

PUBLISHED TIDAL INFORMATION

TIDAL DATUMS AT PUNTA GORDA, CHARLOTTE COUNTY ARE BASED ON FLORIDA 872 5744 TIDE STATION, PUBLISHED 10-18-2010.
LENGTH OF SERIES = 8 MONTHS
TIME PERIOD = 7/1977 - 2/1978
TIDAL EPOCH = 1963 - 2001
CONTROL TIDE STATION = 872 5110 NAPLES, GULF OF MEXICO
ELEVATIONS OF TIDAL DATUMS ARE REFERENCED IN NAVD88.
MEAN HIGH WATER (MHW) = +0.06 FT NAVD88
MEAN TIDE LEVEL (MTL) = -0.57 FT NAVD88
MEAN LOW WATER (MLW) = -1.20 FT NAVD88
MEAN LOWER LOW WATER (MLLW) = -1.65 FT NAVD88

NOTES

- BATHYMETRIC SURVEYS COMPLETED BY COASTAL ENGINEERING CONSULTANTS, INC. (CEC) ON 2/6/2018, 10/9/2019, AND 5/23/2023.
- POST-MILTON BATHYMETRIC SURVEY COMPLETED BY CEC ON 4/18/2025.
- CHANNEL MARKERS WERE LOCATED BY CEC ON 4/18/2025.
- 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 (NAVD88). REFERENCE BENCHMARKS: USGS BENCHMARK E800 (PID DQ6186), N: 931,720.028, E: 638,358.928, ELEV. = +2.11' NAVD88, F800 (PID DQ6187), N: 933,728.683, E: 640,704.647, ELEV. = +1.41' NAVD88, AND G800 (PID DQ6188), N: 935,468.170, E: 643,318.897, ELEV. = +3.59' NAVD88.
- 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 FDOT, DATED 2023.

BENCHMARK
DESC: E800 (PID DQ6186)
N: 931,720.03
E: 638,358.93
ELEV: 2.11' NAVD88

BENCHMARK
DESC: F800 (PID DQ6187)
N: 933,728.68
E: 640,704.65
ELEV: 1.41' NAVD88

CHARLOTTE
HARBOR

RIVIERA
MARINA

U.S. 41

SHEET 2

SHEET 2

SHEET 3

SHEET 3

SHEET 4

SHEET 4

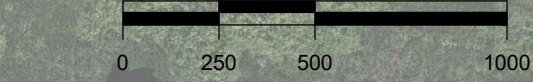
SHEET 5

SHEET 5

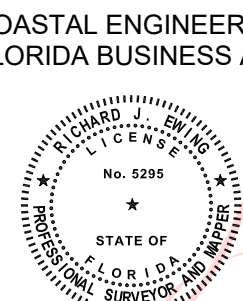
SHEET 6

SHEET 6

SHEET 7



- LEGEND
- ■ ▲ = EXISTING CHANNEL MARKERS
 - = EXISTING INFORMATIONAL SIGN
 - 0+00 = CHANNEL STATION



COASTAL ENGINEERING CONSULTANTS, INC.
FLORIDA BUSINESS AUTHORIZATION NO. LB 2464

Digitally signed by Richard J Ewing
DN: c=US, o=Unaffiliated, dnQualifier=A01410C000001
92FCAAB486000CA976,
cn=Richard J Ewing
Date: 2025.05.22 11:20:40 -04'00'

RICHARD J. EWING, VP
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
DATE OF FIELD SURVEY: 4/18/2025
DATE OF SIGNATURE:

COASTAL
ENGINEERING
CONSULTANTS
INC.

Serving Florida Since 1977
28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

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

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

CLIENT: CHARLOTTE COUNTY

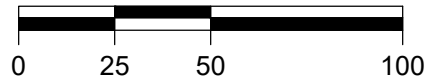
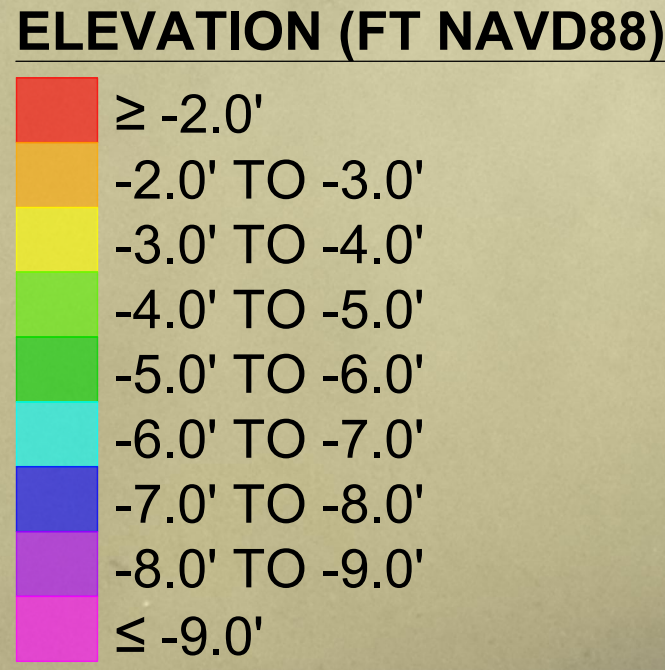
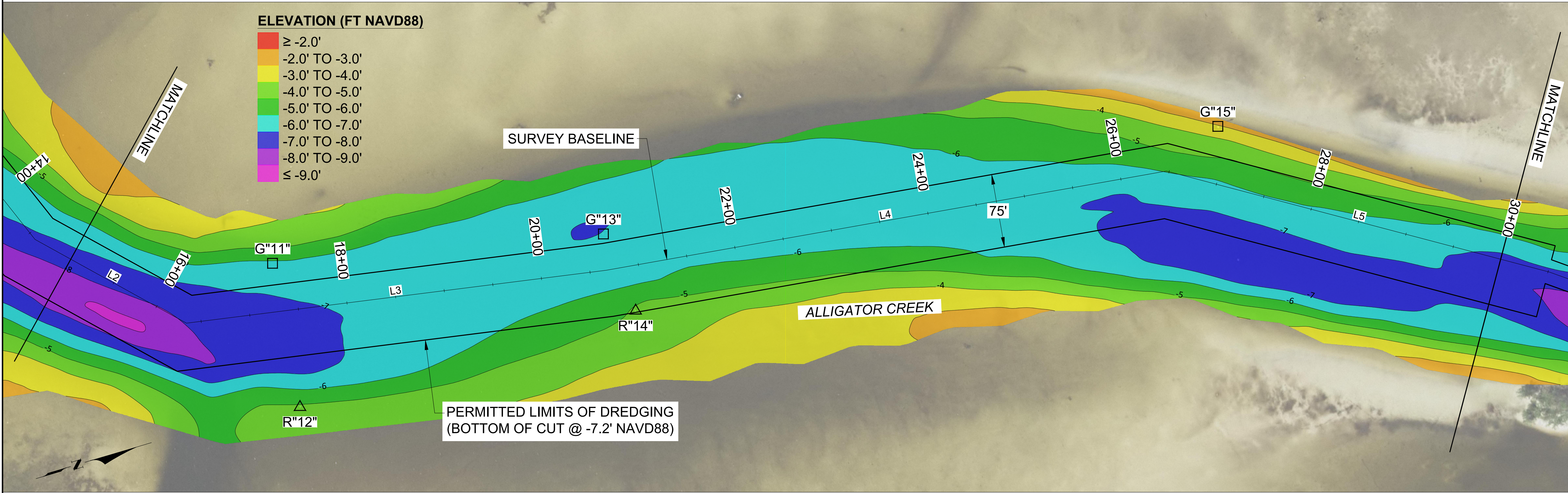
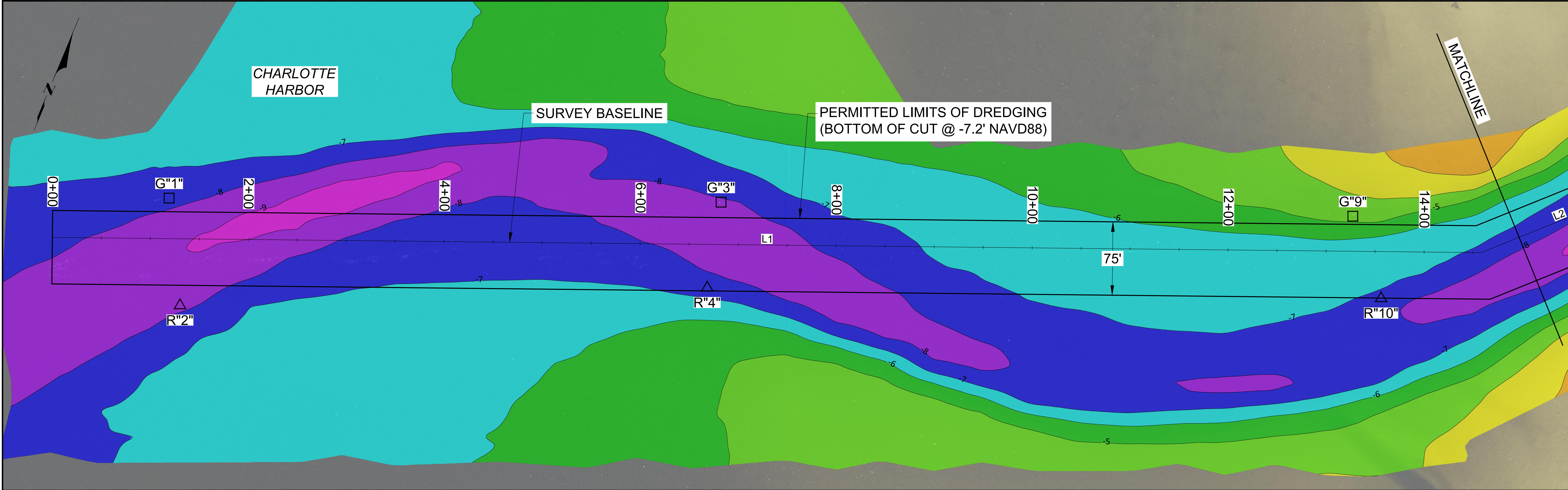
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BATHYMETRIC SURVEY
OVERALL PLAN VIEW

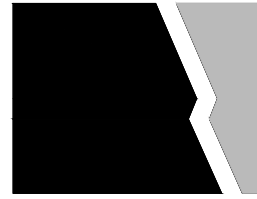
DATE: 5/13/2025
DRAWN: VVA
CHECKED: RJE
SEC: TWP.
ACAD NO: 22210-Alligator Creek_Post-Milton.dwg
REF. NO: 22,210

AS NOTED
F.B.
RJE
RNG.
NO. 22,210
DATE
BY
REVISION DESCRIPTION

SHEET 1

FILE NO.: 22210-ALLIG-1





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

FILE NO.: 22210-ALLIG-2

SHEET 2

CLIENT:
CHARLOTTE COUNTY

TITLE:
ALLIGATOR CREEK BATHYMETRIC SURVEY
PLAN VIEW: STA 0+00 TO 30+00

DATE:
5/13/2025

DRAWN:
VVA

CHECKED:
RJE

SEC.
ACAD NO.
REF. NO.

SCALE:
AS NOTED

F.B.
VVA

RJE
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22210-Alligator Creek_Post-Milton.dwg

22,210

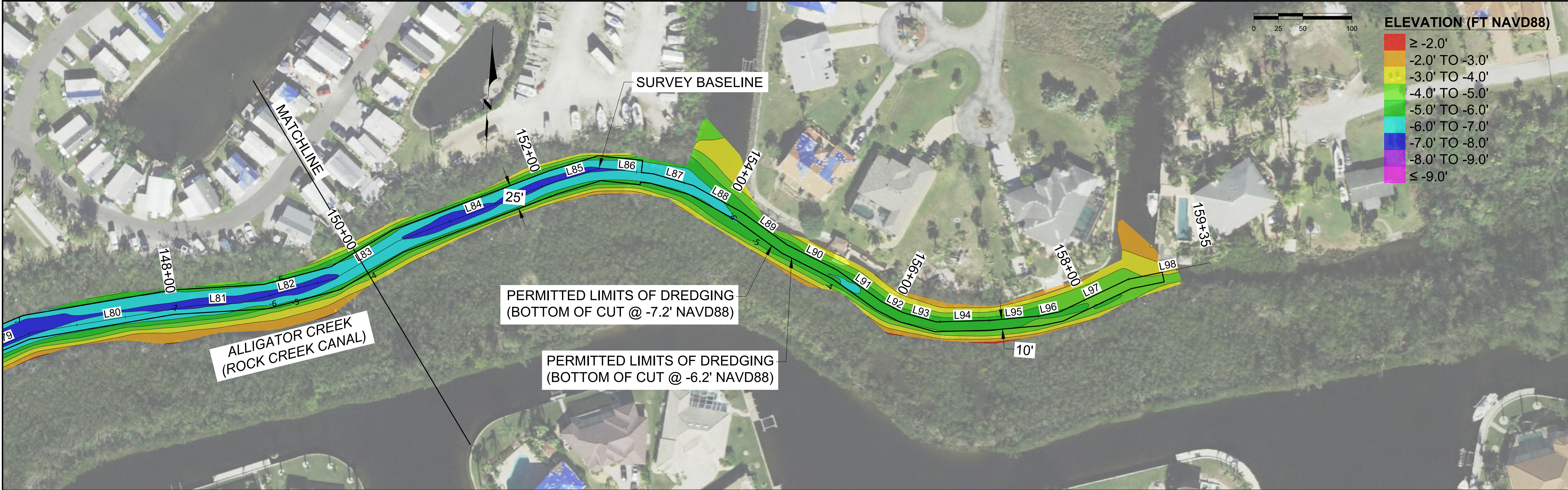
NO.

DATE

BY

REVISION DESCRIPTION

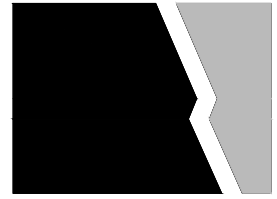
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SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (N, E)	END POINT (N, E)
L1	N68° 01' 16"E	1458.31'	923410.60', 634427.67'	923956.39', 635779.99'
L2	N45° 24' 39"E	176.60'	923956.39', 635779.99'	924080.37', 635905.76'
L3	N9° 17' 05"E	431.94'	924080.37', 635905.76'	924506.65', 635975.45'
L4	N6° 26' 03"E	580.41'	924506.65', 635975.45'	925083.40', 636040.49'
L5	N31° 14' 24"E	404.03'	925083.40', 636040.49'	925428.85', 636250.03'
L6	N36° 17' 14"E	127.64'	925428.85', 636250.03'	925531.73', 636325.57'
L7	N18° 42' 40"E	247.26'	925531.73', 636325.57'	925765.93', 636404.89'
L8	N6° 04' 40"W	243.36'	925765.93', 636404.89'	926007.93', 636379.12'
L9	N1° 46' 23"W	250.59'	926007.93', 636379.12'	926258.40', 636371.37'
L10	N4° 10' 53"E	285.24'	926258.40', 636371.37'	926542.88', 636392.17'
L11	N33° 25' 07"E	105.08'	926542.88', 636392.17'	926630.59', 636450.04'
L12	N47° 37' 34"E	262.96'	926630.59', 636450.04'	926807.82', 636644.31'
L13	N64° 01' 06"E	475.83'	926807.82', 636644.31'	927016.27', 637072.05'
L14	N26° 48' 04"E	858.72'	927016.27', 637072.05'	927782.75', 637459.25'
L15	N49° 18' 29"E	536.58'	927782.75', 637459.25'	928132.59', 637866.09'
L16	N58° 31' 59"E	458.44'	928132.59', 637866.09'	928371.90', 638257.12'
L17	S88° 22' 15"E	267.80'	928371.90', 638257.12'	928364.29', 638524.81'
L18	N84° 14' 24"E	176.06'	928364.29', 638524.81'	928381.96', 638699.98'
L19	N78° 50' 00"E	64.27'	928381.96', 638699.98'	928394.41', 638763.03'
L20	N48° 40' 50"E	210.47'	928394.41', 638763.03'	928533.37', 638921.10'
L21	N43° 30' 58"E	136.82'	928533.37', 638921.10'	928632.60', 639015.32'
L22	N17° 54' 38"E	276.57'	928632.60', 639015.32'	928895.76', 639100.37'
L23	N42° 33' 46"E	218.39'	928895.76', 639100.37'	929056.61', 639248.09'
L24	N49° 41' 16"E	100.79'	929056.61', 639248.09'	929121.82', 639324.94'
L25	N42° 33' 46"E	189.12'	929121.82', 639324.94'	929261.11', 639452.86'
L26	N36° 58' 17"E	173.50'	929261.11', 639452.86'	929399.73', 639557.21'
L27	N7° 19' 52"E	80.11'	929399.73', 639557.21'	929479.18', 639567.43'
L28	N10° 10' 08"W	218.06'	929479.18', 639567.43'	929693.81', 639528.93'
L29	N1° 53' 41"W	97.98'	929693.81', 639528.93'	929791.74', 639525.69'
L30	N9° 31' 48"E	99.05'	929791.74', 639525.69'	929889.42', 639542.09'
L31	N14° 02' 04"E	88.98'	929889.42', 639542.09'	929975.74', 639563.67'
L32	N6° 41' 11"E	59.92'	929975.74', 639563.67'	930035.25', 639570.64'
L33	N23° 37' 53"E	230.01'	930035.25', 639570.64'	930245.97', 639662.84'
L34	N27° 37' 08"E	56.37'	930245.97', 639662.84'	930295.92', 639688.98'
L35	N42° 14' 18"E	88.00'	930295.92', 639688.98'	930361.07', 639748.13'

SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (N, E)	END POINT (N, E)
L36	N67° 57' 20"E	164.20'	930361.07', 639748.13'	930422.70', 639900.33'
L37	N58° 13' 59"E	165.04'	930422.70', 639900.33'	930509.59', 640040.65'
L38	N32° 46' 18"E	100.52'	930509.59', 640040.65'	930594.11', 640095.06'
L39	N7° 59' 33"E	347.17'	930594.11', 640095.06'	930937.90', 640143.33'
L40	N2° 36' 08"E	394.88'	930937.90', 640143.33'	931332.38', 640161.26'
L41	N10° 18' 26"E	199.28'	931332.38', 640161.26'	931528.44', 640196.92'
L42	N59° 07' 39"E	33.26'	931528.44', 640196.92'	931545.50', 640225.46'
L43	N62° 00' 31"E	323.29'	931545.50', 640225.46'	931697.24', 640510.93'
L44	S60° 50' 28"E	288.90'	931697.24', 640510.93'	931556.46', 640763.22'
L45	S83° 35' 12"E	66.94'	931556.46', 640763.22'	931549.00', 640829.74'
L46	N89° 09' 34"E	78.40'	931549.00', 640829.74'	931550.15', 640908.13'
L47	N83° 01' 55"E	104.52'	931550.15', 640908.13'	931562.83', 641011.88'
L48	N65° 46' 44"E	126.41'	931562.83', 641011.88'	931614.69', 641127.16'
L49	N53° 18' 27"E	86.52'	931614.69', 641127.16'	931666.39', 641196.54'
L50	N45° 33' 17"E	83.26'	931666.39', 641196.54'	931724.69', 641255.98'
L51	N31° 36' 52"E	70.37'	931724.69', 641255.98'	931784.62', 641292.87'
L52	N16° 03' 03"E	163.30'	931784.62', 641292.87'	931941.55', 641338.02'
L53	N11° 20' 14"E	136.38'	931941.55', 641338.02'	932075.27', 641364.83'
L54	N5° 12' 25"E	102.58'	932075.27', 641364.83'	932177.43', 641374.14'
L55	N23° 36' 39"E	99.79'	932177.43', 641374.14'	932268.87', 641414.11'
L56	N44° 15' 51"E	83.69'	932268.87', 641414.11'	932328.80', 641472.52'
L57	N67° 13' 19"E	83.35'	932328.80', 641472.52'	932361.07', 641549.37'
L58	N85° 04' 01"E	107.22'	932361.07', 641549.37'	932370.29', 641656.19'
L59	N53° 24' 13"E	67.01'	932370.29', 641656.19'	932410.24', 641709.99'
L60	N37° 24' 49"E	49.33'	932410.24', 641709.99'	932449.42', 641739.96'
L61	N80° 50' 30"E	92.67'	932449.42', 641739.96'	932464.17', 641831.45'
L62	N82° 14' 14"E	102.39'	932464.17', 641831.45'	932478.00', 641932.90'
L63	N81° 25' 16"E	149.16'	932478.00', 641932.90'	932500.25', 642080.39'
L64	N77° 11' 17"E	78.10'	932500.25', 642080.39'	932517.57', 642156.55'
L65	N68° 36' 48"E	53.36'	932517.57', 642156.55'	932537.03', 642206.24'
L66	N63° 26' 36"E	61.87'	932537.03', 642206.24'	932564.69', 642261.58'
L67	N43° 27' 24"E	87.16'	932564.69', 642261.58'	932627.96', 642321.53'
L68	N59° 32' 39"E	85.88'	932627.96', 642321.53'	932671.49', 642395.56'
L69	N54° 10' 11"E	65.86'	932671.49', 642395.56'	932710.05', 642448.96'
L70	N19° 37' 05"E	41.83'	932710.05', 642448.96'	932749.45', 642463.00'

SURVEY BASELINE LINE TABLE				
LINE #	DIRECTION	LENGTH	START POINT (N, E)	END POINT (N, E)
L71	N8° 53' 01"E	42.20'	932749.45', 642463.00'	932791.14', 642469.52'
L72	N15° 44' 38"E	136.60'	932791.14', 642469.52'	932922.81', 642506.64'
L73	N34° 00' 54"E	97.78'	932922.81', 642506.64'	933003.86', 642561.34'
L74	N43° 16' 30"E	81.52'	933003.86', 642561.34'	933063.21', 642617.22'
L75	N51° 01' 22"E	24.53'	933063.21', 642617.22'	933078.64', 642636.29'
L76	N61° 07' 35"E	18.76'	933078.64', 642636.29'	933087.70', 642652.72'
L77	N41° 54' 29"E	60.17'	933087.70', 642652.72'	933132.48', 642692.91'
L78	N52° 59' 34"E	56.70'	933132.48', 642692.91'	933166.61', 642738.19'
L79	N62° 57' 59"E	55.22'	933166.61', 642738.19'	933191.71', 642787.38'
L80	N76° 22' 36"E	169.47'	933191.71', 642787.38'	933231.63', 642952.08'
L81	N83° 06' 41"E	45.89'	933231.63', 642952.08'	933237.13', 642997.64'
L82	N71° 04' 00"E	100.75'	933237.13', 642997.64'	933269.82', 643092.94'
L83	N54° 59' 45"E	74.14'	933269.82', 643092.94'	933312.35', 643153.67'
L84	N65° 05' 03"E	169.39'	933312.35', 643153.67'	933383.71', 643307.29'
L85	N68° 47' 03"E	49.60'	933383.71', 643307.29'	933401.66', 643353.53'
L86	S88° 13' 10"E	54.69'	933401.66', 643353.53'	933399.96', 643408.19'
L87	S77° 54' 32"E	42.66'	933399.96', 643408.19'	933391.02', 643449.91'
L88	S65° 22' 10"E	57.32'	933391.02', 643449.91'	933367.14', 643502.01'
L89	S58° 20' 06"E	56.37'	933367.14', 643502.01'	933337.54', 643549.99'
L90	S67° 20' 40"E	57.24'	933337.54', 643549.99'	933315.49', 643602.82'
L91	S58° 47' 19"E	55.68'	933315.49', 643602.82'	933286.64', 643650.44'
L92	S66° 56' 22"E	24.33'	933286.64', 643650.44'	933277.11', 643672.83'
L93	S78° 38' 22"E	35.33'	933277.11', 643672.83'	933270.15', 643707.46'
L94	N84° 14' 23"E	54.26'	933270.15', 643707.46'	933275.60', 643761.45'
L95	N80° 44' 02"E	51.04'	933275.60', 643761.45'	933283.81', 643811.83'
L96	N74° 09' 28"E	21.78'	933283.81', 643811.83'	933289.76', 643832.78'
L97	N60° 18' 40"E	76.96'	933289.76', 643832.78'	933327.88', 643899.64'
L98	N74° 16' 26"E	84.98'	933327.88', 643899.64'	933350.91', 643981.44'



COASTAL
ENGINEERING
CONSULTANTS
INC.

Serving Florida Since 1977

28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

CLIENT:

CHARLOTTE COUNTY

TITLE:

ALLIGATOR CREEK BATHYMETRIC SURVEY
PLAN VIEW: STA 150+00 TO 159+35
AND COORDINATE TABLE

DATE:

5/13/2025

SCALE:

AS NOTED

DRAWN:

VVA

CHECKED:

RJE

SEC:

TWP.

ACAD NO:

22210-Alligator Creek_Post-Milton.dwg

REF. NO:

22.210

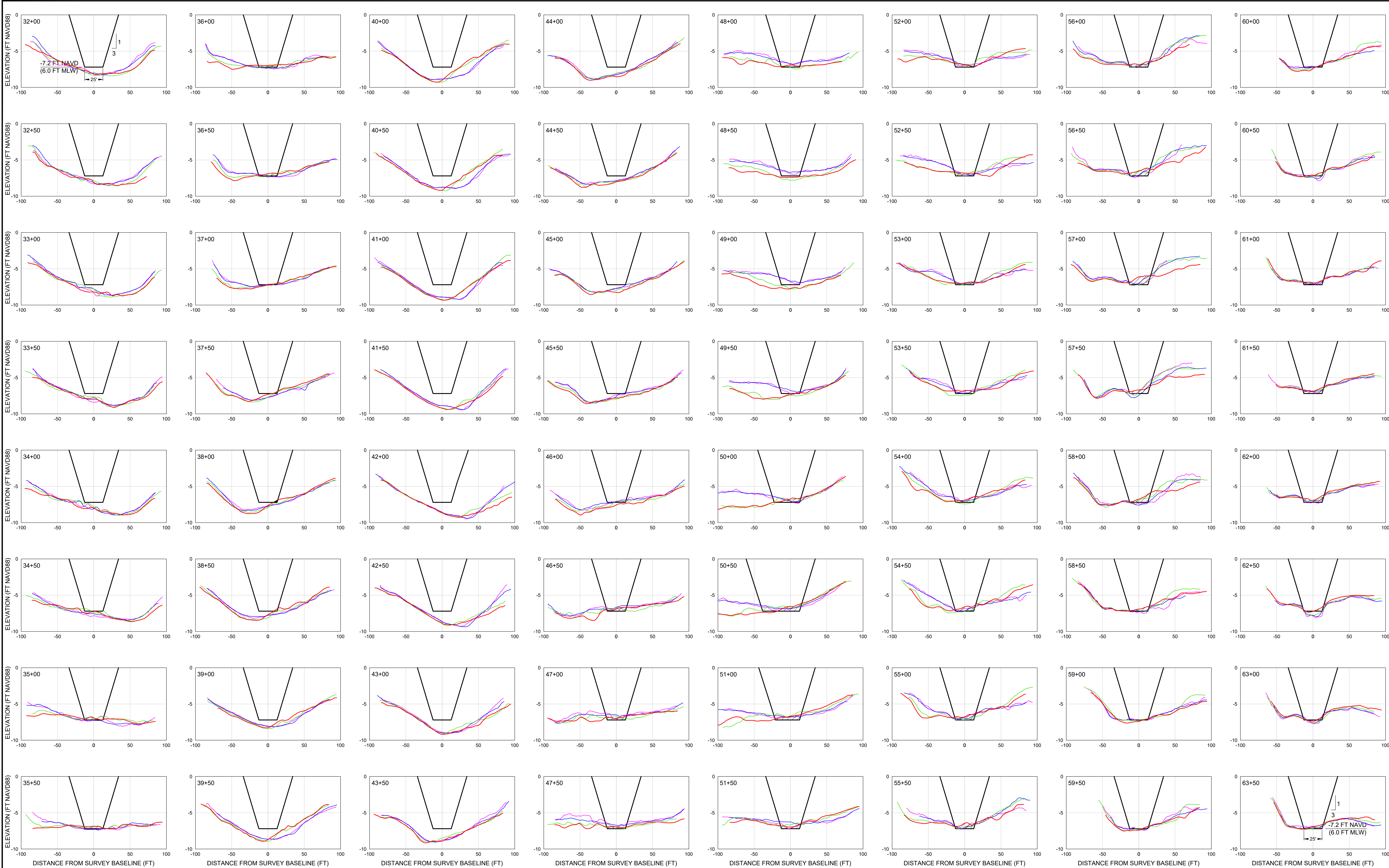
NO.

22.210

DATE

BY

REVISION DESCRIPTION



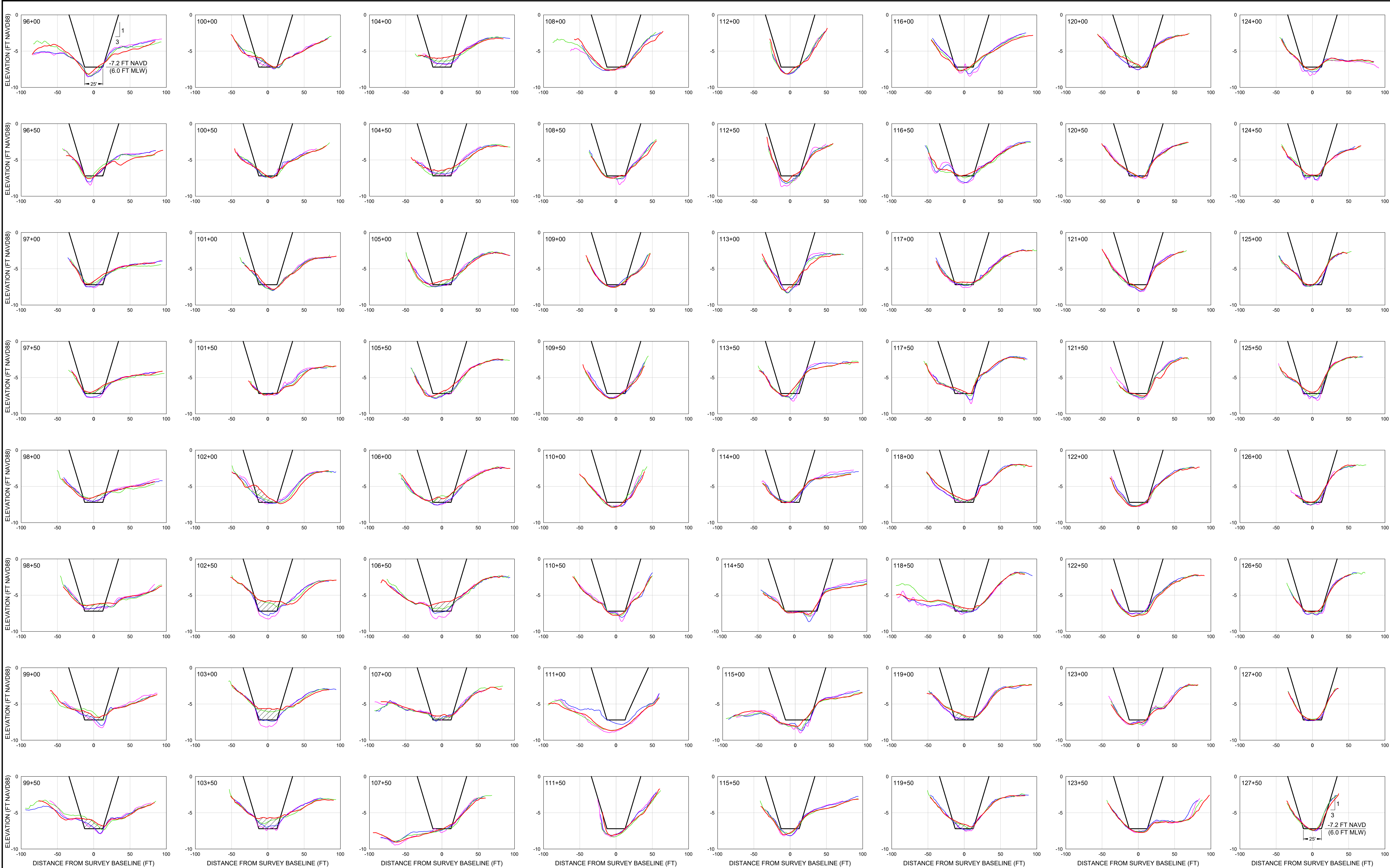
LEGEND

= 2/6/2018 SURVEY
= 10/9/2019 SURVEY
= 5/23/2023 SURVEY
= 4/18/2025 SURVEY

= DREDGE AREA

SCALE:
H: 1" = 60'
V: 1" = 6'

COASTAL ENGINEERING CONSULTANTS INC. Serving Florida Since 1977 28421 BONITA CROSSINGS BLVD BONITA SPRINGS, FLORIDA 34135										COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464										CLIENT: CHARLOTTE COUNTY										TITLE:																													
										DATE: 5/13/2025										SCALE: AS NOTED																																							
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										REF. NO.										22.210										BY										NO.										REVISION DESCRIPTION									



LEGEND

— = 2/6/2018 SURVEY
— = 10/9/2019 SURVEY
— = 5/23/2023 SURVEY
— = 4/18/2025 SURVEY

▨ = DREDGE AREA

SCALE:
H: 1" = 60'
V: 1" = 6'

COASTAL & MARINE ENGINEERING
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28421 BONITA CROSSINGS BLVD
BONITA SPRINGS, FLORIDA 34135

Serving Florida Since 1977

COASTAL
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INC.

ALLIGATOR CREEK BATHYMETRIC SURVEY
CROSS SECTIONS: STA 96+00 TO 127+50

DATE: 5/13/2025
DRAWN: VVA
CHECKED: RJE
SEC. TWP. RNG.
ACAD NO. 22210-Alligator Creek_PostMilton.dwg
REF. NO. 22.210

DATE: 5/13/2025
DRAWN: VVA
CHECKED: RJE
SEC. TWP. RNG.
ACAD NO. 22210-Alligator Creek_PostMilton.dwg
REF. NO. 22.210

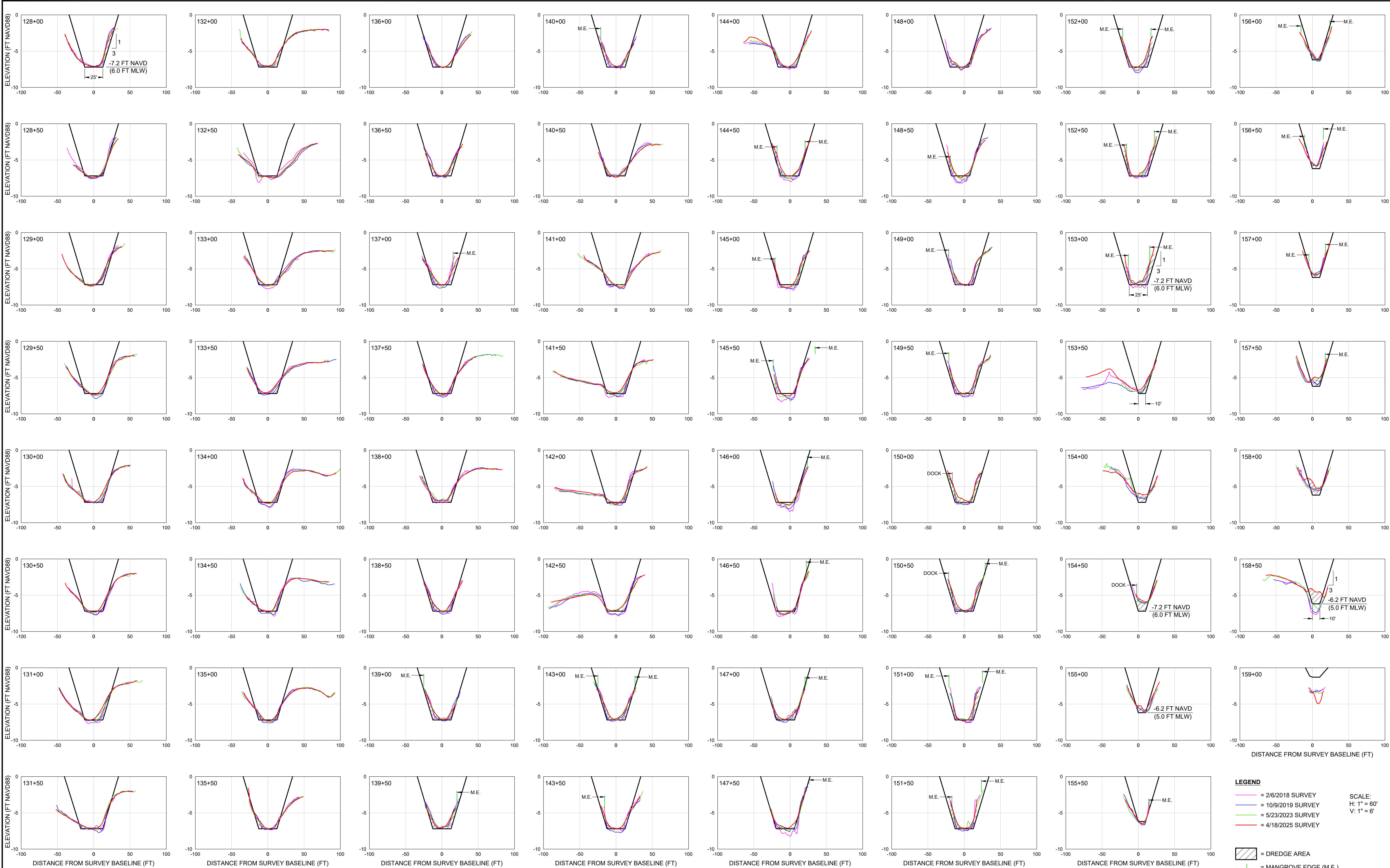
CLIENT: CHARLOTTE COUNTY

AS NOTED
F.B.
R/E
P.G.
RNG.

DATE: 5/13/2025
DRAWN: VVA
CHECKED: RJE
SEC. TWP. RNG.
ACAD NO. 22210-Alligator Creek_PostMilton.dwg
REF. NO. 22.210

FILE NO.: 22210-ALLIG-11

SHEET 11



DATE: 5/13/2025

SCALE: 1" = 60'

DRAWN: VVA

AS NOTED

CHECKED: RJE

SEC: TWP.

ACAD NO. 22210-Alligator Creek_Post-Milton.dwg

REF. NO. 22.210

CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464

PHONE: (239)643-2324 FAX: (239)643-1143 www.coastal-engineering.com E-Mail: info@cecil.com

CHARLOTTE COUNTY

ALLIGATOR CREEK BATHYMETRIC SURVEY CROSS SECTIONS: STA 128+00 TO 159+00

TITLE:

28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FLORIDA 34135

Serving Florida Since 1977

FILE NO.: 22210-ALLIG-12

SHEET 12