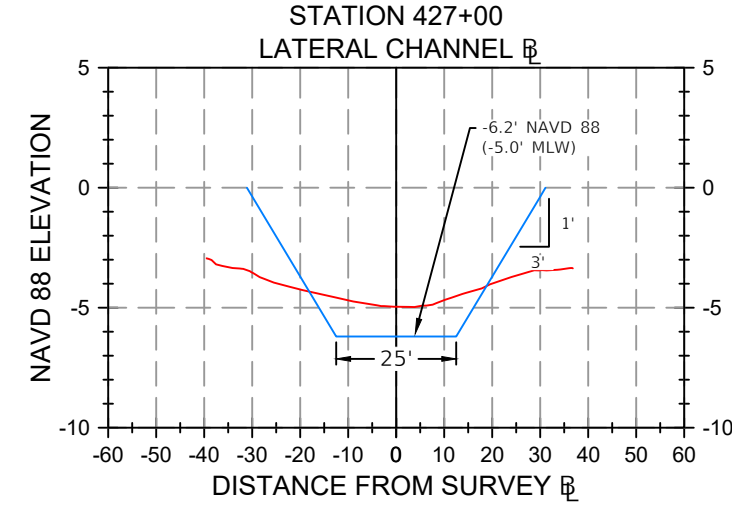
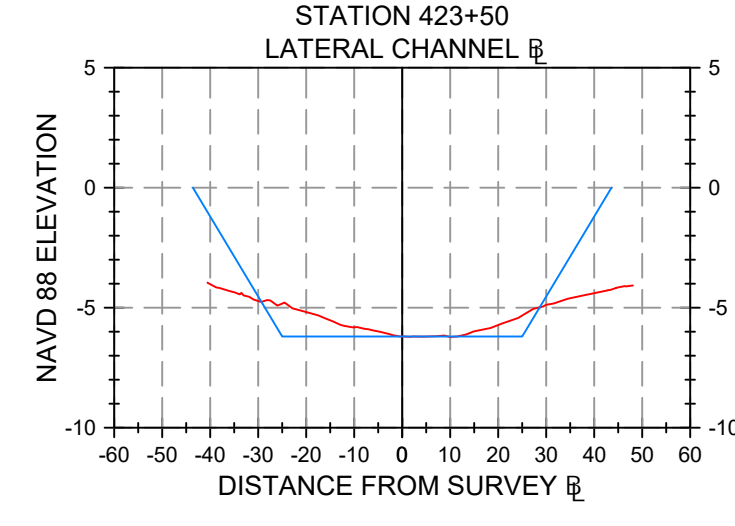
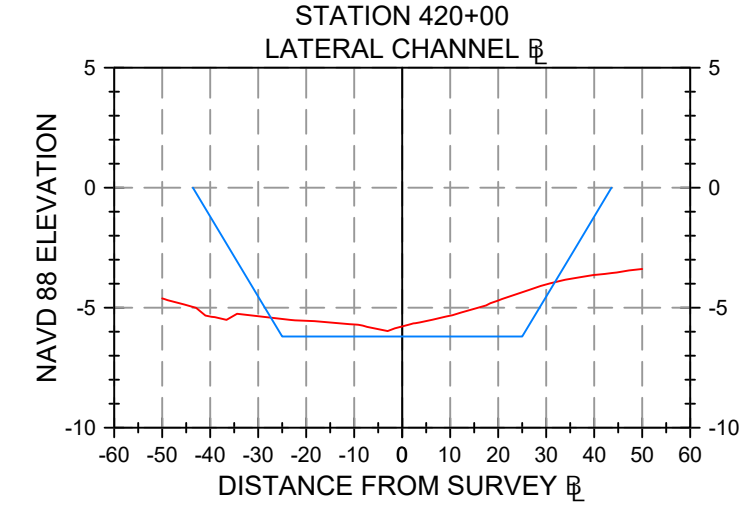
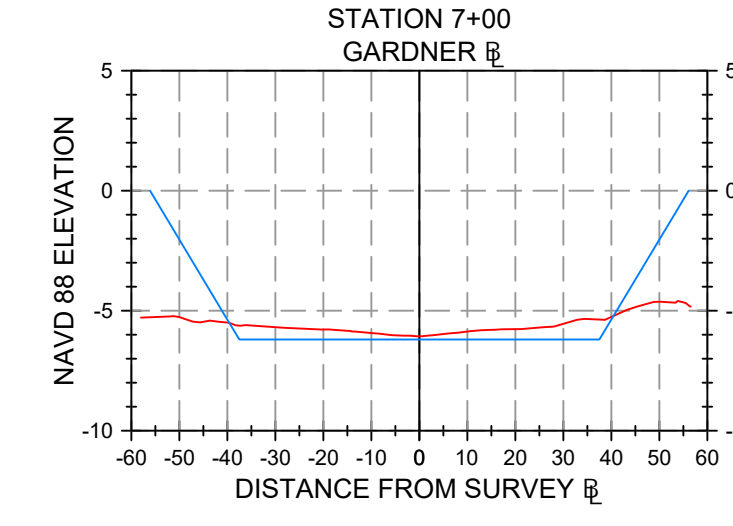
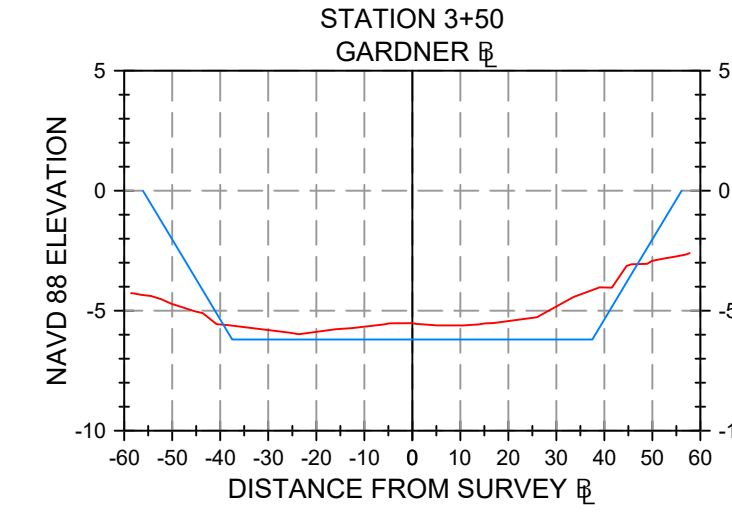
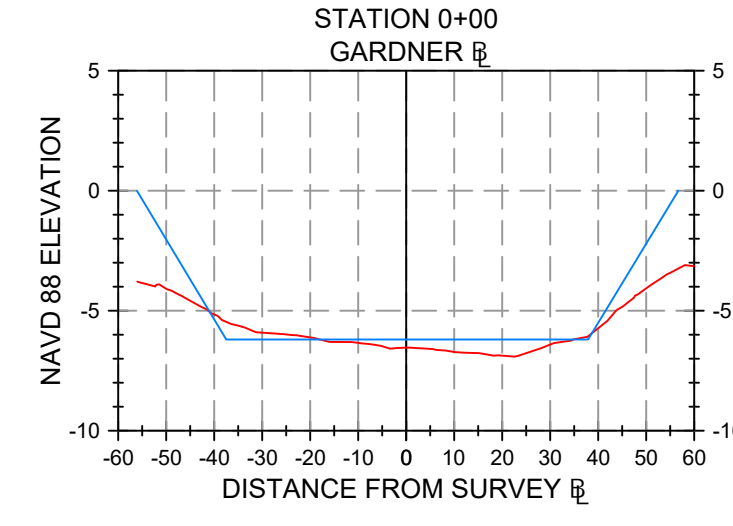
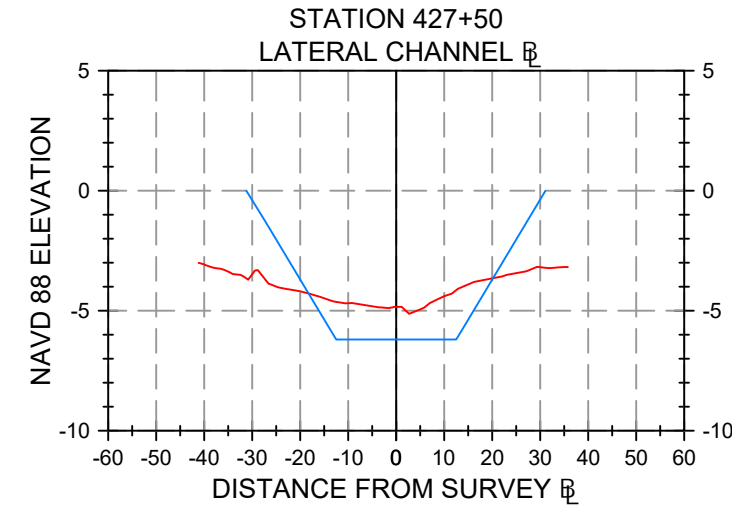
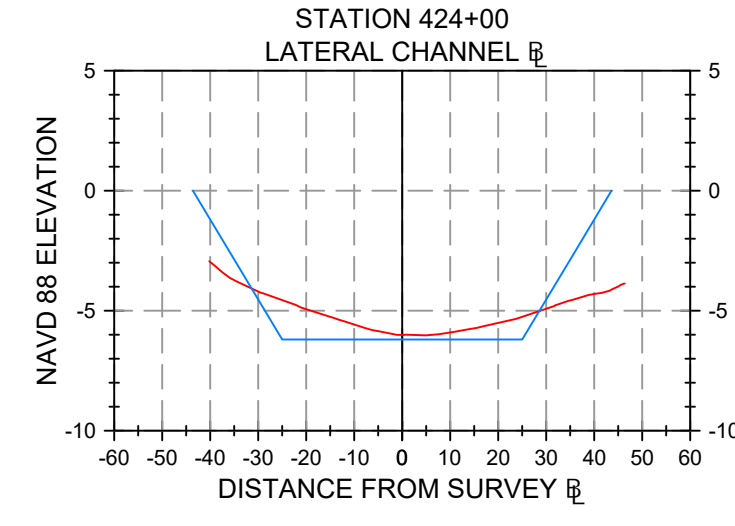
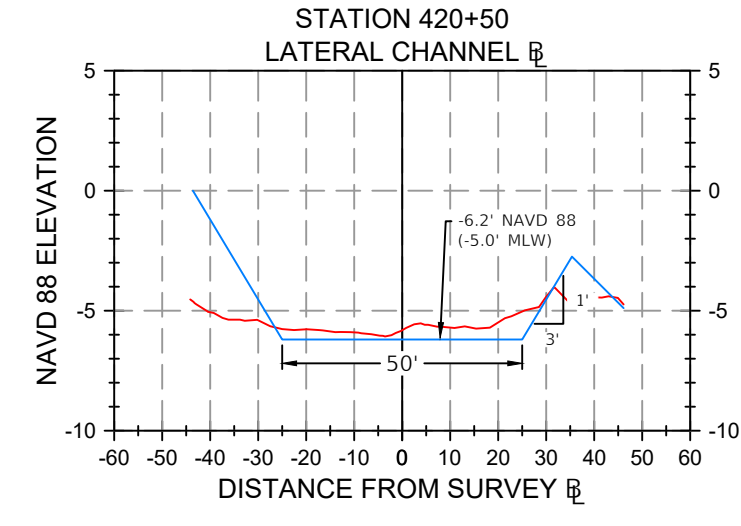
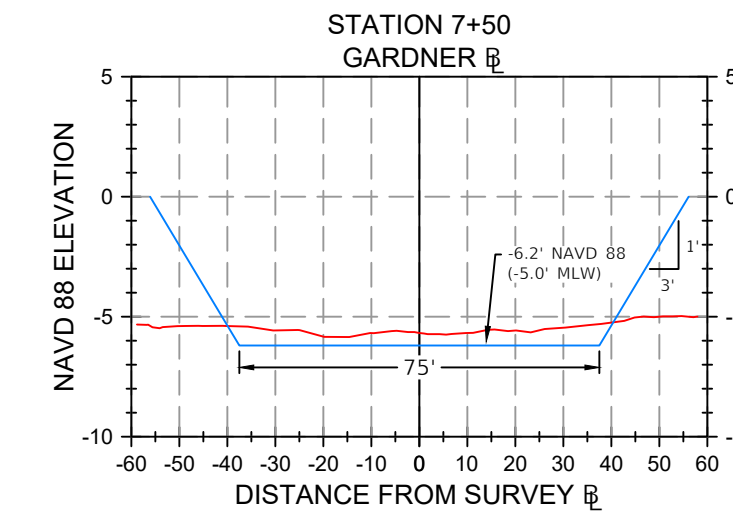
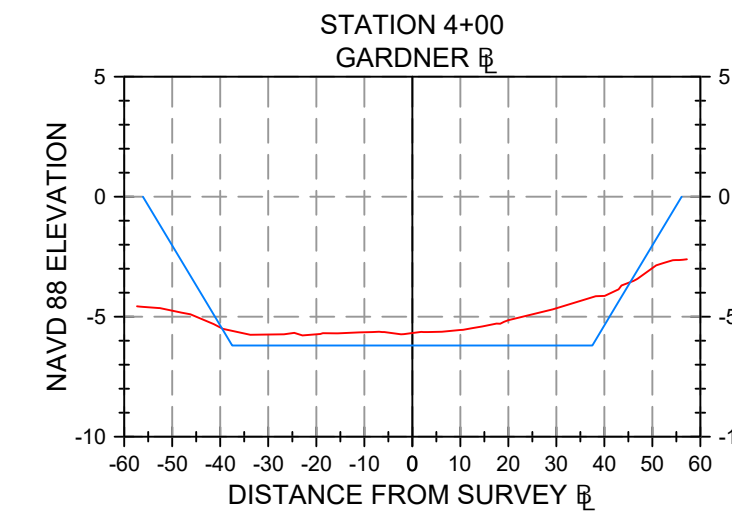
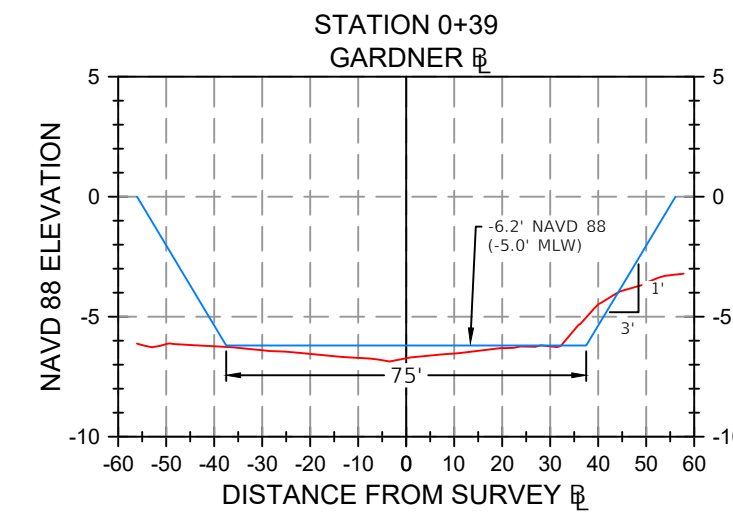
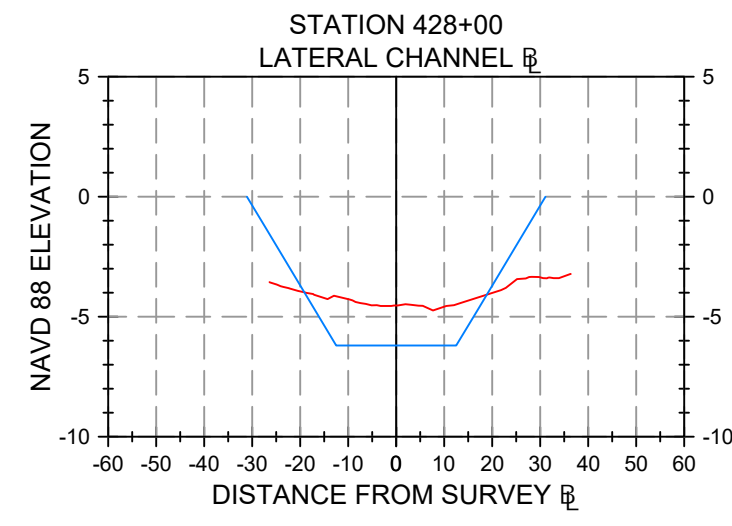
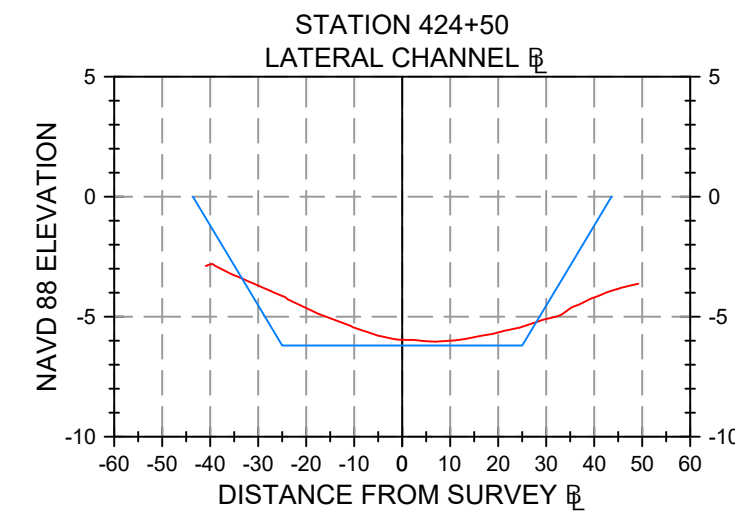
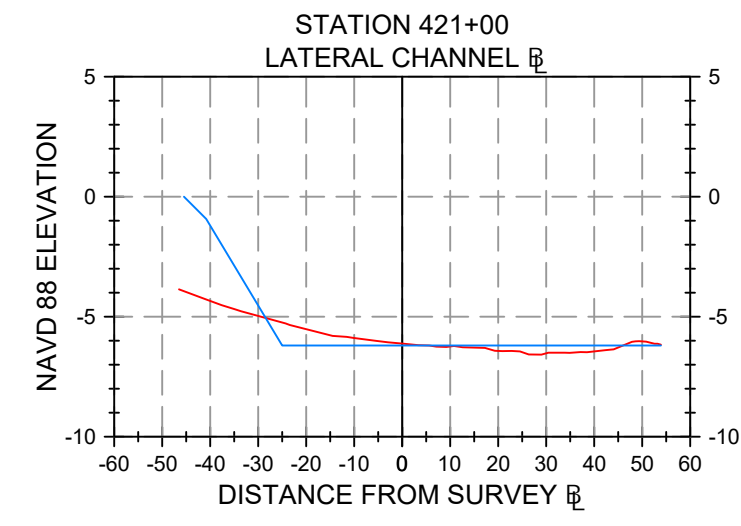
SECTION SHEET LEGEND:

-  = BASELINE
-  = EXISTING BOTTOM SURFACE
-  = DREDGE TEMPLATE
-  = MEAN LOW WATER
- NAVD 88 = NORTH AMERICAN DATUM OF 1988

SCALE:  
 HORIZONTAL 1" = 40'  
 VERTICAL SCALE 1" = 8'

# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
 CHARLOTTE COUNTY, FLORIDA



NO.	BY	REVISIONS
1		
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PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR  
 PREPARED BY: AIM ENGINEERING & SURVEYING, INC.  
 SEE SHEET 1  
 DARRIN TOWSE/SENIOR SURVEYOR  
 PROFESSIONAL ENGINEER  
 FLORIDA CERTIFICATE NO. 46476  
 DATE OF LICENSE: 06/19/2015

AIM Engineering & Surveying, Inc.  
 CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
 3151 FOWLER STREET, SUITE 100  
 FORT MYERS, FLORIDA 33901  
 www.aimengr.com  
 TOLL FREE: 888-326-4569  
 PHONE: 239-332-4569  
 CERTIFICATE OF AUTHORIZATION No. 3114  
 DATE: 06-17-2025  
 CHECKED: DT  
 DATE: 06-19-2025  
 DRAWN: RH  
 CLIENT: CHARLOTTE COUNTY

HYDROGRAPHIC SURVEY  
 BUENA VISTA WATERWAY  
 PROJECT NO.: 25-2079\_HYDRO  
 COUNTY: CHARLOTTE  
 SECTION: S  
 SHEET: 14  
 OF: 17

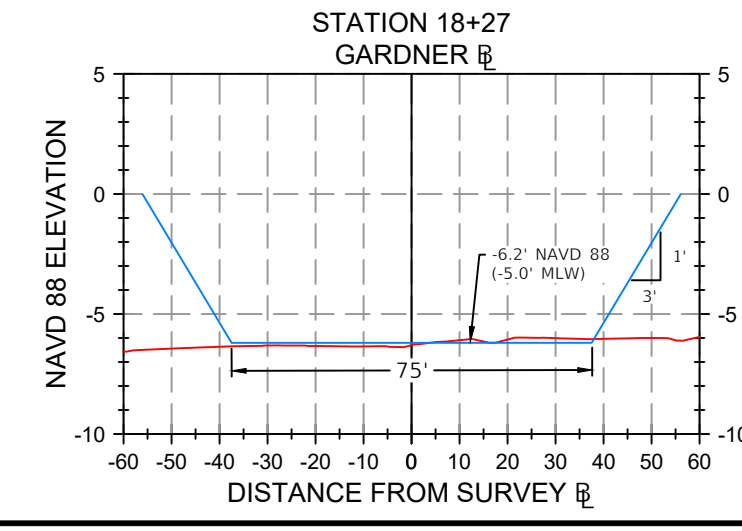
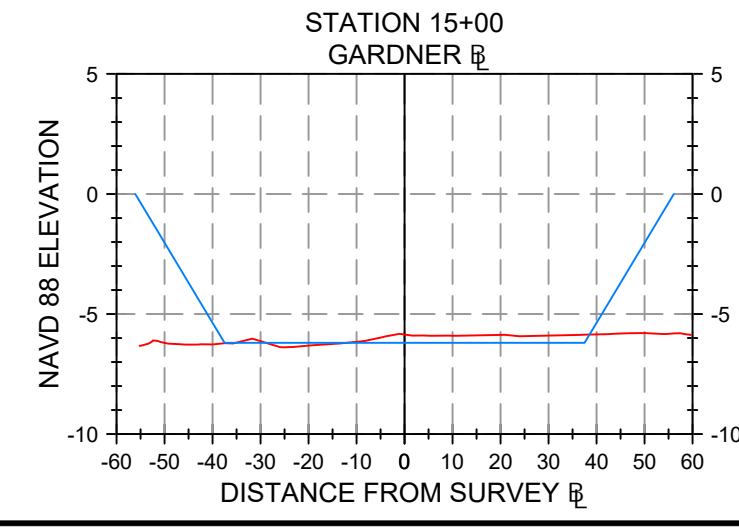
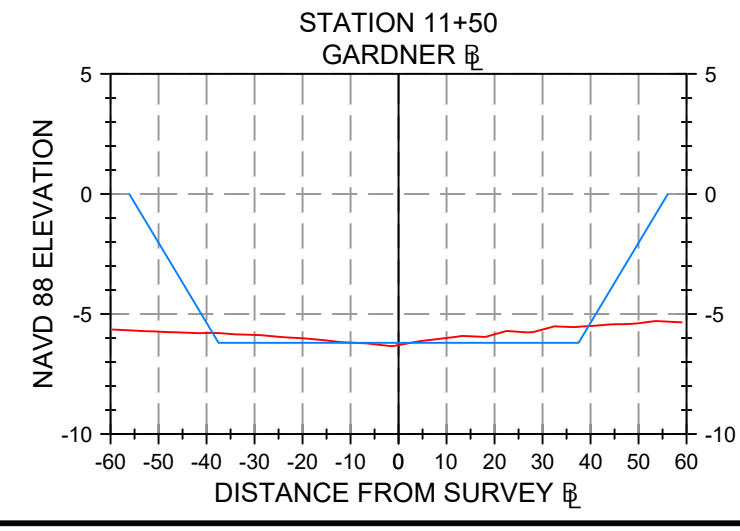
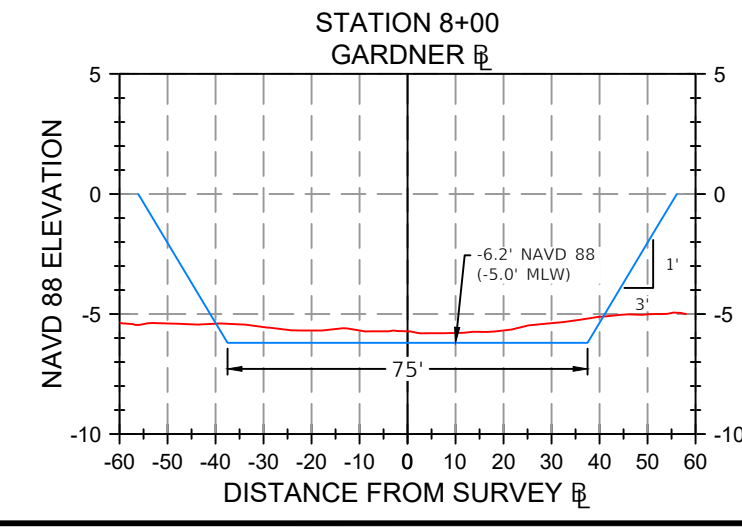
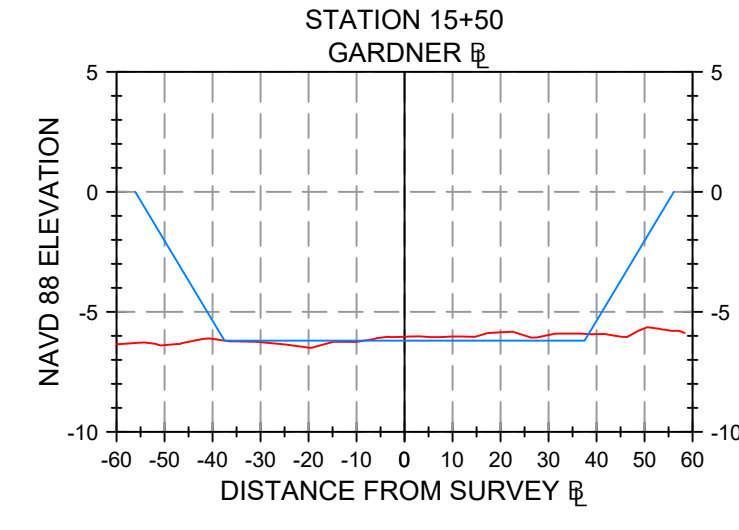
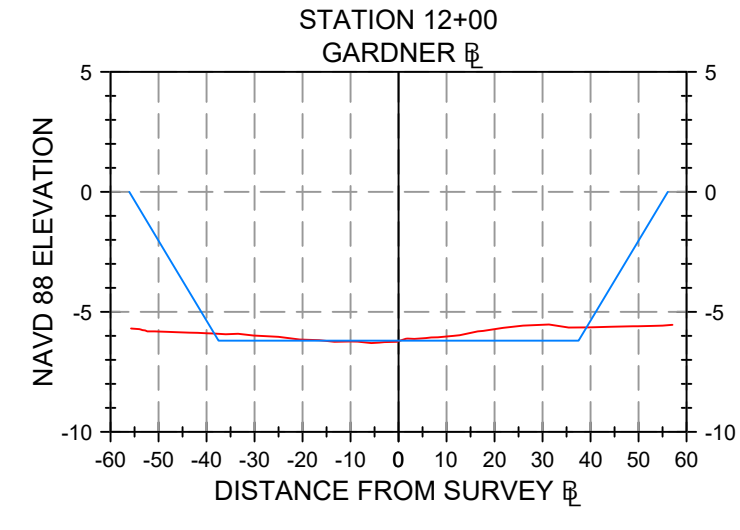
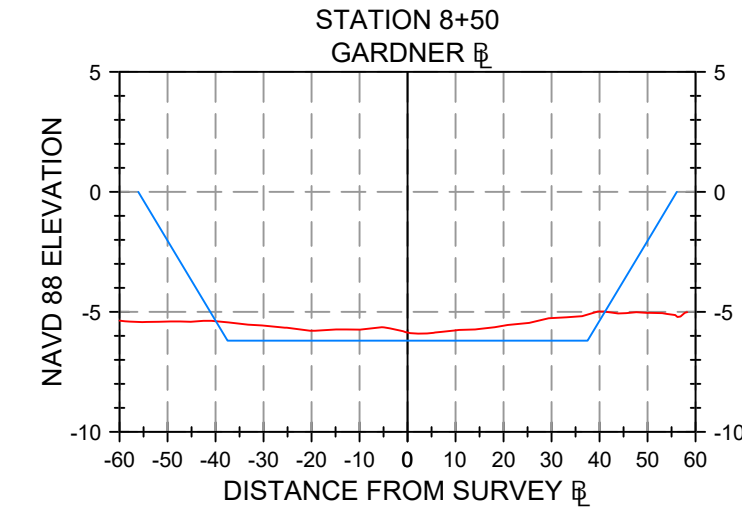
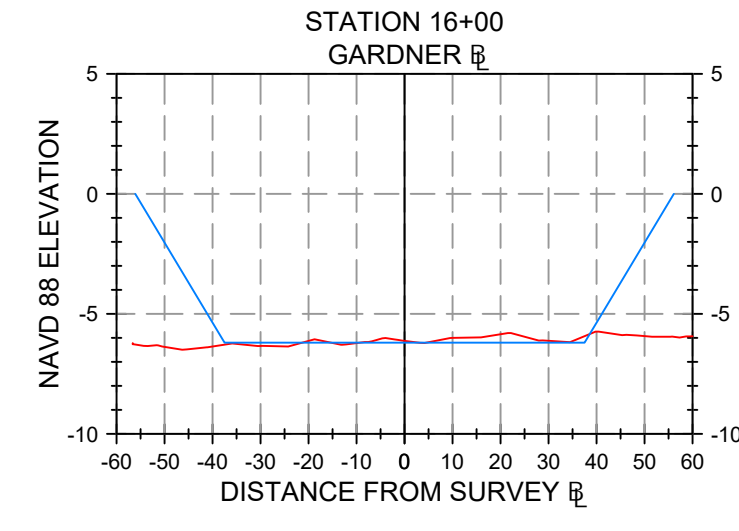
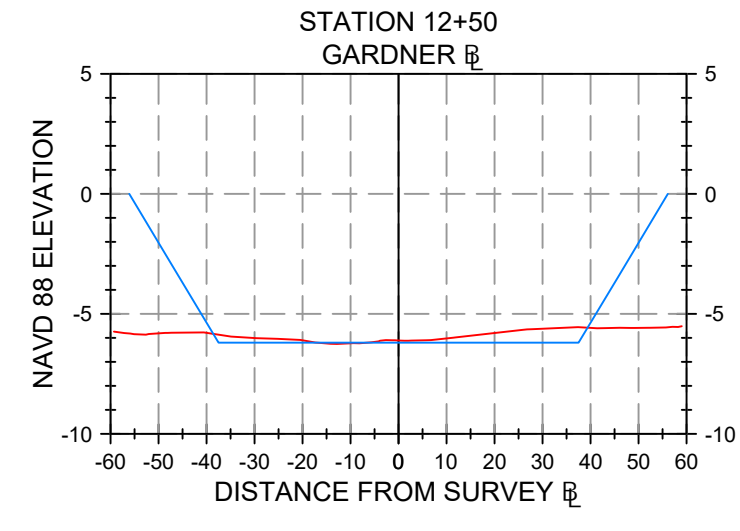
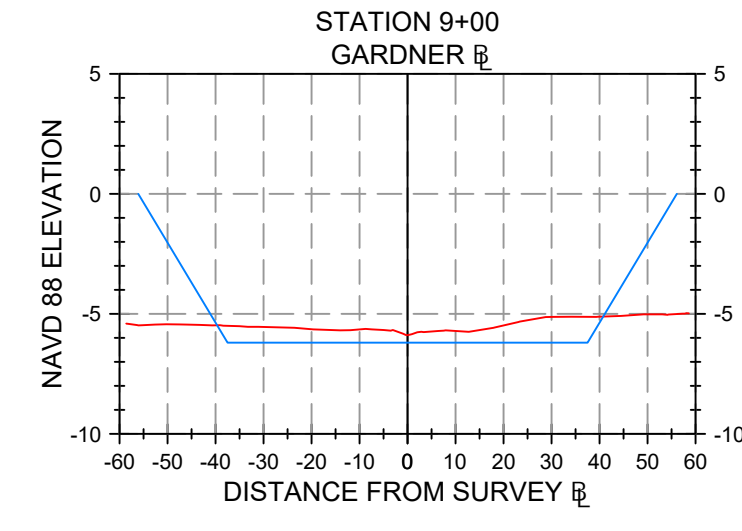
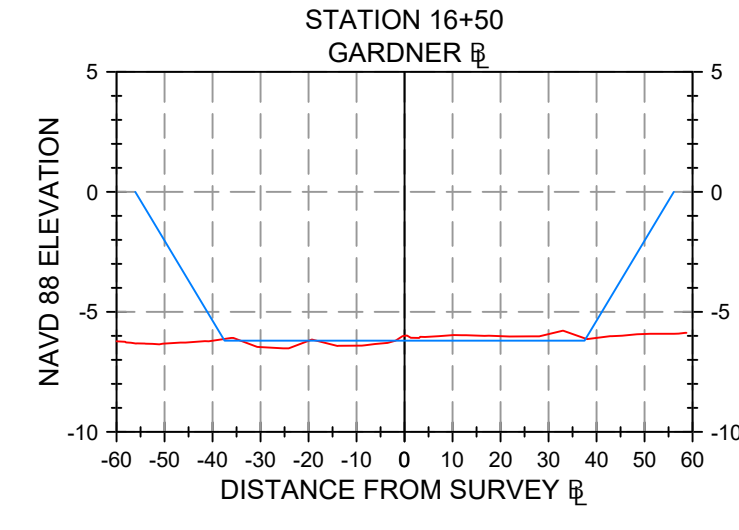
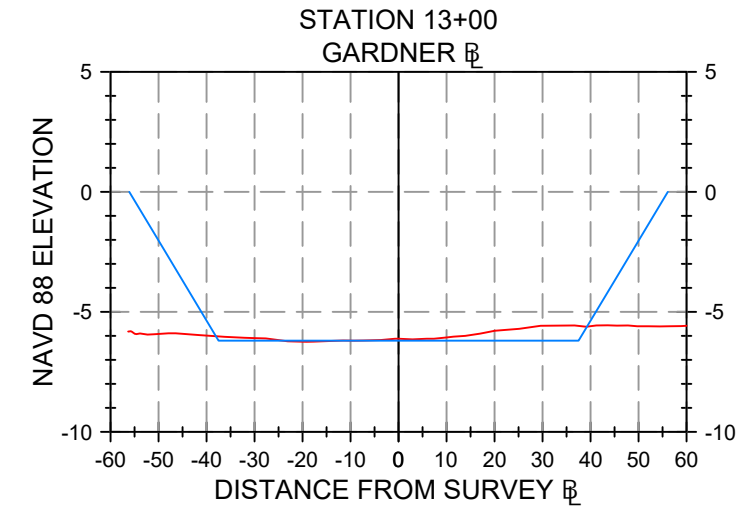
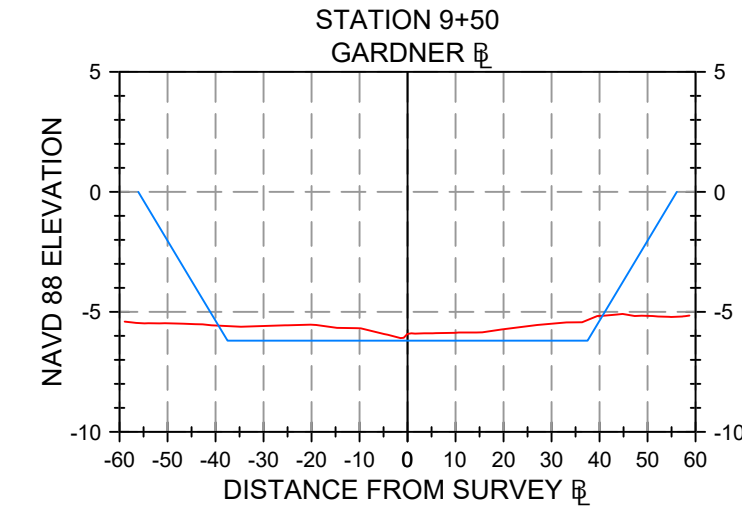
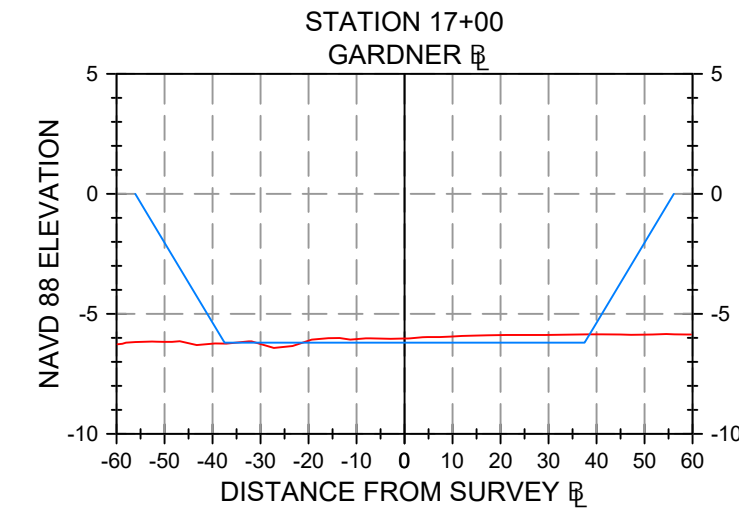
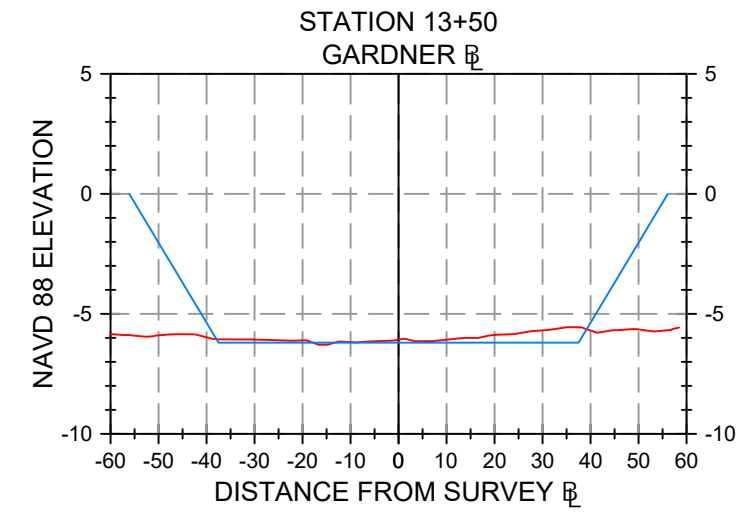
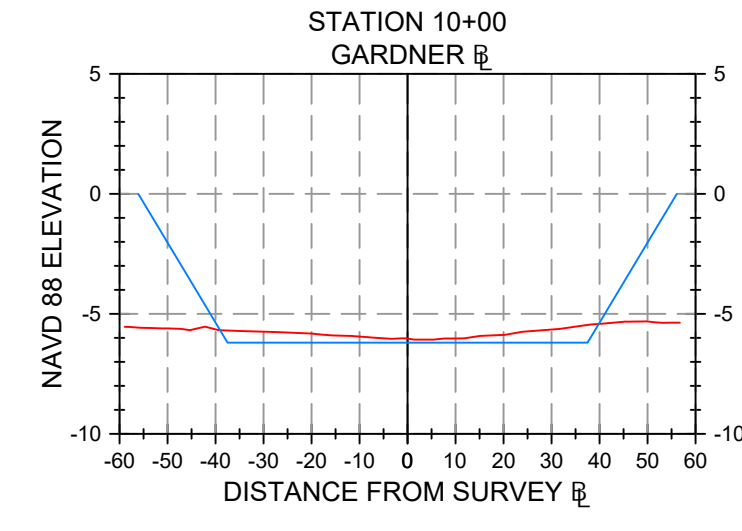
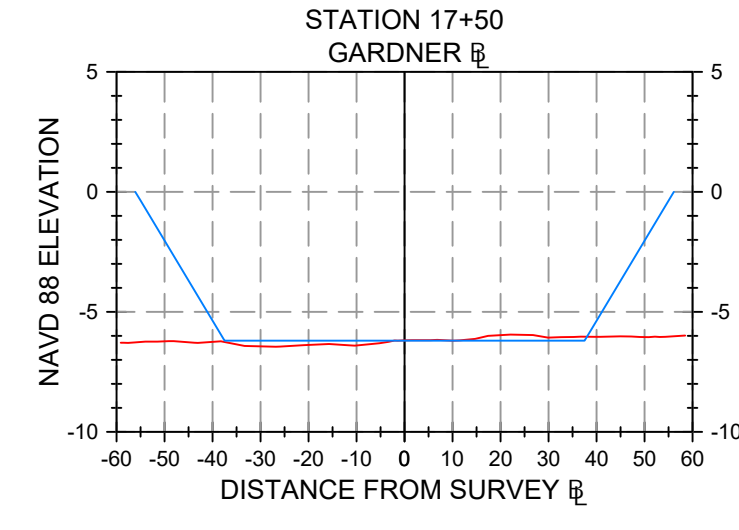
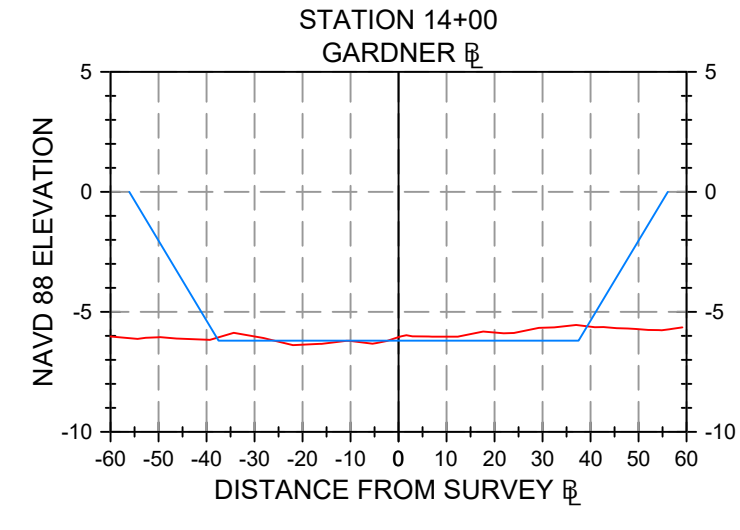
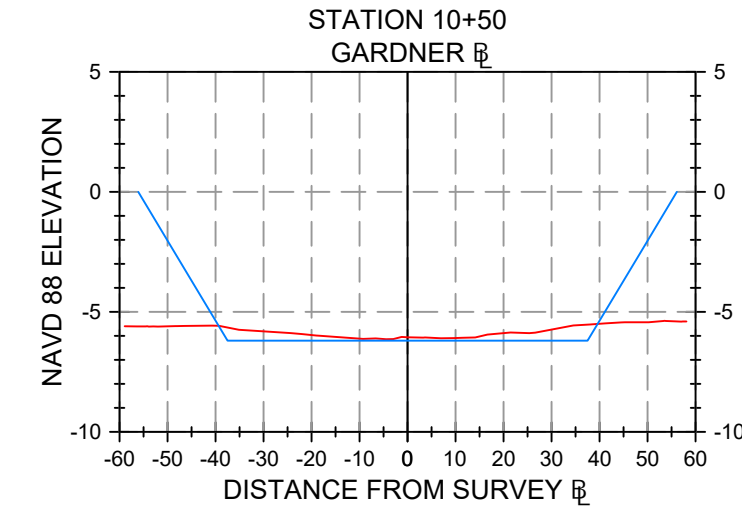
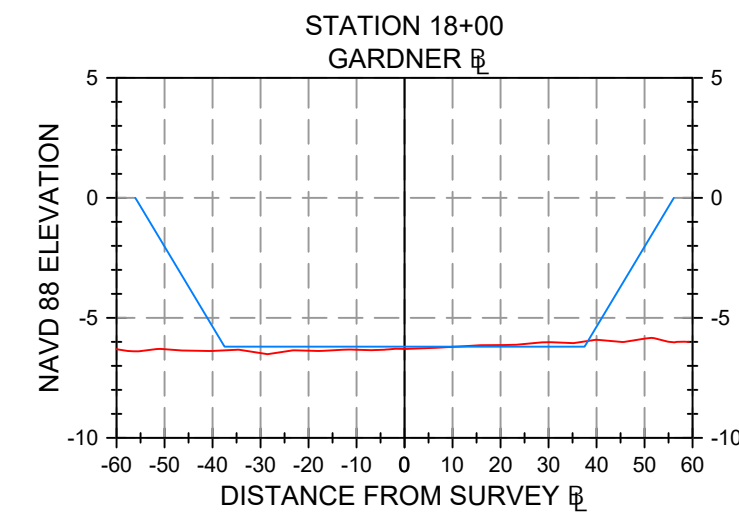
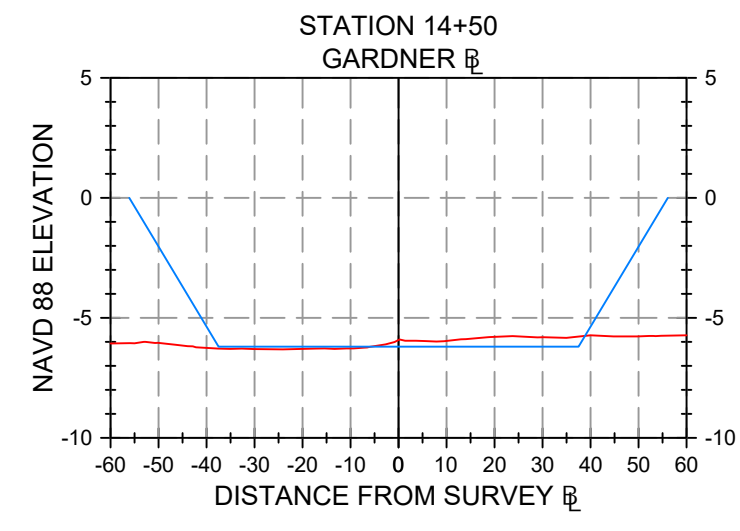
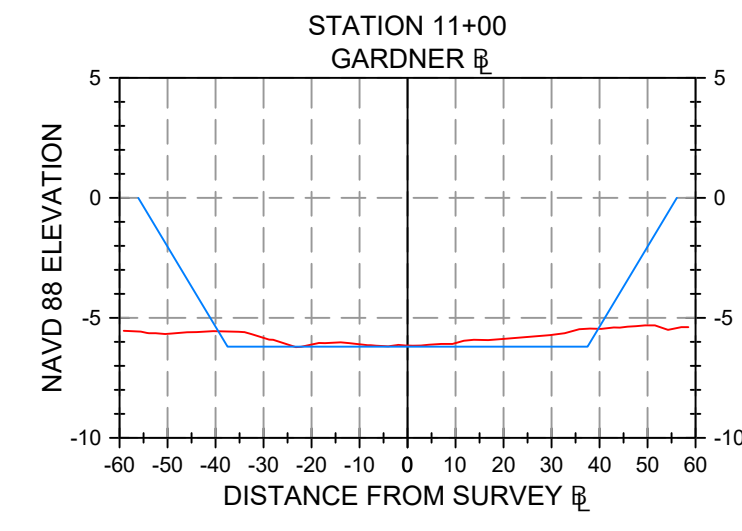
SECTION SHEET LEGEND:  
 ☐ = BASELINE  
 — = EXISTING BOTTOM SURFACE  
 — = DREDGE TEMPLATE  
 MLW = MEAN LOW WATER  
 NAVD 88 = NORTH AMERICAN DATUM OF 1988

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# HYDROGRAPHIC SURVEY

## BUENA VISTA WATERWAY

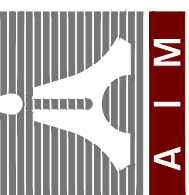
### CHARLOTTE COUNTY, FLORIDA



HYDROGRAPHIC SURVEY  
 BUENA VISTA WATERWAY

PROJECT NO. 25-2019\_HYDRO  
 COUNTY: CHARLOTTE  
 SECTION: S  
 TOWNSHIP: 5  
 RANGE: E

SHEET 15  
 OF 17



AIM Engineering & Surveying, Inc.  
 CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
 3151 FOWLER STREET, SUITE 100  
 FORT MYERS, FLORIDA 33901  
 www.aimengr.com

CLIENT: CHARLOTTE COUNTY  
 DRAWN: RH  
 CHECKED: DT  
 DATE: 06-17-2025  
 DATE: 06-19-2025

CERTIFICATE OF AUTHORIZATION No. 3114  
 TOLL FREE 888-326-4569  
 PHONE 239-332-4569

PROJECT NAME: WOF 345 BUENA VISTA EXTERIOR  
 PREPARED BY: AIM ENGINEERING & SURVEYING, INC.  
 SEE SHEET 1  
 GARRETT TOWNSEND  
 PROFESSOR OF PRACTICE  
 FLORIDA CERTIFICATE NO. 6676

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FIELD BOOK: 1886  
 PAGE: 54-57

NO. 1  
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DATE: BY: REVISIONS:

# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA

## CREEK DRIVE WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+55	0	0	0
1+00	45	215	215
1+50	50	246	462
2+00	50	245	706
2+50	50	277	983
3+00	50	308	1291
3+50	50	353	1645
4+00	50	305	1950
4+50	50	252	2202
5+00	50	249	2451
5+50	50	253	2705
6+00	50	238	2943
6+50	50	212	3155
7+00	50	186	3341
7+50	50	131	3471
8+00	50	150	3621
8+50	50	57	3679
9+00	50	21	3700
9+50	50	17	3717
10+00	50	28	3745
10+50	50	38	3783
11+00	50	50	3833
11+50	50	42	3876
12+00	50	0	3876
12+50	50	51	3927
13+00	50	19	3945
13+50	50	20	3965
14+00	50	12	3977
14+50	50	9	3986
15+00	50	19	4006
15+50	50	18	4024
16+00	50	17	4040
16+50	50	6	4047
17+00	50	2	4048
17+50	50	3	4051
18+00	50	1	4052
18+50	50	1	4054
19+00	50	0	4054
19+50	50	0	4054
20+00	50	0	4054
20+50	50	0	4054

CREEK DRIVE TOTAL CY = 4,054

## ELKHAM WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
-3+00	0	0	0
-2+50	50	0	0
-2+00	50	0	0
-1+50	50	0	0
-1+00	50	0	0
-0+50	50	0	0
0+00	50	0	0
0+50	50	13	13
1+00	50	46	59
1+50	50	80	139
2+00	50	108	247
2+50	50	118	365
3+00	50	114	479
3+50	50	97	576
4+00	50	80	656
4+50	50	67	723
5+00	50	65	788
5+50	50	60	848
6+00	50	56	904
6+50	50	56	960
7+00	50	61	1021
7+50	50	57	1079
8+00	50	59	1138
8+50	50	68	1206
9+00	50	94	1300
9+50	50	104	1403
10+00	50	104	1507
10+50	50	132	1639
11+00	50	120	1759
11+50	50	116	1875
12+00	50	133	2008
12+50	50	128	2136
13+00	50	126	2262
13+50	50	119	2381
14+00	50	151	2532
14+50	50	145	2677
15+00	50	140	2817
15+50	50	117	2935
16+00	50	126	3061
16+50	50	120	3180
17+00	50	140	3320
17+50	50	116	3436
18+00	50	92	3527
18+50	50	79	3606
19+00	50	84	3690
19+50	50	59	3749
20+00	50	49	3798
20+50	50	32	3830
21+00	50	26	3856
21+50	50	5	3861
22+00	50	9	3869
22+50	50	2	3871
23+00	50	1	3872

ELKHAM TOTAL CY = 3,955

## GEORGE ROAD WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
23+50	50	4	3876
24+00	50	1	3876
24+50	50	3	3880
25+00	50	3	3883
25+50	50	6	3889
26+00	50	5	3894
26+50	50	3	3898
27+00	50	2	3899
27+50	50	2	3901
28+00	50	6	3907
28+50	50	15	3923
29+00	50	19	3941
29+37	37	14	3955
200+20	0	0	0
200+50	30	55	55
201+00	50	67	122
201+50	50	63	185
202+00	50	62	247
202+50	50	57	304
203+00	50	54	358
203+50	50	75	433
204+00	50	79	512
204+50	50	79	591
205+00	50	87	678
205+50	50	89	767
206+00	50	79	846
206+50	50	81	927
207+00	50	72	999
207+50	50	51	1050
208+00	50	48	1098
208+50	50	29	1127

GEORGE ROAD TOTAL CY = 1,127

## BEENEY WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
0+00	0	0	0
0+03	2	0	0
0+50	47	0	0
1+00	50	2	2
1+50	50	2	5
2+00	50	0	5
2+50	50	0	5
3+00	50	0	5
3+50	50	6	11
4+00	50	37	47
4+50	50	76	123
5+00	50	97	221
5+50	50	121	342
6+00	50	98	440
6+50	50	92	532
7+00	50	76	608
7+50	50	62	671
8+00	50	56	726
8+50	50	57	783
9+00	50	42	825
9+50	50	42	868
10+00	50	35	903
10+50	50	31	933
11+00	50	19	952
11+50	50	22	974
12+04	54	19	993

BEENEY TOTAL CY = 993

# HYDROGRAPHIC SURVEY

BUENA VISTA WATERWAY  
CHARLOTTE COUNTY, FLORIDA

## LATERAL CHANNEL WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
400+53	0	0	0
401+00	47	0	0
401+50	50	17	17
402+00	50	44	61
402+50	50	55	115
403+00	50	50	165
403+50	50	37	203
404+00	50	28	230
404+50	50	24	255
405+00	50	35	289
405+50	50	53	343
406+00	50	59	401
406+50	50	65	466
407+00	50	72	538
407+50	50	55	593
408+00	50	56	649
408+50	50	79	728
409+00	50	85	812
409+50	50	71	883
410+00	50	53	937
410+50	50	57	994
411+00	50	59	1053
411+50	50	72	1125
412+00	50	96	1222
412+50	50	96	1318
413+00	50	89	1407
413+50	50	88	1495
414+00	50	86	1581
414+50	50	91	1672
415+00	50	84	1756
415+50	50	89	1845
416+00	50	101	1947
416+50	50	96	2042
417+00	50	89	2131
417+50	50	80	2211
418+00	50	92	2303
418+50	50	104	2406
419+00	50	101	2508
419+50	50	100	2607
420+00	50	95	2703
420+50	50	68	2771
421+00	50	37	2808
421+50	50	14	2822
422+00	50	0	2823
422+50	50	14	2837
423+00	50	38	2874
423+50	50	47	2922
424+00	50	58	2980
424+50	50	76	3056
425+00	50	73	3129
425+50	50	54	3183
426+00	50	60	3244
426+50	50	81	3325

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
427+00	50	86	3411
427+50	50	87	3498
428+00	50	96	3594
428+50	50	106	3700
429+00	50	116	3817
429+18	18	50	3867

LATERAL CHANNEL TOTAL CY = 3,867

## GARDNER WATERWAY

VOLUME ABOVE DREDGE TEMPLATE			
STA.	DIST. (FT) TO PREVIOUS STA.	VOL. (CY)	CUMULATIVE VOL. (CY)
-0+11	0	0	0
0+00	11	5	5
0+39	39	13	18
0+56	16	4	23
1+71	115	11	34
2+00	29	20	54
2+50	50	108	162
3+00	50	116	278
3+50	50	125	403
4+00	50	108	511
4+50	50	142	653
5+00	50	106	760
5+50	50	101	860
6+00	50	73	933
6+50	50	65	998
7+00	50	55	1053
7+50	50	76	1129
8+00	50	92	1221
8+50	50	82	1303
9+00	50	88	1391
9+50	50	82	1473
10+00	50	65	1538
10+50	50	44	1583
11+00	50	37	1620
11+50	50	39	1659
12+00	50	40	1699
12+50	50	38	1737
13+00	50	32	1768
13+50	50	29	1798
14+00	50	25	1823
14+50	50	33	1856
15+00	50	25	1881
15+50	50	30	1911
16+00	50	20	1931
16+50	50	22	1953
17+00	50	22	1975
17+50	50	19	1994
18+00	50	5	1999
18+27	27	4	2003

GARDNER TOTAL CY = 2,003

COMBINED TOTAL CY = 15,999

HYDROGRAPHIC SURVEY  
BUENA VISTA WATERWAY

PROJECT NO.: 25-2079\_HYDRO  
COUNTY: CHARLOTTE  
SHEET: 17  
RANGE: S  
TOWNSHIP: 5  
E



AIM Engineering & Surveying, Inc.  
CIVIL \* SANITARY \* TRANSPORTATION \* DEVELOPMENT \* PROJECT MANAGEMENT  
3161 FOWLER STREET, SUITE 100  
FORT WALKER, FLORIDA 33801  
www.aimengr.com

CERTIFICATE OF AUTHORIZATION No. 3114  
DATE: 06-17-2025  
DRAWN: RH  
CHECKED: DT  
DATE: 06-19-2025

PROJECT NAME:  
WOF 345 BUENA VISTA EXTERIOR  
PREPARED BY: AIM ENGINEERING & SURVEYING, INC.  
SEE SHEET 1  
DARREN TOWNSEND  
PROFESSOR OF SURVEYING  
FLORIDA CERTIFICATE NO. 1886

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