Appendix E

As-Built or Final Process Surveys

INDEX TO SHEETS

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4	EQUIPMENT ACCESS CORRIDOR 1 (EAC 1)_INCREMENT 1) SURVEY PLAN VIEW
5 - 7	EQUIPMENT ACCESS CORRIDOR 1 (EAC 1)_INCREMENT 1) CROSS-SECTION VIEWS
8	EQUIPMENT ACCESS CORRIDOR 1 (EAC 1)_INCREMENT 1) PROFILE VIEWS
9	EQUIPMENT ACCESS CORRIDOR 2 (EAC 2)_INCREMENT 1 SURVEY PLAN VIEW
10	EQUIPMENT ACCESS CORRIDOR 2 (EAC 2)_INCREMENT 1 CROSS-SECTION VIEWS
11	EQUIPMENT ACCESS CORRIDOR 2 (EAC 2)_INCREMENT 1 PROFILE VIEWS
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INDEX TO SHEETS

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32	EQUIPMENT ACCESS CORRIDOR 1 (EAC 1)_INCREMENT 4 CROSS-SECTION VIEWS
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STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

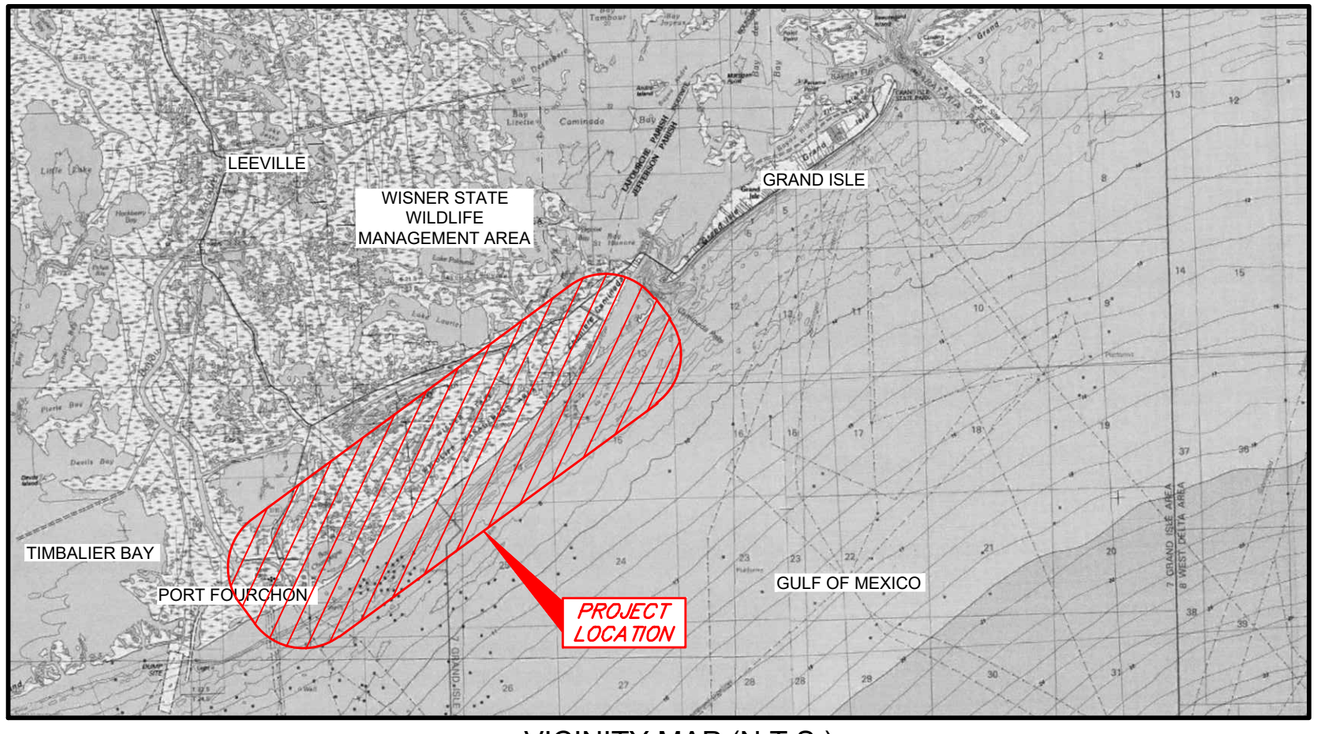
KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK AS-BUILT SURVEY (12-13-22) EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4 INCREMENTS 1, 2, 3 & 4

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/19/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg | SHEET: 1 OF 33

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. RESUMING WORK PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC BETWEEN 02-07-22 AND 03-31-22 INCLUSIVE.
5. AS-BUILT EQUIPMENT ACCESS CORRIDOR DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 11-30-22, 12-07-22, 12-08-22, 12-09-22 AND 12-13-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL
MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL
TRAINING DIKE 3

EARTHEN CONTAINMENT
DIKE ALIGNMENT

BAYOU MOREAU

INCREMENT 3

THREAD_01

50' BEACH AND
DUNE CROSSING

GULF OF MEXICO

EQUIPMENT ACCESS
CORRIDOR (EA3)

EQUIPMENT ACCESS
CORRIDOR (EA1)

DREDGE PIPELINE CORRIDOR

INTERNAL
TRAINING DIKE 2

EQUIPMENT ACCESS
CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS
CORRIDOR (EA2)

INTERNAL
TRAINING DIKE 1

50' BEACH AND
DUNE CROSSING

BAYOU LAFOURCHE

PORT FOURCHON
MARINA

INCREMENT 1

DREDGE PIPELINE CORRIDOR

DREDGE PIPELINE CORRIDOR

SW BORROW AREA

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

GULF OF MEXICO

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

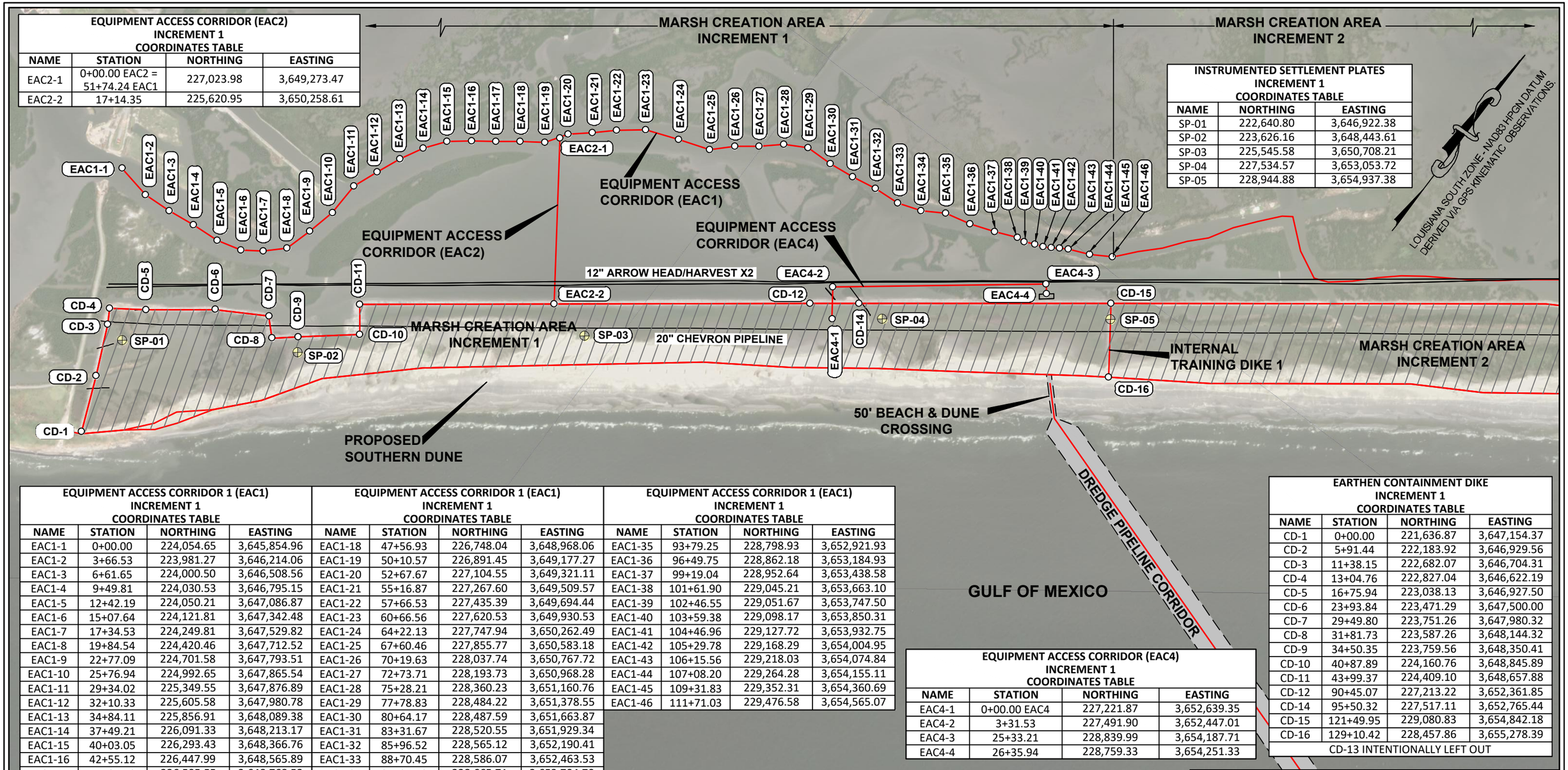
HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/19/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg | SHEET: 2 OF 33



EQUIPMENT ACCESS CORRIDOR (EAC2) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC2-1	0+00.00 EAC2 = 51+74.24 EAC1	227,023.98	3,649,273.47
EAC2-2	17+14.35	225,620.95	3,650,258.61

INSTRUMENTED SETTLEMENT PLATES INCREMENT 1 COORDINATES TABLE

NAME	NORTHING	EASTING
SP-01	222,640.80	3,646,922.38
SP-02	223,626.16	3,648,443.61
SP-03	225,545.58	3,650,708.21
SP-04	227,534.57	3,653,053.72
SP-05	228,944.88	3,654,937.38

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-1	0+00.00	224,054.65	3,645,854.96
EAC1-2	3+66.53	223,981.27	3,646,214.06
EAC1-3	6+61.65	224,000.50	3,646,508.56
EAC1-4	9+49.81	224,030.53	3,646,795.15
EAC1-5	12+42.19	224,050.21	3,647,086.87
EAC1-6	15+07.64	224,121.81	3,647,342.48
EAC1-7	17+34.53	224,249.81	3,647,529.82
EAC1-8	19+84.54	224,420.46	3,647,712.52
EAC1-9	22+77.09	224,701.58	3,647,793.51
EAC1-10	25+76.94	224,992.65	3,647,865.54
EAC1-11	29+34.02	225,349.55	3,647,876.89
EAC1-12	32+10.33	225,605.58	3,647,980.78
EAC1-13	34+84.11	225,856.91	3,648,089.38
EAC1-14	37+49.21	226,091.33	3,648,213.17
EAC1-15	40+03.05	226,293.43	3,648,366.76
EAC1-16	42+55.12	226,447.99	3,648,565.89
EAC1-17	45+05.79	226,595.55	3,648,768.52

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-18	47+56.93	226,748.04	3,648,968.06
EAC1-19	50+10.57	226,891.45	3,649,177.27
EAC1-20	52+67.67	227,104.55	3,649,321.11
EAC1-21	55+16.87	227,267.60	3,649,509.57
EAC1-22	57+66.53	227,435.39	3,649,694.44
EAC1-23	60+66.56	227,620.53	3,649,930.53
EAC1-24	64+22.13	227,747.94	3,650,262.49
EAC1-25	67+60.46	227,855.77	3,650,583.18
EAC1-26	70+19.63	228,037.74	3,650,767.72
EAC1-27	72+73.71	228,193.73	3,650,968.28
EAC1-28	75+28.21	228,360.23	3,651,160.76
EAC1-29	77+78.83	228,484.22	3,651,378.55
EAC1-30	80+64.17	228,487.59	3,651,663.87
EAC1-31	83+31.67	228,520.55	3,651,929.34
EAC1-32	85+96.52	228,565.12	3,652,190.41
EAC1-33	88+70.45	228,586.07	3,652,463.53
EAC1-34	91+24.42	228,665.71	3,652,704.70

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-35	93+79.25	228,798.93	3,652,921.93
EAC1-36	96+49.75	228,862.18	3,653,184.93
EAC1-37	99+19.04	228,952.64	3,653,438.58
EAC1-38	101+61.90	229,045.21	3,653,663.10
EAC1-39	102+46.55	229,051.67	3,653,747.50
EAC1-40	103+59.38	229,098.17	3,653,850.31
EAC1-41	104+46.96	229,127.72	3,653,932.75
EAC1-42	105+29.78	229,168.29	3,654,004.95
EAC1-43	106+15.56	229,218.03	3,654,074.84
EAC1-44	107+08.20	229,264.28	3,654,155.11
EAC1-45	109+31.83	229,352.31	3,654,360.69
EAC1-46	111+71.03	229,476.58	3,654,565.07

EQUIPMENT ACCESS CORRIDOR (EAC4) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC4-1	0+00.00 EAC4	227,221.87	3,652,639.35
EAC4-2	3+31.53	227,491.90	3,652,447.01
EAC4-3	25+33.21	228,839.99	3,654,187.71
EAC4-4	26+35.94	228,759.33	3,654,251.33

EARTHEN CONTAINMENT DIKE INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
CD-1	0+00.00	221,636.87	3,647,154.37
CD-2	5+91.44	222,183.92	3,646,929.56
CD-3	11+38.15	222,682.07	3,646,704.31
CD-4	13+04.76	222,827.04	3,646,622.19
CD-5	16+75.94	223,038.13	3,646,927.50
CD-6	23+93.84	223,471.29	3,647,500.00
CD-7	29+49.80	223,751.26	3,647,980.32
CD-8	31+81.73	223,587.26	3,648,144.32
CD-9	34+50.35	223,759.56	3,648,350.41
CD-10	40+87.89	224,160.76	3,648,845.89
CD-11	43+99.37	224,409.10	3,648,657.88
CD-12	90+45.07	227,213.22	3,652,361.85
CD-14	95+50.32	227,517.11	3,652,765.44
CD-15	121+49.95	229,080.83	3,654,842.18
CD-16	129+10.42	228,457.86	3,655,278.39
CD-13 INTENTIONALLY LEFT OUT			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE

	PROJECT ALIGNMENT/BASELINE
	TEMPLATE
EAC1-1	POINT NAME AND POINT
	FENCE
SP-01	SETTLEMENT PLATE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

MARSH CREATION AREA
INCREMENT 1

EQUIPMENT ACCESS
CORRIDOR (EAC1)

EQUIPMENT ACCESS
CORRIDOR (EAC2)

EQUIPMENT ACCESS
CORRIDOR (EAC4)

EAC1-1
0+00
10+00
20+00
30+00
40+00
50+00
EAC2-1
60+00
70+00
80+00
90+00
100+00
110+00
EAC1-46

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

EAC2-2
EAC4-4
CD-16
EAC4-1

SP-01
SP-02
SP-03
SP-04
SP-05

MARSH CREATION AREA
INCREMENT 1

PRIORITY DIKE SAND
BORROW AREA

INTERNAL
TRAINING DIKE 1

50' BEACH & DUNE
CROSSING

DREDGE PIPELINE
CORRIDOR

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE DIKE/BORROW
- SP-02 SETTLEMENT PLATE & NAME
- EAC2-2 POINT AND NAME
- MARSH CREATION AREA
- DREDGE PIPELINE CORRIDOR / BEACH DUNE CROSSING
- FENCE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 700'
700' 0' 350' 700'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1

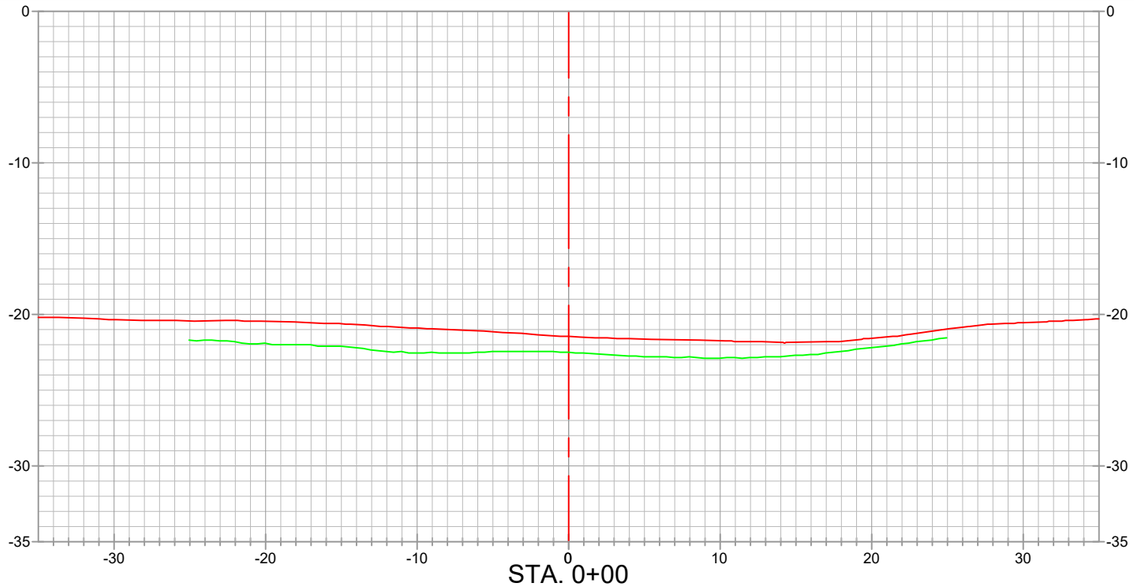
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

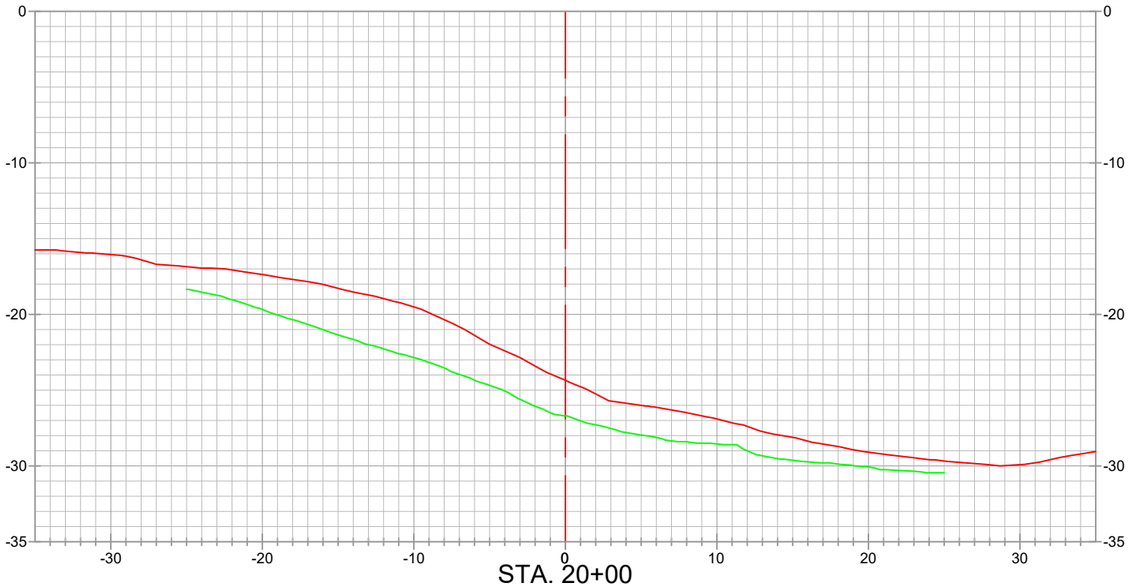
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg



STA. 0+00



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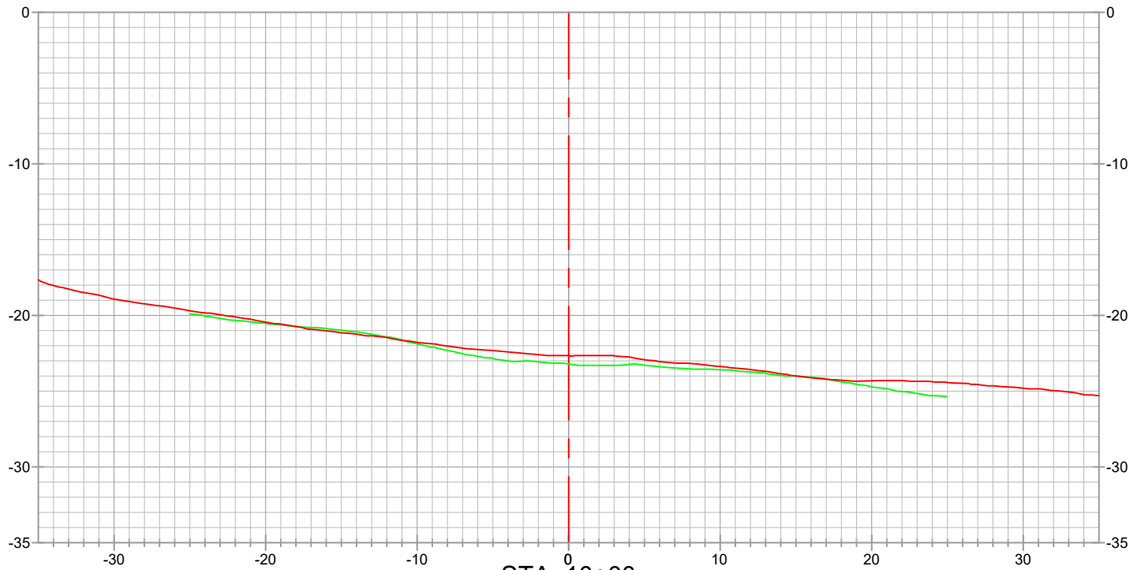
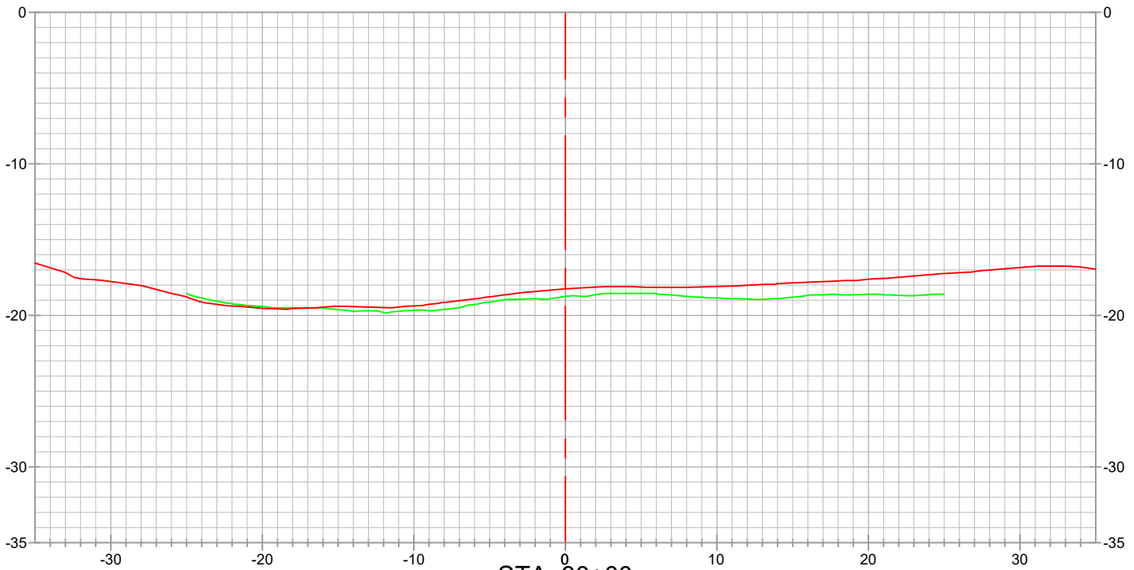


STA. 10+00



STA. 30+00

EQUIPMENT ACCESS 1 (EAC1)_INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE

REVISED BY:	DATE:

HORIZONTAL SCALE

10' 0' 5' 10'

VERTICAL SCALE

10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

GREAT LAKES

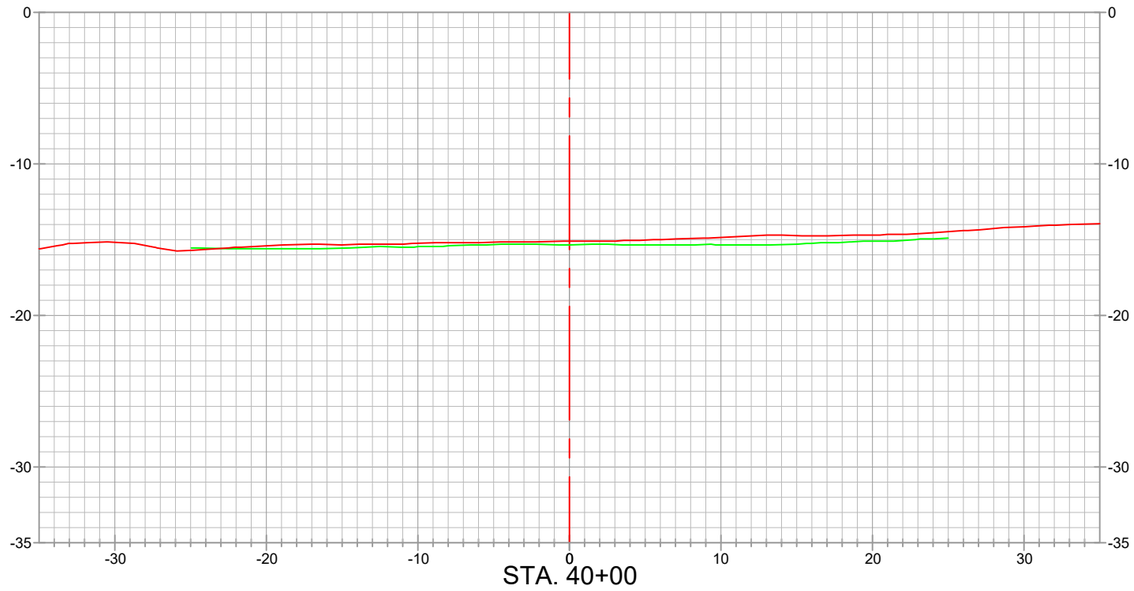
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS

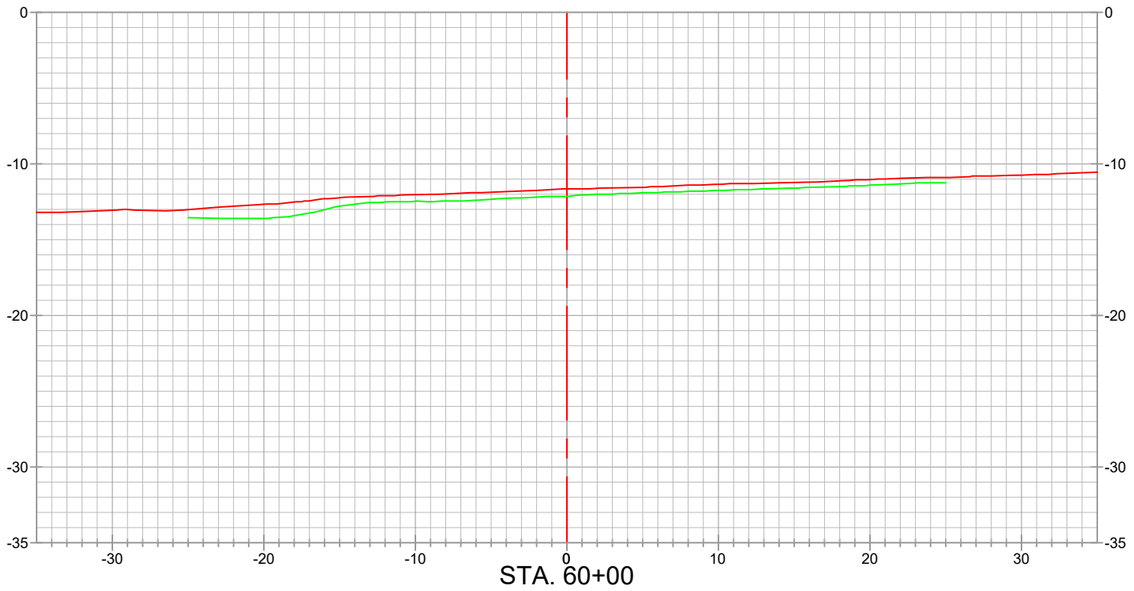
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

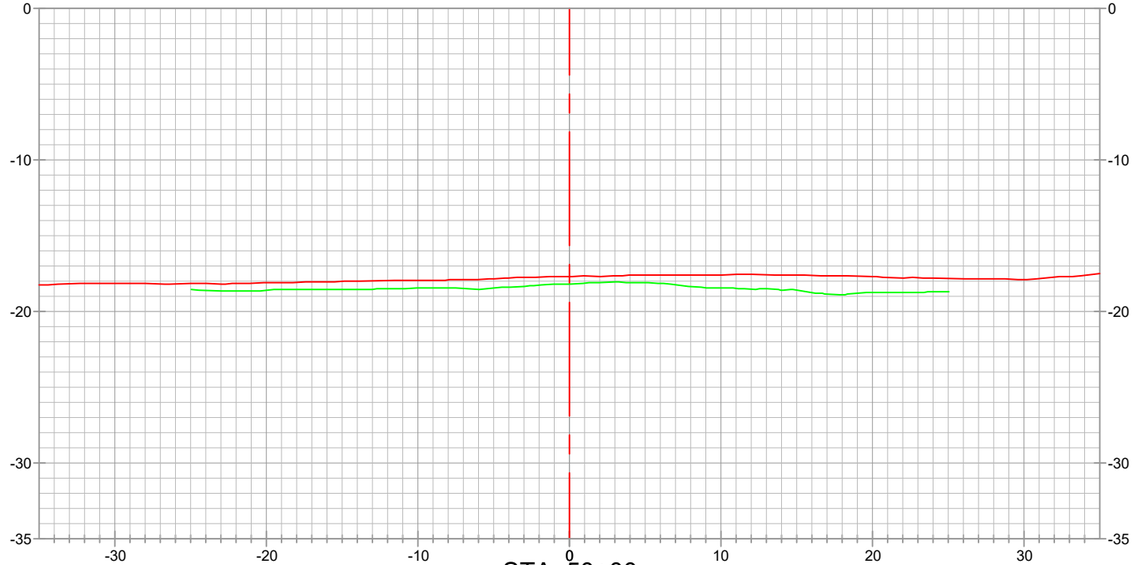
FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg



STA. 40+00



STA. 60+00



STA. 50+00



STA. 70+00

EQUIPMENT ACCESS 1 (EAC1)_INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5088
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE

REVISED BY:	DATE:

HORIZONTAL SCALE
10' 0' 5' 10'

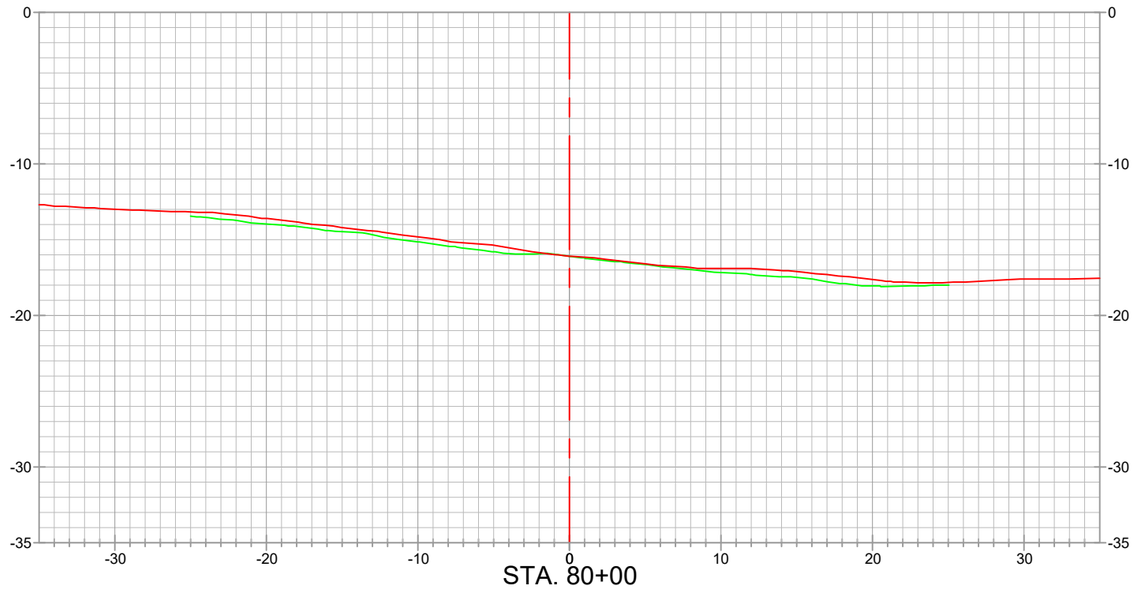
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

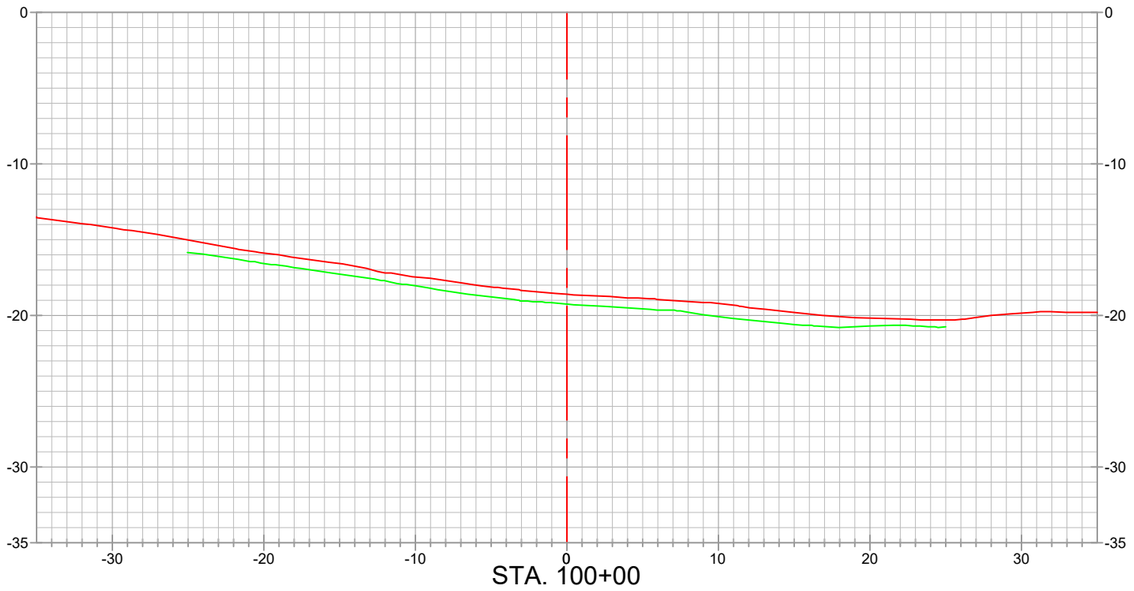
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

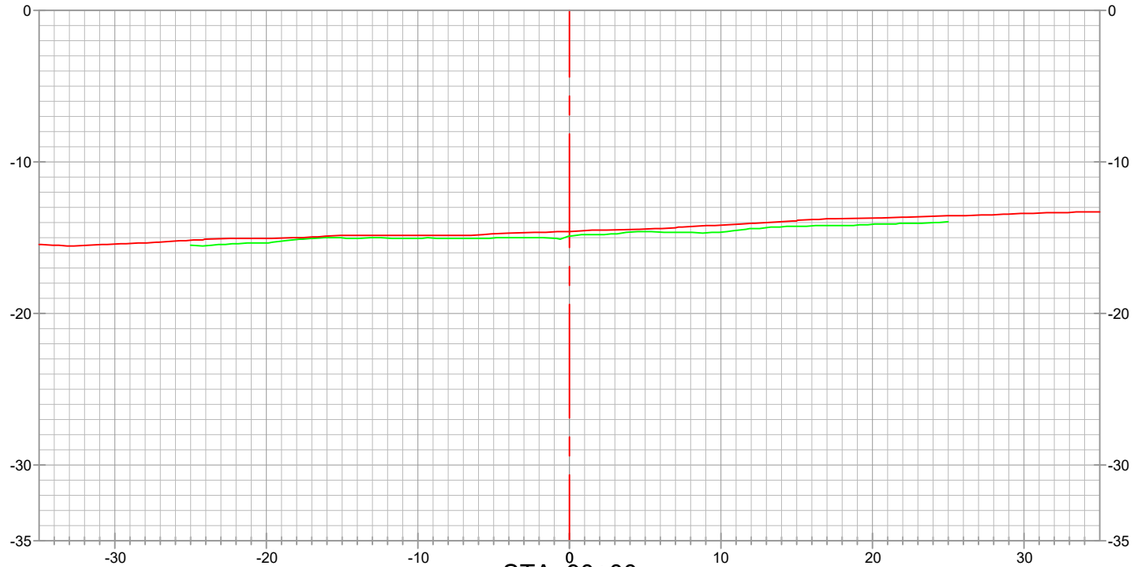
DATE: 12/19/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg | SHEET: 6 OF 33



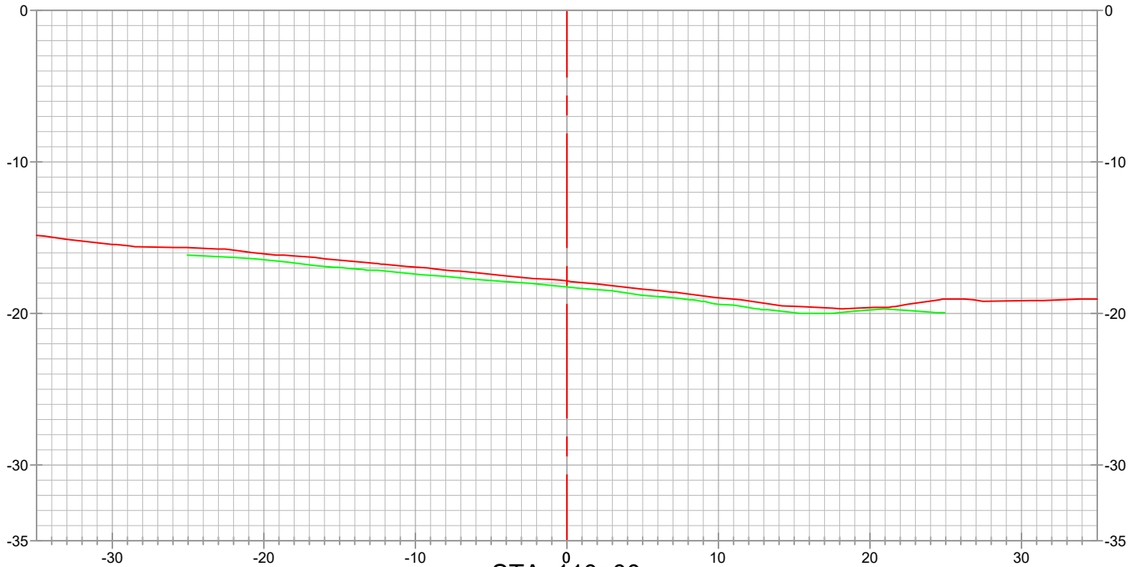
STA. 80+00



STA. 100+00



STA. 90+00



STA. 110+00

EQUIPMENT ACCESS 1 (EAC1)_INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5088
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE

REVISED BY:	DATE:

HORIZONTAL SCALE
10' 0' 5' 10'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

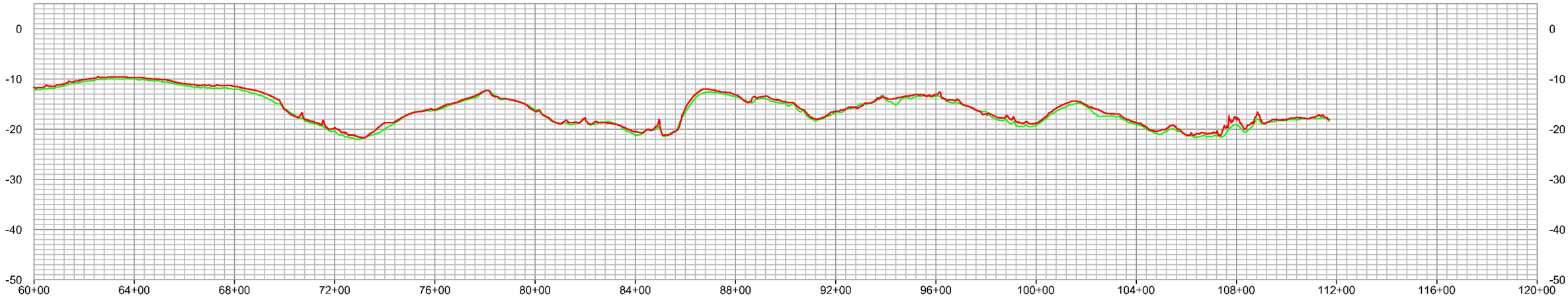
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 1



EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 1



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

PRE-CONSTRUCTION SURVEY

REVISED BY:	DATE:

HORIZONTAL SCALE
400' 0' 200' 400'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS 1 (EAC1)_INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
PROFILE VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

MARSH CREATION AREA
INCREMENT 1

EQUIPMENT ACCESS
CORRIDOR (EAC1)

EAC2-1

0+00

EAC1-1

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

EQUIPMENT ACCESS
CORRIDOR (EAC2)

10+00

EAC1-46

EQUIPMENT ACCESS
CORRIDOR (EAC4)

EAC2-2

17+14

EAC4-4

CD-16

SP-04

SP-05

EAC4-1

PRIORITY DIKE SAND
BORROW AREA

SP-01

SP-02

MARSH CREATION AREA
INCREMENT 1

SP-03

INTERNAL
TRAINING DIKE 1

50' BEACH & DUNE
CROSSING

DREDGE PIPELINE
CORRIDOR

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE DIKE/BORROW
- SP-02 SETTLEMENT PLATE & NAME
- EAC2-2 POINT AND NAME
- MARSH CREATION AREA
- DREDGE PIPELINE CORRIDOR / BEACH DUNE CROSSING
- FENCE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 700'
700' 0' 350' 700'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 2 (EAC2) INCREMENT 1

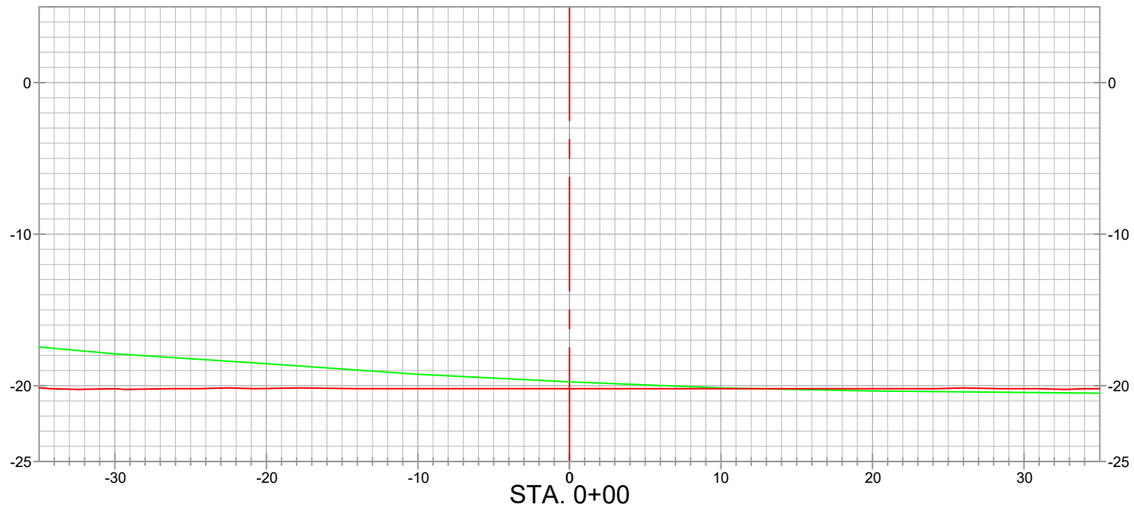
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

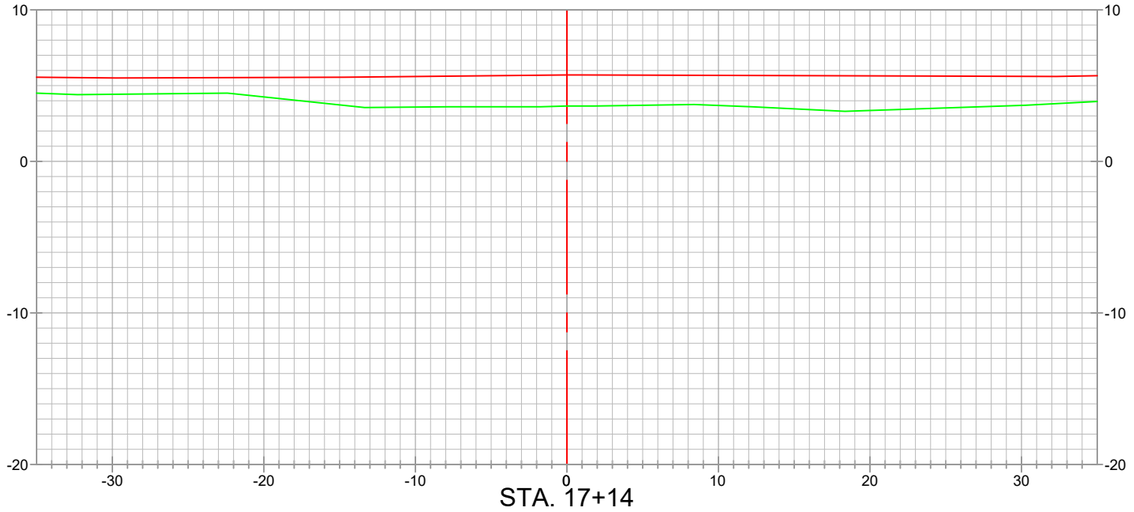
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

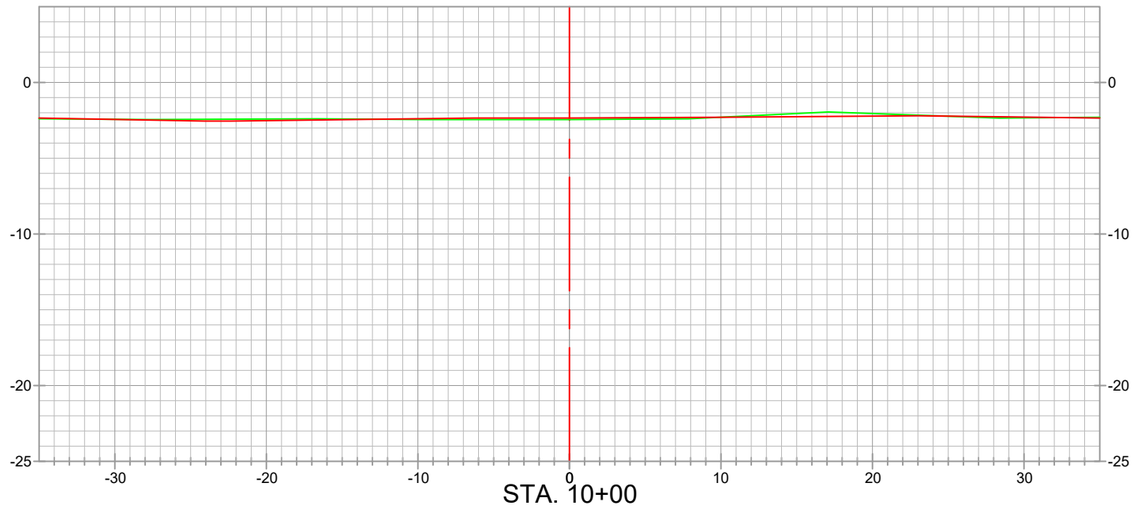
FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg



STA. 0+00



STA. 17+14



STA. 10+00

EQUIPMENT ACCESS 2 (EAC2)_INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4700
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**
2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
10' 0' 5' 10'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

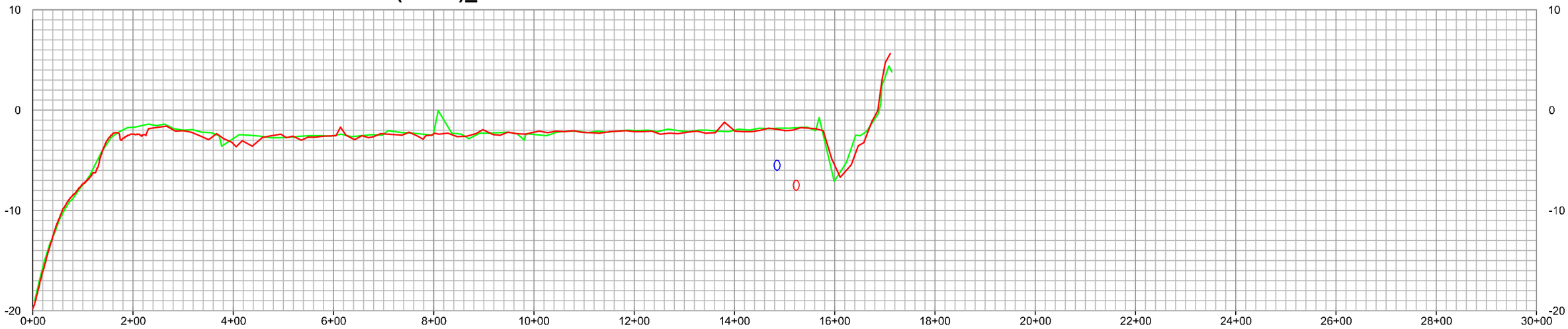
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg | SHEET: 10 OF 33

EQUIPMENT ACCESS CORRIDOR 2 (EAC2)_INCREMENT 1



NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS 2 (EAC2)_INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

PROFILE VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

SHEET: 11 OF 33

MARSH CREATION AREA
INCREMENT 1

EQUIPMENT ACCESS
CORRIDOR (EAC1)

EAC2-1

EAC1-1

EQUIPMENT ACCESS
CORRIDOR (EAC2)

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

EAC1-46

EQUIPMENT ACCESS
CORRIDOR (EAC4)

10+00

20+00

EAC2-2

EAC4-4

26+36

CD-16

0+00

SP-04

EAC4-1

SP-05

SP-01

SP-02

MARSH CREATION AREA
INCREMENT 1

SP-03

PRIORITY DIKE SAND
BORROW AREA

INTERNAL
TRAINING DIKE 1

50' BEACH & DUNE
CROSSING

DREDGE PIPELINE
CORRIDOR

GULF OF MEXICO

EQUIPMENT ACCESS CORRIDOR 4 (EAC4)
INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE DIKE/BORROW
- SP-02 SETTLEMENT PLATE & NAME
- EAC2-2 POINT AND NAME
- MARSH CREATION AREA
- DREDGE PIPELINE CORRIDOR / BEACH DUNE CROSSING
- FENCE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 700'
700' 0' 350' 700'

DATE: 12/19/2022 JOB# 2221011

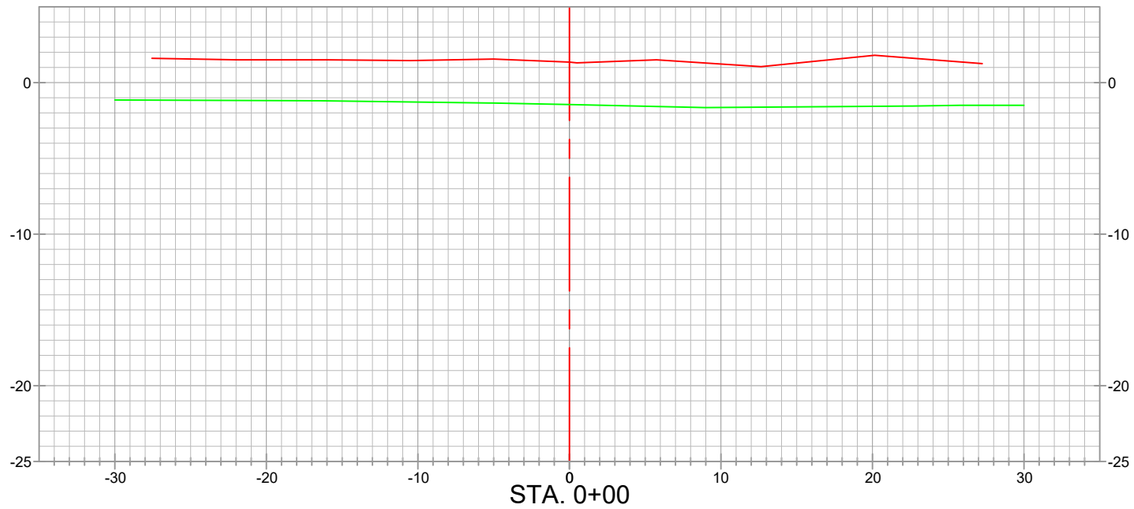
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

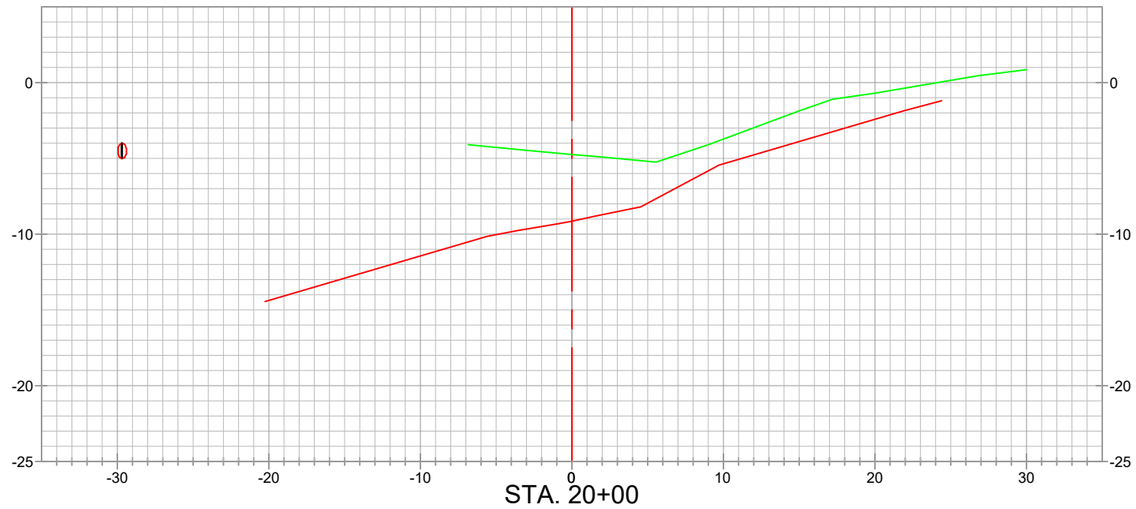
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

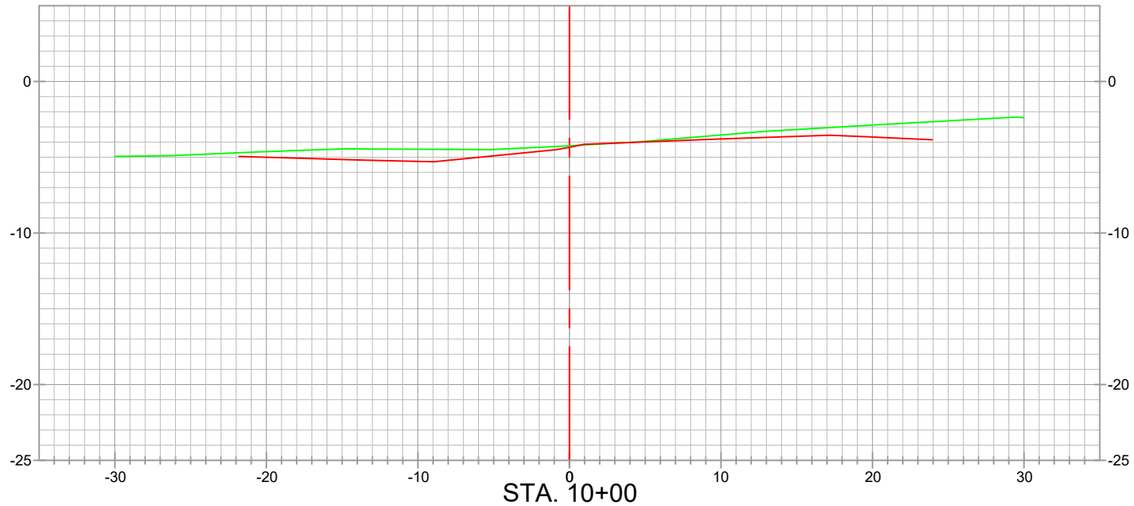
SHEET: 12 OF 33



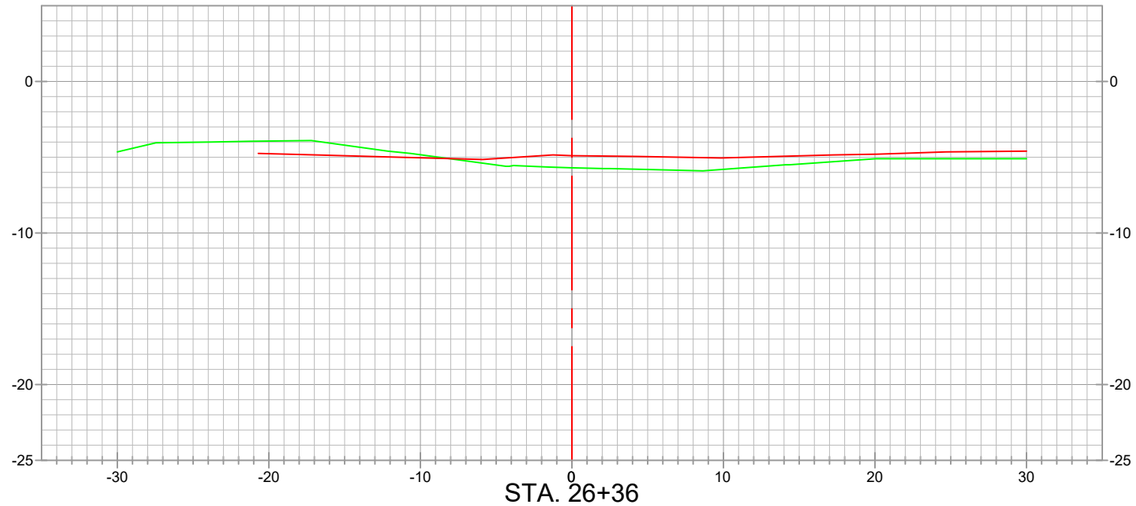
STA. 0+00



STA. 20+00



STA. 10+00



STA. 26+36

EQUIPMENT ACCESS 4 (EAC4)_INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.

2.) THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE

10' 0' 5' 10'

VERTICAL SCALE

10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

GREAT LAKES

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

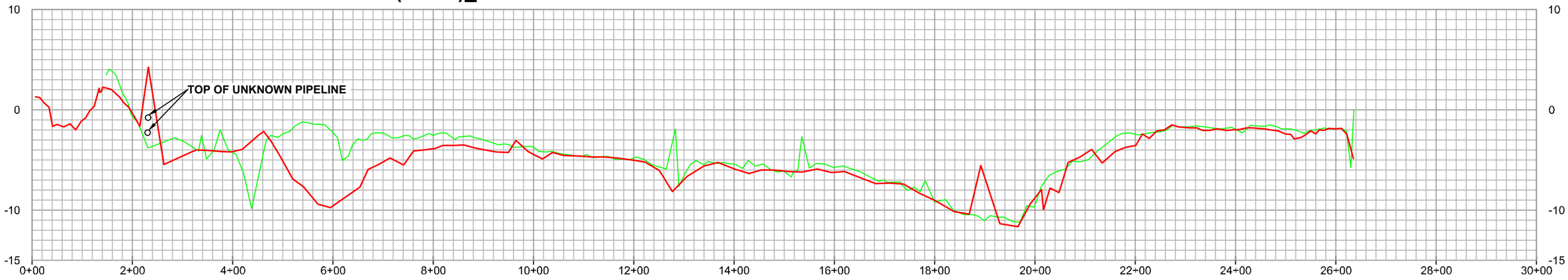
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 4 (EAC4)_INCREMENT 1



NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

STATE OF LOUISIANA
KEITH J. ROBERTS
PLS NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

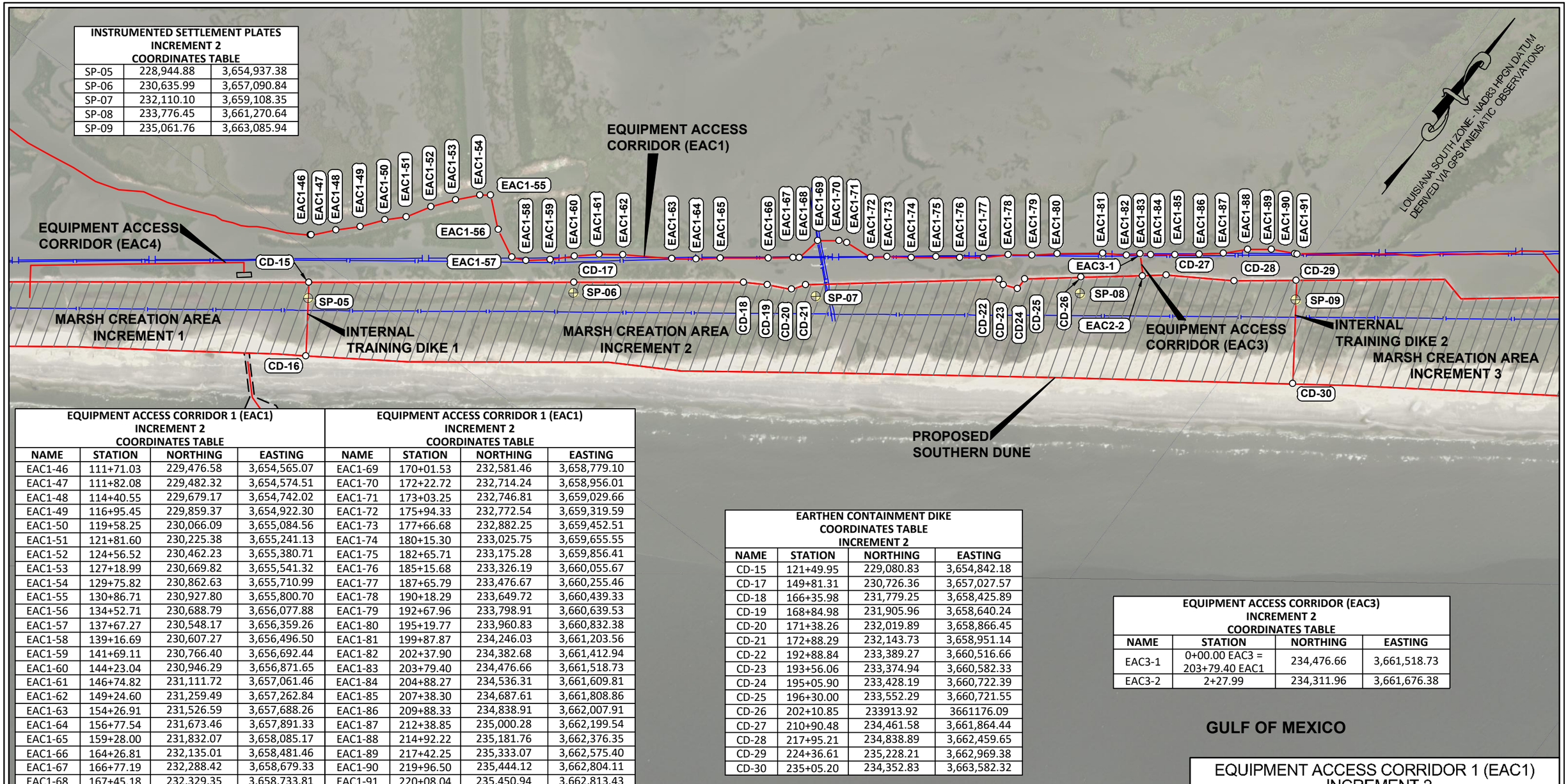
EQUIPMENT ACCESS 4 (EAC4)_INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
PROFILE VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 1_REV 00.dwg

SHEET: 14 OF 33



INSTRUMENTED SETTLEMENT PLATES INCREMENT 2 COORDINATES TABLE

SP-05	228,944.88	3,654,937.38
SP-06	230,635.99	3,657,090.84
SP-07	232,110.10	3,659,108.35
SP-08	233,776.45	3,661,270.64
SP-09	235,061.76	3,663,085.94

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-46	111+71.03	229,476.58	3,654,565.07
EAC1-47	111+82.08	229,482.32	3,654,574.51
EAC1-48	114+40.55	229,679.17	3,654,742.02
EAC1-49	116+95.45	229,859.37	3,654,922.30
EAC1-50	119+58.25	230,066.09	3,655,084.56
EAC1-51	121+81.60	230,225.38	3,655,241.13
EAC1-52	124+56.52	230,462.23	3,655,380.71
EAC1-53	127+18.99	230,669.82	3,655,541.32
EAC1-54	129+75.82	230,862.63	3,655,710.99
EAC1-55	130+86.71	230,927.80	3,655,800.70
EAC1-56	134+52.71	230,688.79	3,656,077.88
EAC1-57	137+67.27	230,548.17	3,656,359.26
EAC1-58	139+16.69	230,607.27	3,656,496.50
EAC1-59	141+69.11	230,766.40	3,656,692.44
EAC1-60	144+23.04	230,946.29	3,656,871.65
EAC1-61	146+74.82	231,111.72	3,657,061.46
EAC1-62	149+24.60	231,259.49	3,657,262.84
EAC1-63	154+26.91	231,526.59	3,657,688.26
EAC1-64	156+77.54	231,673.46	3,657,891.33
EAC1-65	159+28.00	231,832.07	3,658,085.17
EAC1-66	164+26.81	232,135.01	3,658,481.46
EAC1-67	166+77.19	232,288.42	3,658,679.33
EAC1-68	167+45.18	232,329.35	3,658,733.81

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-69	170+01.53	232,581.46	3,658,779.10
EAC1-70	172+22.72	232,714.24	3,658,956.01
EAC1-71	173+03.25	232,746.81	3,659,029.66
EAC1-72	175+94.33	232,772.54	3,659,319.59
EAC1-73	177+66.68	232,882.25	3,659,452.51
EAC1-74	180+15.30	233,025.75	3,659,655.55
EAC1-75	182+65.71	233,175.28	3,659,856.41
EAC1-76	185+15.68	233,326.19	3,660,055.67
EAC1-77	187+65.79	233,476.67	3,660,255.46
EAC1-78	190+18.29	233,649.72	3,660,439.33
EAC1-79	192+67.96	233,798.91	3,660,639.53
EAC1-80	195+19.77	233,960.83	3,660,832.38
EAC1-81	199+87.87	234,246.03	3,661,203.56
EAC1-82	202+37.90	234,382.68	3,661,412.94
EAC1-83	203+79.40	234,476.66	3,661,518.73
EAC1-84	204+88.27	234,536.31	3,661,609.81
EAC1-85	207+38.30	234,687.61	3,661,808.86
EAC1-86	209+88.33	234,838.91	3,662,007.91
EAC1-87	212+38.85	235,000.28	3,662,199.54
EAC1-88	214+92.22	235,181.76	3,662,376.35
EAC1-89	217+42.25	235,333.07	3,662,575.40
EAC1-90	219+96.50	235,444.12	3,662,804.11
EAC1-91	220+08.04	235,450.94	3,662,813.43

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 2

NAME	STATION	NORTHING	EASTING
CD-15	121+49.95	229,080.83	3,654,842.18
CD-17	149+81.31	230,726.36	3,657,027.57
CD-18	166+35.98	231,779.25	3,658,425.89
CD-19	168+84.98	231,905.96	3,658,640.24
CD-20	171+38.26	232,019.89	3,658,866.45
CD-21	172+88.29	232,143.73	3,658,951.14
CD-22	192+88.84	233,389.27	3,660,516.66
CD-23	193+56.06	233,374.94	3,660,582.33
CD-24	195+05.90	233,428.19	3,660,722.39
CD-25	196+30.00	233,552.29	3,660,721.55
CD-26	202+10.85	233913.92	3661176.09
CD-27	210+90.48	234,461.58	3,661,864.44
CD-28	217+95.21	234,838.89	3,662,459.65
CD-29	224+36.61	235,228.21	3,662,969.38
CD-30	235+05.20	234,352.83	3,663,582.32

EQUIPMENT ACCESS CORRIDOR (EAC3) INCREMENT 2 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC3-1	0+00.00 EAC3 = 203+79.40 EAC1	234,476.66	3,661,518.73
EAC3-2	2+27.99	234,311.96	3,661,676.38

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
PLS NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 — EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

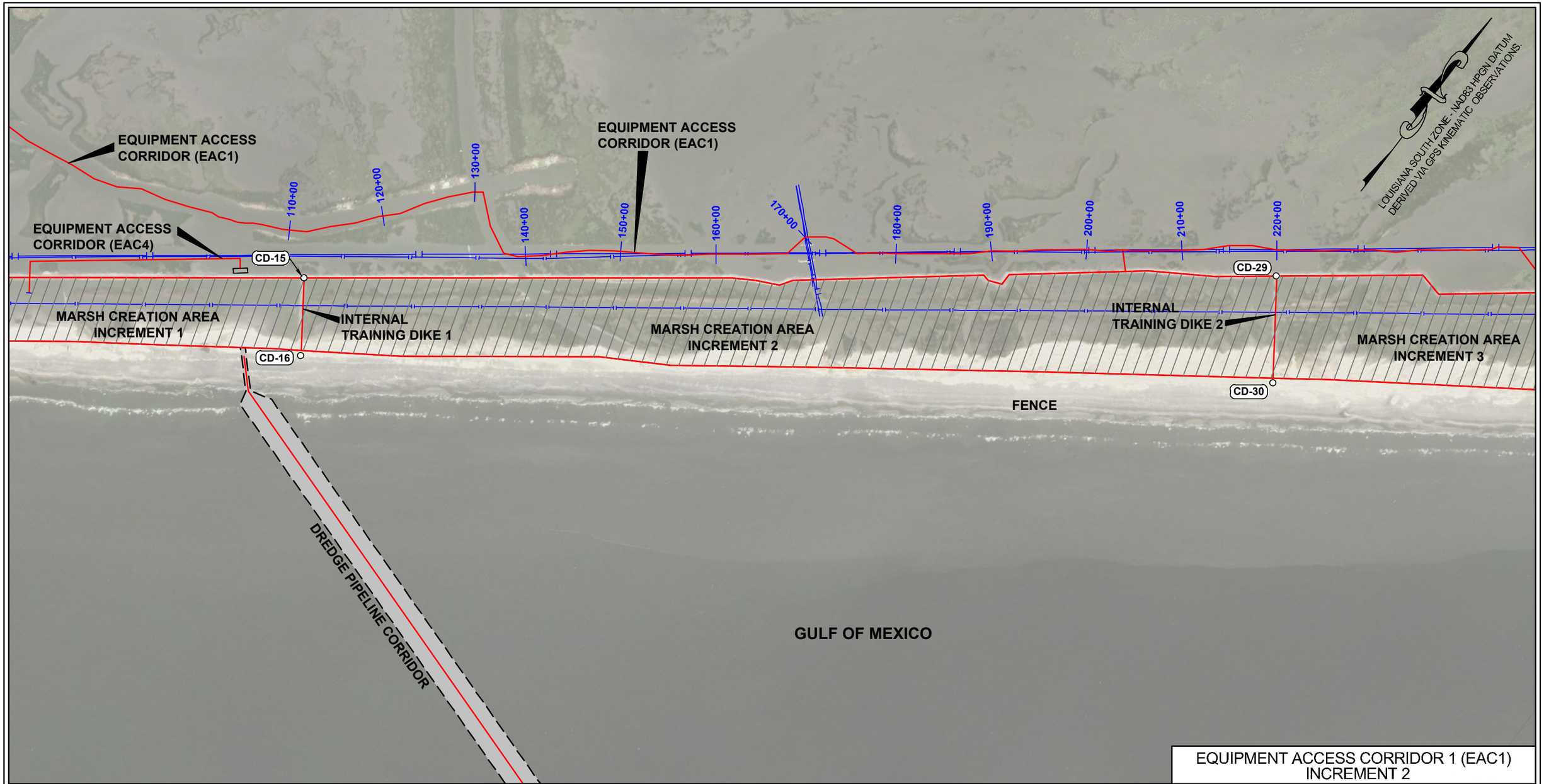
ALIGNMENT PLAN VIEW

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

SHEET: 15 OF 33



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4766
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

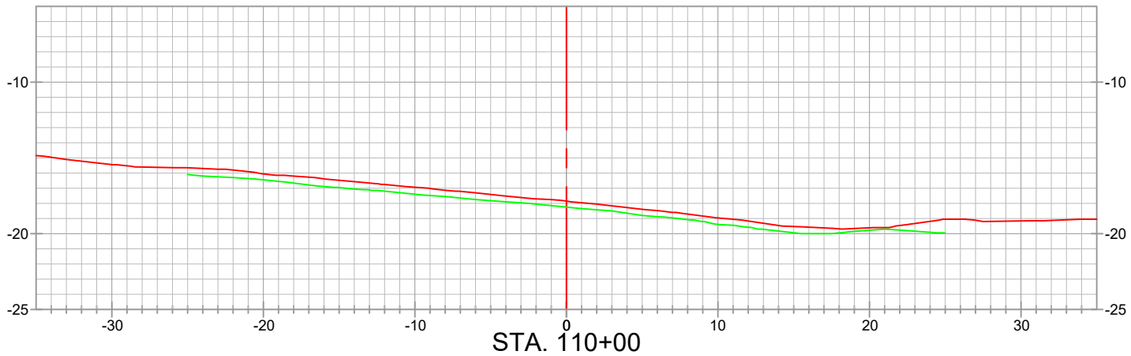
EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

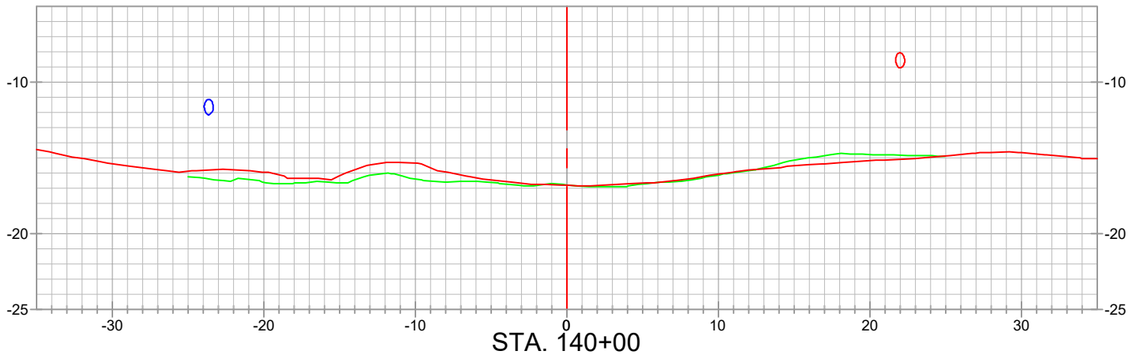
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

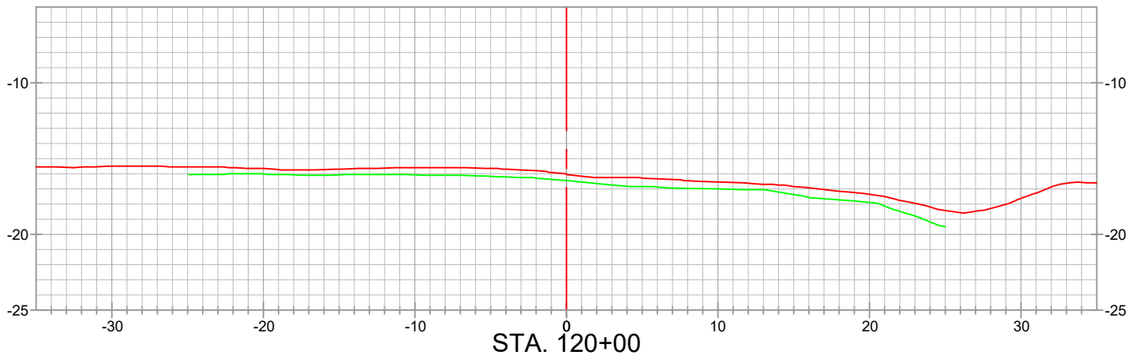
SHEET: 16 OF 33



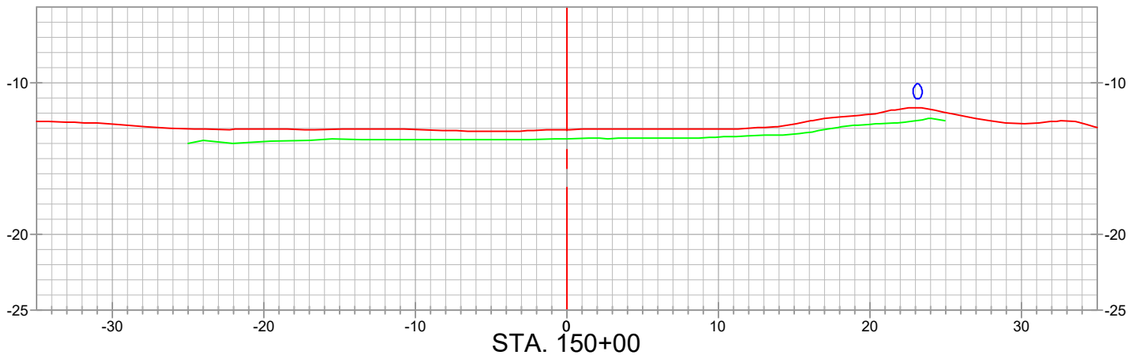
STA. 110+00



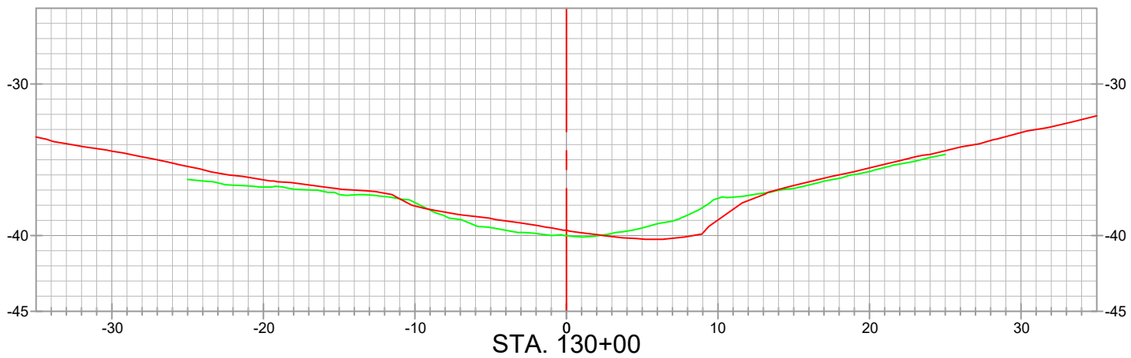
STA. 140+00



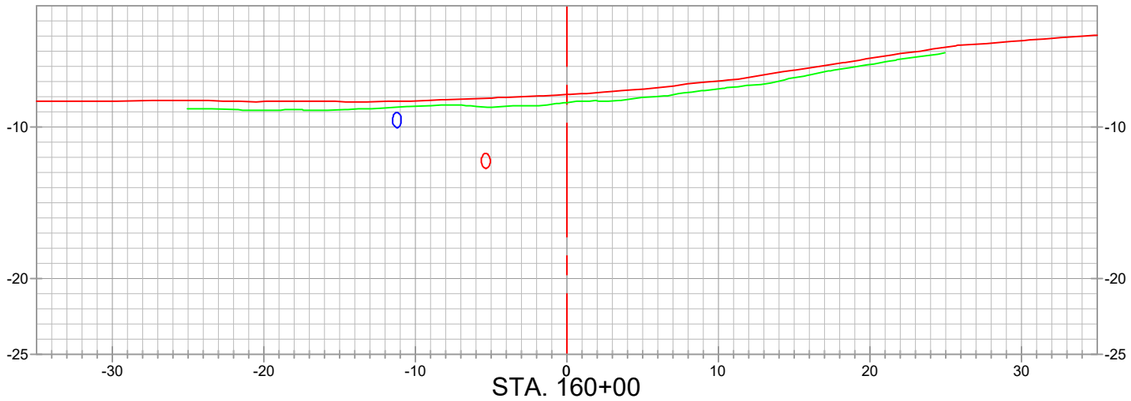
STA. 120+00



STA. 150+00



STA. 130+00



STA. 160+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5088
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
10' 0' 5' 10'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

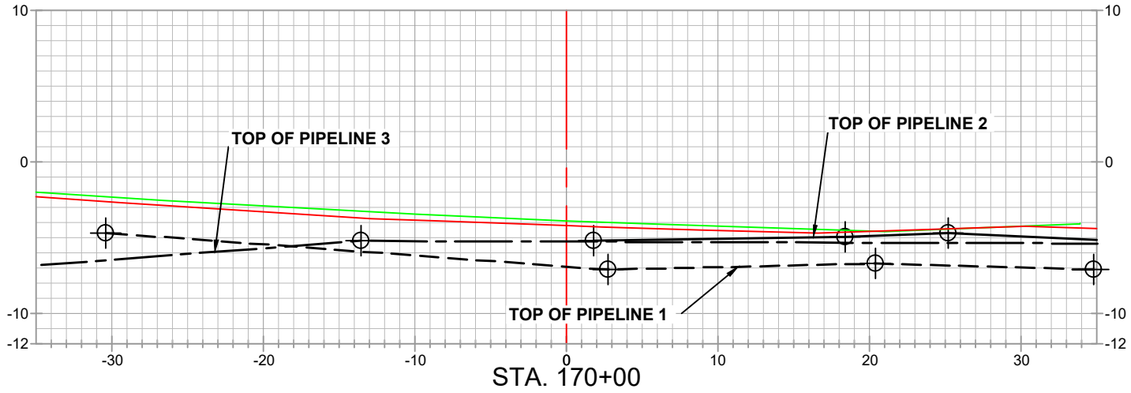
EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 2

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

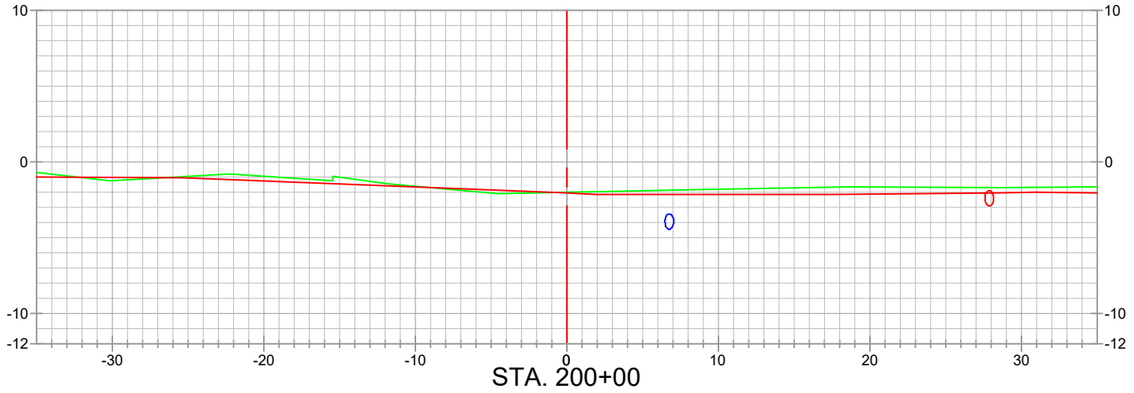
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

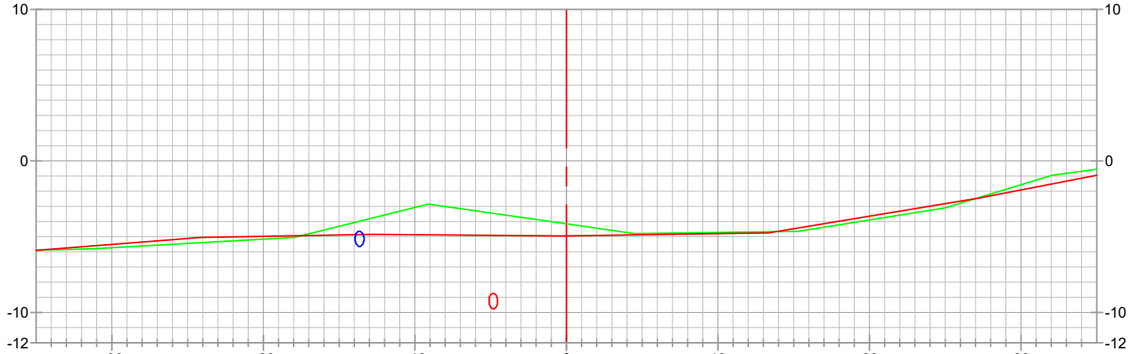
FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg



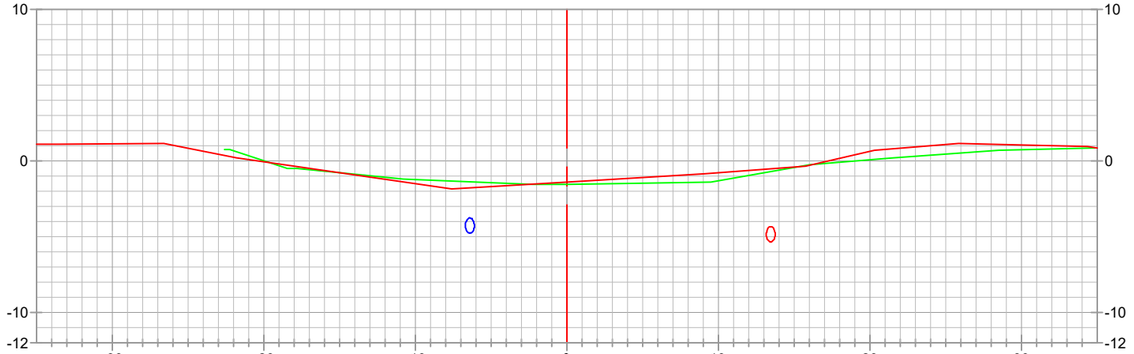
STA. 170+00



STA. 200+00



STA. 180+00

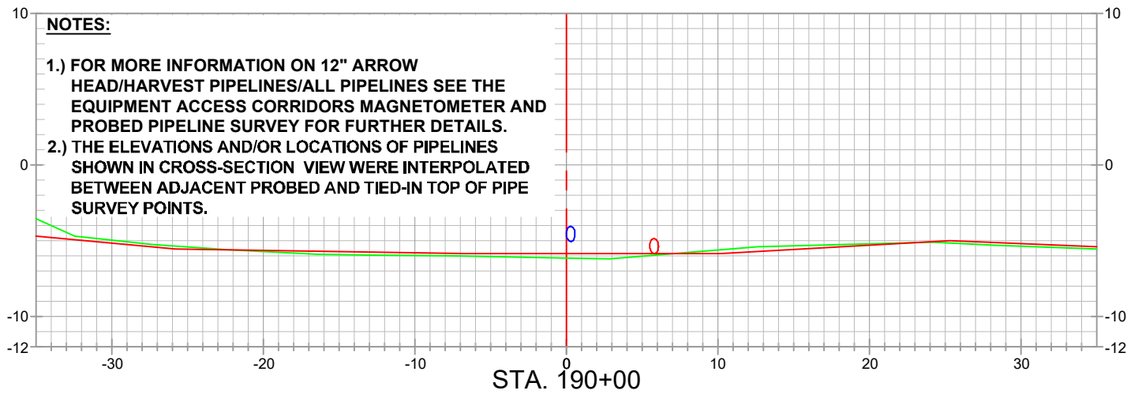


STA. 210+00

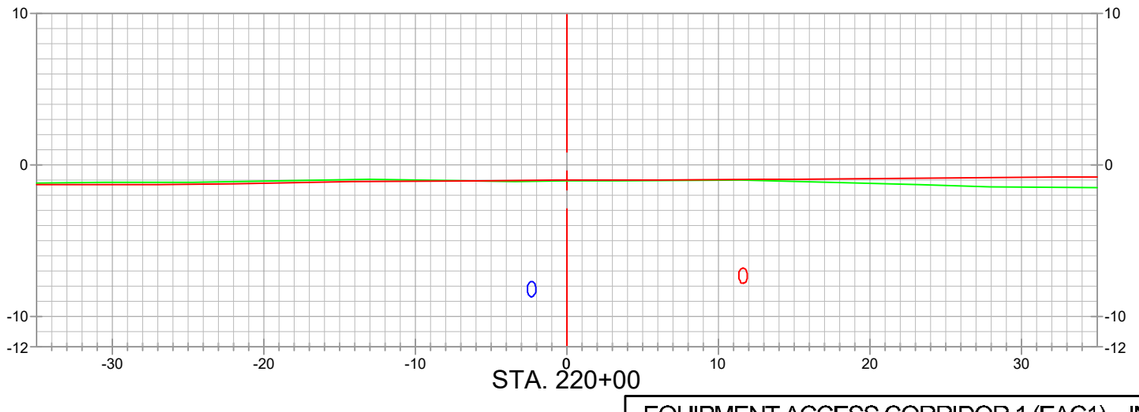
NOTES:

1.) FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.

2.) THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.



STA. 190+00



STA. 220+00

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4988
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

PIPELINE LEGEND

- TOP OF PIPELINE #1
- TOP OF PIPELINE #2
- TOP OF PIPELINE #3

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
10' 0' 5' 10'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

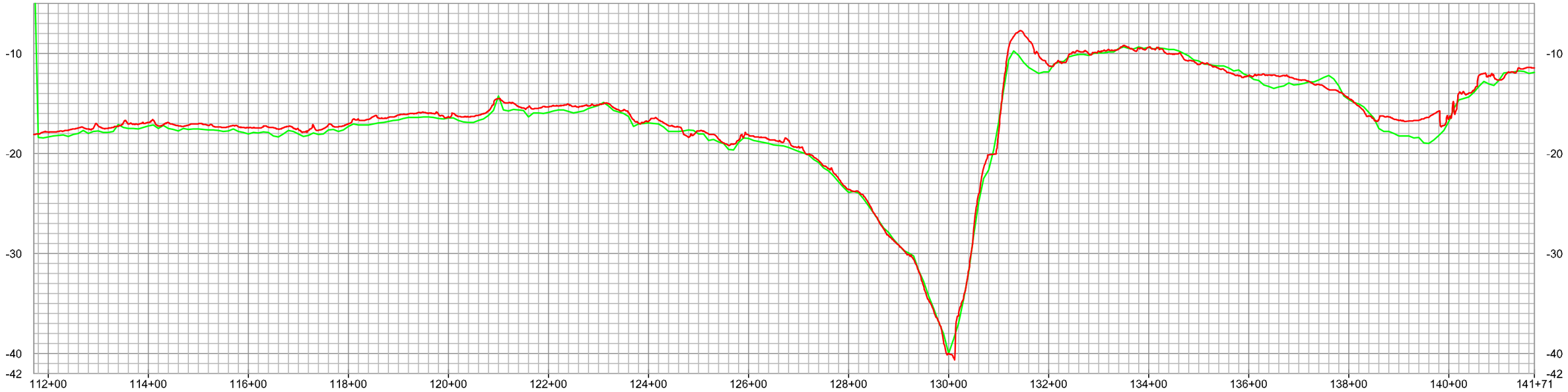
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

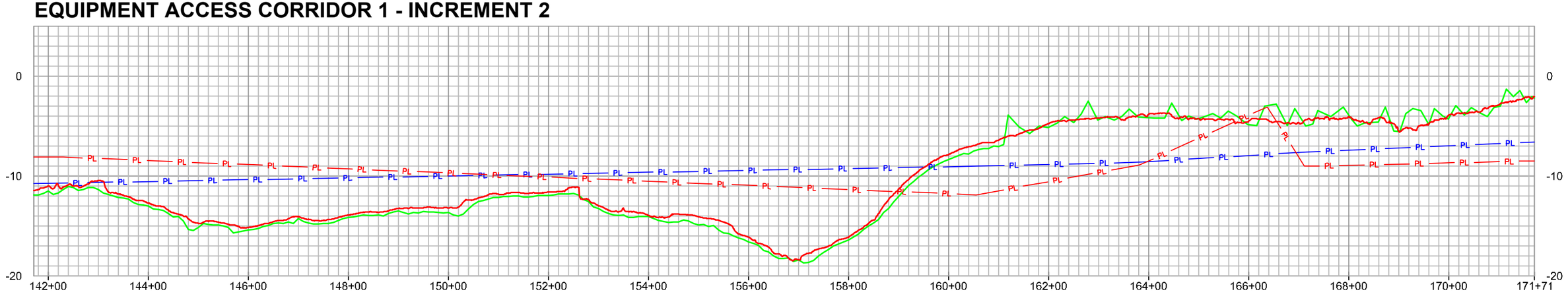
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 - INCREMENT 2



EQUIPMENT ACCESS CORRIDOR 1 - INCREMENT 2



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 2

STATE OF LOUISIANA
KEITH J. ROBERTS
PLS NO. 4766
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- PRE-CONSTRUCTION SURVEY
- PL — 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- PL — 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 JOB# 2221011

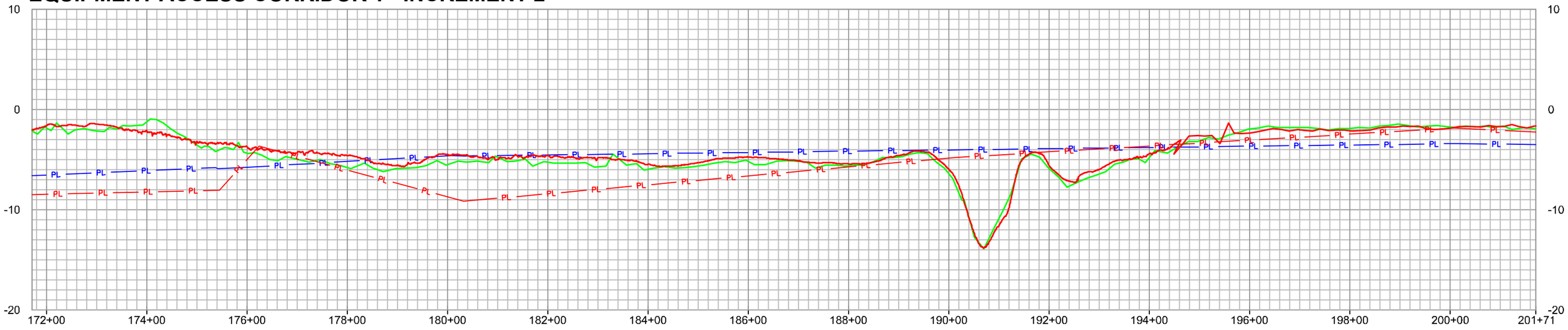
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
PROFILE VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

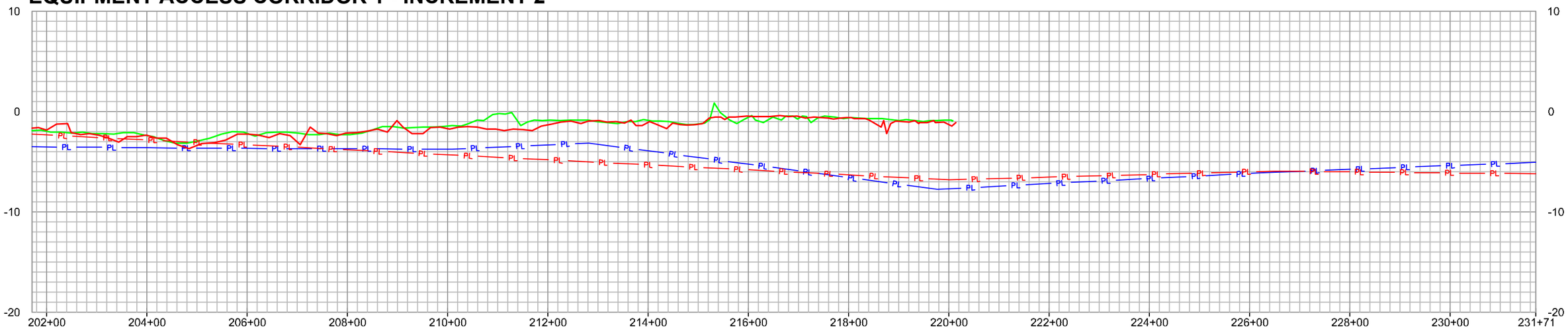
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 - INCREMENT 2



EQUIPMENT ACCESS CORRIDOR 1 - INCREMENT 2



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- PRE-CONSTRUCTION SURVEY
- PL — 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- PL — 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

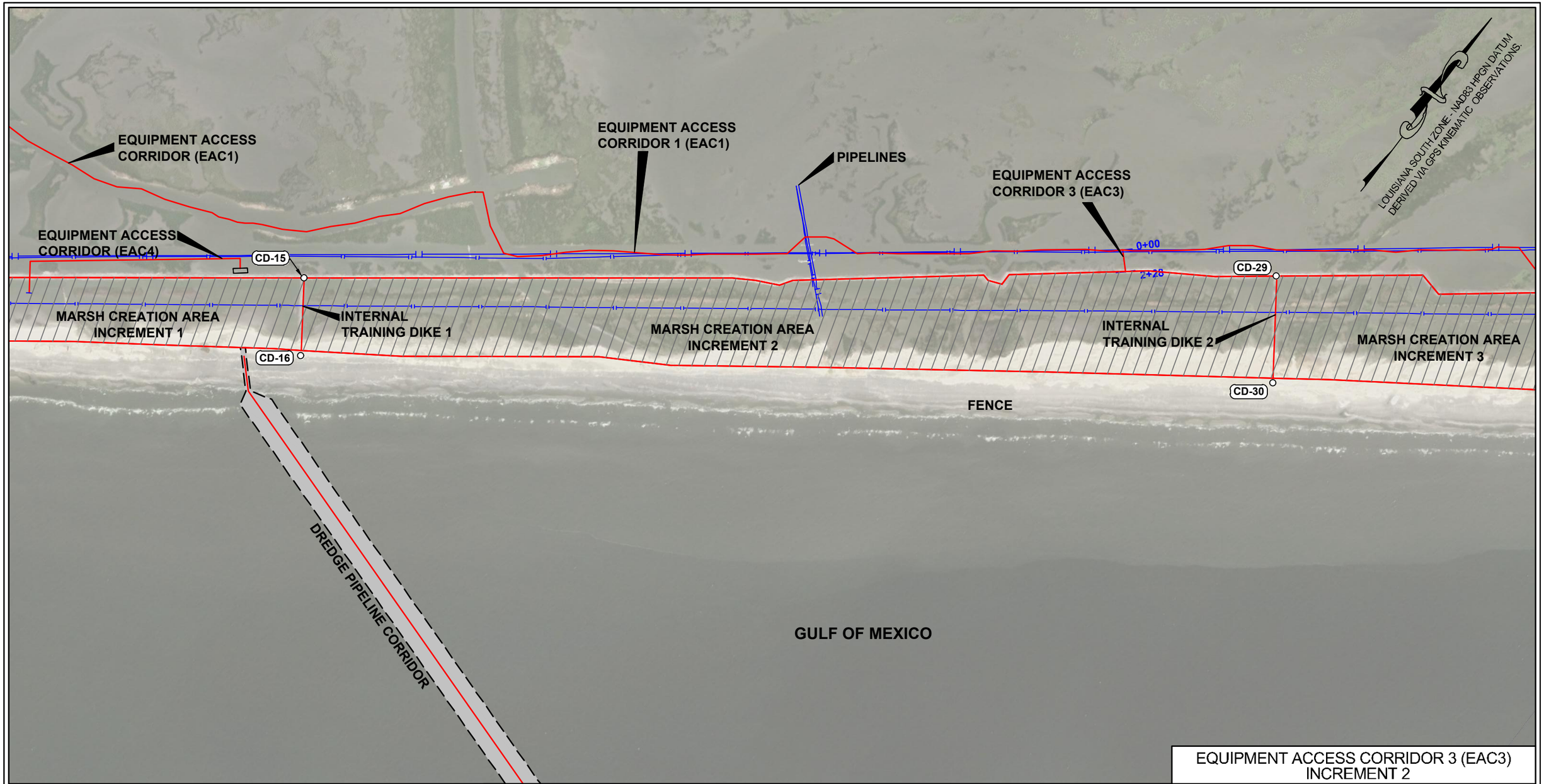
HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
PROFILE VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg | SHEET: 20 OF 33



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4766
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

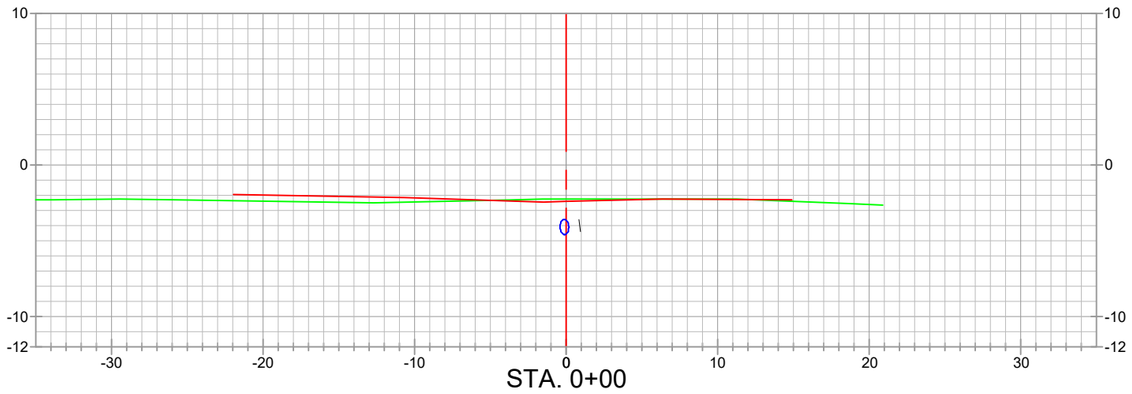
EQUIPMENT ACCESS CORRIDOR 3 (EAC3)
INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

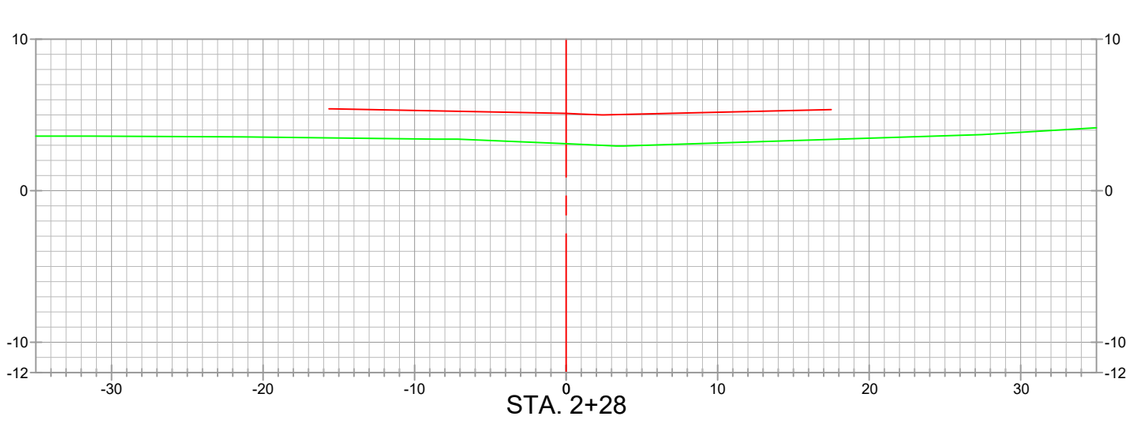
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

SHEET: 21 OF 33



STA. 0+00



STA. 2+28

EQUIPMENT ACCESS CORRIDOR 3 (EAC3) - INC 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 36
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE

10' 0' 5' 10'

VERTICAL SCALE

10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

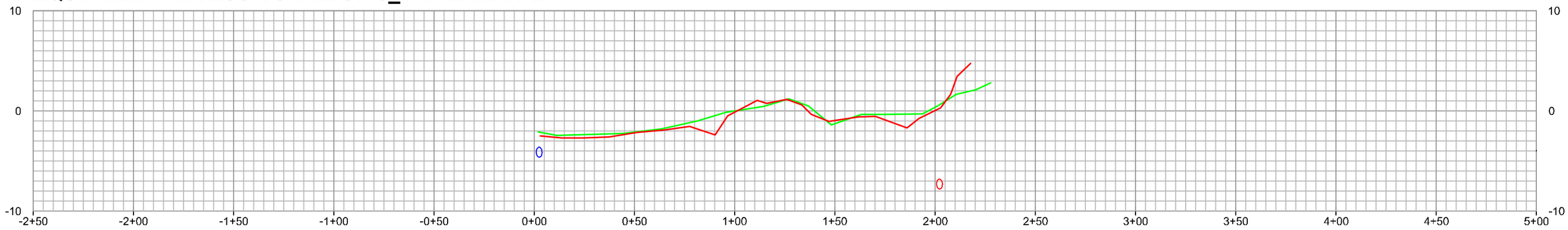
CROSS-SECTION VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 3_INCREMENT 2



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**
2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- 0 — 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 0 — 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

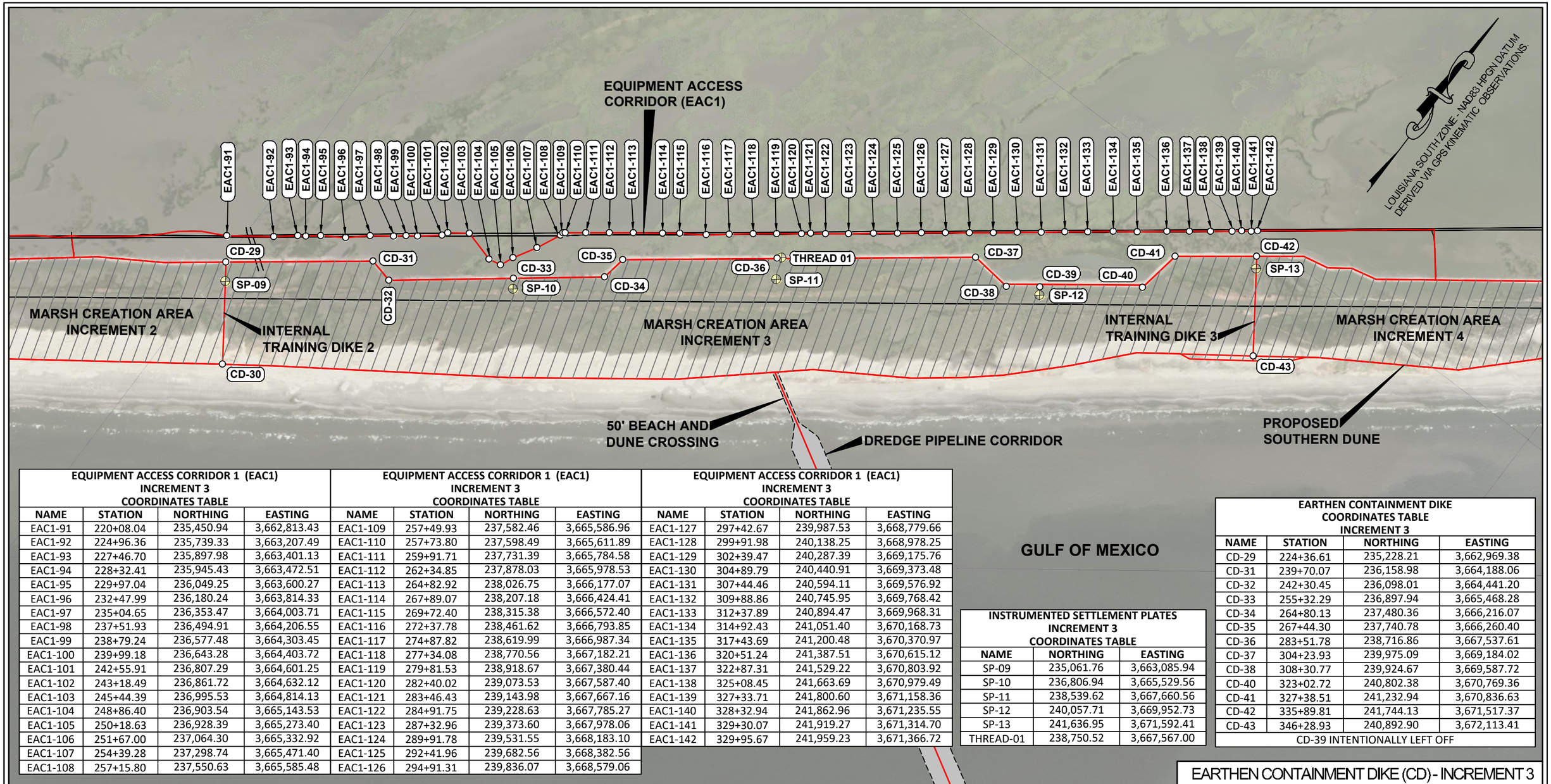
HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 3 (EAC3) - INC 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
PROFILE VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 2_REV 00.dwg | SHEET: 23 OF 33



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-91	220+08.04	235,450.94	3,662,813.43
EAC1-92	224+96.36	235,739.33	3,663,207.49
EAC1-93	227+46.70	235,897.98	3,663,401.13
EAC1-94	228+32.41	235,945.43	3,663,472.51
EAC1-95	229+97.04	236,049.25	3,663,600.27
EAC1-96	232+47.99	236,180.24	3,663,814.33
EAC1-97	235+04.65	236,353.47	3,664,003.71
EAC1-98	237+51.93	236,494.91	3,664,206.55
EAC1-99	238+79.24	236,577.48	3,664,303.45
EAC1-100	239+99.18	236,643.28	3,664,403.72
EAC1-101	242+55.91	236,807.29	3,664,601.25
EAC1-102	243+18.49	236,861.72	3,664,632.12
EAC1-103	245+44.39	236,995.53	3,664,814.13
EAC1-104	248+86.40	236,903.54	3,665,143.53
EAC1-105	250+18.63	236,928.39	3,665,273.40
EAC1-106	251+67.00	237,064.30	3,665,332.92
EAC1-107	254+39.28	237,298.74	3,665,471.40
EAC1-108	257+15.80	237,550.63	3,665,585.48

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-109	257+49.93	237,582.46	3,665,586.96
EAC1-110	257+73.80	237,598.49	3,665,611.89
EAC1-111	259+91.71	237,731.39	3,665,784.58
EAC1-112	262+34.85	237,878.03	3,665,978.53
EAC1-113	264+82.92	238,026.75	3,666,177.07
EAC1-114	267+89.07	238,207.18	3,666,424.41
EAC1-115	269+72.40	238,315.38	3,666,572.40
EAC1-116	272+37.78	238,461.62	3,666,793.85
EAC1-117	274+87.82	238,619.99	3,666,987.34
EAC1-118	277+34.08	238,770.56	3,667,182.21
EAC1-119	279+81.53	238,918.67	3,667,380.44
EAC1-120	282+40.02	239,073.53	3,667,587.40
EAC1-121	283+46.43	239,143.98	3,667,667.16
EAC1-122	284+91.75	239,228.63	3,667,785.27
EAC1-123	287+32.96	239,373.60	3,667,978.06
EAC1-124	289+91.78	239,531.55	3,668,183.10
EAC1-125	292+41.96	239,682.56	3,668,382.56
EAC1-126	294+91.31	239,836.07	3,668,579.06

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-127	297+42.67	239,987.53	3,668,779.66
EAC1-128	299+91.98	240,138.25	3,668,978.25
EAC1-129	302+39.47	240,287.39	3,669,175.76
EAC1-130	304+89.79	240,440.91	3,669,373.48
EAC1-131	307+44.46	240,594.11	3,669,576.92
EAC1-132	309+88.86	240,745.95	3,669,768.42
EAC1-133	312+37.89	240,894.47	3,669,968.31
EAC1-134	314+92.43	241,051.40	3,670,168.73
EAC1-135	317+43.69	241,200.48	3,670,370.97
EAC1-136	320+51.24	241,387.51	3,670,615.12
EAC1-137	322+87.31	241,529.22	3,670,803.92
EAC1-138	325+08.45	241,663.69	3,670,979.49
EAC1-139	327+33.71	241,800.60	3,671,158.36
EAC1-140	328+32.94	241,862.96	3,671,235.55
EAC1-141	329+30.07	241,919.27	3,671,314.70
EAC1-142	329+95.67	241,959.23	3,671,366.72

INSTRUMENTED SETTLEMENT PLATES INCREMENT 3 COORDINATES TABLE

NAME	NORTHING	EASTING
SP-09	235,061.76	3,663,085.94
SP-10	236,806.94	3,665,529.56
SP-11	238,539.62	3,667,660.56
SP-12	240,057.71	3,669,952.73
SP-13	241,636.95	3,671,592.41
THREAD-01	238,750.52	3,667,567.00

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 3

NAME	STATION	NORTHING	EASTING
CD-29	224+36.61	235,228.21	3,662,969.38
CD-31	239+70.07	236,158.98	3,664,188.06
CD-32	242+30.45	236,098.01	3,664,441.20
CD-33	255+32.29	236,897.94	3,665,468.28
CD-34	264+80.13	237,480.36	3,666,216.07
CD-35	267+44.30	237,740.78	3,666,260.40
CD-36	283+51.78	238,716.86	3,667,537.61
CD-37	304+23.93	239,975.09	3,669,184.02
CD-38	308+30.77	239,924.67	3,669,587.72
CD-40	323+02.72	240,802.38	3,670,769.36
CD-41	327+38.51	241,232.94	3,670,836.63
CD-42	335+89.81	241,744.13	3,671,517.37
CD-43	346+28.93	240,892.90	3,672,113.41
CD-39 INTENTIONALLY LEFT OFF			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 SETTLEMENT PLATE POINT AND NAME
- CD-15 CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg

SHEET: 24 OF 33

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

EQUIPMENT ACCESS
CORRIDOR (EAC1)

PIPELINE "A"
PIPELINE "B"

220+00
230+00
240+00
250+00
260+00
270+00
280+00
290+00
300+00
310+00
320+00
330+00

CD-29
CD-30
CD-42
CD-43

MARSH CREATION AREA
INCREMENT 2

INTERNAL
TRAINING DIKE 2

MARSH CREATION AREA
INCREMENT 3

INTERNAL
TRAINING DIKE 3

MARSH CREATION AREA
INCREMENT4

50' BEACH AND
DUNE CROSSING

DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

HYDROTERRA

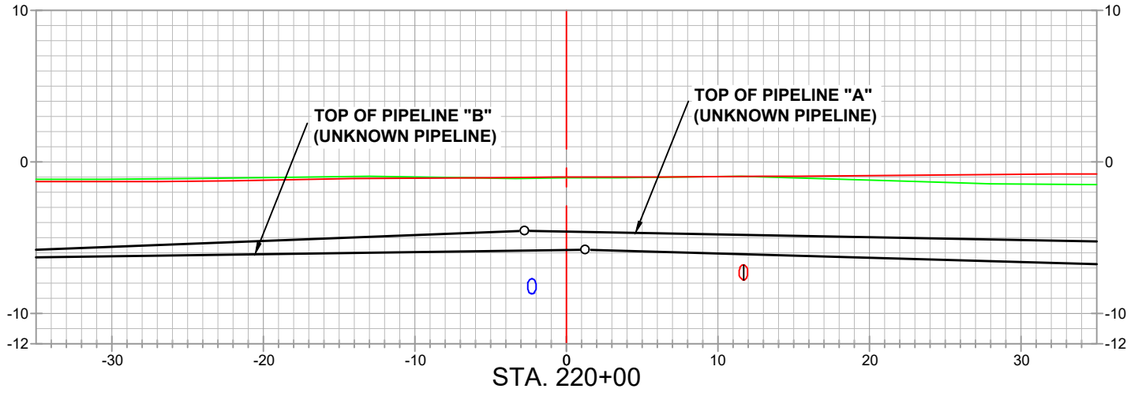
EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

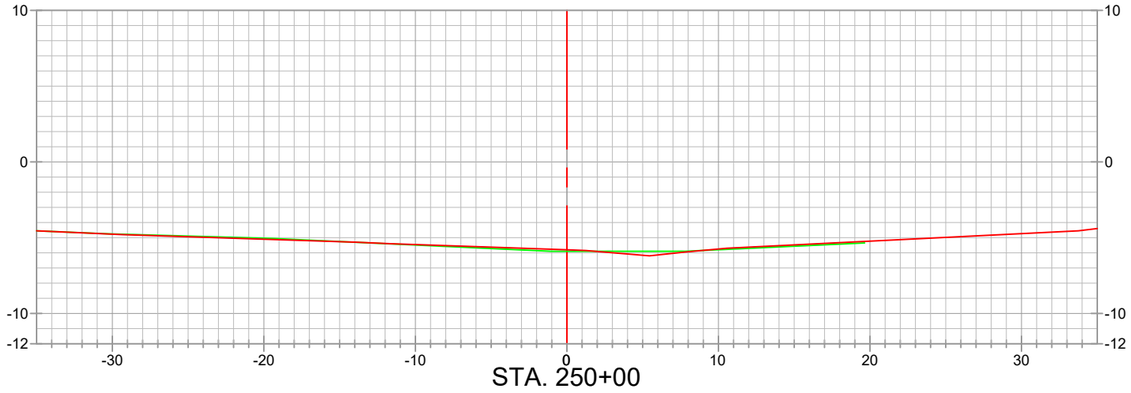
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

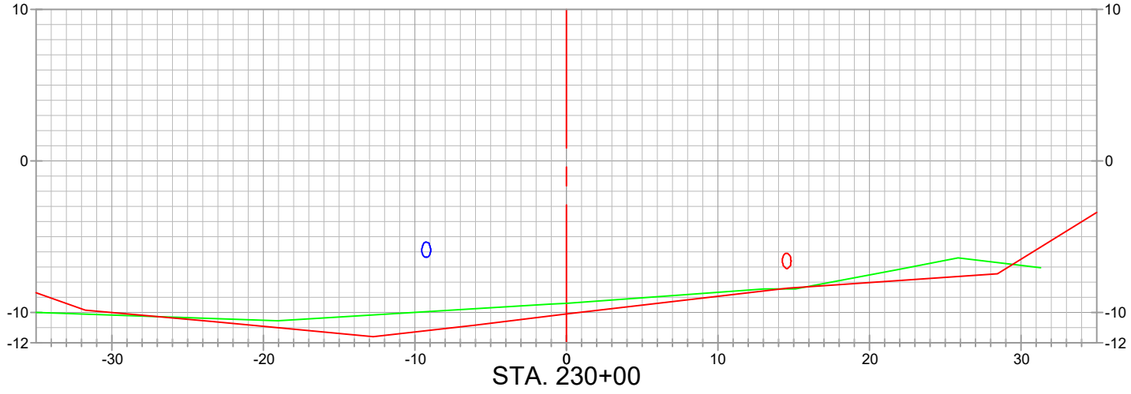
DATE: 12/19/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg | SHEET: 25 OF 33



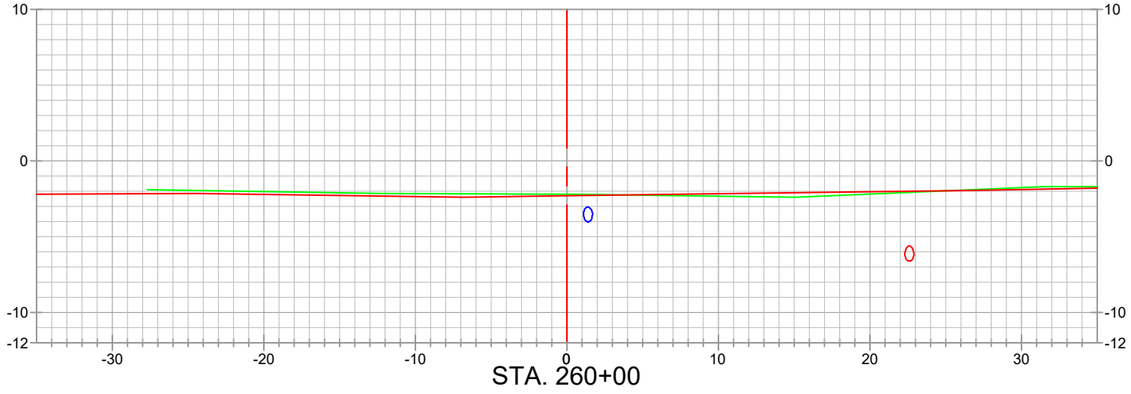
STA. 220+00



STA. 250+00



STA. 230+00



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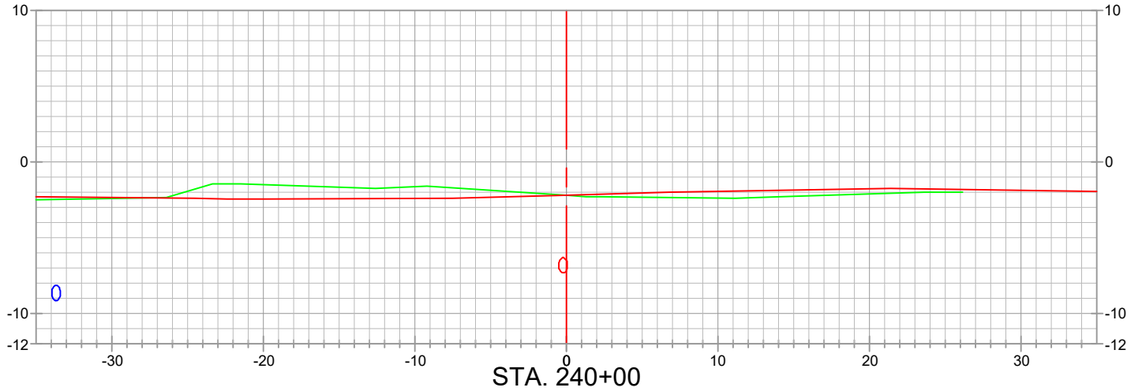
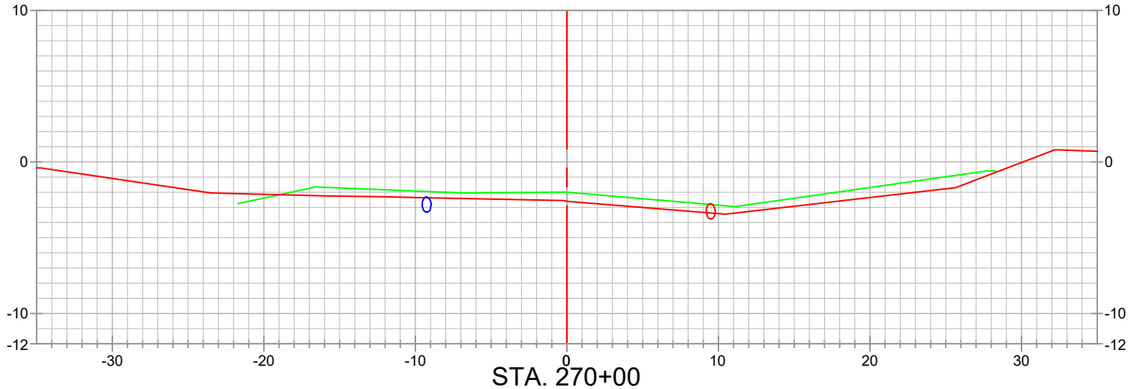


STA. 240+00



STA. 270+00

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5088
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

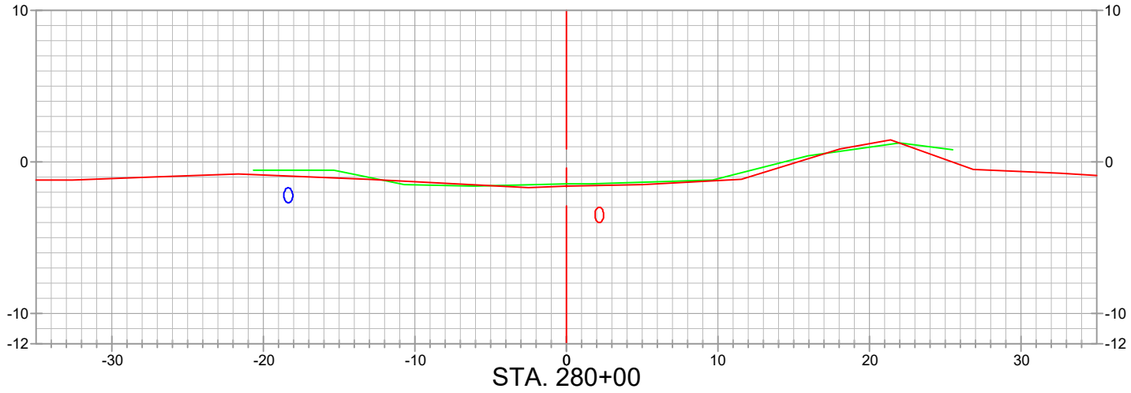
DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

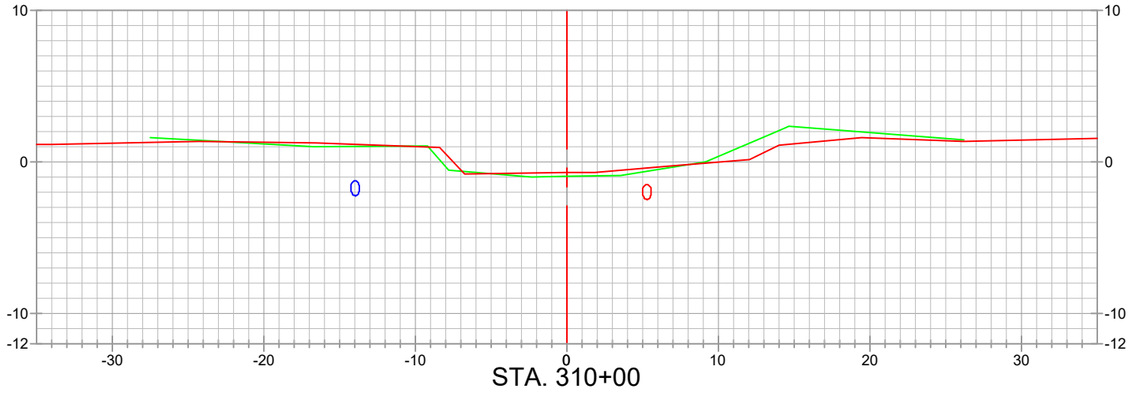
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

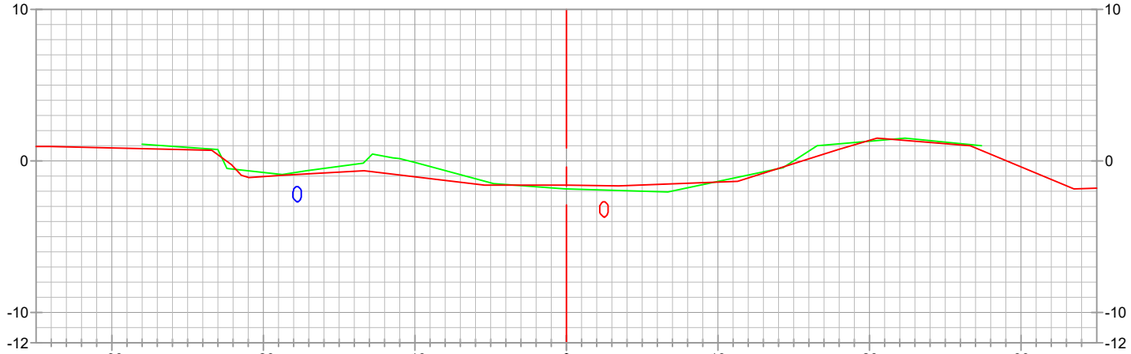
FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg



STA. 280+00



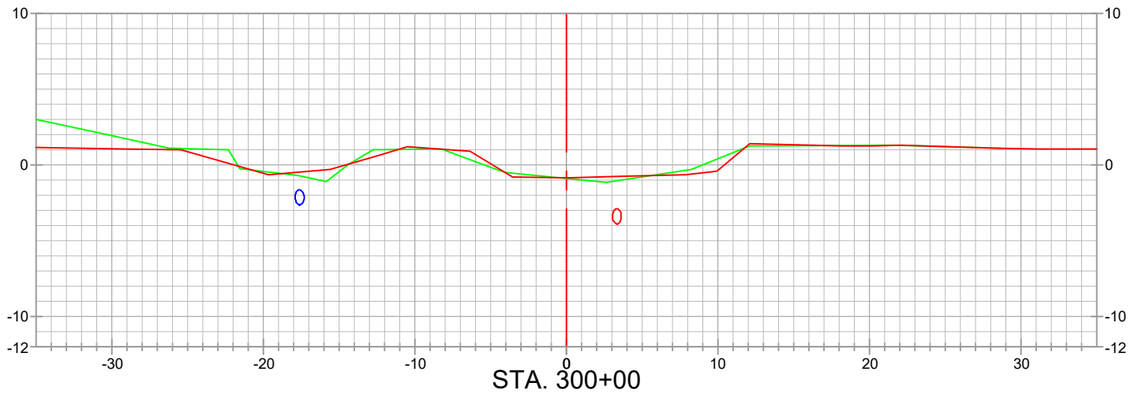
STA. 310+00



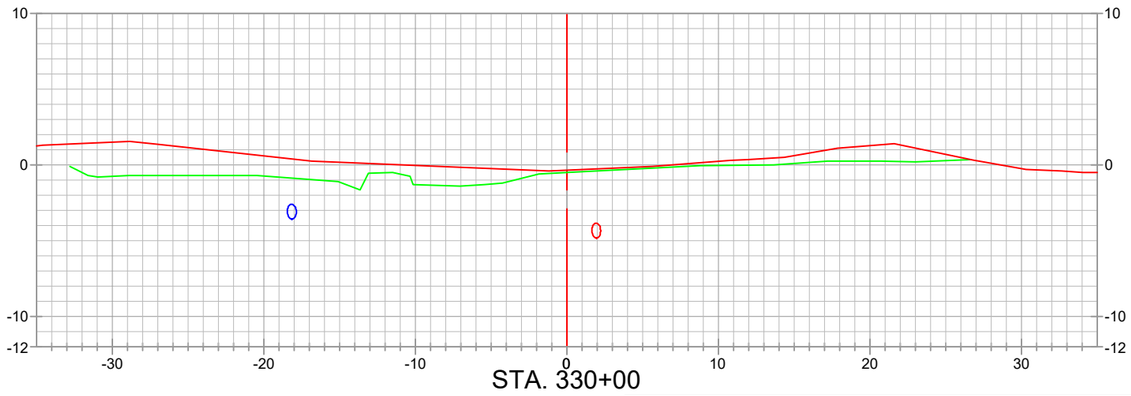
STA. 290+00



STA. 320+00



STA. 300+00



STA. 330+00

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5168
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE

50' 0' 25' 50'

VERTICAL SCALE

10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

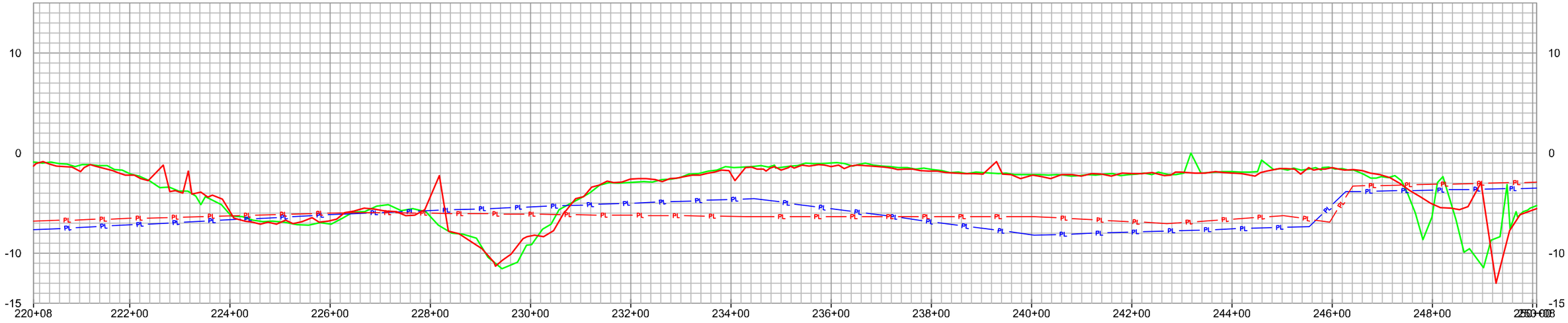
CROSS-SECTION VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

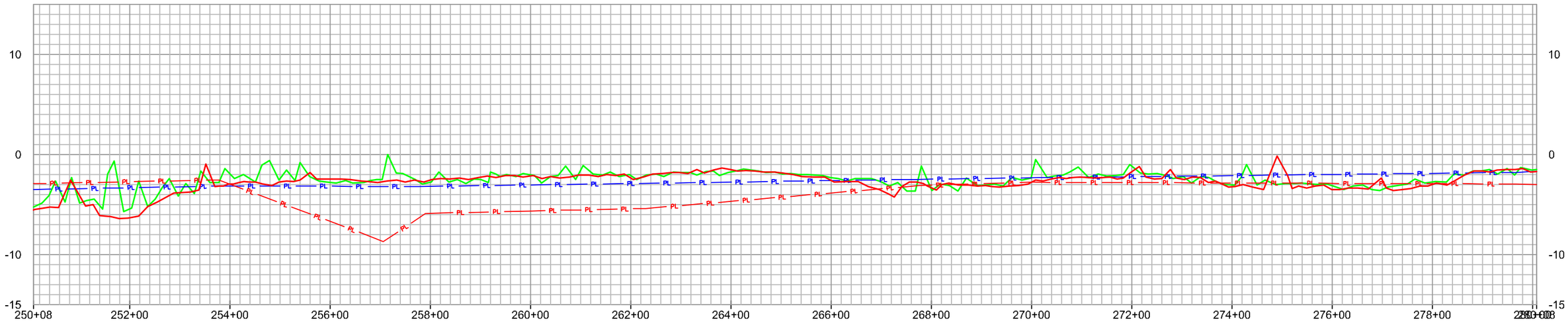
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 3



EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 3



12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE: 200' 0' 100' 200'

VERTICAL SCALE: 10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

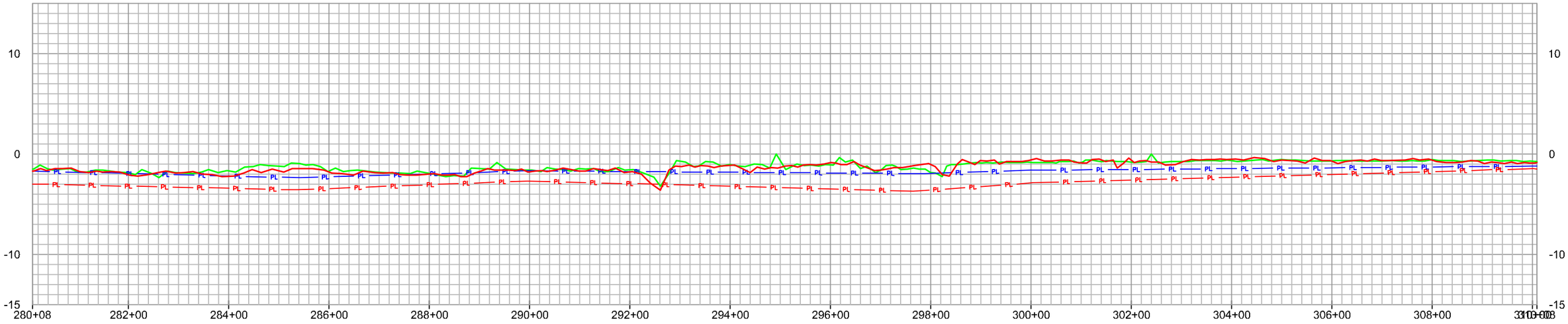
PROFILE VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

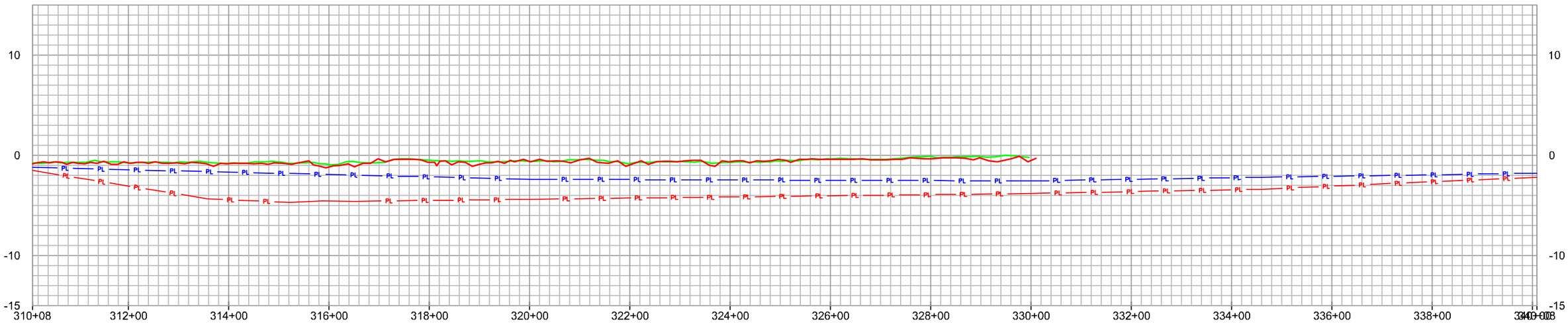
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 3



EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 3



NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- PL — 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- PL — 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

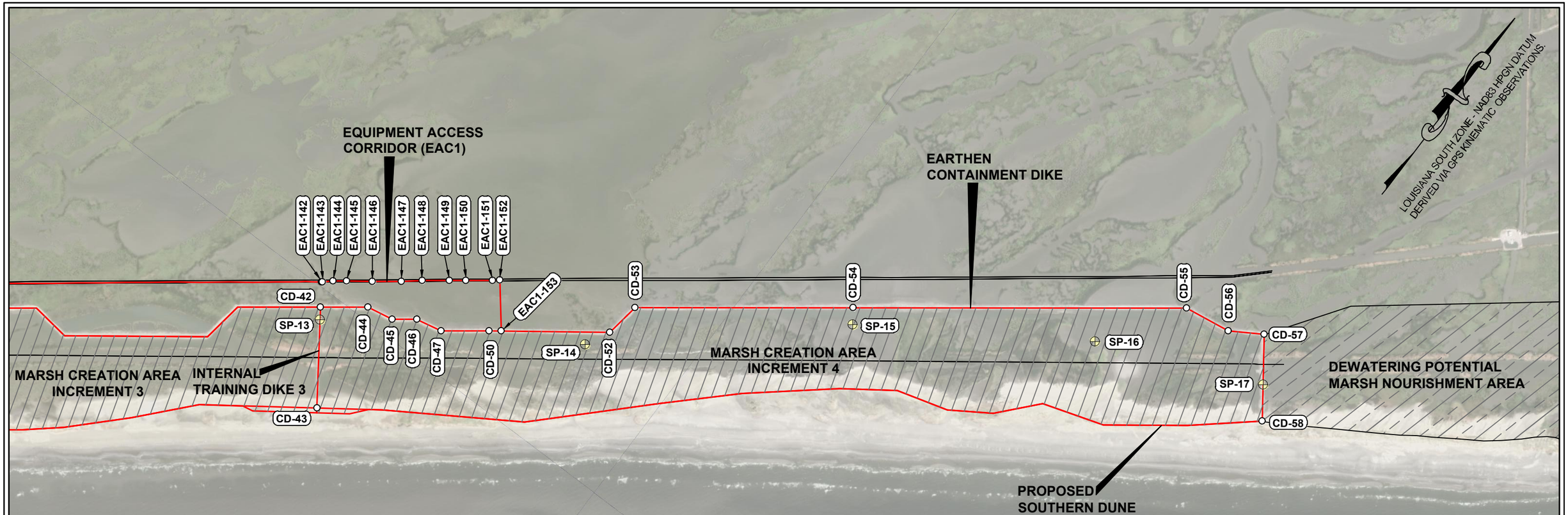
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

PROFILE VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 3_REV 00.dwg



EQUIPMENT ACCESS CORRIDOR (EAC1)
INCREMENT 4
COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-142	329+95.67	241,959.23	3,671,366.72
EAC1-143	330+09.20	241,967.47	3,671,377.45
EAC1-144	331+16.46	242,038.11	3,671,458.17
EAC1-145	332+57.19	242,121.08	3,671,571.83
EAC1-146	335+25.07	242,278.66	3,671,788.46
EAC1-147	338+23.22	242,460.58	3,672,024.67
EAC1-148	340+38.04	242,595.28	3,672,192.02
EAC1-149	343+16.99	242,764.37	3,672,413.89
EAC1-150	344+86.52	242,867.95	3,672,548.10
EAC1-151	347+61.46	243,032.33	3,672,768.48
EAC1-152	348+37.34	243,082.14	3,672,825.72
EAC1-153	353+63.88	242,670.94	3,673,154.60

EARTHEN CONTAINMENT DIKE
COORDINATES TABLE
INCREMENT 4

NAME	STATION	NORTHING	EASTING
CD-42	335+89.81	241,744.13	3,671,517.37
CD-44	340+79.33	242,038.07	3,671,908.81
CD-45	343+59.26	242,092.97	3,672,188.31
CD-46	346+08.84	242,241.00	3,672,384.25
CD-47	348+90.24	242,300.90	3,672,659.20
CD-50	353+86.88	242,598.97	3,673,056.45
CD-52	366+31.46	243,334.95	3,674,060.09
CD-53	366+96.22	243,695.78	3,674,113.53
CD-54	392+47.57	245,047.22	3,675,911.63
CD-55	426+83.79	247,112.97	3,678,660.10
CD-56	431+72.83	247,187.03	3,679,143.49
CD-57	435+43.37	247,380.93	3,679,459.25
CD-58	444+41.77	246,654.09	3,679,987.30
CD-43 , CD-48, CD-49, CD-51 INTENTIONALLY LEFT OFF			

INSTRUMENTED SETTLEMENT PLATES
INCREMENT 4
COORDINATES TABLE

NAME	NORTHING	EASTING
SP-13	241,636.95	3,671,592.41
SP-14	243,082.25	3,673,931.96
SP-15	244,904.41	3,676,011.63
SP-16	246,269.28	3,678,111.96
SP-17	246,960.52	3,679,767.12

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 — EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 JOB# 2221011

HYDROTERRA

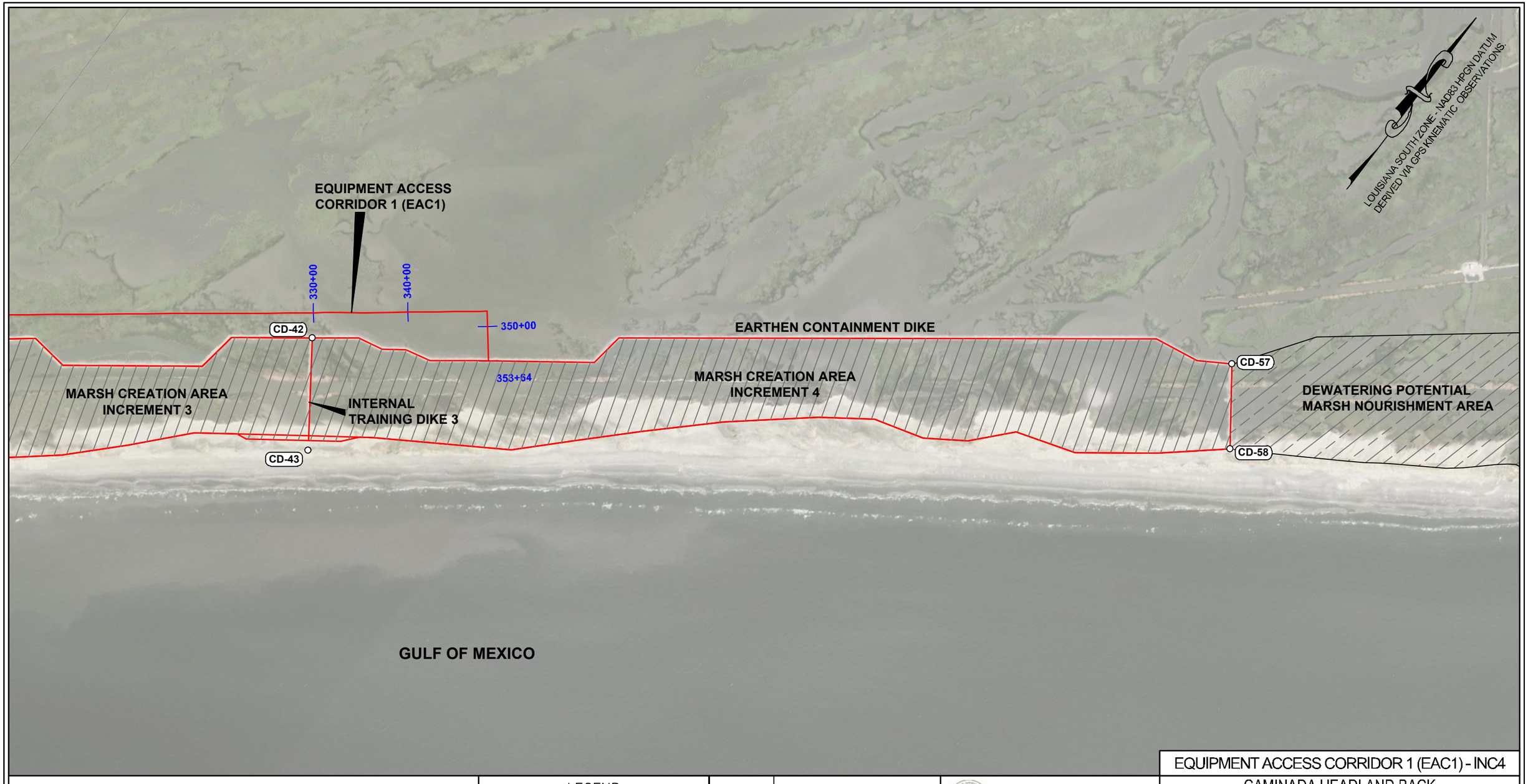
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 4_REV 00.dwg

SHEET: 30 OF 33



STATE OF LOUISIANA
KEITH J. ROBERTS
PLS NO. 4766
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/19/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC4

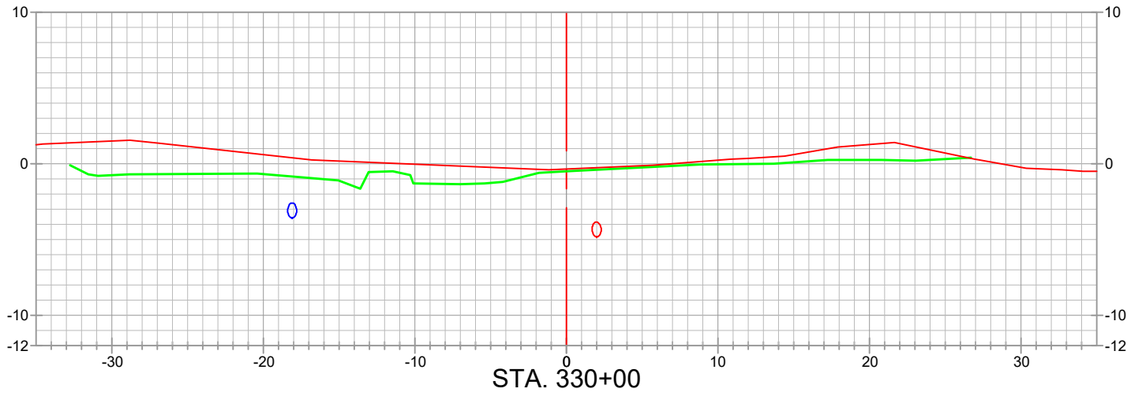
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

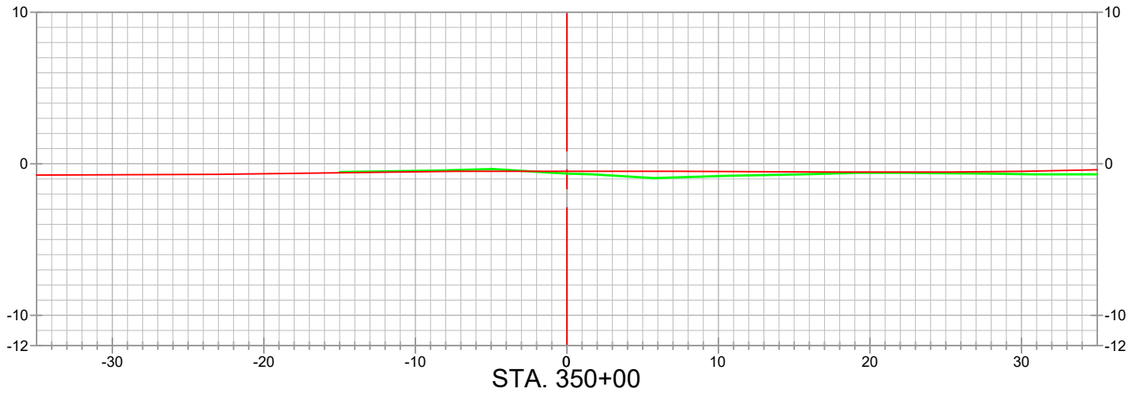
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 4_REV 00.dwg

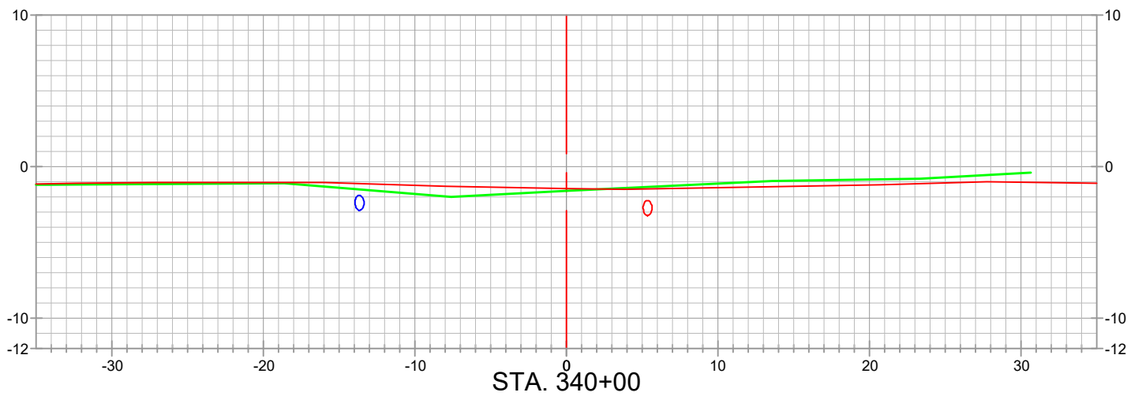
SHEET: 31 OF 33



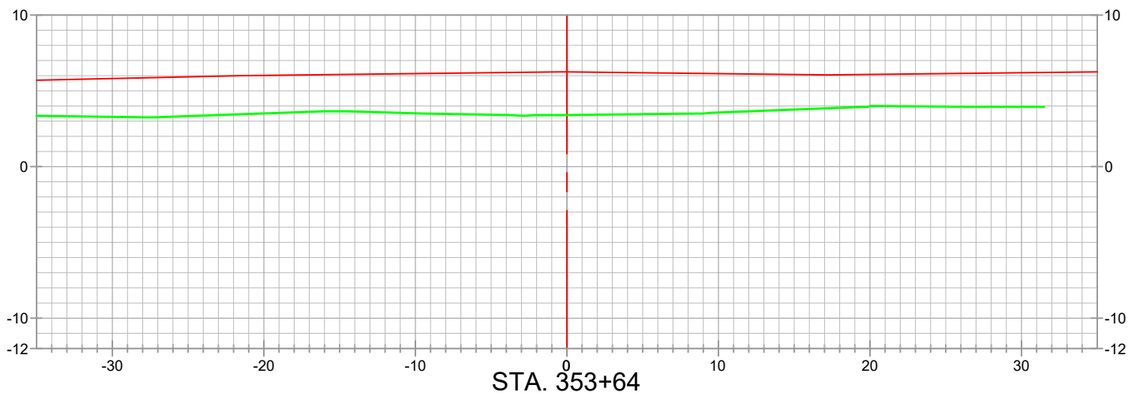
STA. 330+00



STA. 350+00



STA. 340+00



STA. 353+64

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4988
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

2.) **THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- ALIGNMENT / BASELINE
- 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE

50' 0' 25' 50'

VERTICAL SCALE

10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

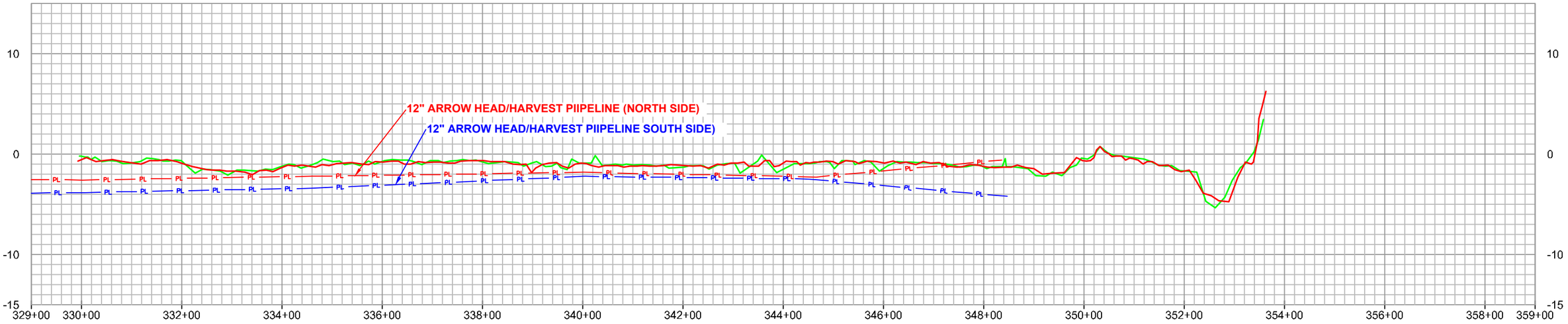
CROSS-SECTION VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 4_REV 00.dwg

EQUIPMENT ACCESS CORRIDOR 1 (EAC1)_INCREMENT 4



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/19/22

NOTES:

1.) **FOR MORE INFORMATION ON 12" ARROW HEAD/HARVEST PIPELINES/ALL PIPELINES SEE THE EQUIPMENT ACCESS CORRIDORS MAGNETOMETER AND PROBED PIPELINE SURVEY FOR FURTHER DETAILS.**

LEGEND

- AS-BUILT SURVEY (12-13-22)
- PRE-CONSTRUCTION SURVEY
- PL — 12" ARROW HEAD/HARVEST PIPELINE (NORTH SIDE)
- PL — 12" ARROW HEAD/HARVEST PIPELINE (SOUTH SIDE)

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/19/2022 | JOB# 2221011

HYDROTERRA

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) - INC 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-13-22)
EQUIPMENT ACCESS CORRIDORS 1, 2, 3 & 4
INCREMENTS 1, 2, 3 & 4

PROFILE VIEWS

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

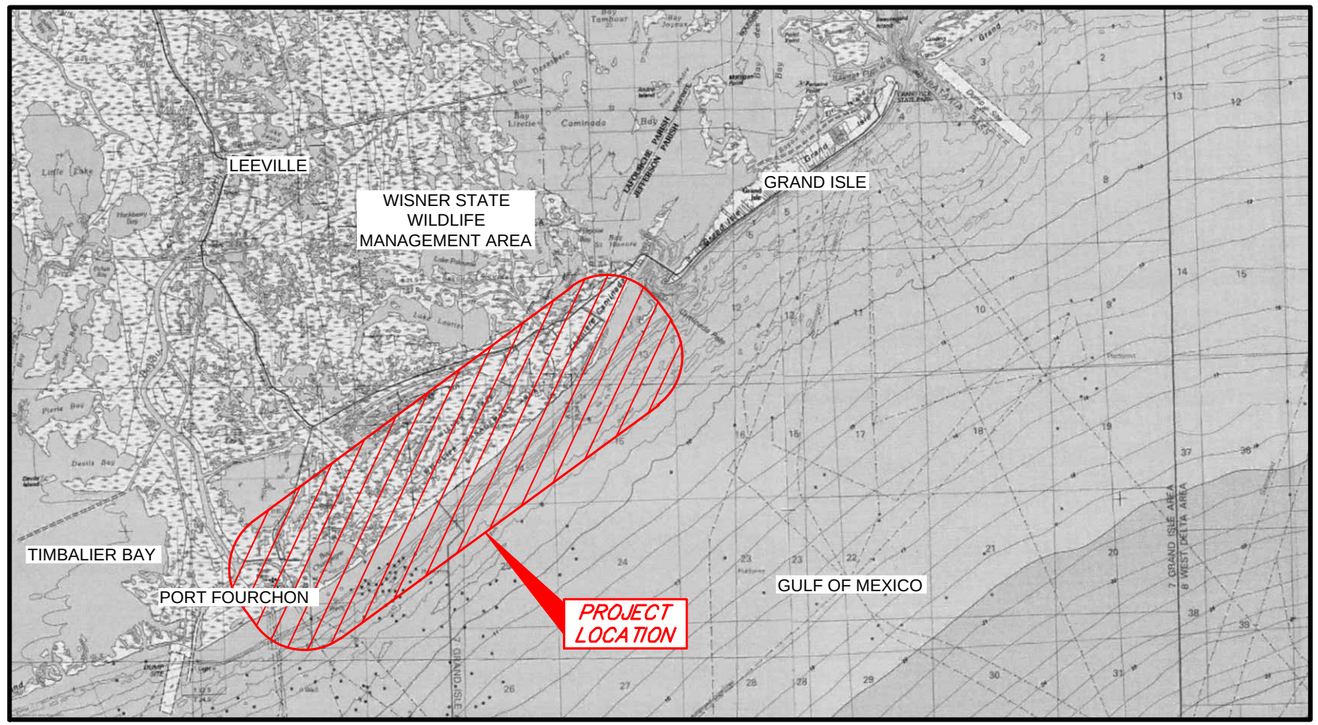
FILE: Caminada_RESUME WORK_AS-BUILT_EAC_INC 4_REV 00.dwg | SHEET: 33 OF 33

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 27	CROSS-SECTION VIEWS
28 -32	PLAN / PROFILE VIEWS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL
LAND SURVEYOR
12/16/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1

TITLE PAGE

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 1 OF 32

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. RESUMING WORK PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC BETWEEN 02-07-22 AND 04-04-22 INCLUSIVE.
5. RESUMING WORK PROGRESS SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES, INC. BETWEEN 03-22-22 AND 07-15-22.
6. PROGRESS SURVEY DATA ACQUISITION WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC DATED 09-14-22 TO 09-17-22 AND CHECK BY HYDROTERRA TECHNOLOGIES, LLC ON 09-21-22.
7. MONTHLY ECD SURVEY DATA DATED 10-15-22 WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC. AND REVIEWED BY HYDROTERRA TECHNOLOGIES, LLC ON 10-24-22.
8. AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 11-07-22, 11-08-22, 11-09-22, 11-10-22, 11-11-22, 11-14-22, 11-15-22. 11-16-22. 11-28-22, 11-29-22, 11-30-22, 12-02-22, 12-03-22, 12-05-22, 12-06-22, 12-07-22, 12-08-22 AND 12-09-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL
MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL
TRAINING DIKE 3

EARTHEN CONTAINMENT
DIKE ALIGNMENT

BAYOU MOREAU

GULF OF MEXICO

INCREMENT 3

50' BEACH AND
DUNE CROSSING

EQUIPMENT ACCESS
CORRIDOR (EA3)

DREDGE PIPELINE CORRIDOR

EQUIPMENT ACCESS
CORRIDOR (EA1)

INTERNAL
TRAINING DIKE 2

EQUIPMENT ACCESS
CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS
CORRIDOR (EA2)

INTERNAL
TRAINING DIKE 1

50' BEACH AND
DUNE CROSSING

DREDGE PIPELINE CORRIDOR

BAYOU LAFOURCHE

PORT FOURCHON
MARINA

INCREMENT 1

SW BORROW AREA

DREDGE PIPELINE CORRIDOR

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

GULF OF MEXICO

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/15/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

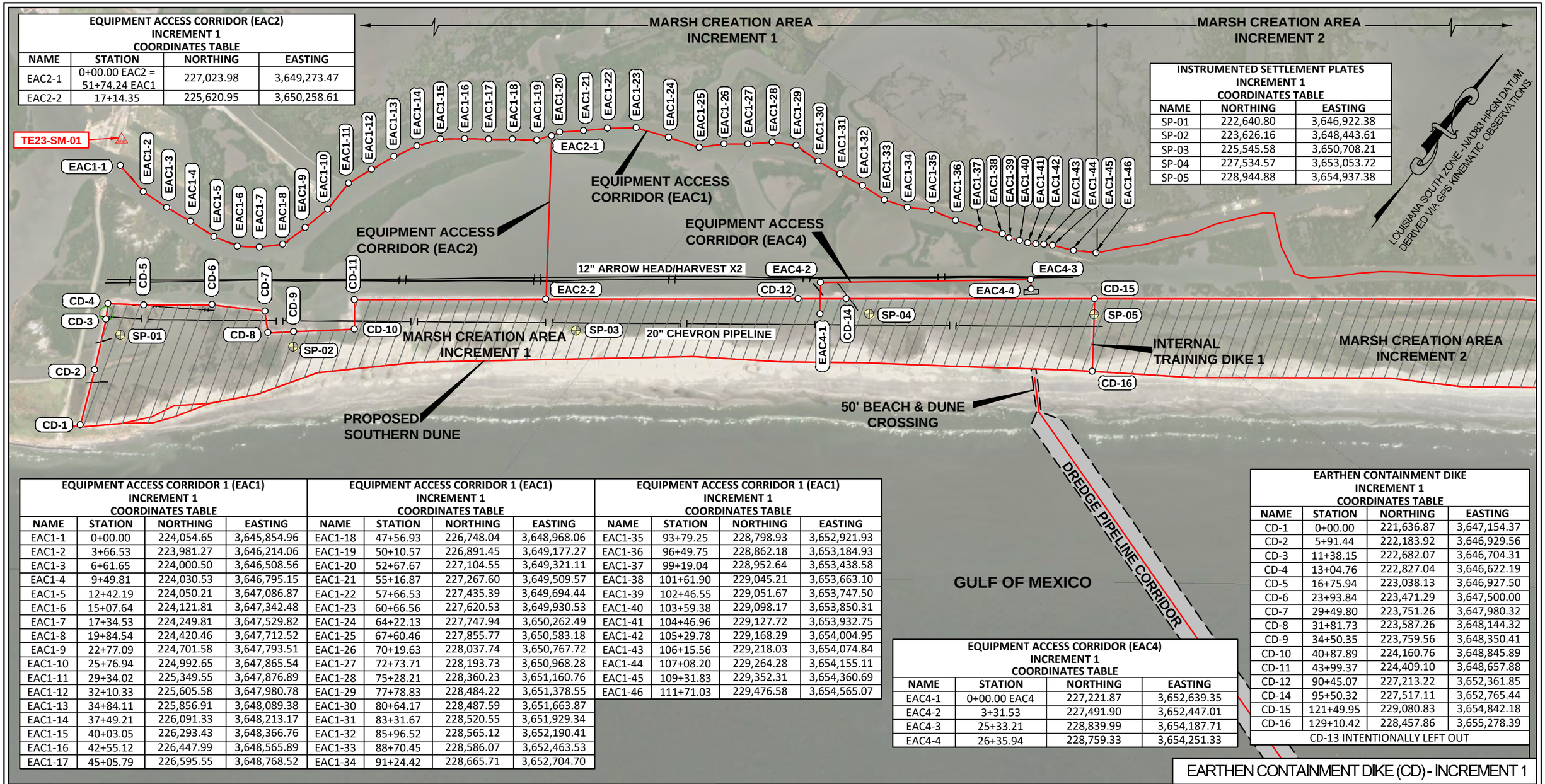
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg

SHEET: 2 OF 32



EQUIPMENT ACCESS CORRIDOR (EAC2) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC2-1	0+00.00 EAC2 = 51+74.24 EAC1	227,023.98	3,649,273.47
EAC2-2	17+14.35	225,620.95	3,650,258.61

INSTRUMENTED SETTLEMENT PLATES INCREMENT 1 COORDINATES TABLE

NAME	NORTHING	EASTING
SP-01	222,640.80	3,646,922.38
SP-02	223,626.16	3,648,443.61
SP-03	225,545.58	3,650,708.21
SP-04	227,534.57	3,653,053.72
SP-05	228,944.88	3,654,937.38

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-1	0+00.00	224,054.65	3,645,854.96
EAC1-2	3+66.53	223,981.27	3,646,214.06
EAC1-3	6+61.65	224,000.50	3,646,508.56
EAC1-4	9+49.81	224,030.53	3,646,795.15
EAC1-5	12+42.19	224,050.21	3,647,086.87
EAC1-6	15+07.64	224,121.81	3,647,342.48
EAC1-7	17+34.53	224,249.81	3,647,529.82
EAC1-8	19+84.54	224,420.46	3,647,712.52
EAC1-9	22+77.09	224,701.58	3,647,793.51
EAC1-10	25+76.94	224,992.65	3,647,865.54
EAC1-11	29+34.02	225,349.55	3,647,876.89
EAC1-12	32+10.33	225,605.58	3,647,980.78
EAC1-13	34+84.11	225,856.91	3,648,089.38
EAC1-14	37+49.21	226,091.33	3,648,213.17
EAC1-15	40+03.05	226,293.43	3,648,366.76
EAC1-16	42+55.12	226,447.99	3,648,565.89
EAC1-17	45+05.79	226,595.55	3,648,768.52

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-18	47+56.93	226,748.04	3,648,968.06
EAC1-19	50+10.57	226,891.45	3,649,177.27
EAC1-20	52+67.67	227,104.55	3,649,321.11
EAC1-21	55+16.87	227,267.60	3,649,509.57
EAC1-22	57+66.53	227,435.39	3,649,694.44
EAC1-23	60+66.56	227,620.53	3,649,930.53
EAC1-24	64+22.13	227,747.94	3,650,262.49
EAC1-25	67+60.46	227,855.77	3,650,583.18
EAC1-26	70+19.63	228,037.74	3,650,767.72
EAC1-27	72+73.71	228,193.73	3,650,968.28
EAC1-28	75+28.21	228,360.23	3,651,160.76
EAC1-29	77+78.83	228,484.22	3,651,378.55
EAC1-30	80+64.17	228,487.59	3,651,663.87
EAC1-31	83+31.67	228,520.55	3,651,929.34
EAC1-32	85+96.52	228,565.12	3,652,190.41
EAC1-33	88+70.45	228,586.07	3,652,463.53
EAC1-34	91+24.42	228,665.71	3,652,704.70

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-35	93+79.25	228,798.93	3,652,921.93
EAC1-36	96+49.75	228,862.18	3,653,184.93
EAC1-37	99+19.04	228,952.64	3,653,438.58
EAC1-38	101+61.90	229,045.21	3,653,663.10
EAC1-39	102+46.55	229,051.67	3,653,747.50
EAC1-40	103+59.38	229,098.17	3,653,850.31
EAC1-41	104+46.96	229,127.72	3,653,932.75
EAC1-42	105+29.78	229,168.29	3,654,004.95
EAC1-43	106+15.56	229,218.03	3,654,074.84
EAC1-44	107+08.20	229,264.28	3,654,155.11
EAC1-45	109+31.83	229,352.31	3,654,360.69
EAC1-46	111+71.03	229,476.58	3,654,565.07

EQUIPMENT ACCESS CORRIDOR (EAC4) INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC4-1	0+00.00 EAC4	227,221.87	3,652,639.35
EAC4-2	3+31.53	227,491.90	3,652,447.01
EAC4-3	25+33.21	228,839.99	3,654,187.71
EAC4-4	26+35.94	228,759.33	3,654,251.33

EARTHEN CONTAINMENT DIKE INCREMENT 1 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
CD-1	0+00.00	221,636.87	3,647,154.37
CD-2	5+91.44	222,183.92	3,646,929.56
CD-3	11+38.15	222,682.07	3,646,704.31
CD-4	13+04.76	222,827.04	3,646,622.19
CD-5	16+75.94	223,038.13	3,646,927.50
CD-6	23+93.84	223,471.29	3,647,500.00
CD-7	29+49.80	223,751.26	3,647,980.32
CD-8	31+81.73	223,587.26	3,648,144.32
CD-9	34+50.35	223,759.56	3,648,350.41
CD-10	40+87.89	224,160.76	3,648,845.89
CD-11	43+99.37	224,409.10	3,648,657.88
CD-12	90+45.07	227,213.22	3,652,361.85
CD-14	95+50.32	227,517.11	3,652,765.44
CD-15	121+49.95	229,080.83	3,654,842.18
CD-16	129+10.42	228,457.86	3,655,278.39
CD-13 INTENTIONALLY LEFT OUT			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4188
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE

	PROJECT ALIGNMENT/BASELINE
	TEMPLATE
EAC1-1	POINT NAME AND POINT
—x—	FENCE
SP-01	SETTLEMENT PLATE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg

MARSH CREATION AREA
INCREMENT 1

EQUIPMENT ACCESS
CORRIDOR (EAC1)

EQUIPMENT ACCESS
CORRIDOR (EAC2)

EQUIPMENT ACCESS
CORRIDOR (EAC4)

TE23-SM-01

EAC1-1

EAC2-1

EAC2-2

EAC1-46

EAC4-1

EAC4-4

CD-15

SP-01

SP-02

SP-03

SP-04

SP-05

MARSH CREATION AREA
INCREMENT 1

INTERNAL
TRAINING DIKE 1

50' BEACH & DUNE
CROSSING

DREDGE PIPELINE
CORRIDOR

GULF OF MEXICO

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/15/22

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE

	PROJECT ALIGNMENT/BASELINE
	TEMPLATE
	SURVEY CROSS-SECTION
EAC1-1	POINT NAME AND POINT
—x—	FENCE
SP-01	SETTLEMENT PLATE
+3.0	ELEVATION IN FEET NAVD88

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 700'
700' 0' 350' 700'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

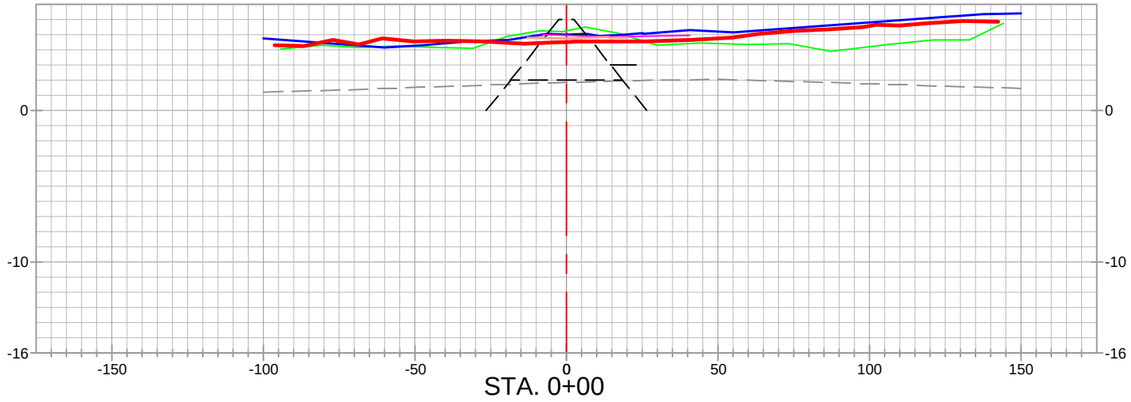
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

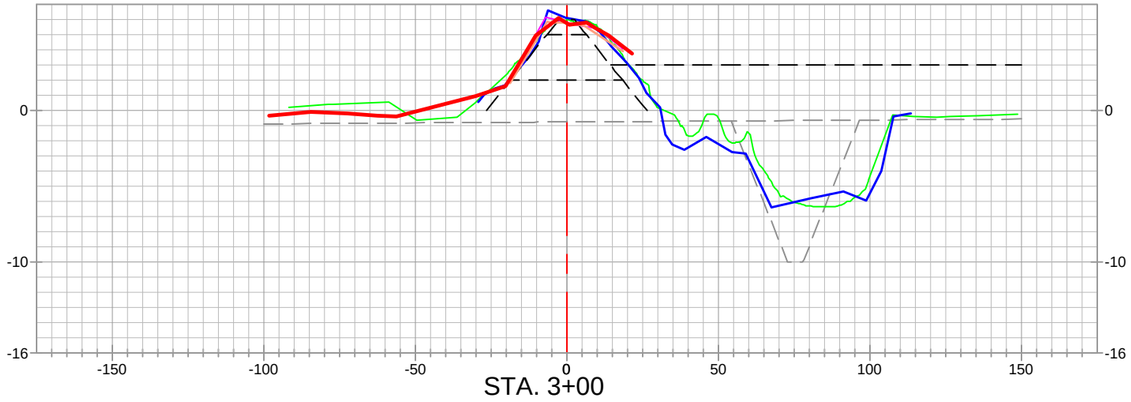
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg

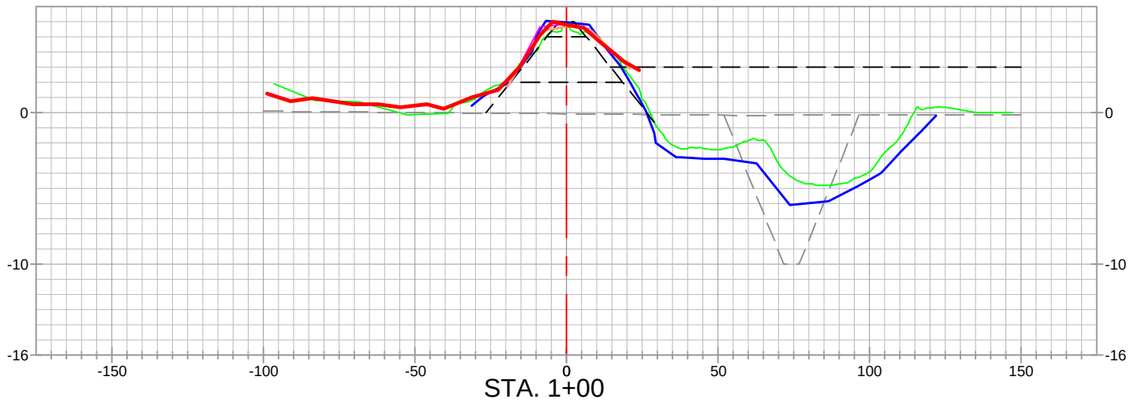
SHEET: 4 OF 32



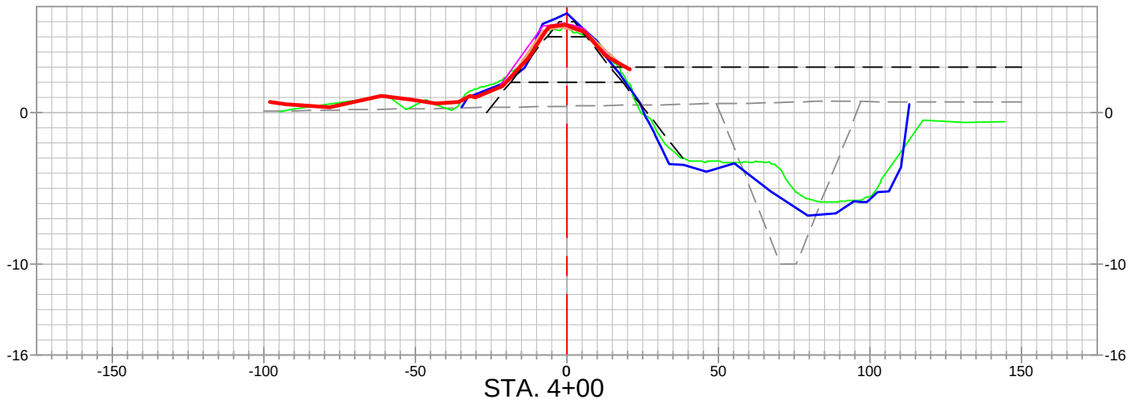
STA. 0+00



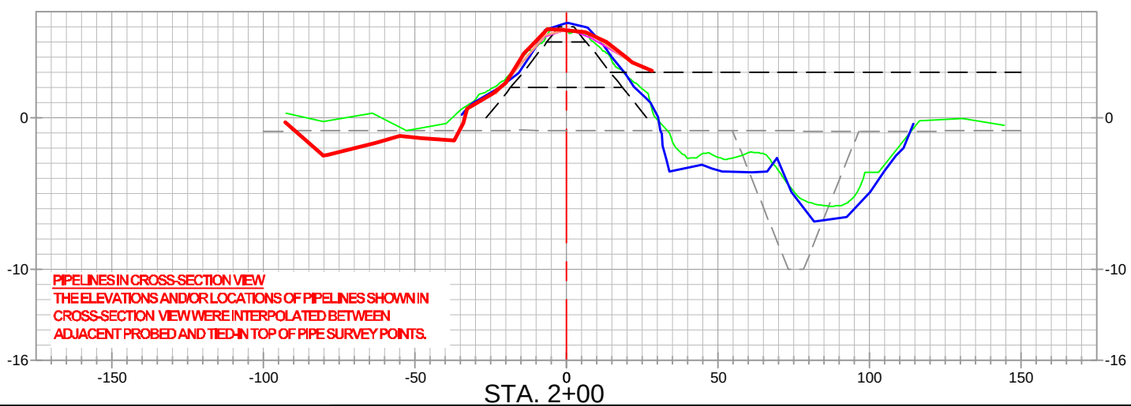
STA. 3+00



STA. 1+00

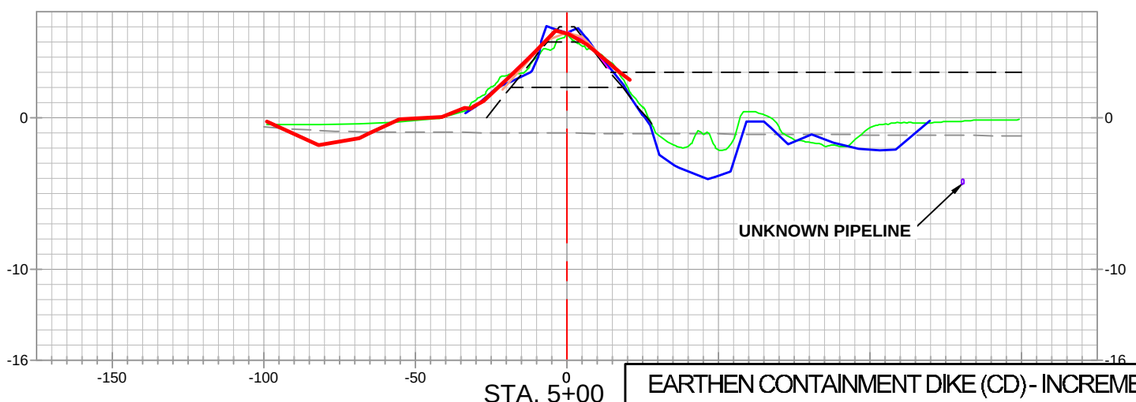


STA. 4+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 2+00



STA. 5+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

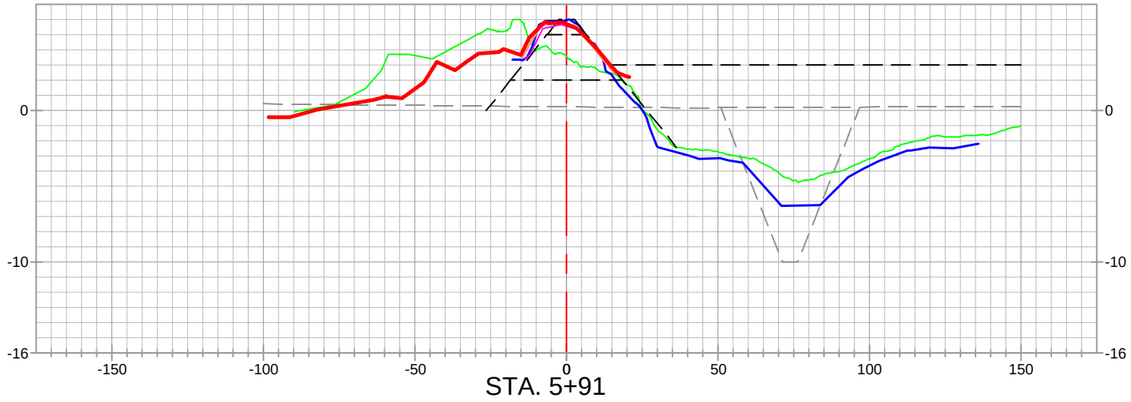
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

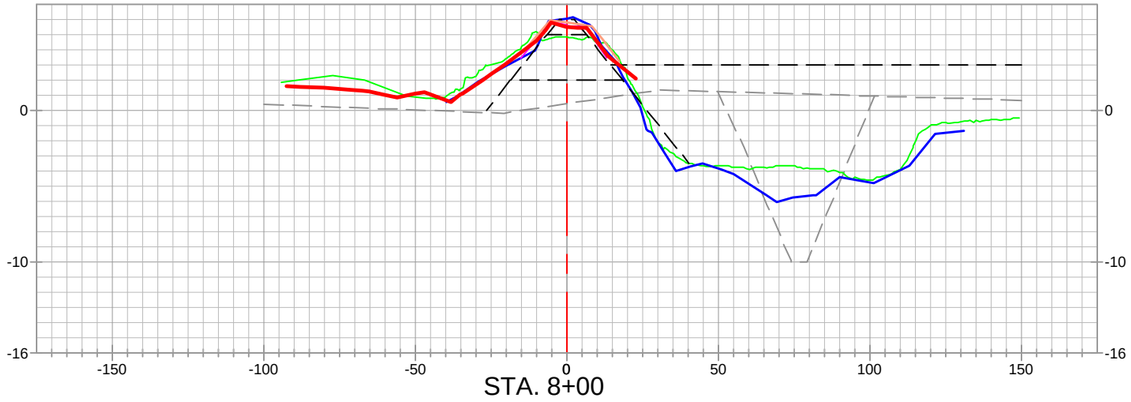
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg

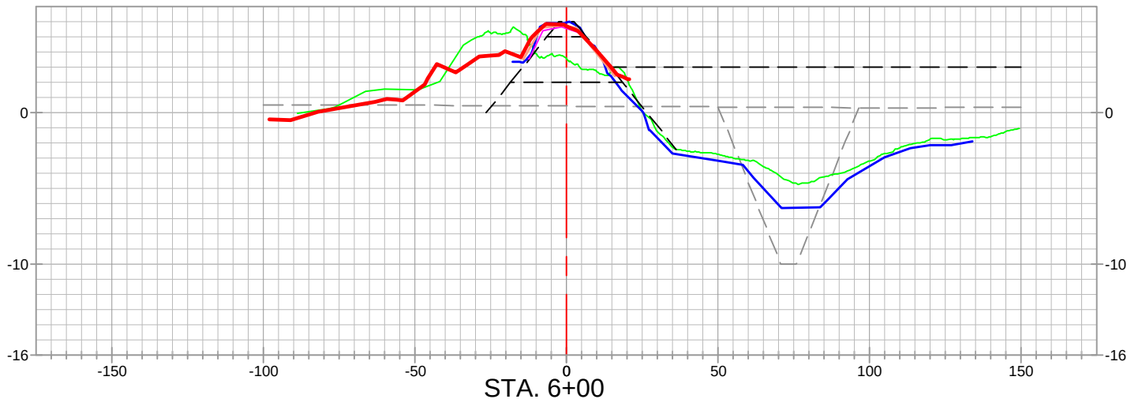
SHEET: 5 OF 32



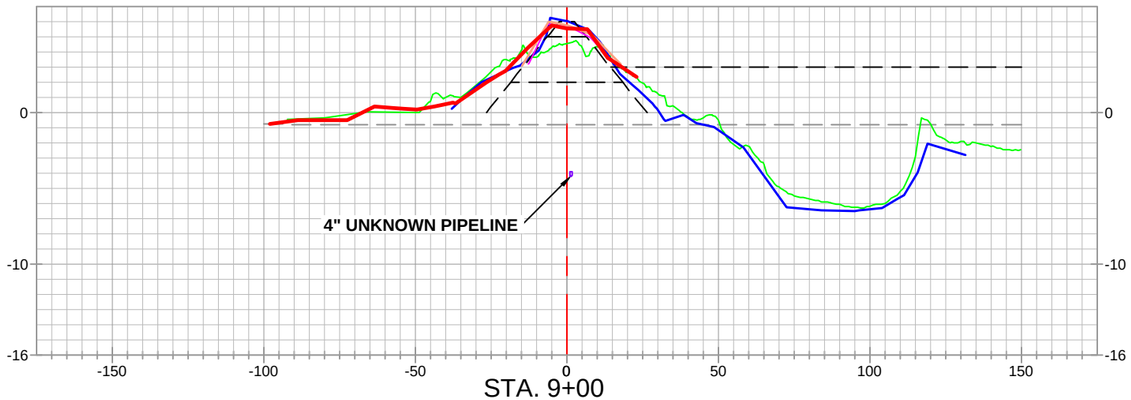
STA. 5+91



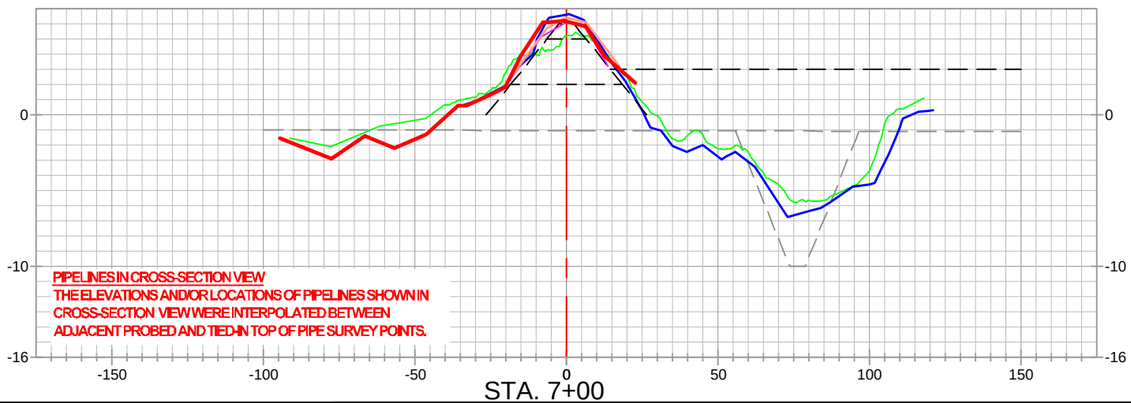
STA. 8+00



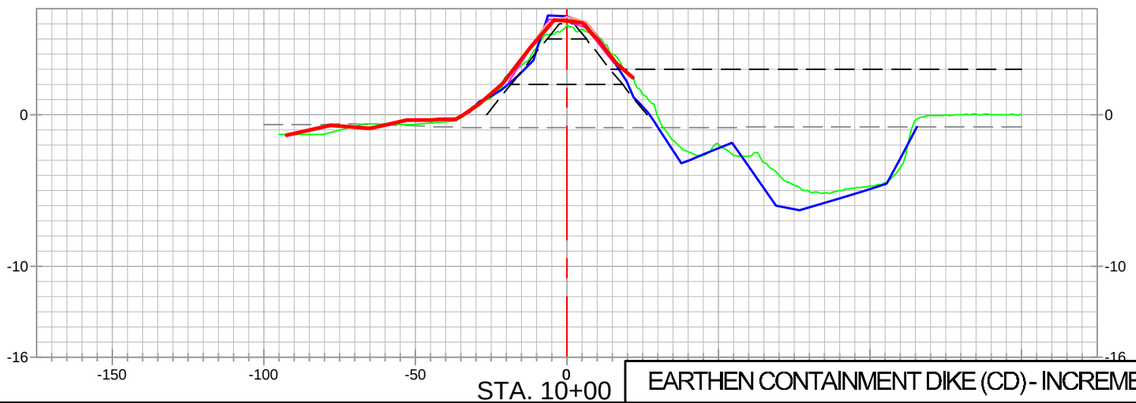
STA. 6+00



STA. 9+00



STA. 7+00



STA. 10+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

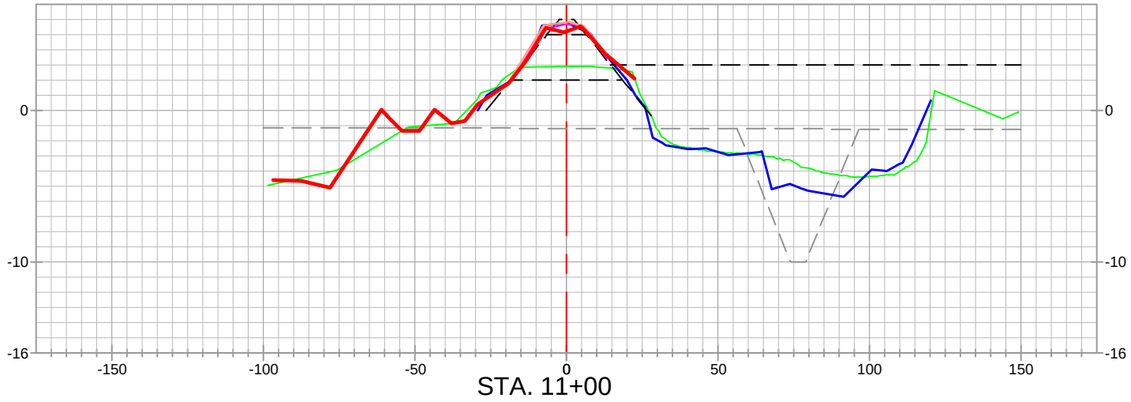
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

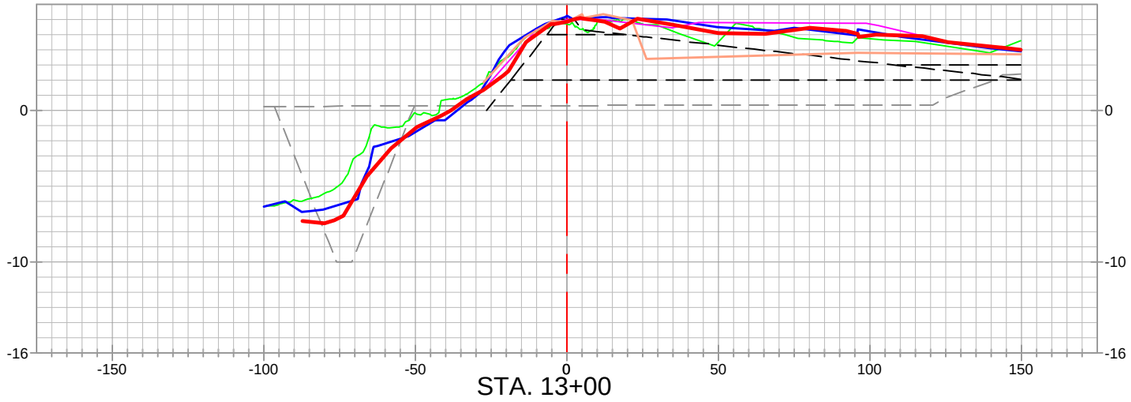
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

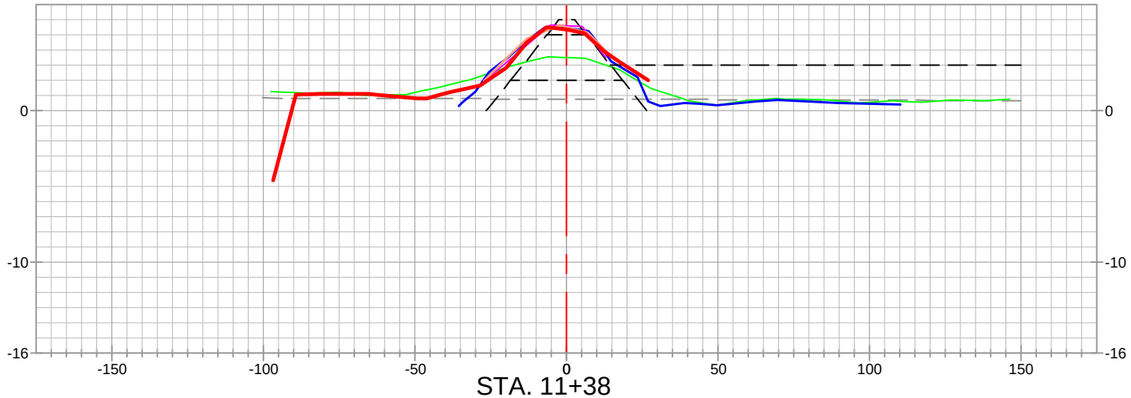
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 6 OF 32



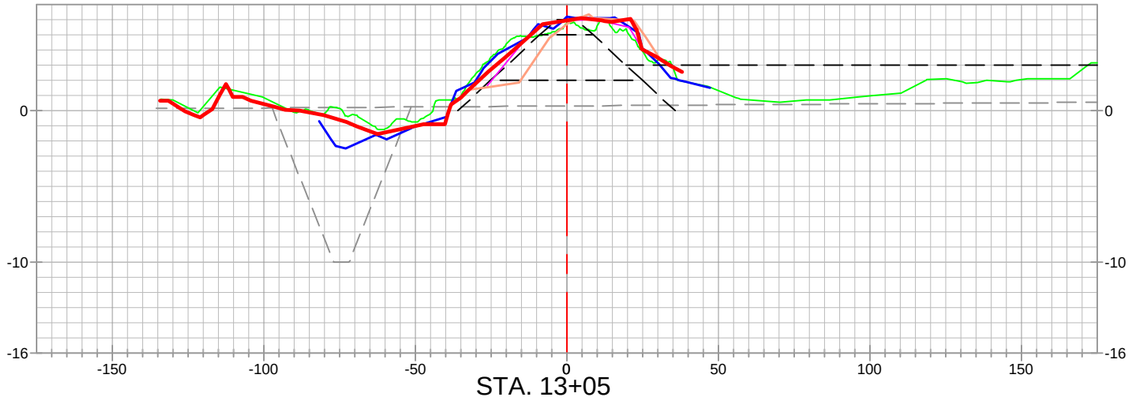
STA. 11+00



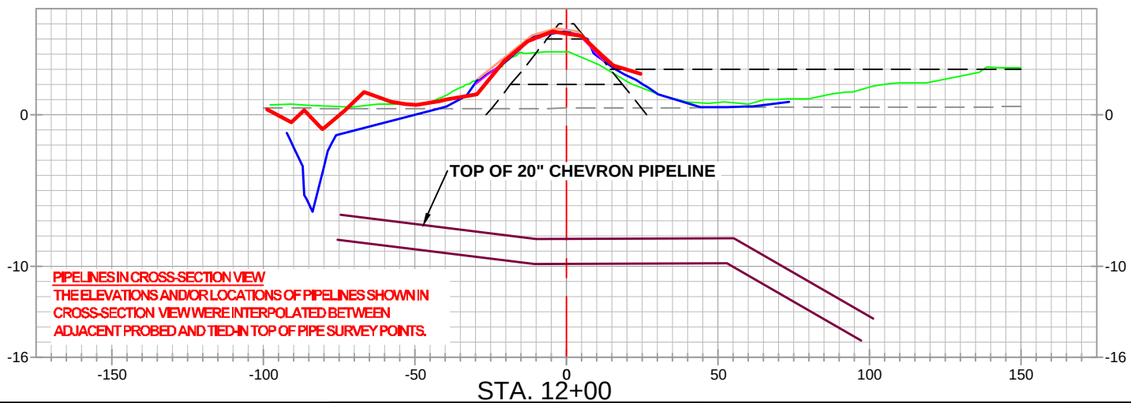
STA. 13+00



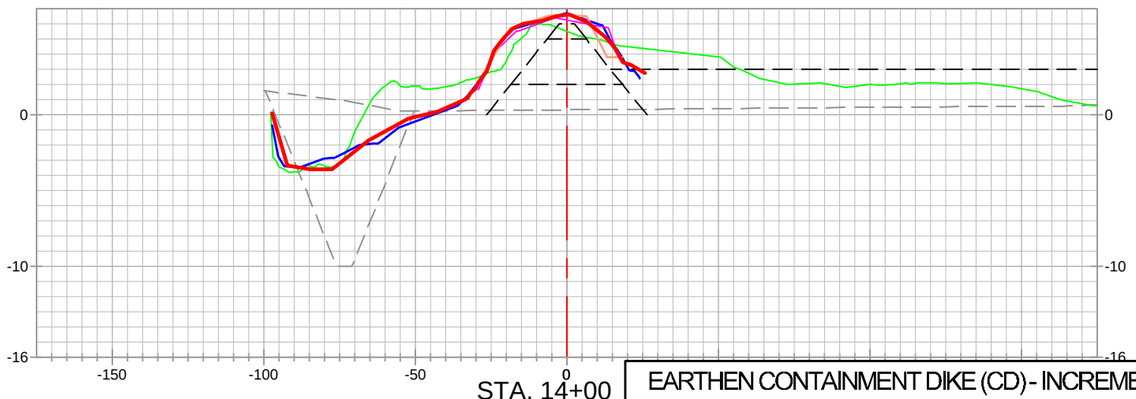
STA. 11+38



STA. 13+05



STA. 12+00



STA. 14+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

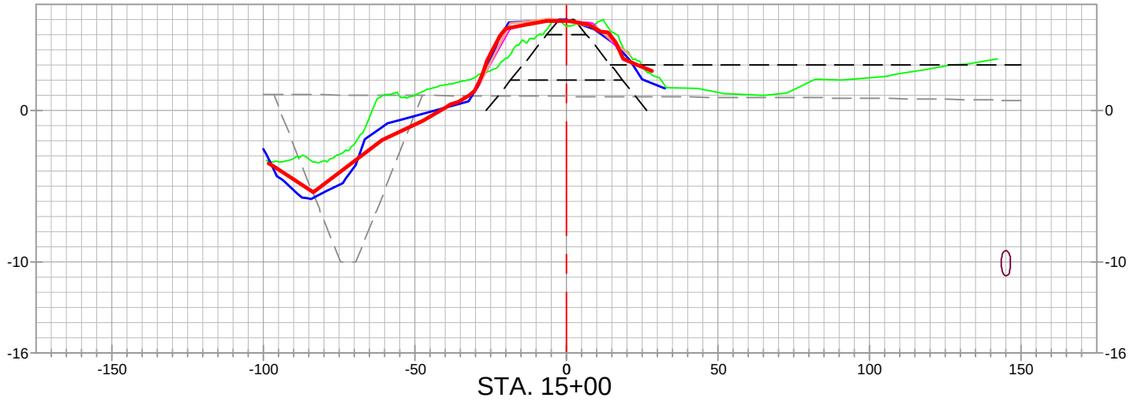
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

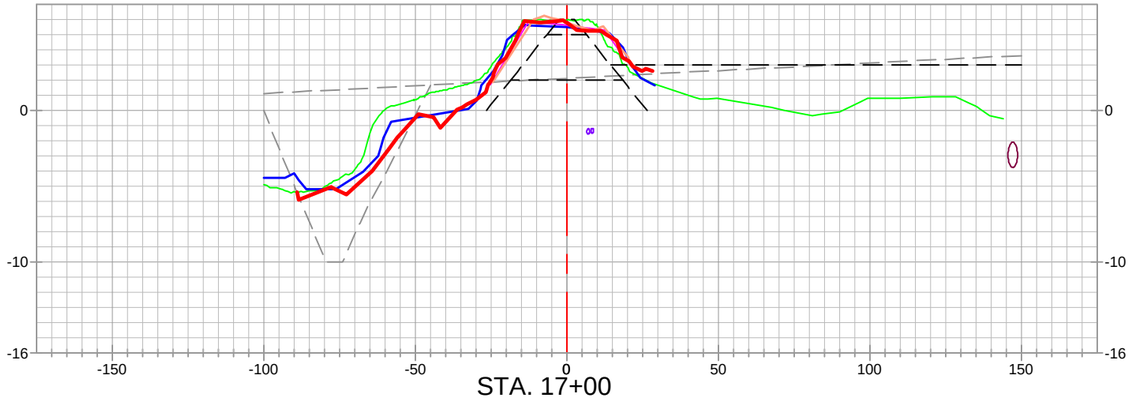
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

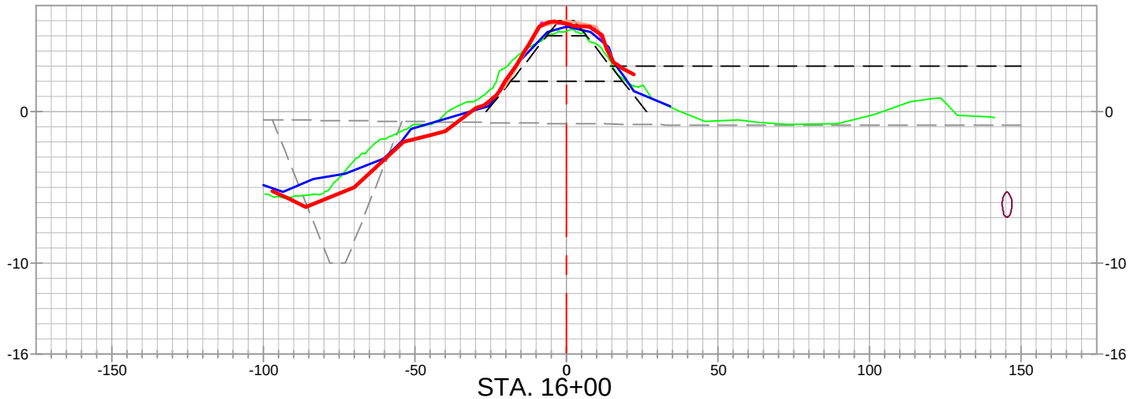
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 7 OF 32



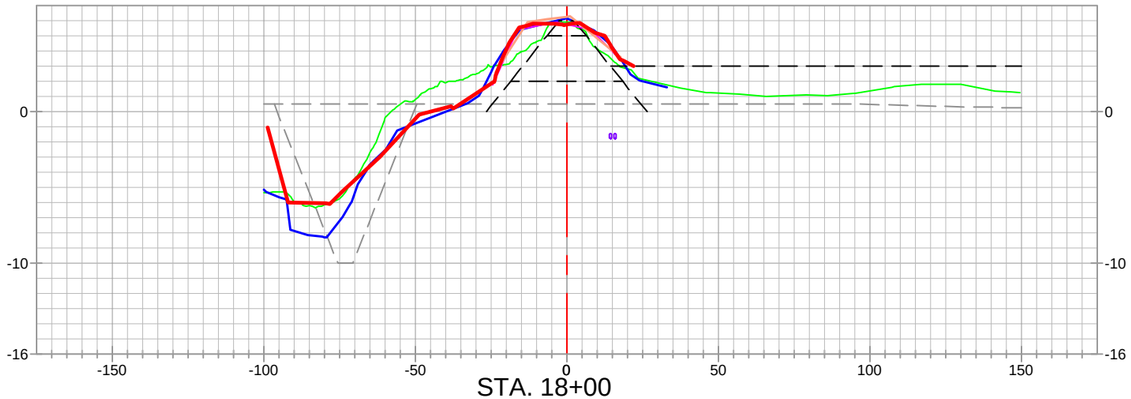
STA. 15+00



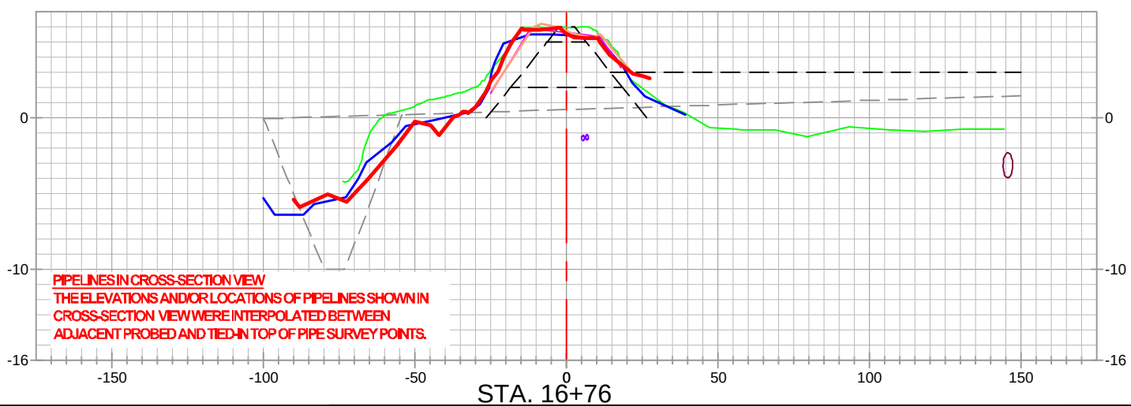
STA. 17+00



STA. 16+00

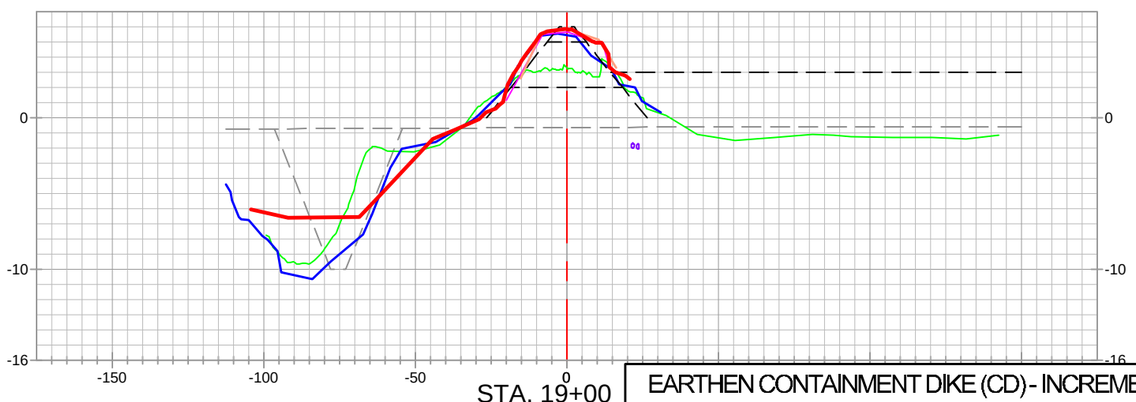


STA. 18+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 16+76



STA. 19+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

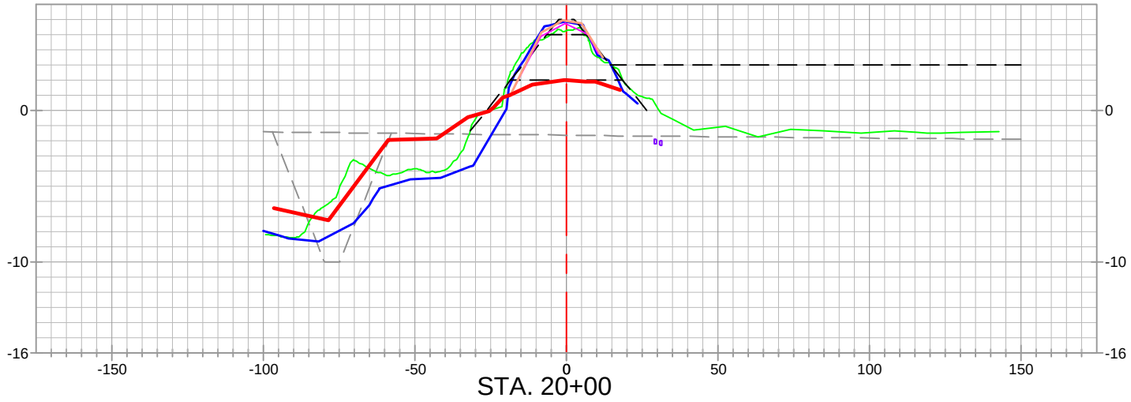
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

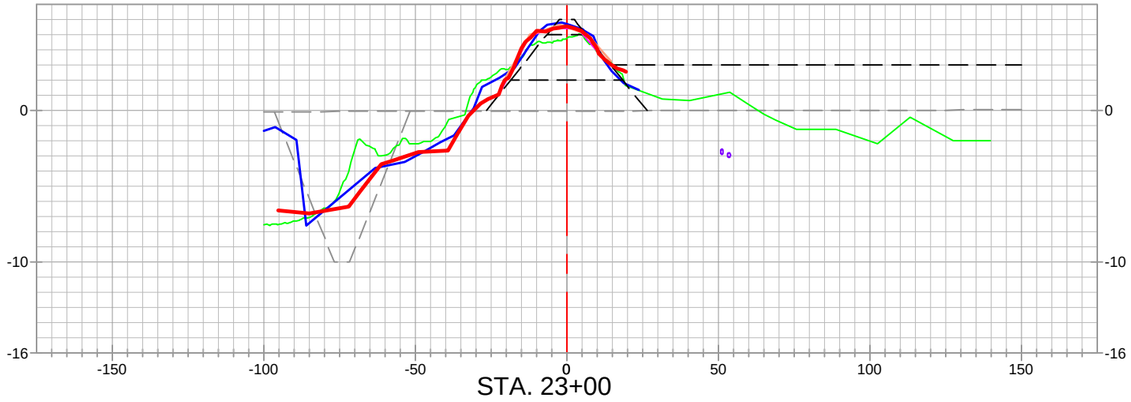
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

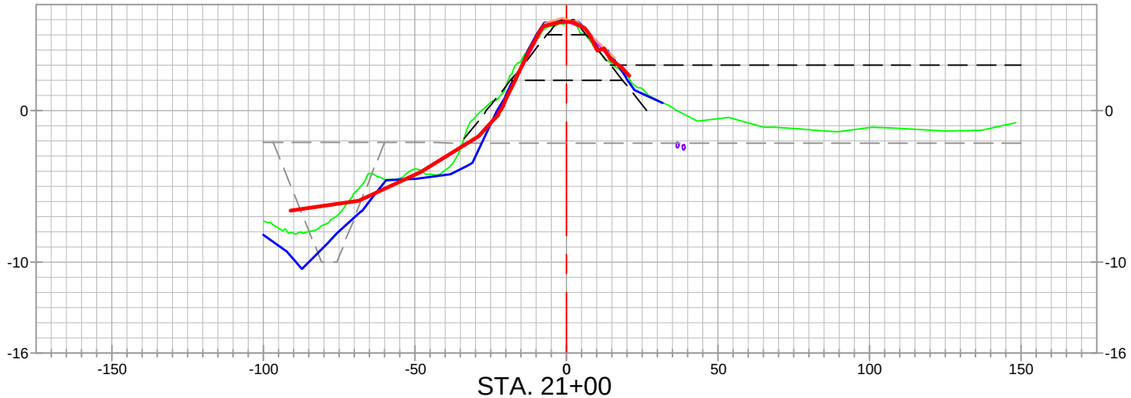
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 8 OF 32



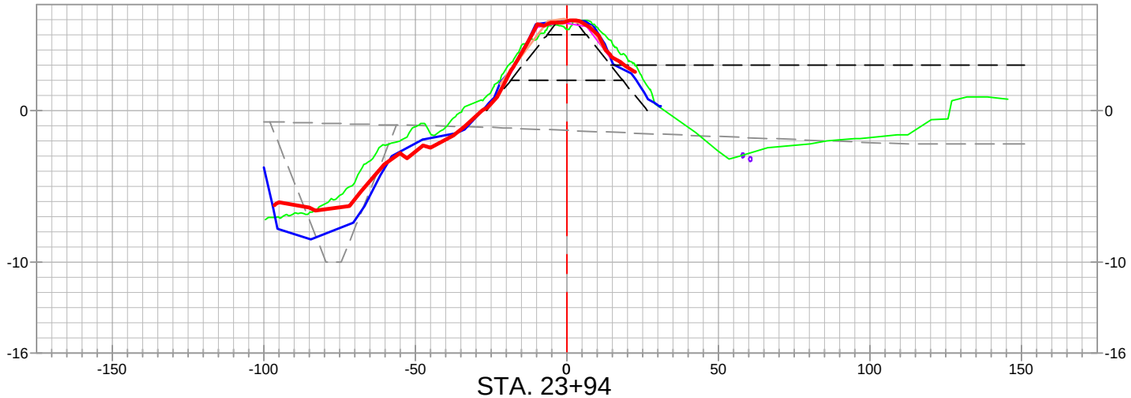
STA. 20+00



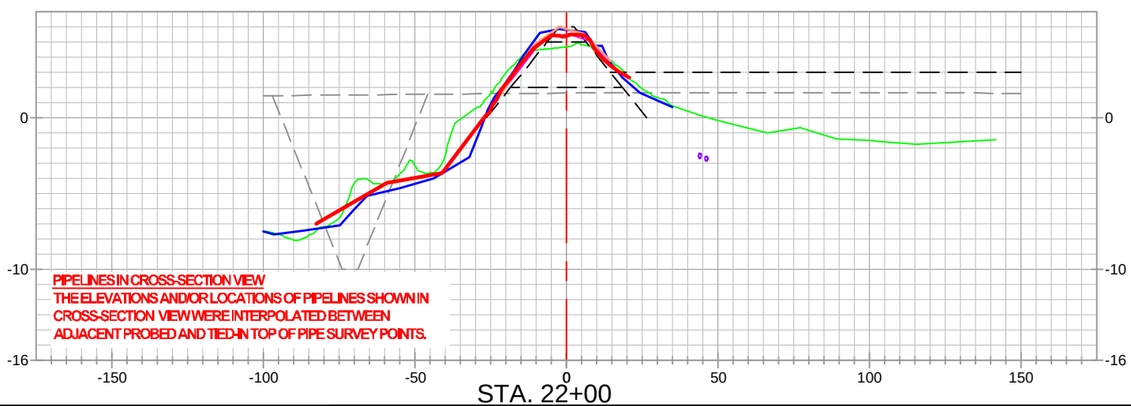
STA. 23+00



STA. 21+00

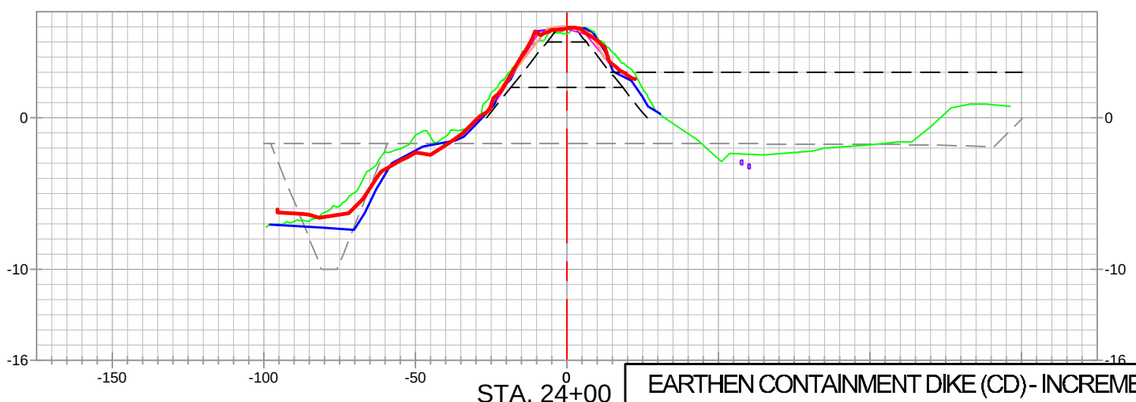


STA. 23+94



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 22+00



STA. 24+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

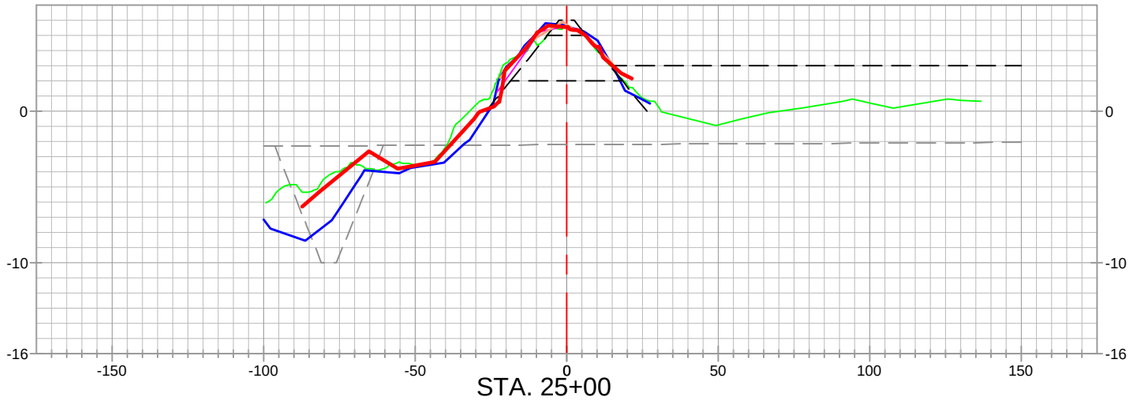
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

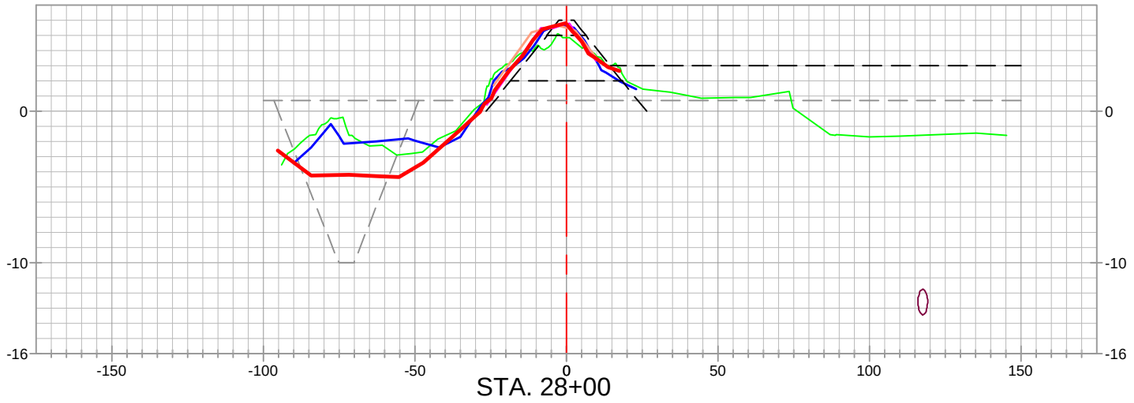
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

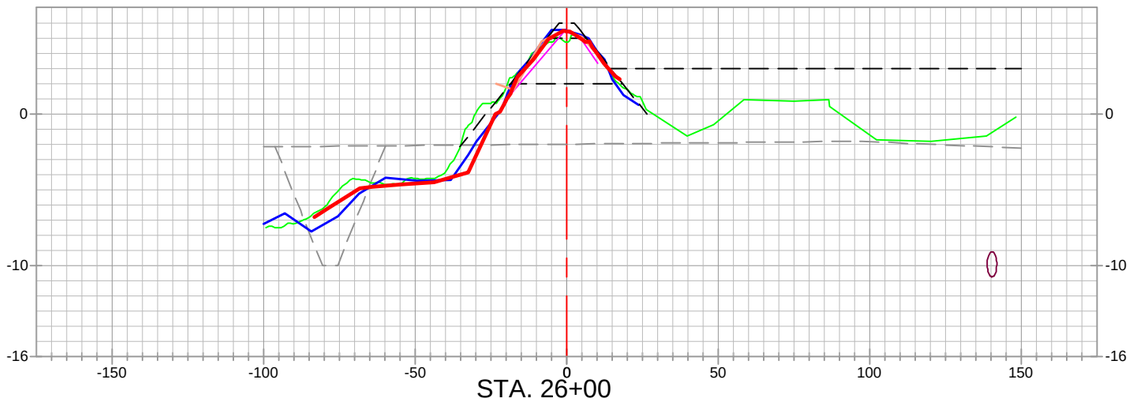
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 9 OF 32



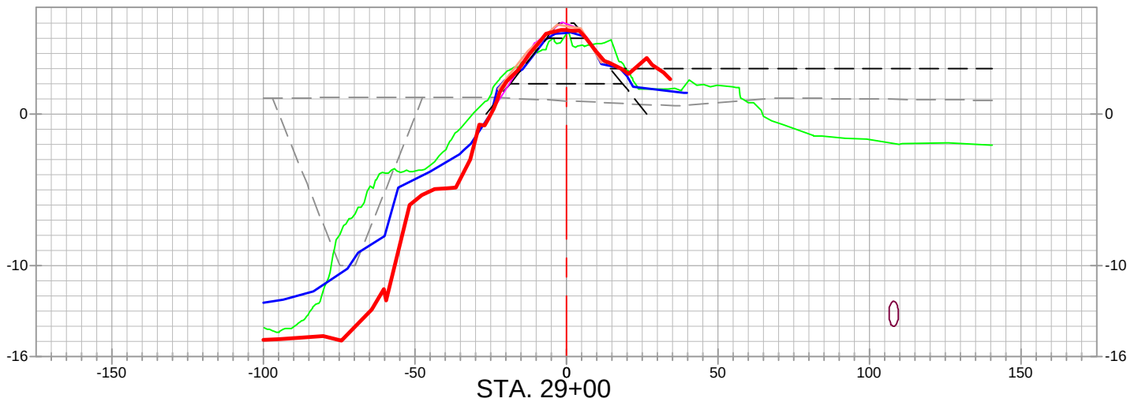
STA. 25+00



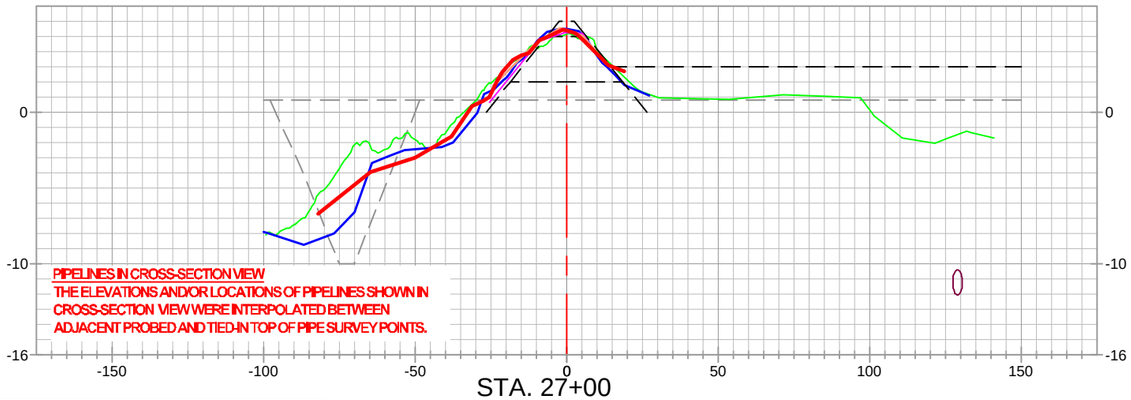
STA. 28+00



STA. 26+00

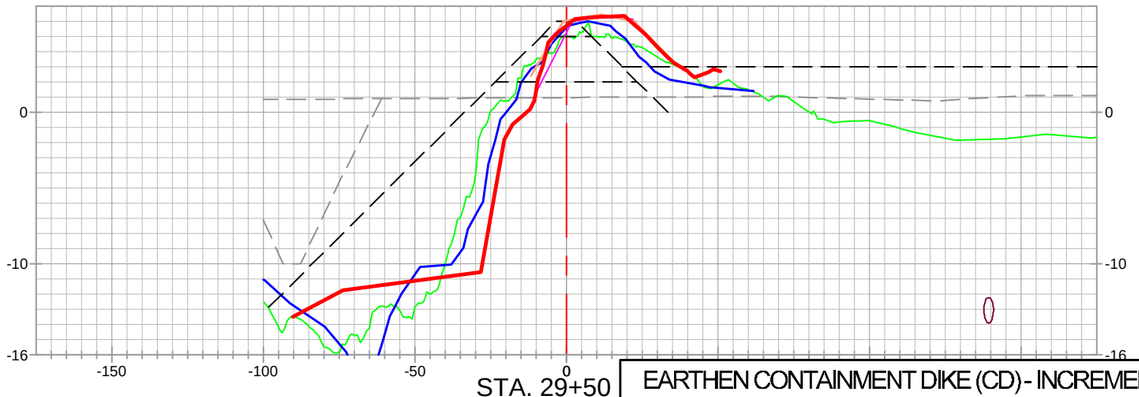


STA. 29+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 27+00



STA. 29+50

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

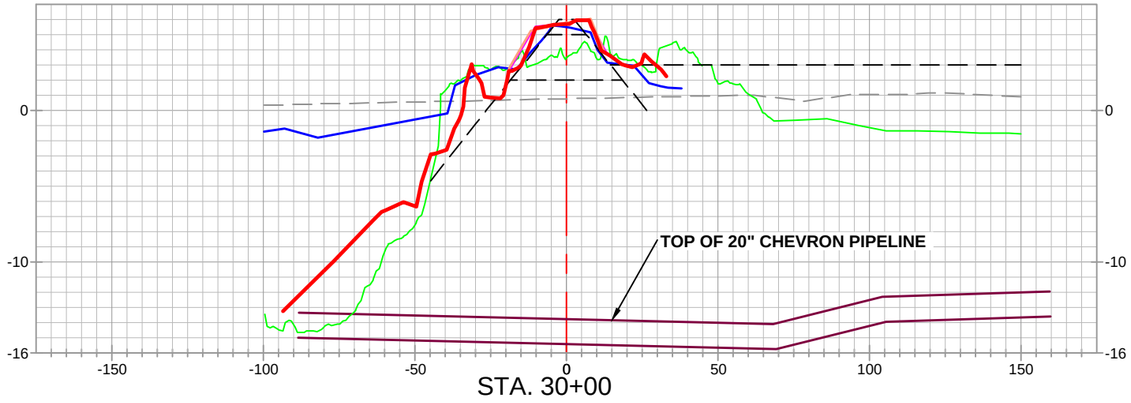
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

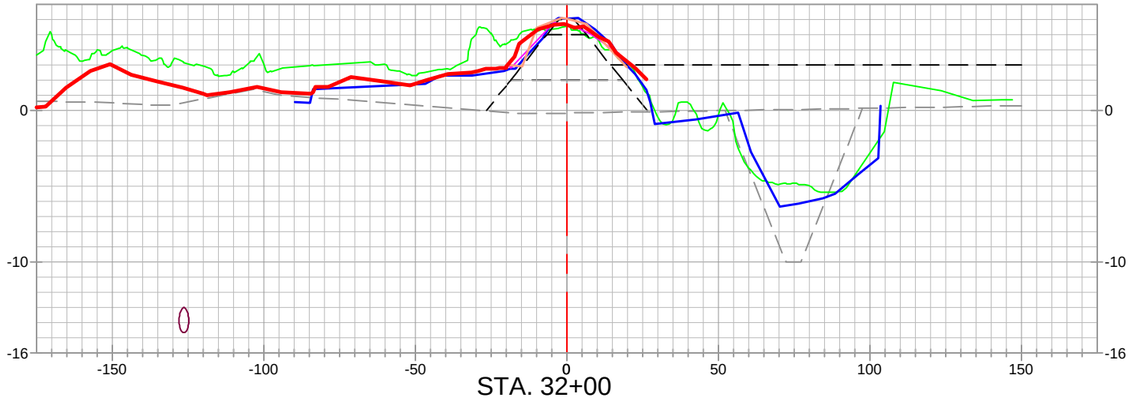
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

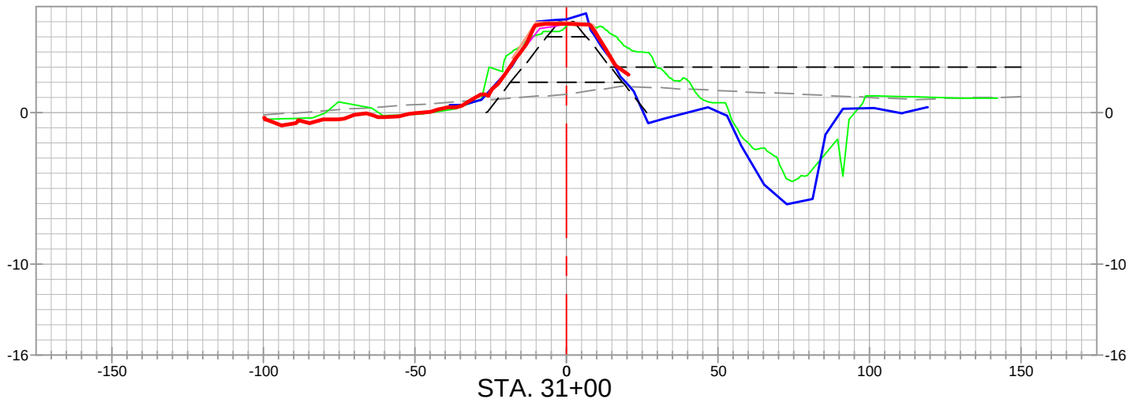
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 10 OF 32



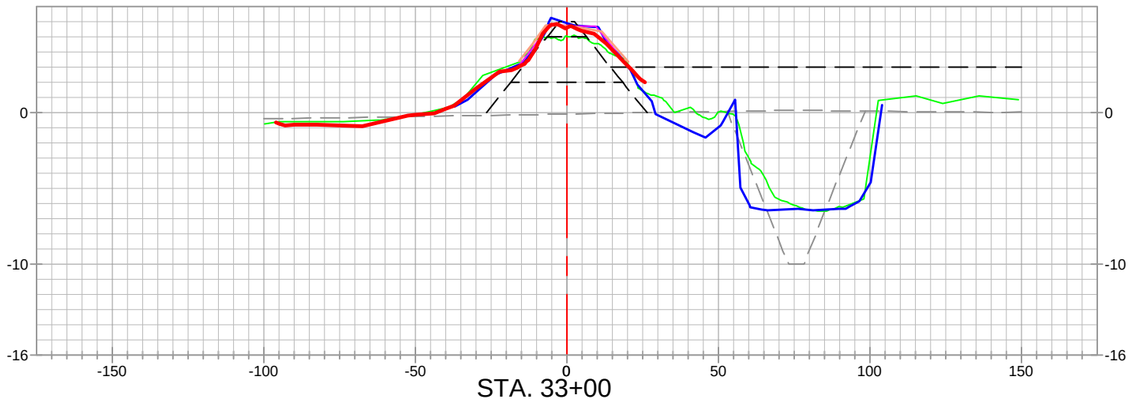
STA. 30+00



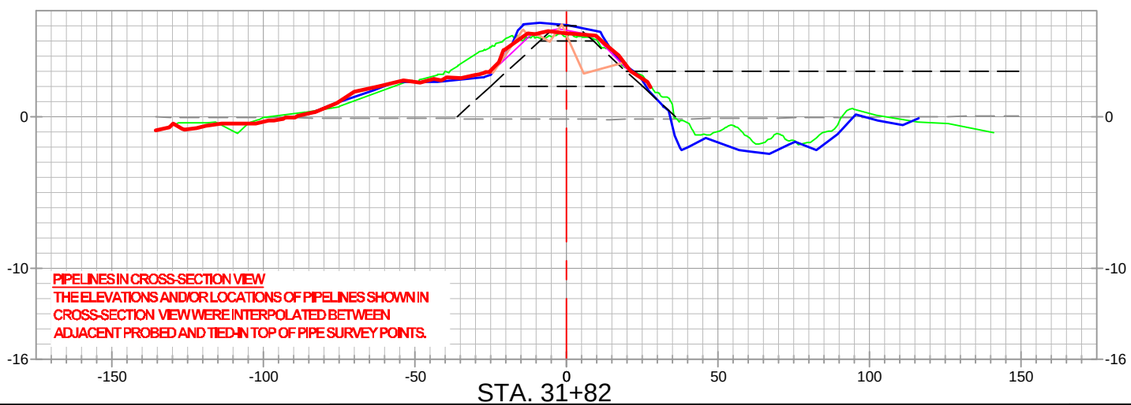
STA. 32+00



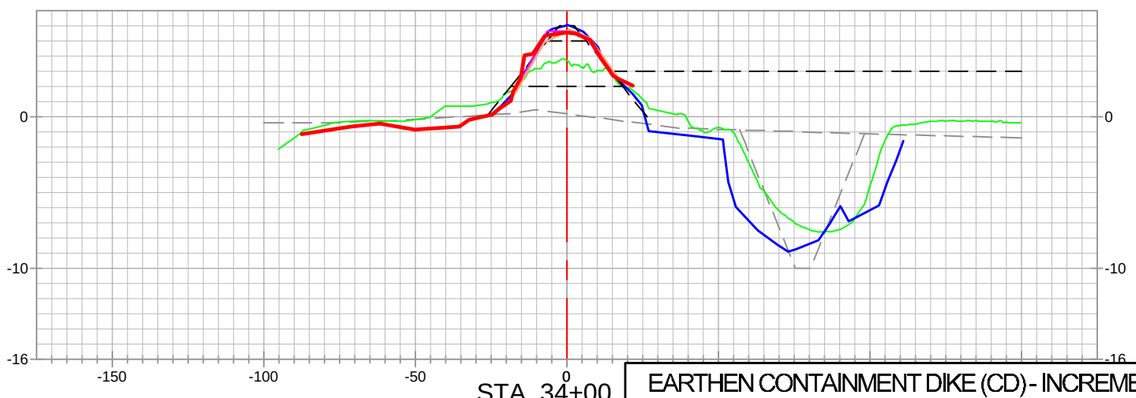
STA. 31+00



STA. 33+00



STA. 31+82



STA. 34+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

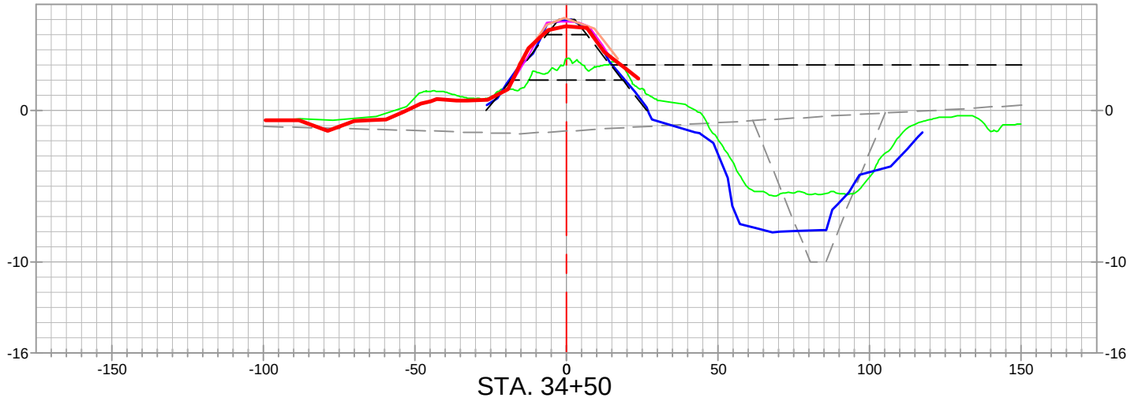
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

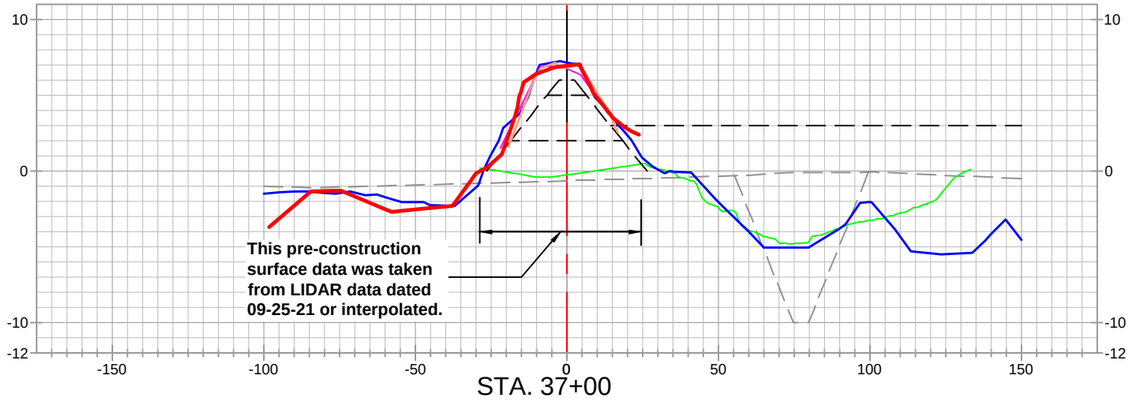
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

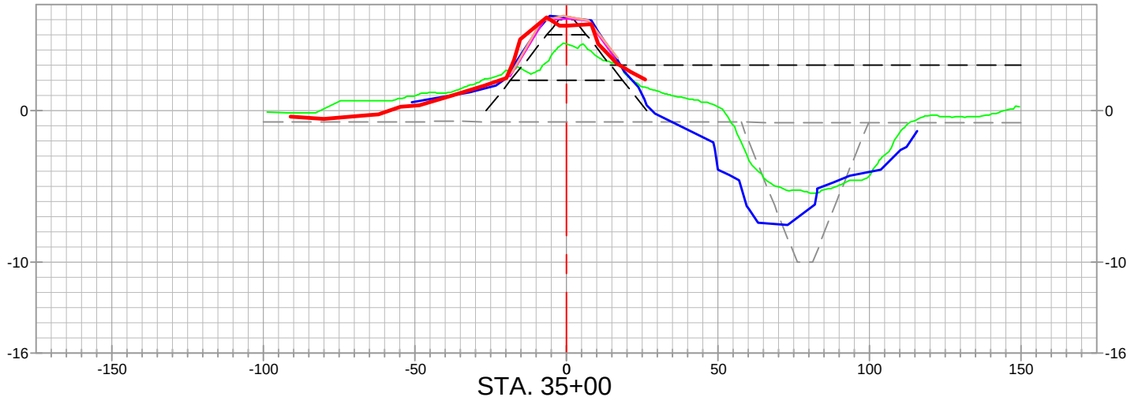
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 11 OF 32



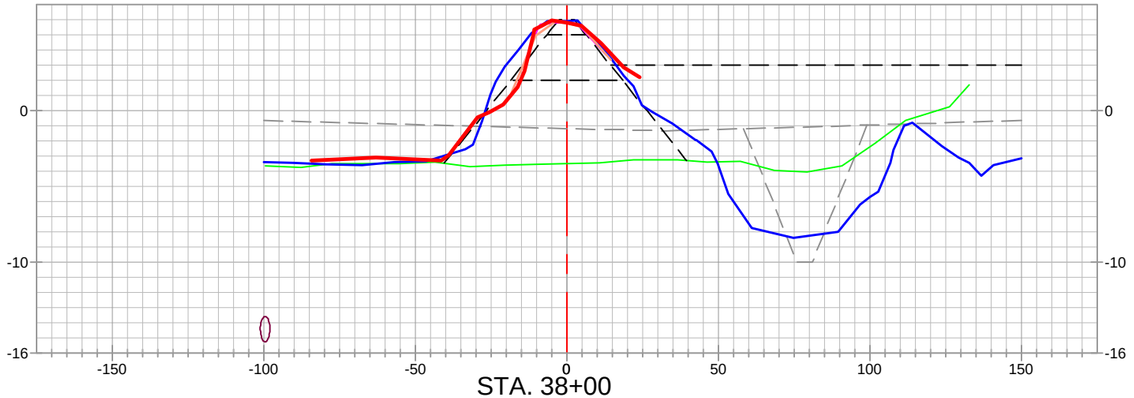
STA. 34+50



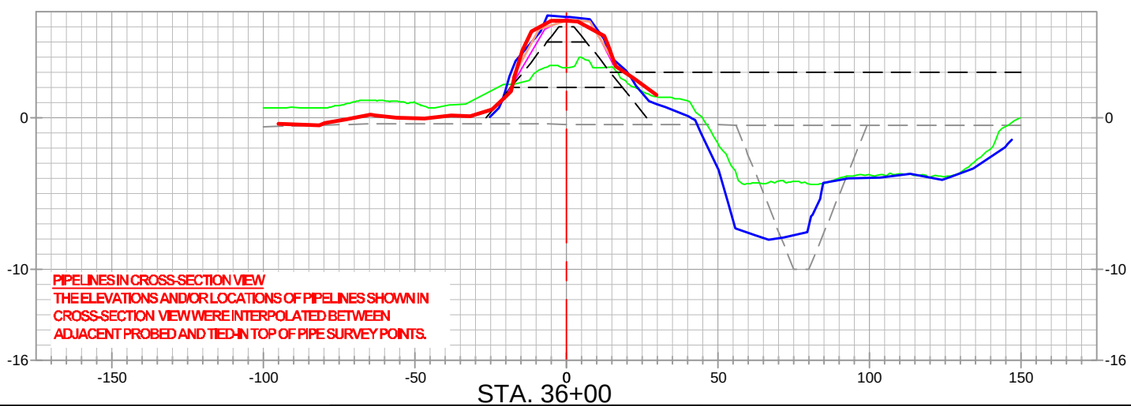
STA. 37+00



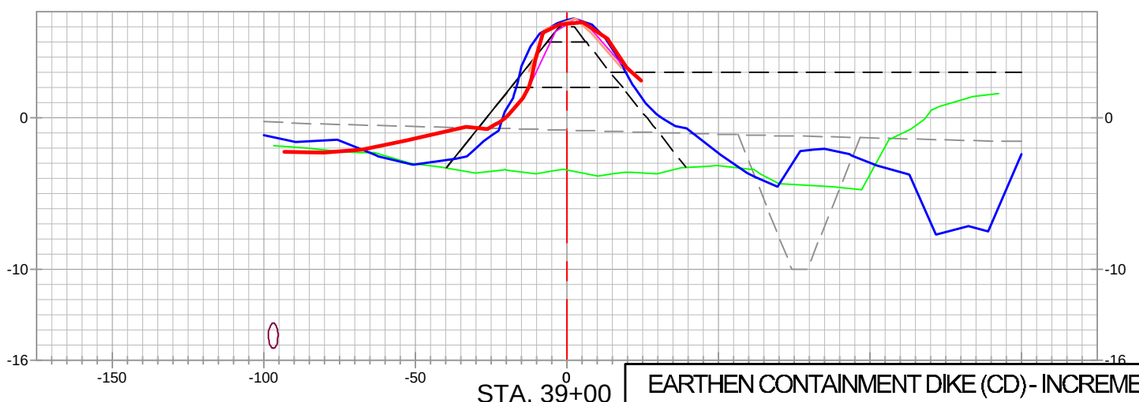
STA. 35+00



STA. 38+00



STA. 36+00



STA. 39+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

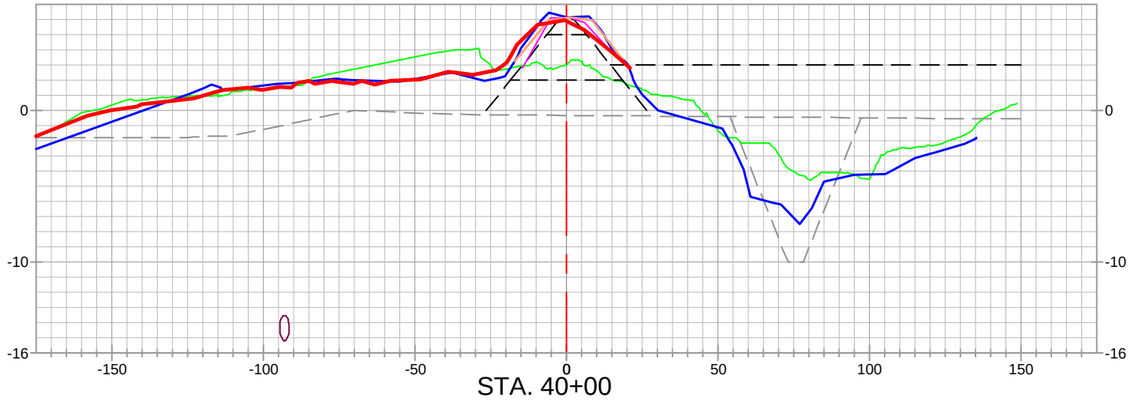
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

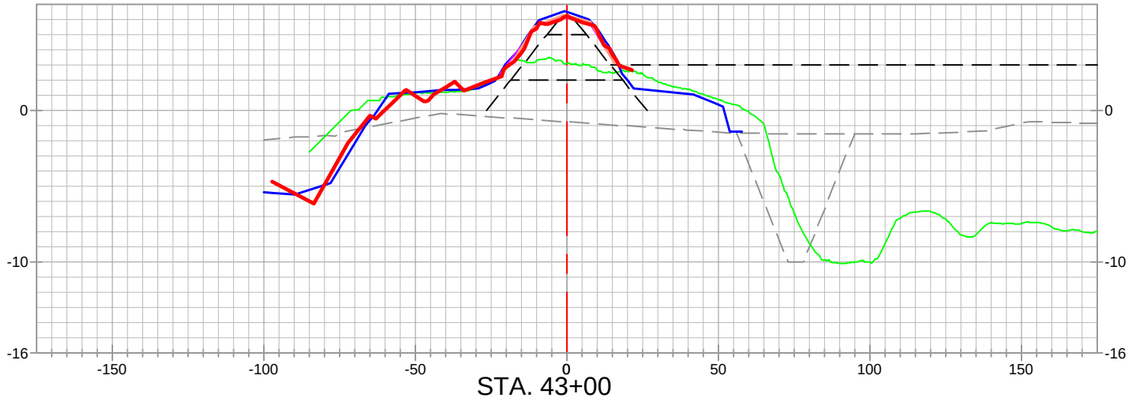
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

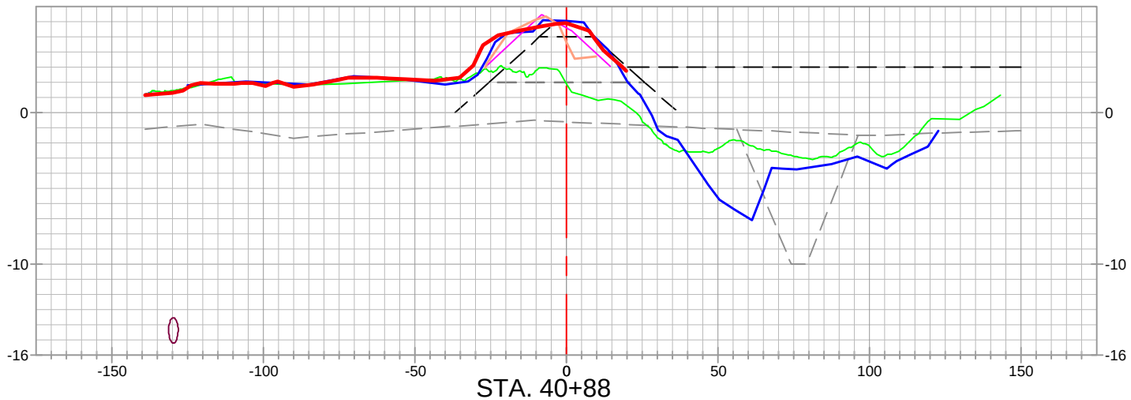
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 12 OF 32



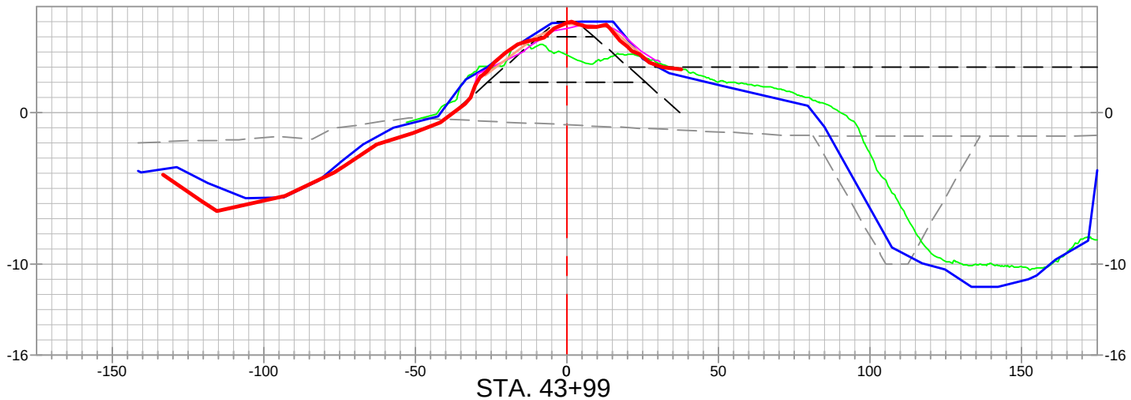
STA. 40+00



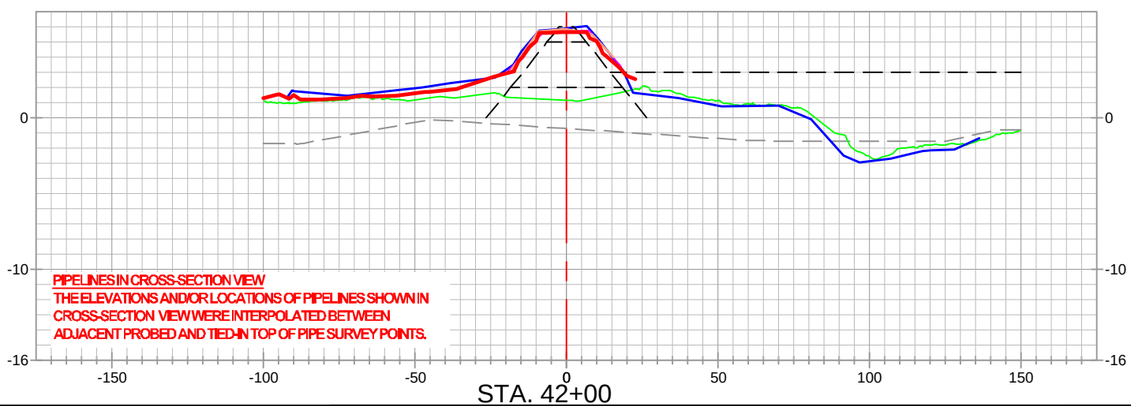
STA. 43+00



STA. 40+88

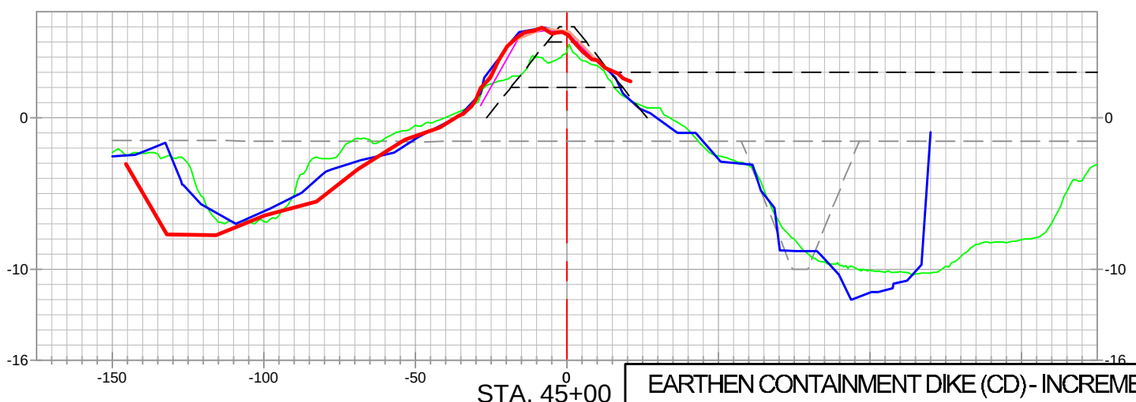


STA. 43+99



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 42+00



STA. 45+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

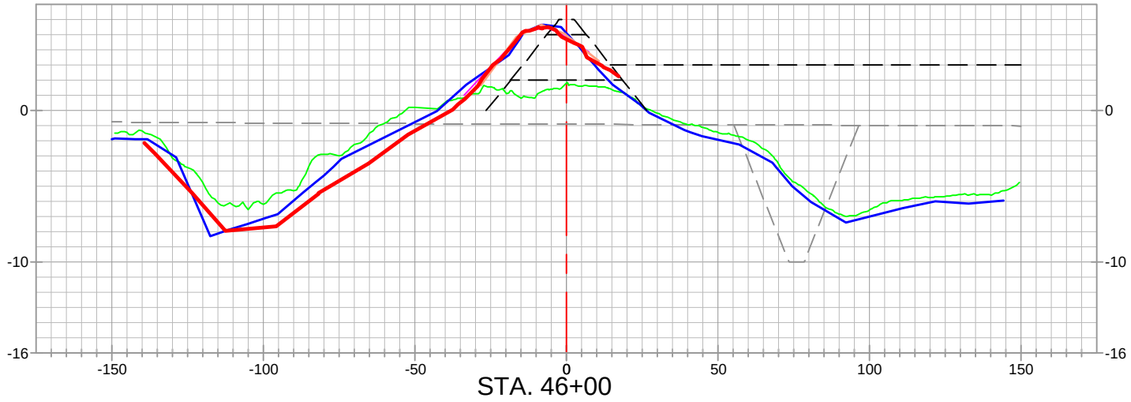
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

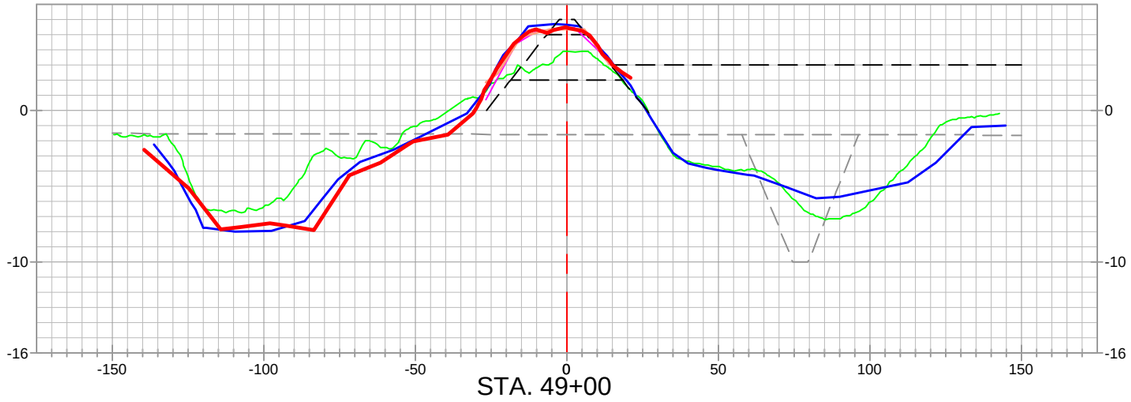
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

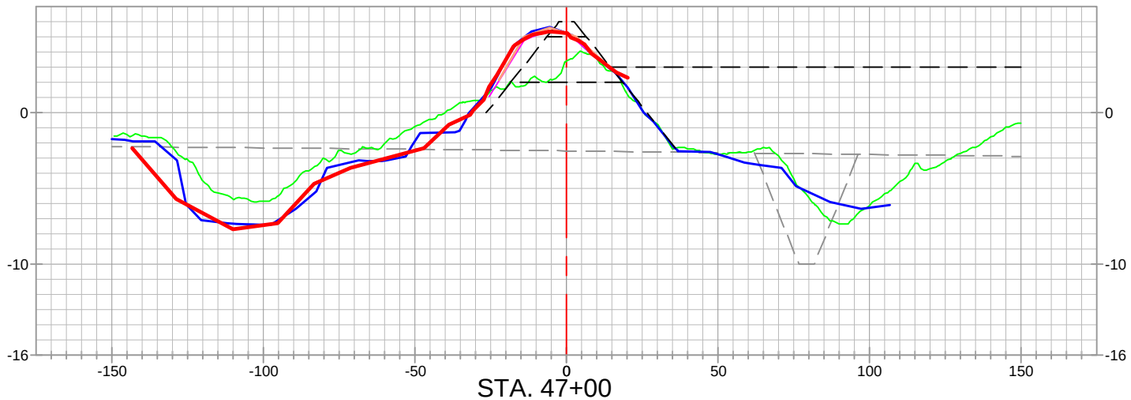
FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 13 OF 32



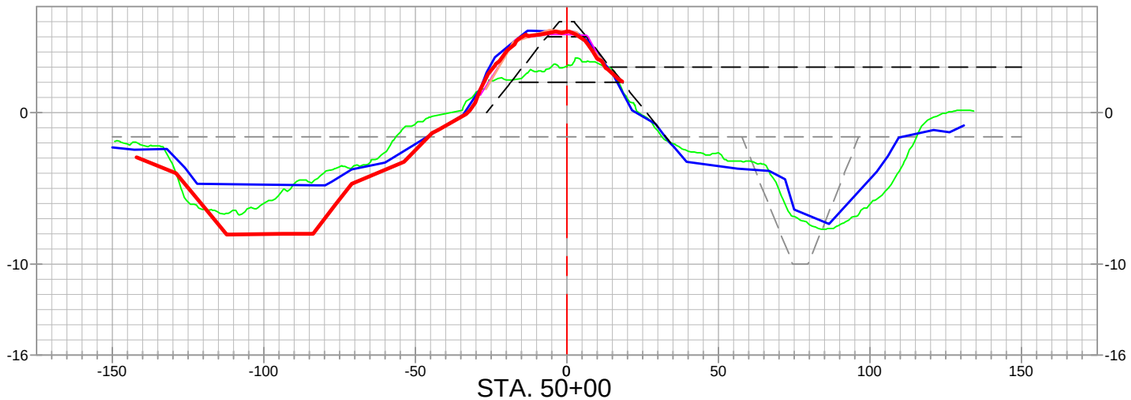
STA. 46+00



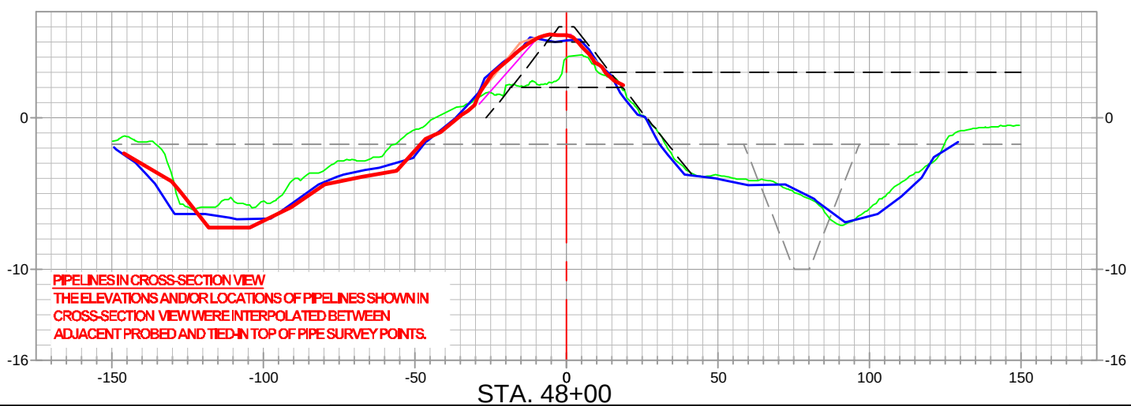
STA. 49+00



STA. 47+00

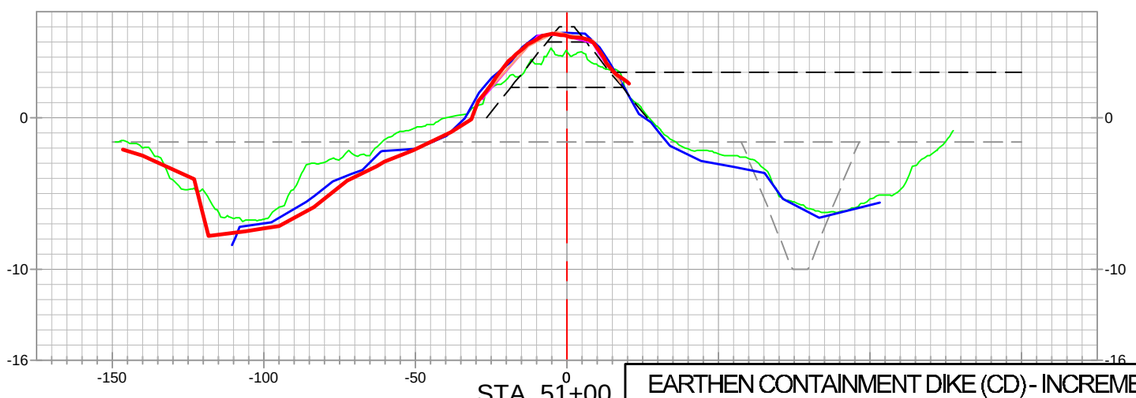


STA. 50+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 48+00



STA. 51+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

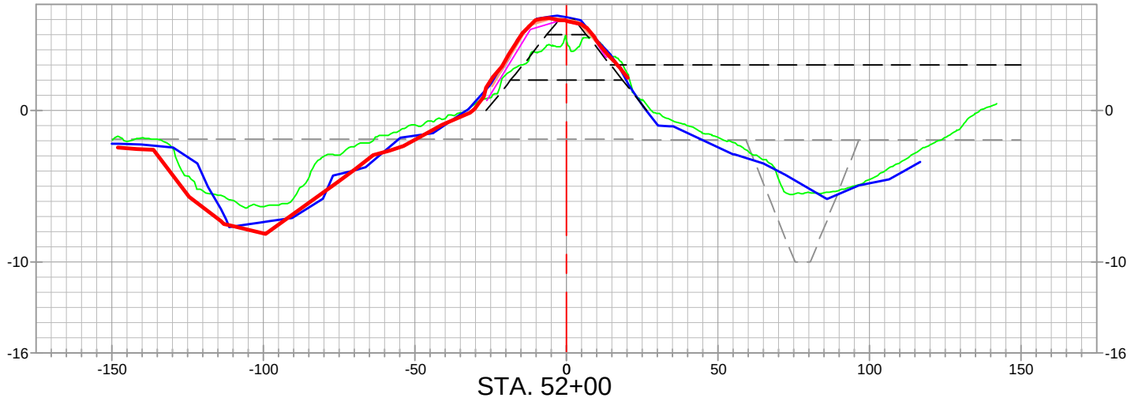
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

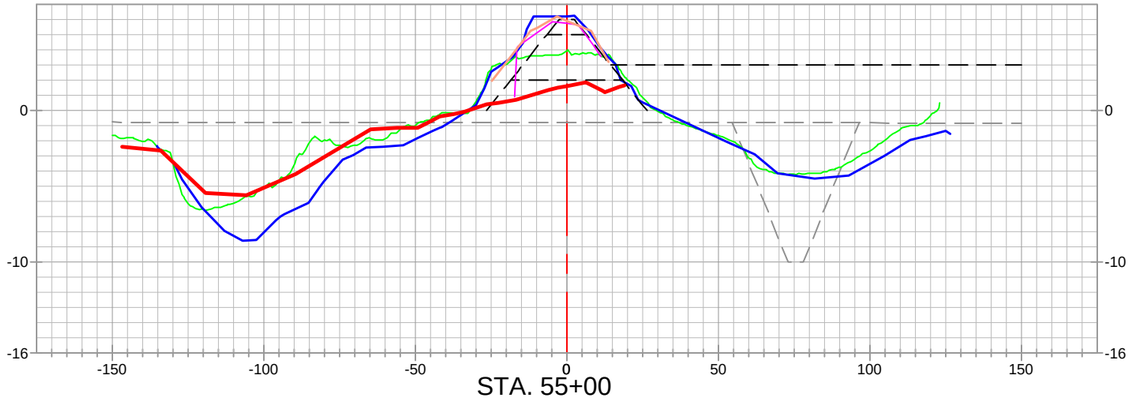
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

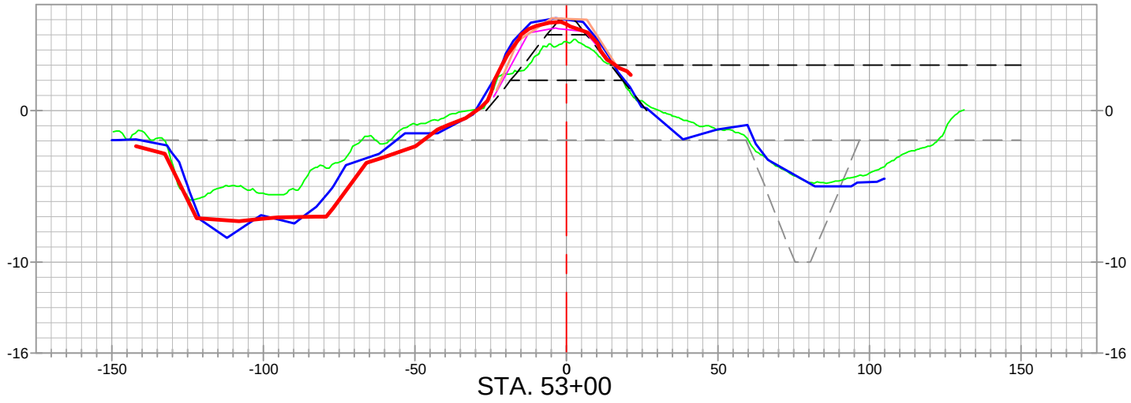
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 14 OF 32



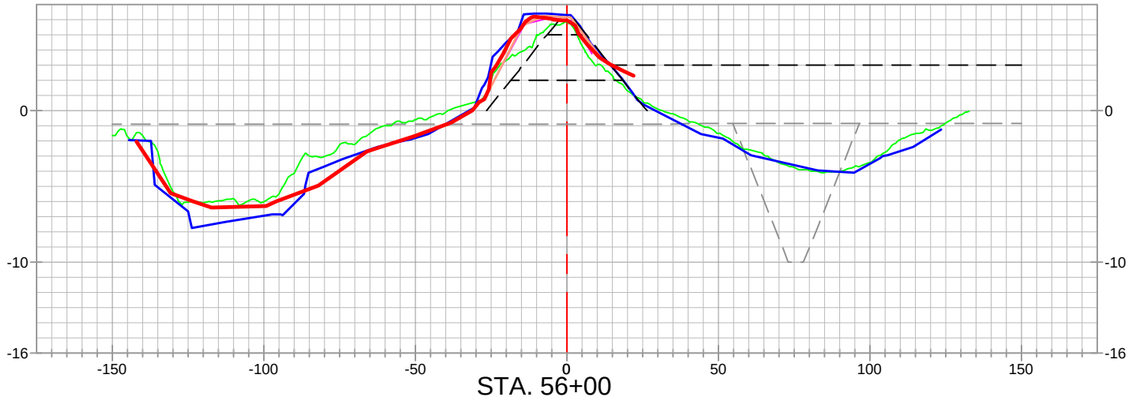
STA. 52+00



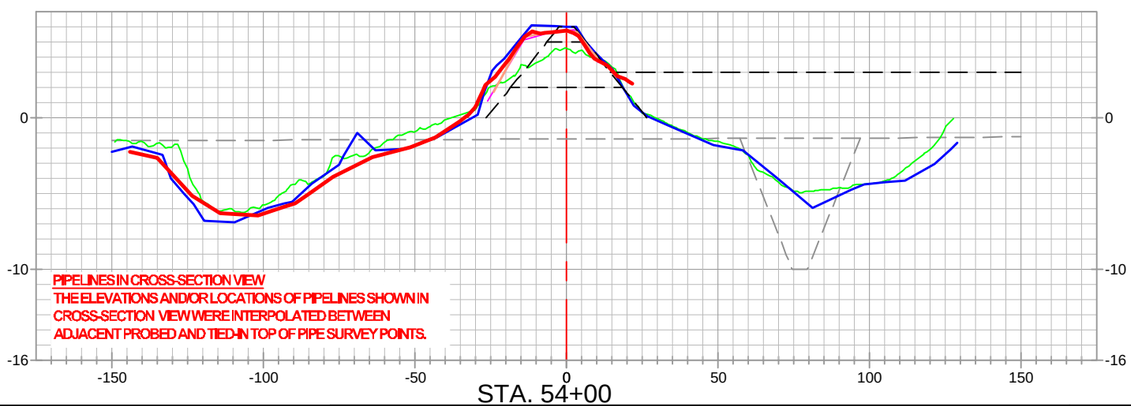
STA. 55+00



STA. 53+00

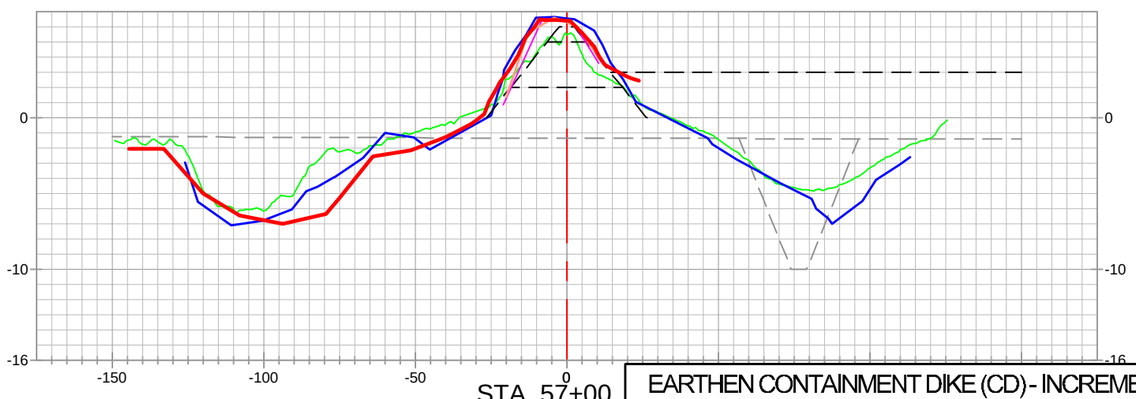


STA. 56+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 54+00



STA. 57+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

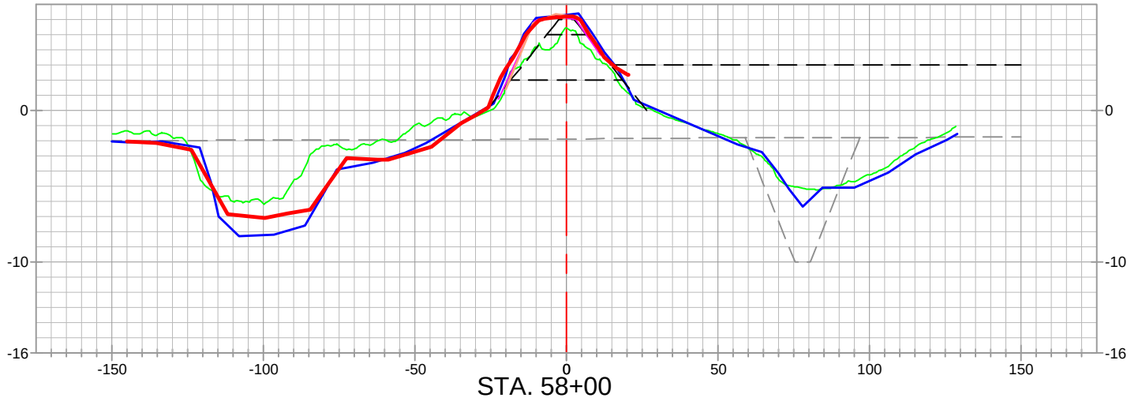
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

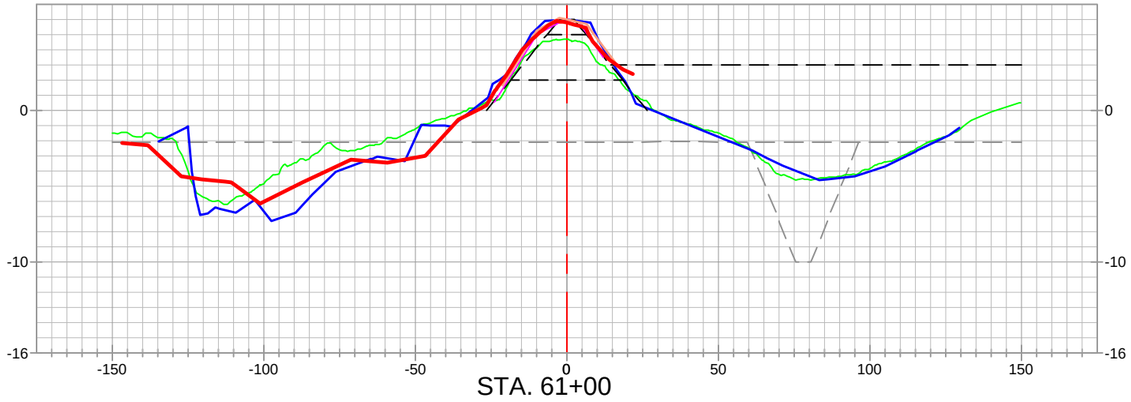
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

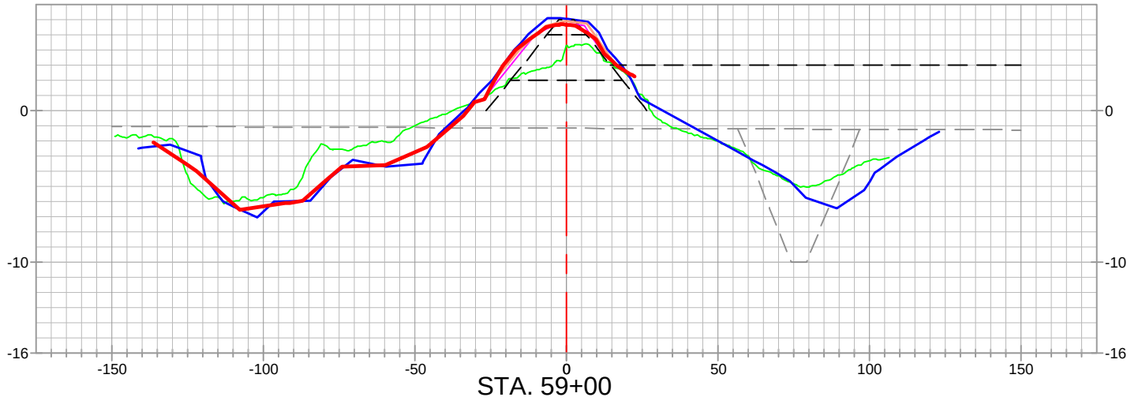
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 15 OF 32



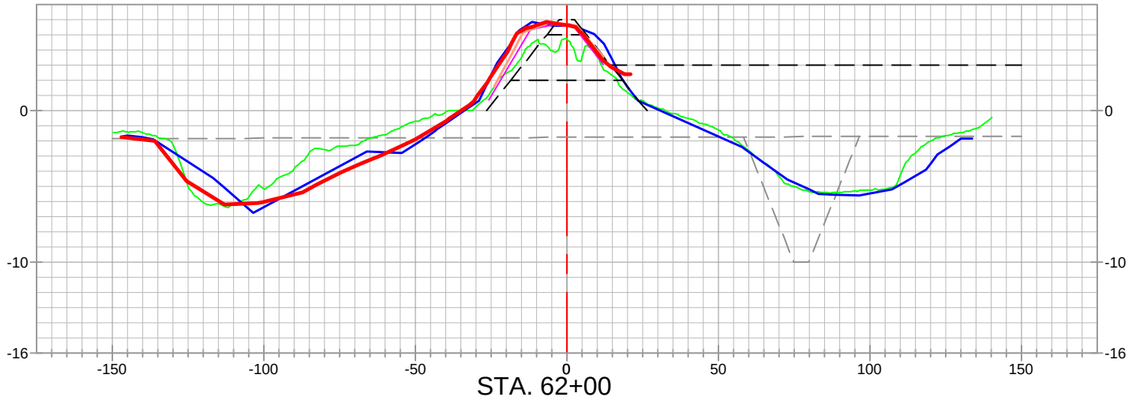
STA. 58+00



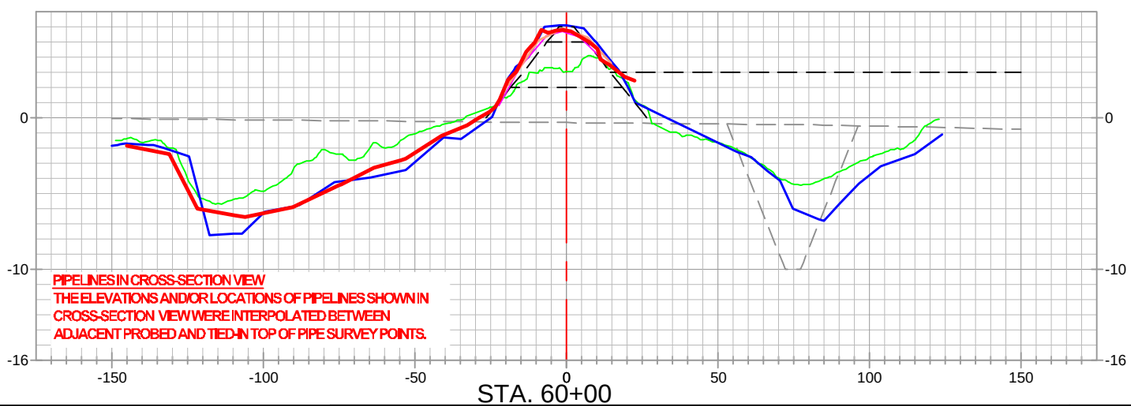
STA. 61+00



STA. 59+00

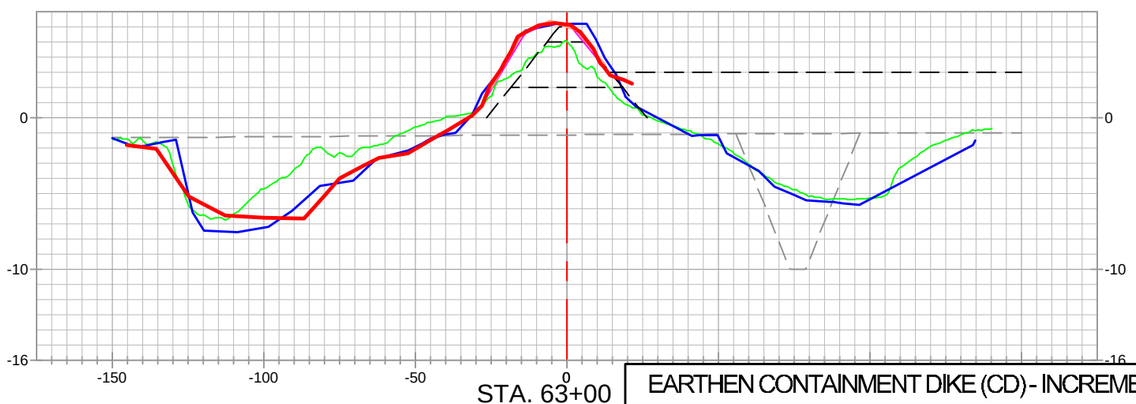


STA. 62+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 60+00



STA. 63+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

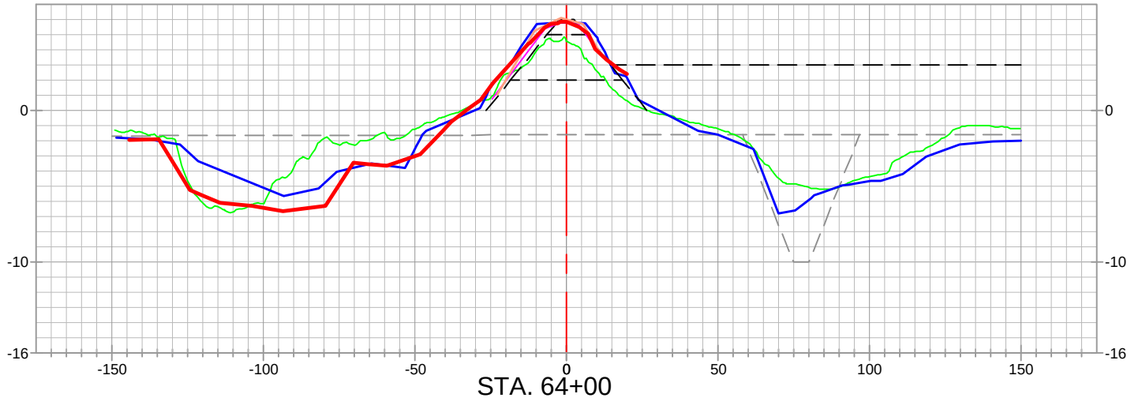
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

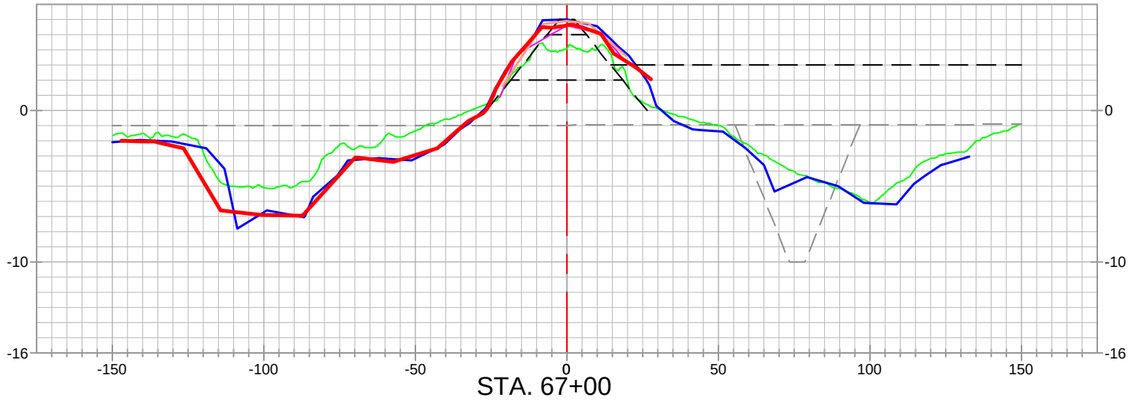
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

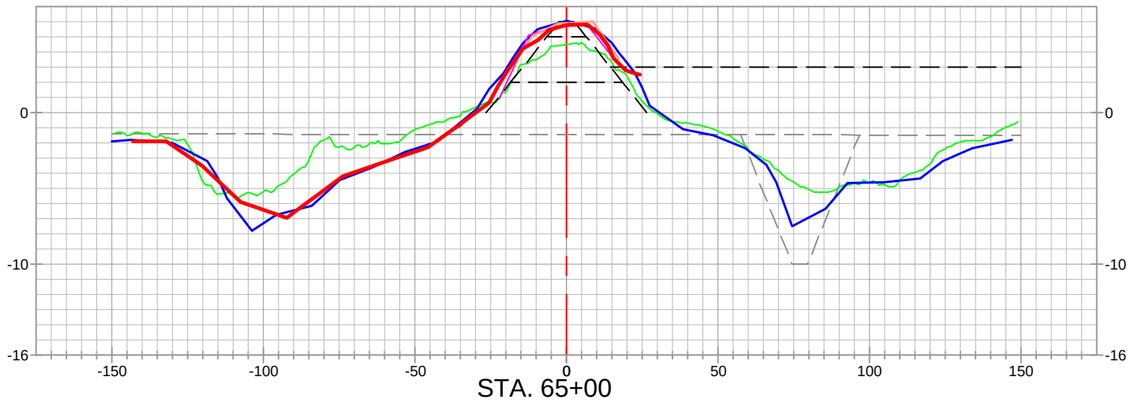
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 16 OF 32



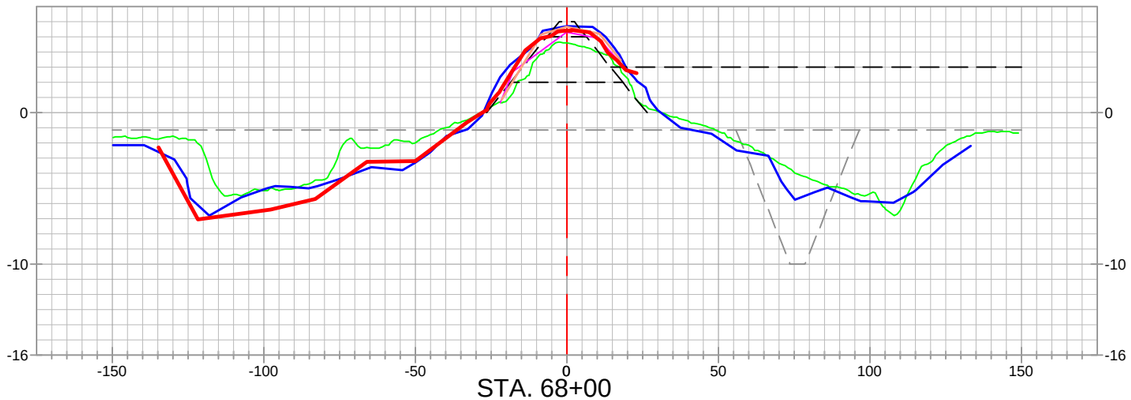
STA. 64+00



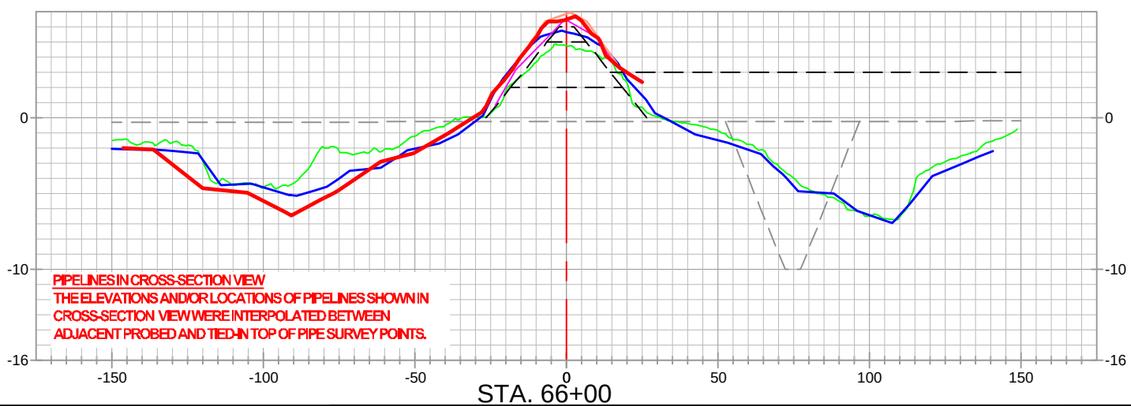
STA. 67+00



STA. 65+00

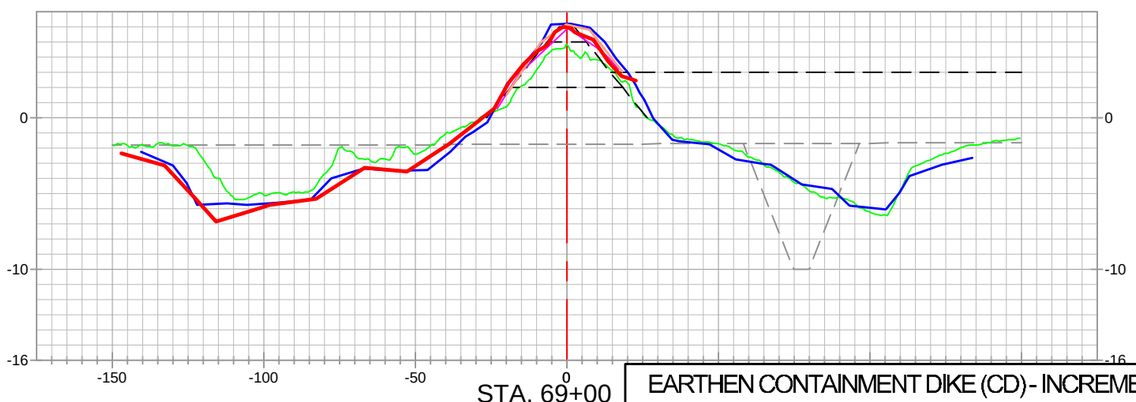


STA. 68+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 66+00



STA. 69+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

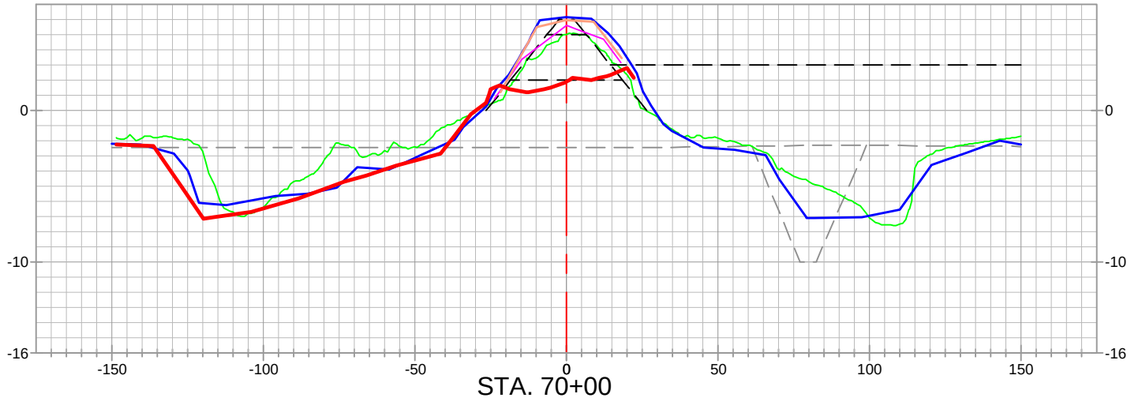
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

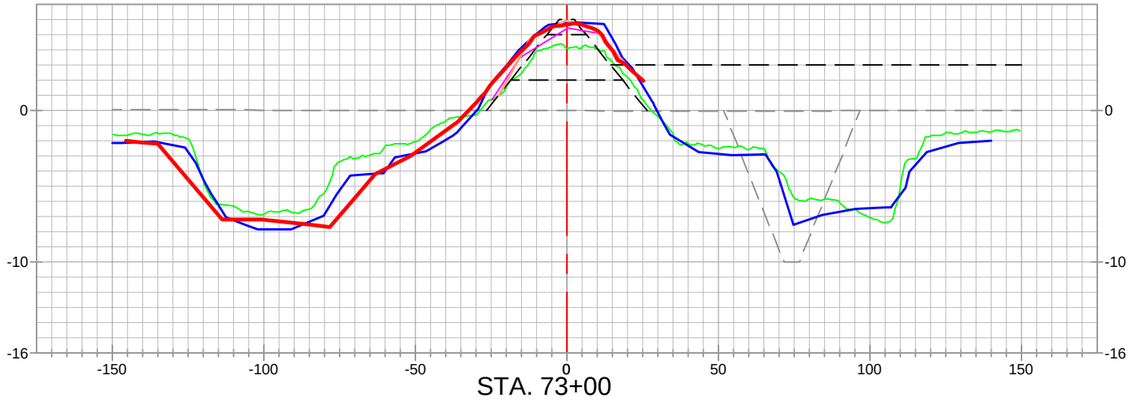
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

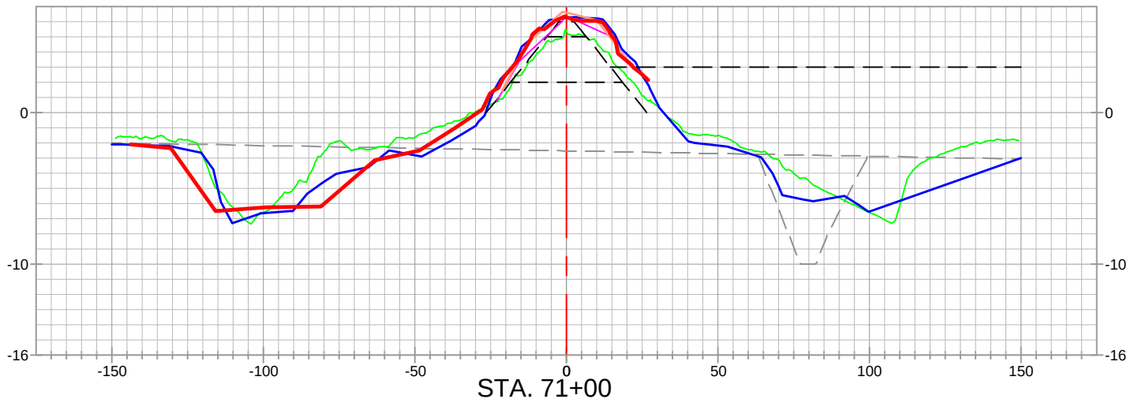
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 17 OF 32



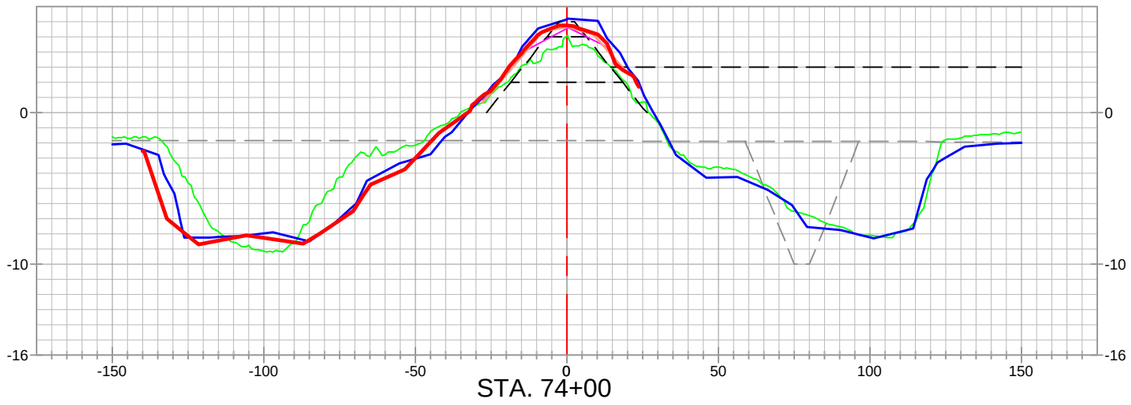
STA. 70+00



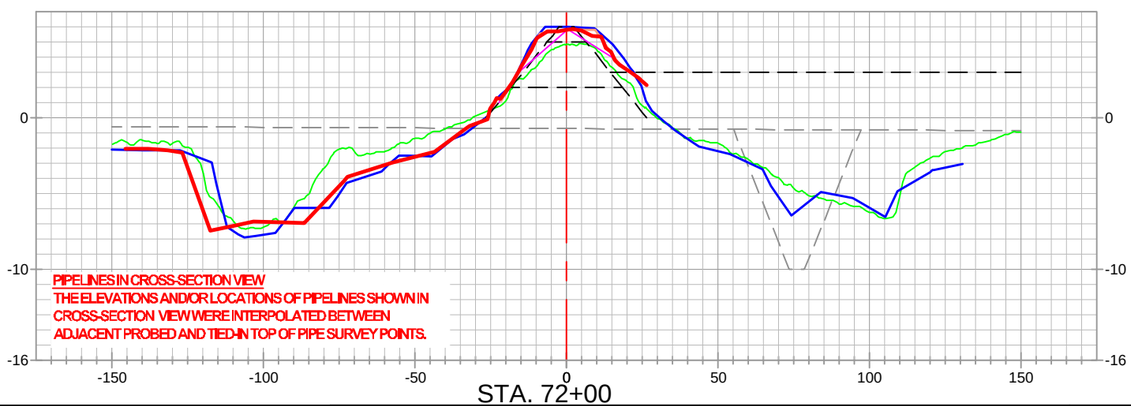
STA. 73+00



STA. 71+00

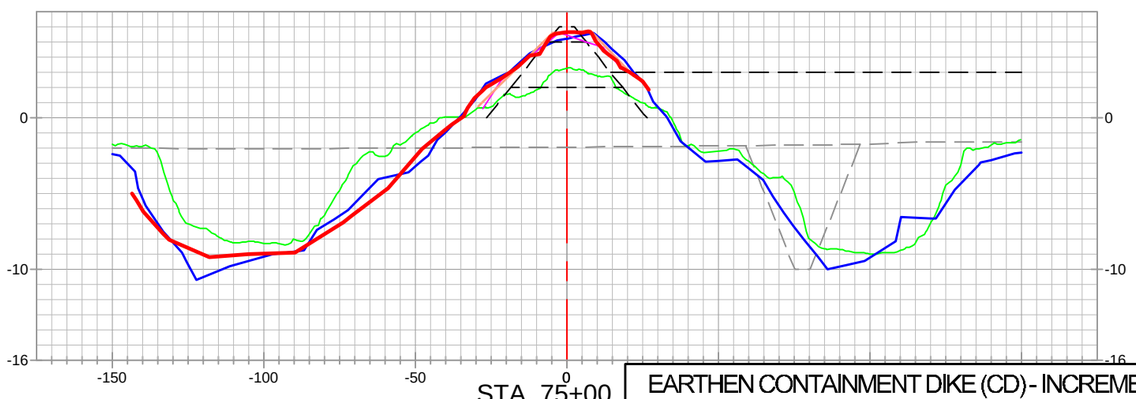


STA. 74+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 72+00



STA. 75+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

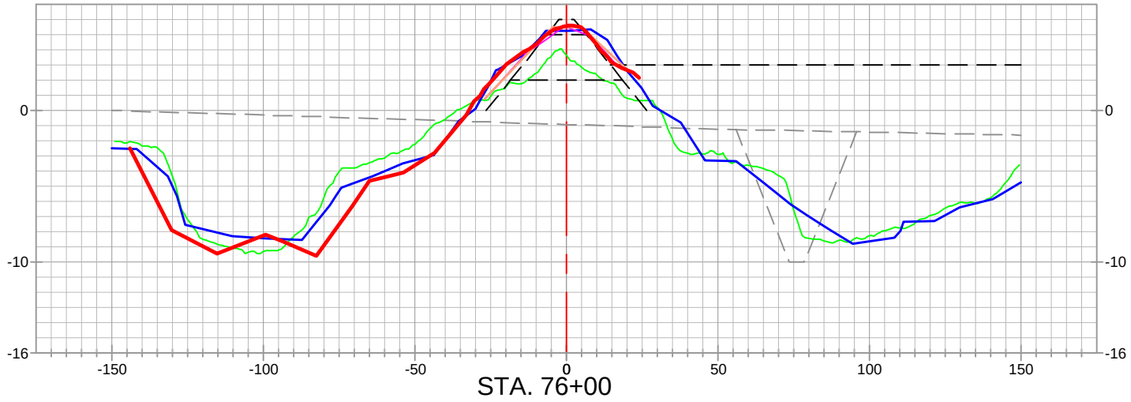
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

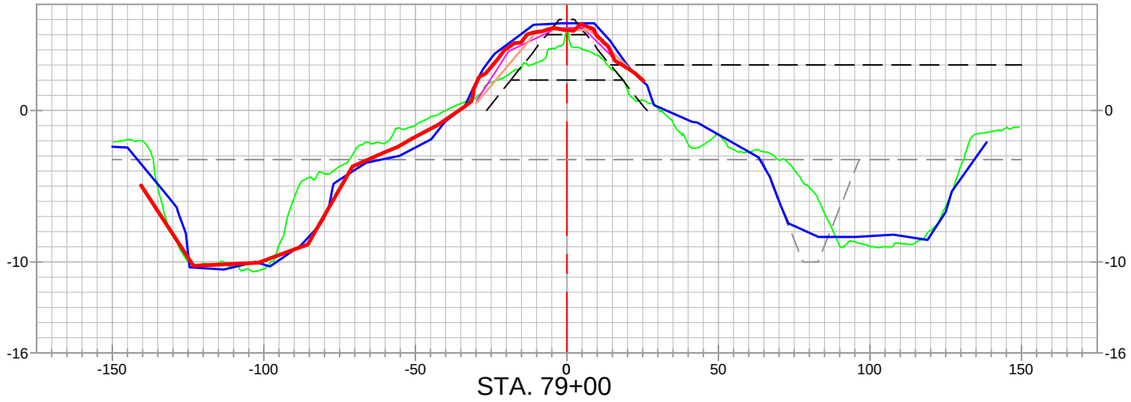
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

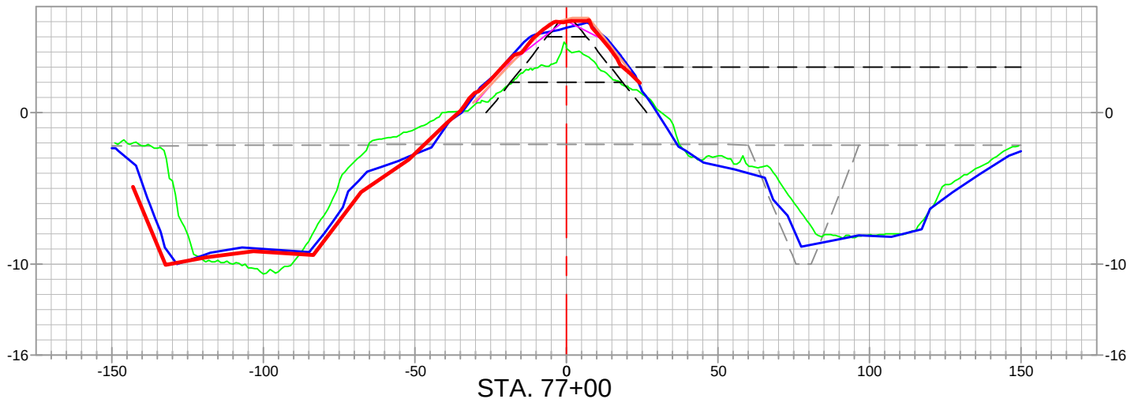
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 18 OF 32



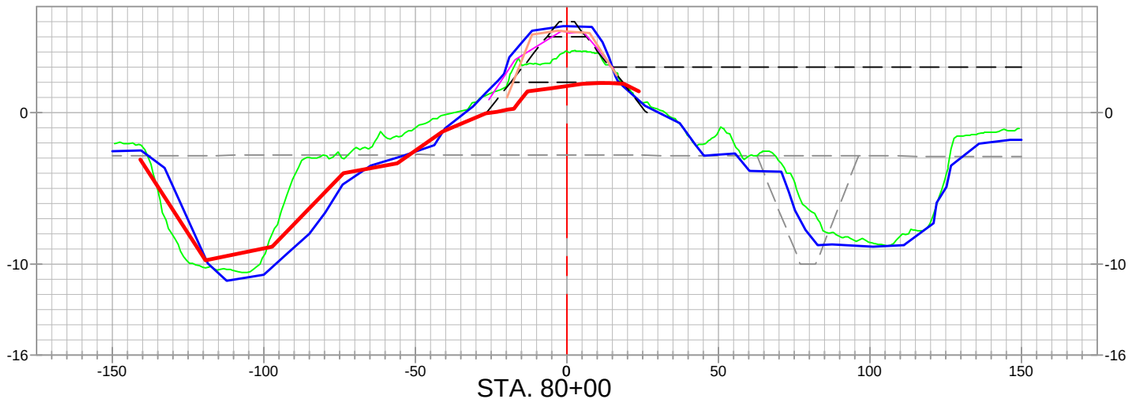
STA. 76+00



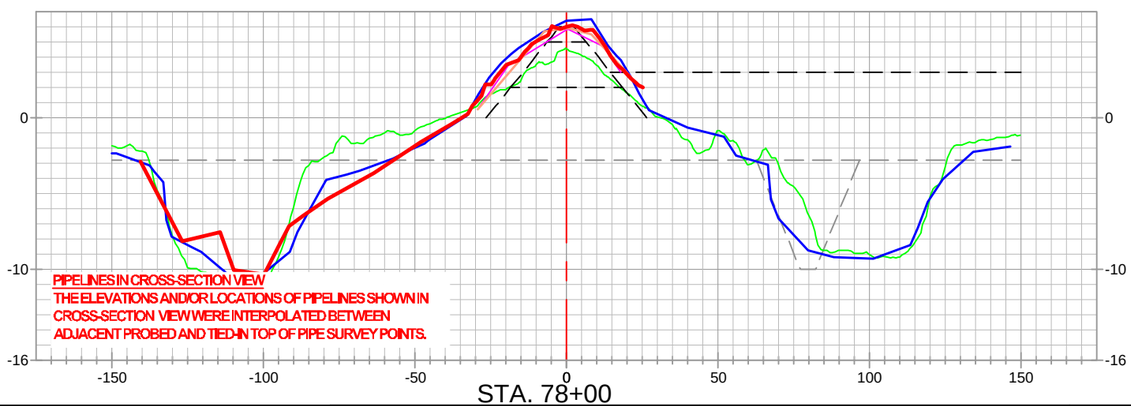
STA. 79+00



STA. 77+00

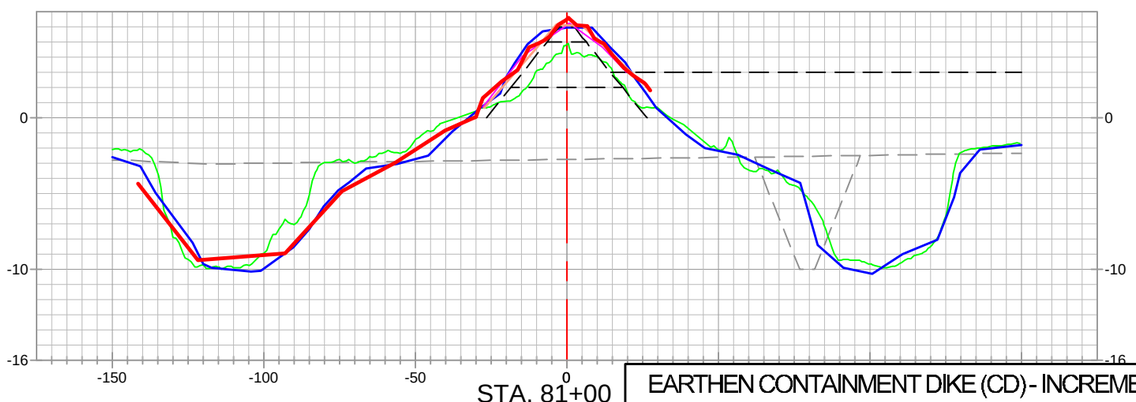


STA. 80+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 78+00



STA. 81+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

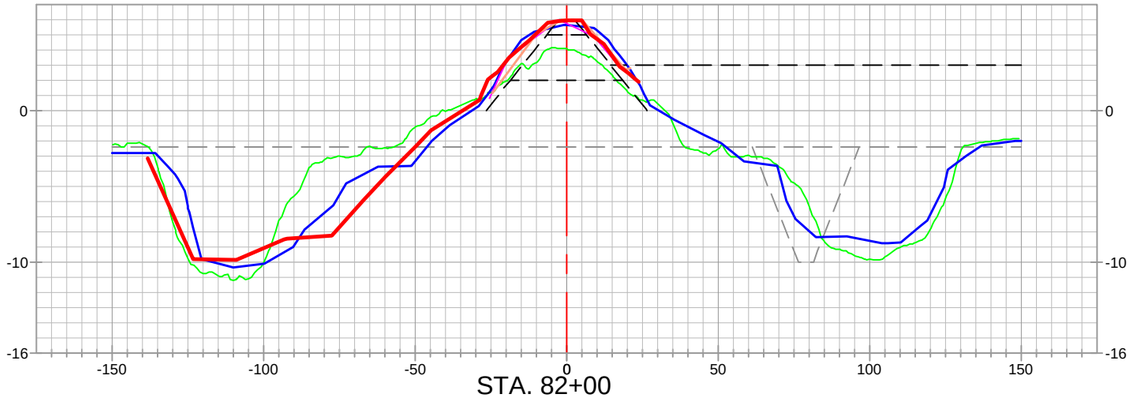
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

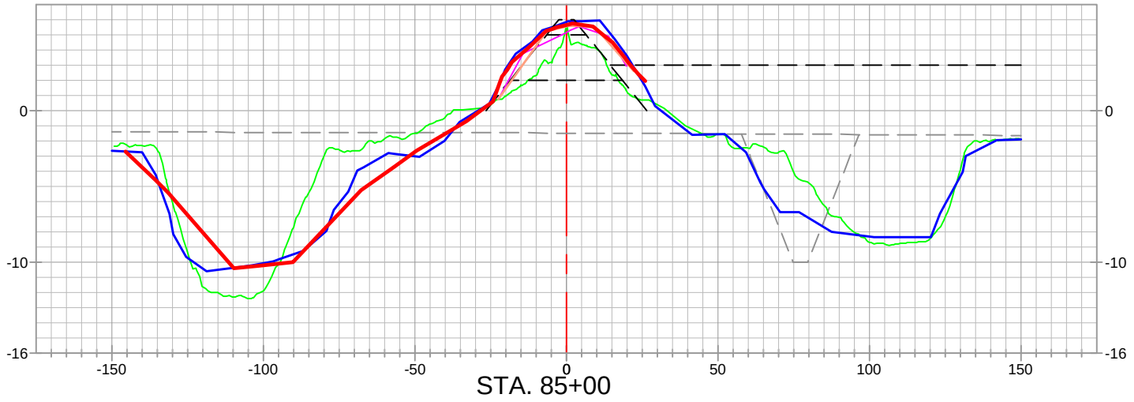
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

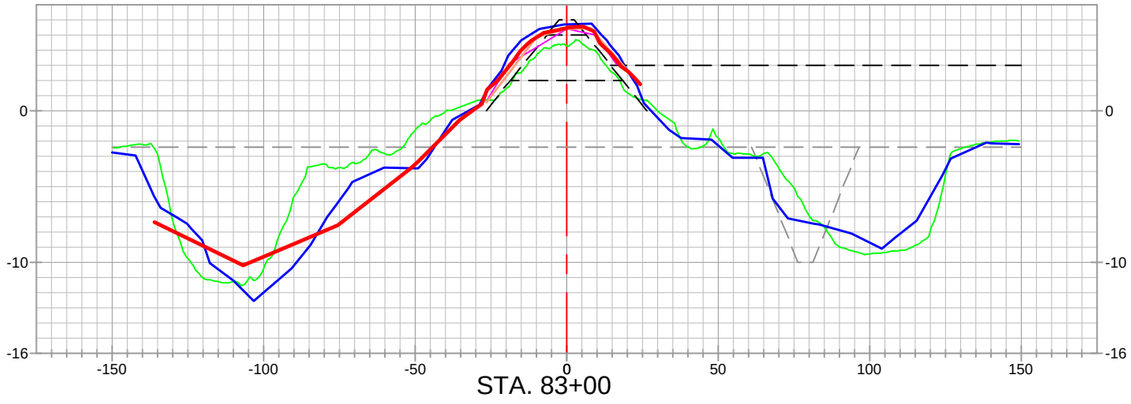
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 19 OF 32



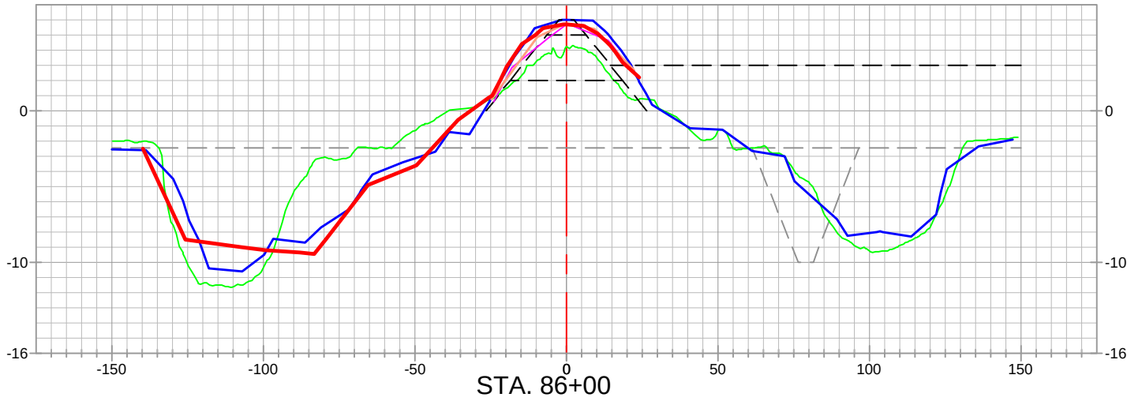
STA. 82+00



STA. 85+00



STA. 83+00



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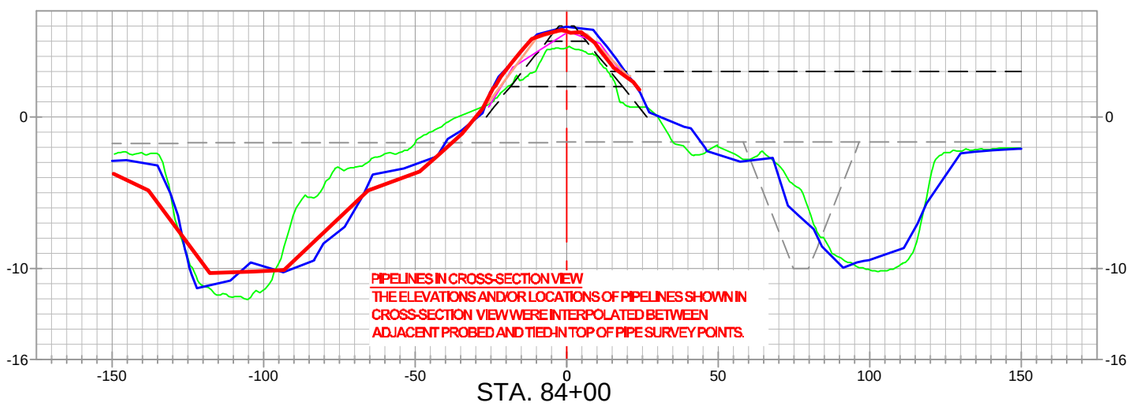
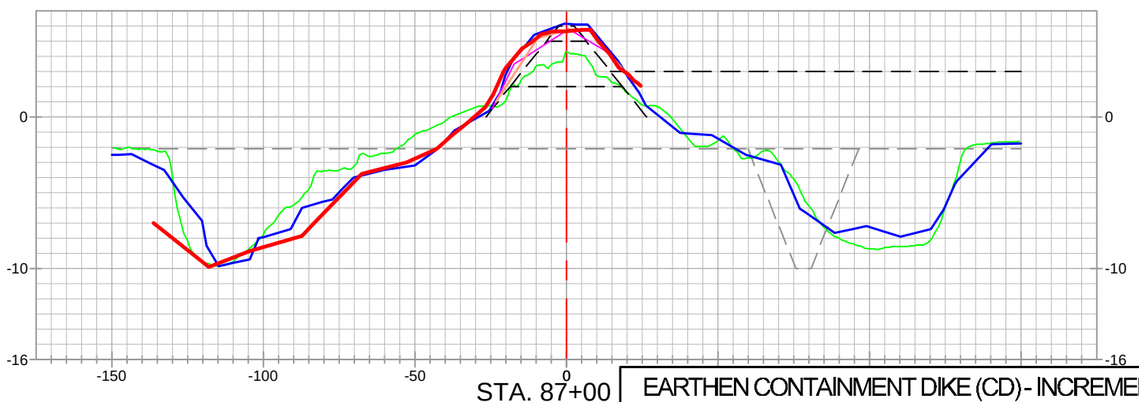


STA. 84+00



STA. 87+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

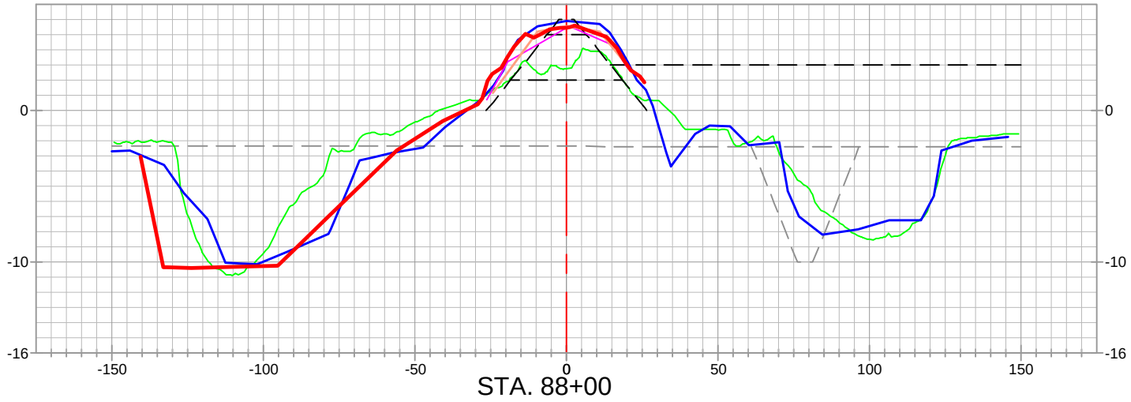
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

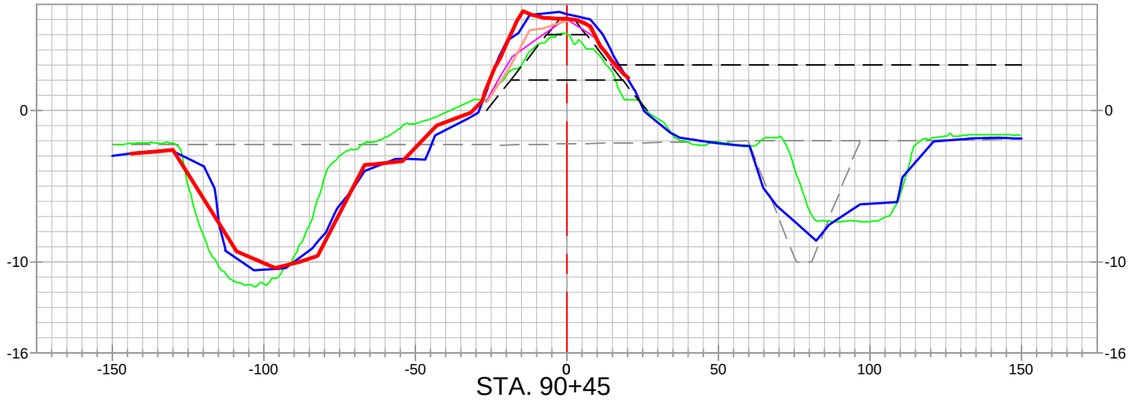
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

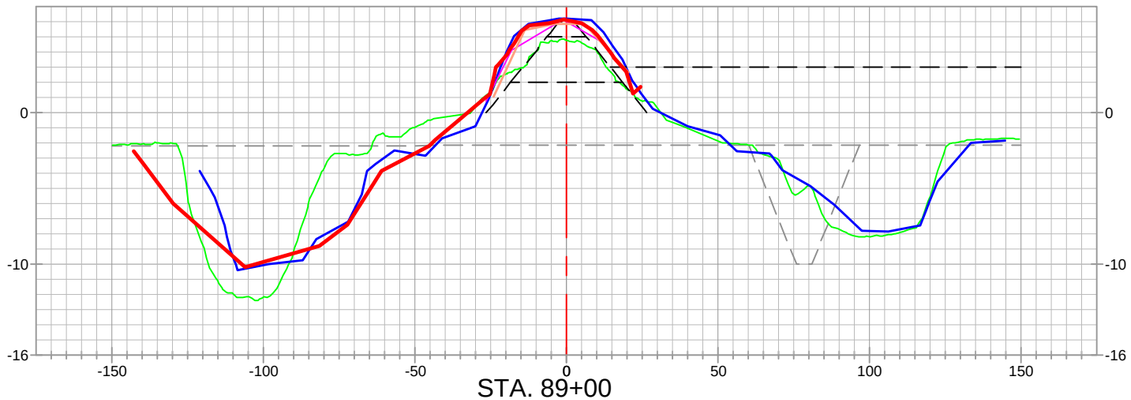
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 20 OF 32



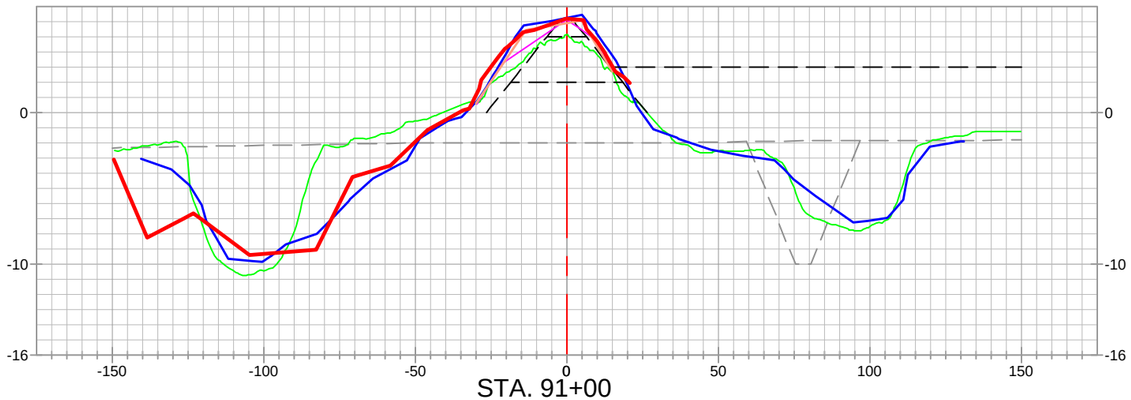
STA. 88+00



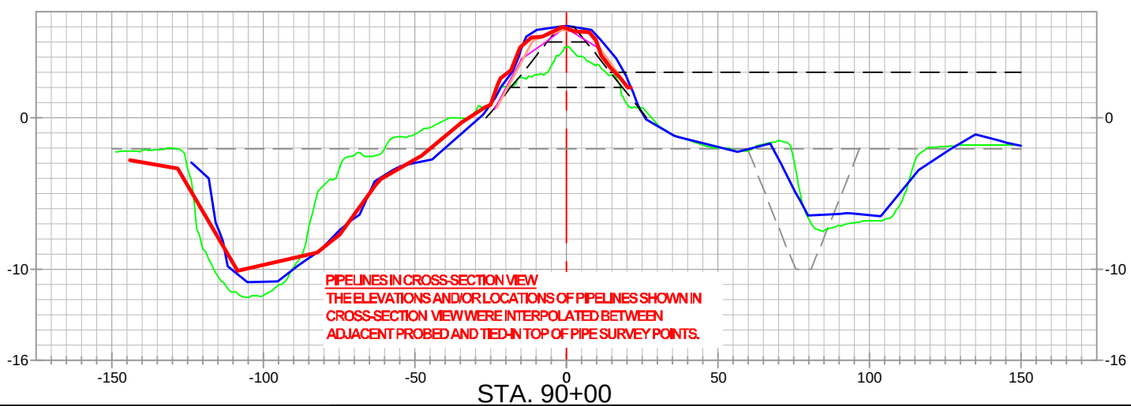
STA. 90+45



STA. 89+00

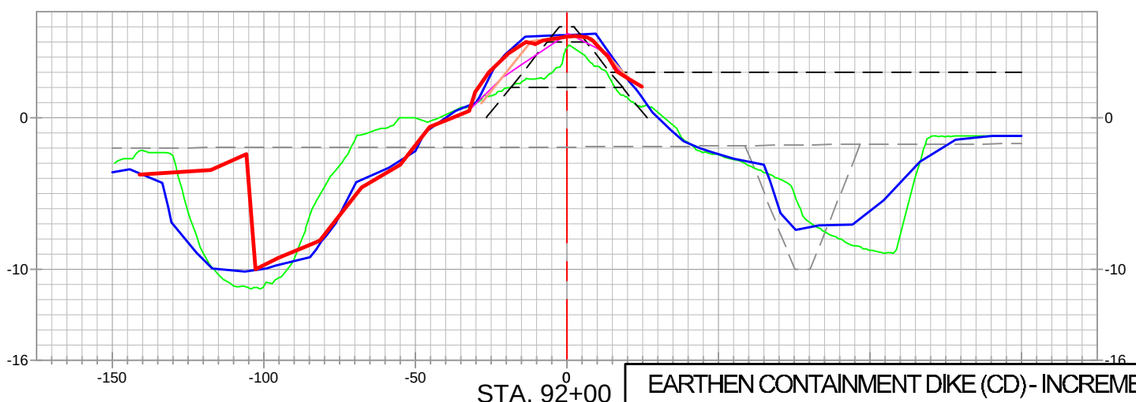


STA. 91+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 90+00



STA. 92+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

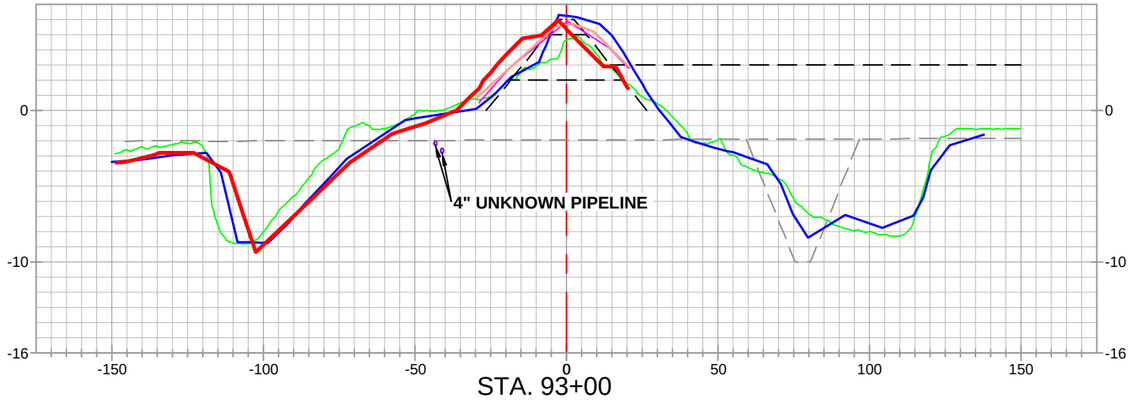
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

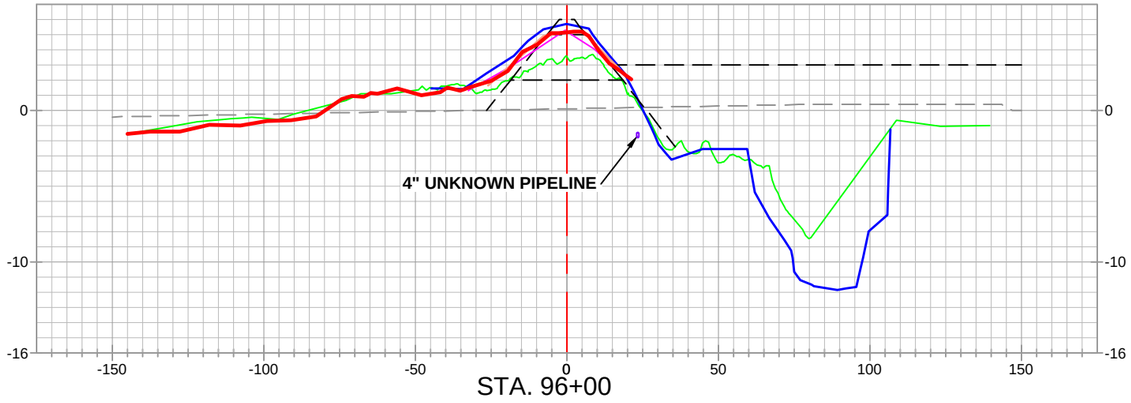
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

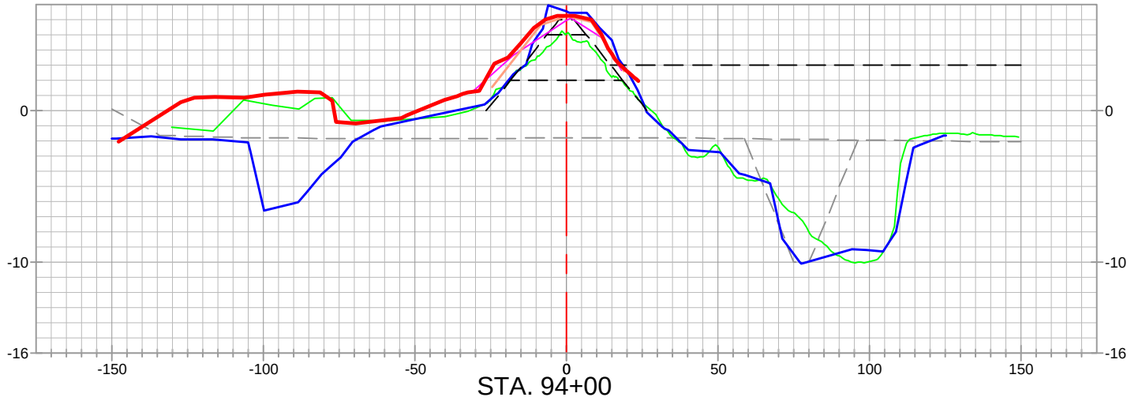
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 21 OF 32



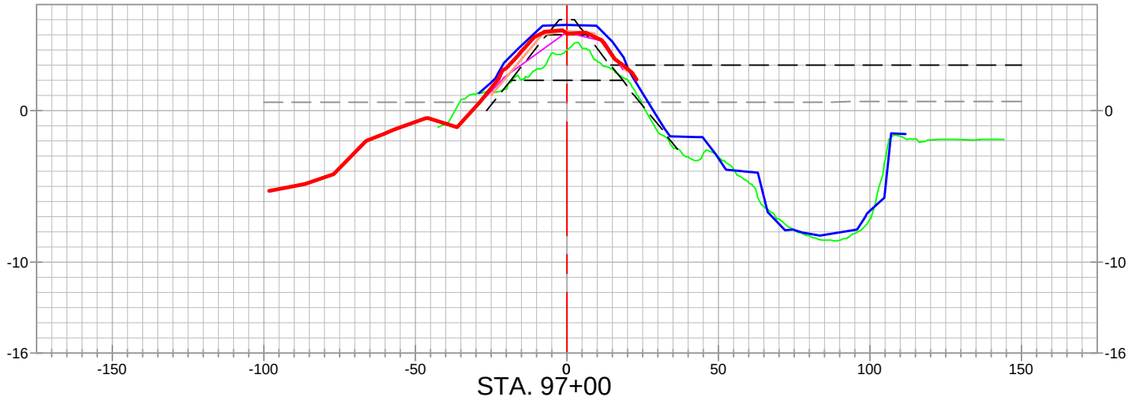
STA. 93+00



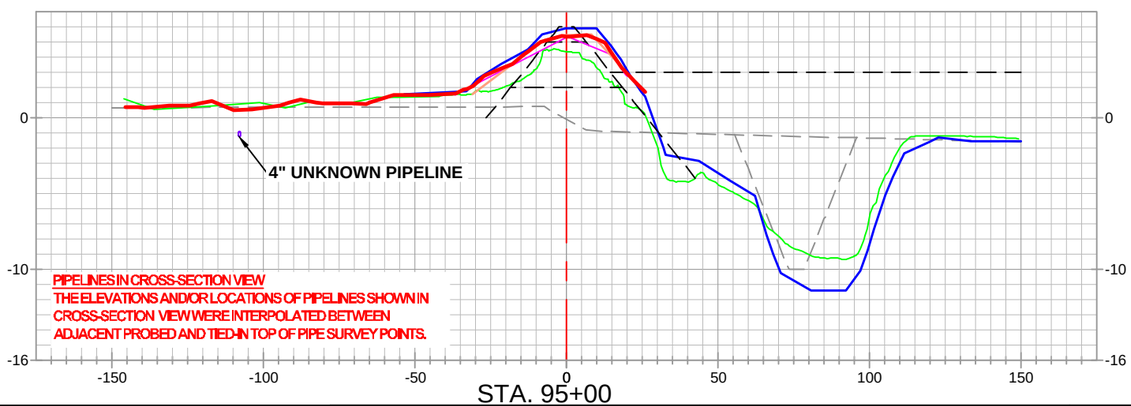
STA. 96+00



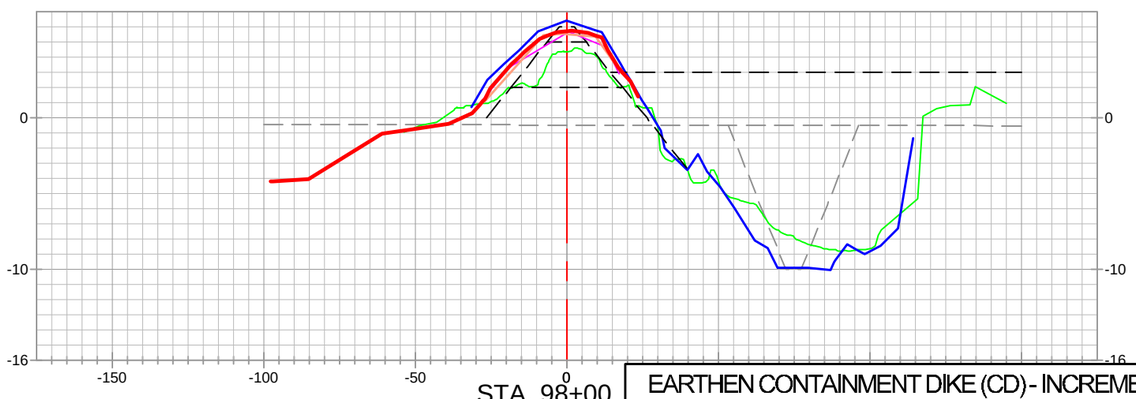
STA. 94+00



STA. 97+00



STA. 95+00



STA. 98+00

PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE

- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

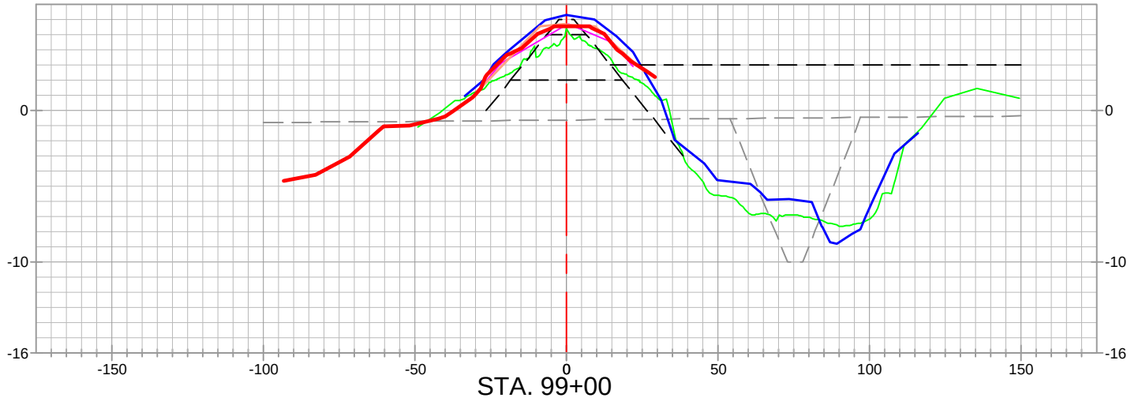
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

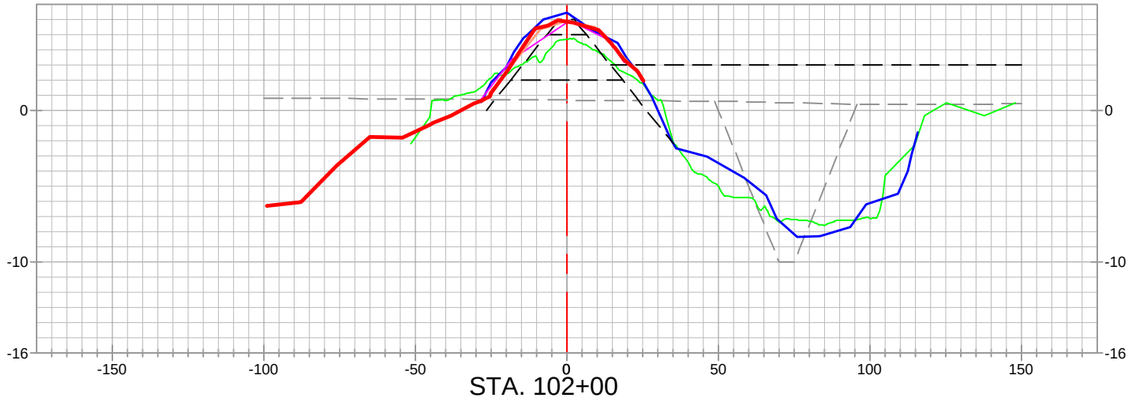
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

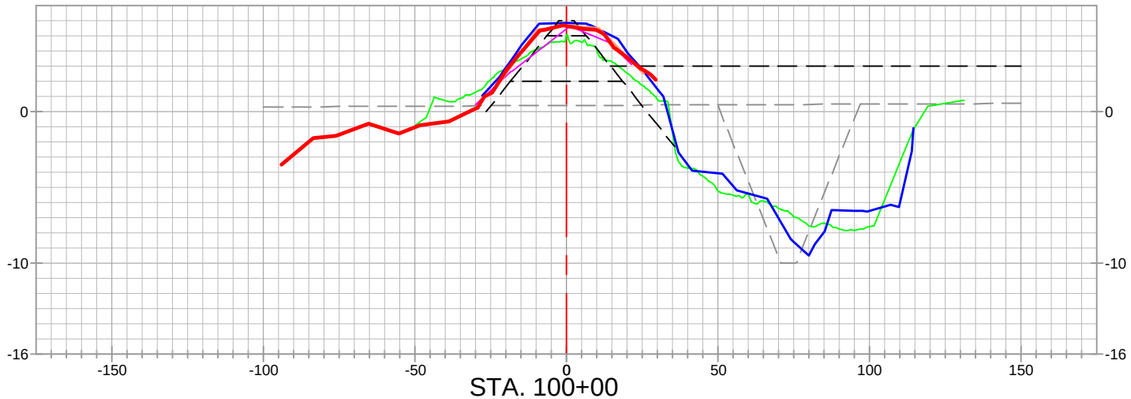
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 22 OF 32



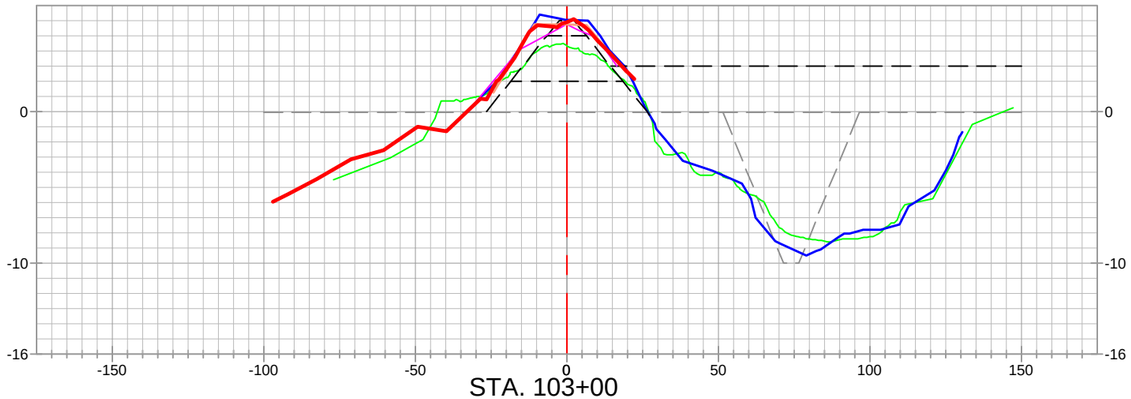
STA. 99+00



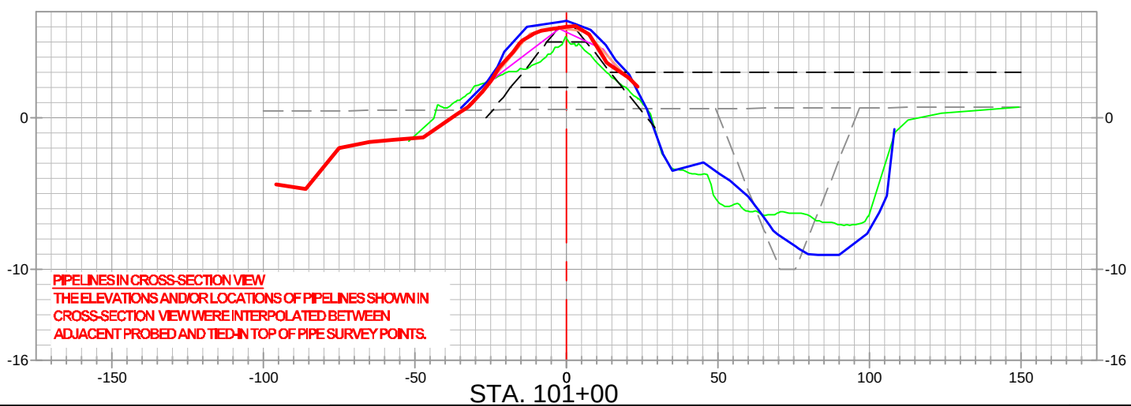
STA. 102+00



STA. 100+00

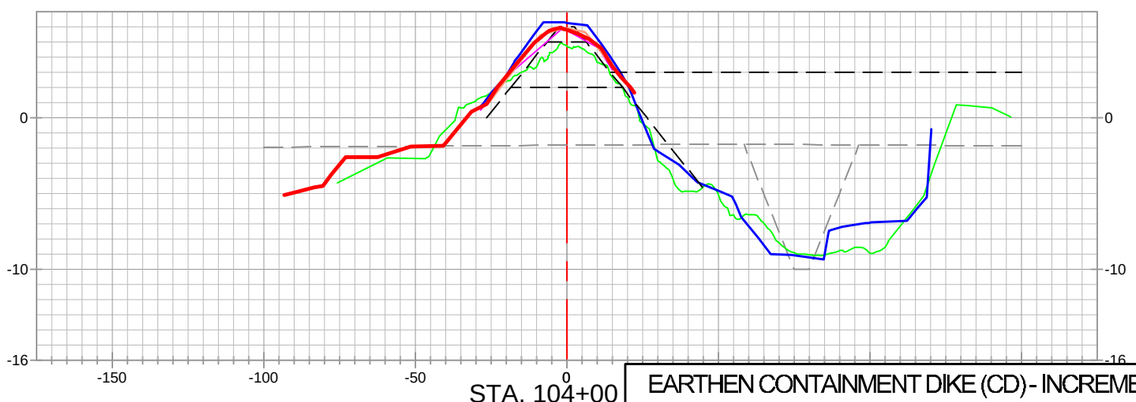


STA. 103+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 101+00



STA. 104+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

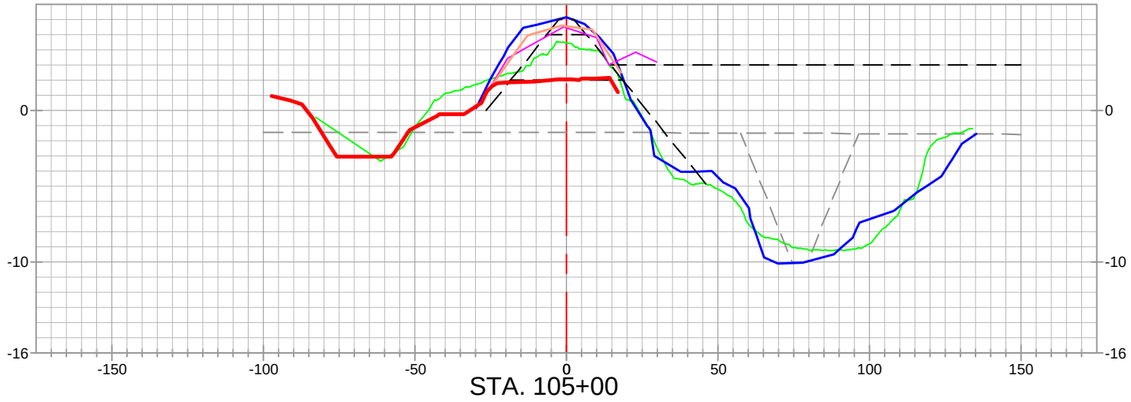
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

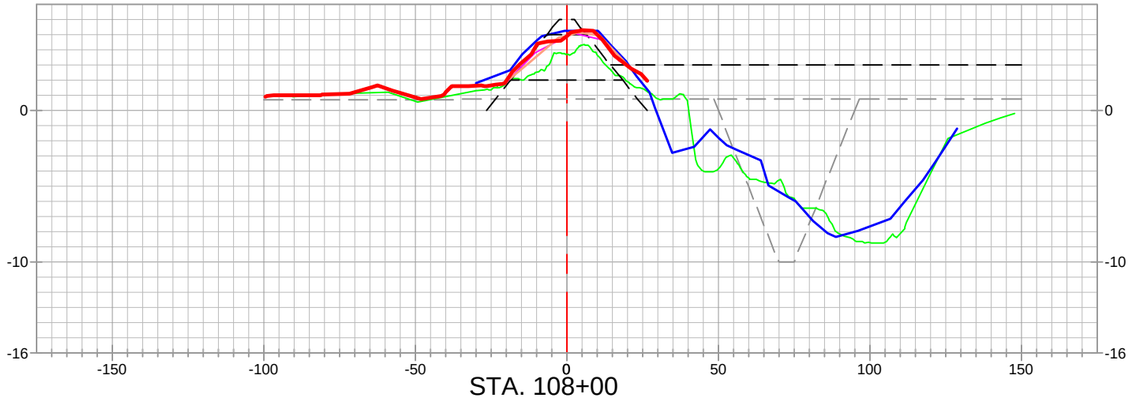
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

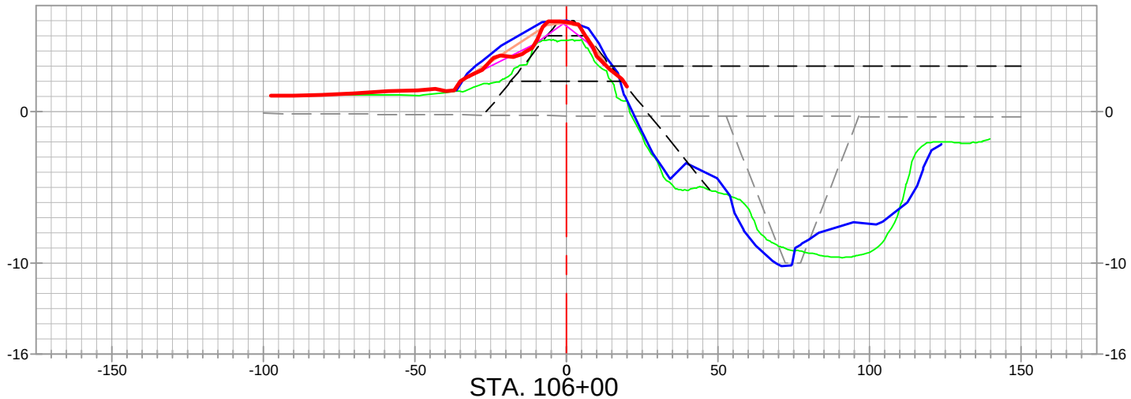
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 23 OF 32



STA. 105+00



STA. 108+00



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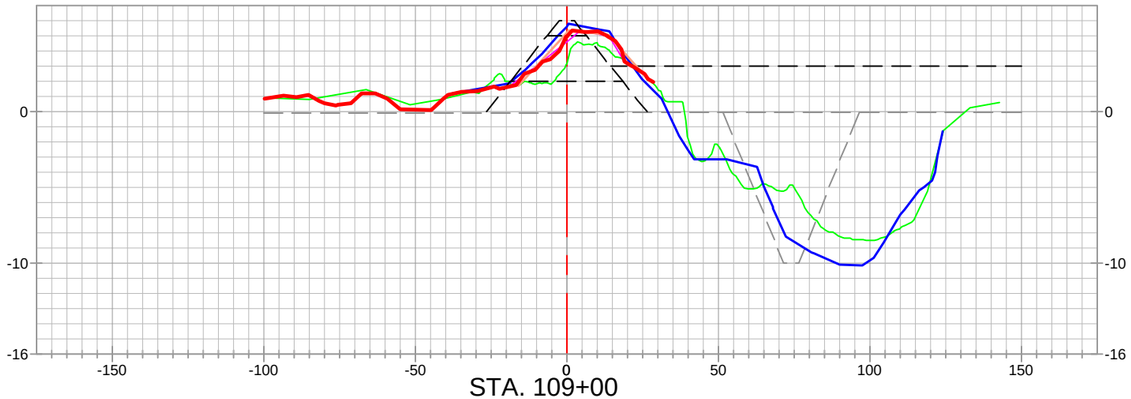
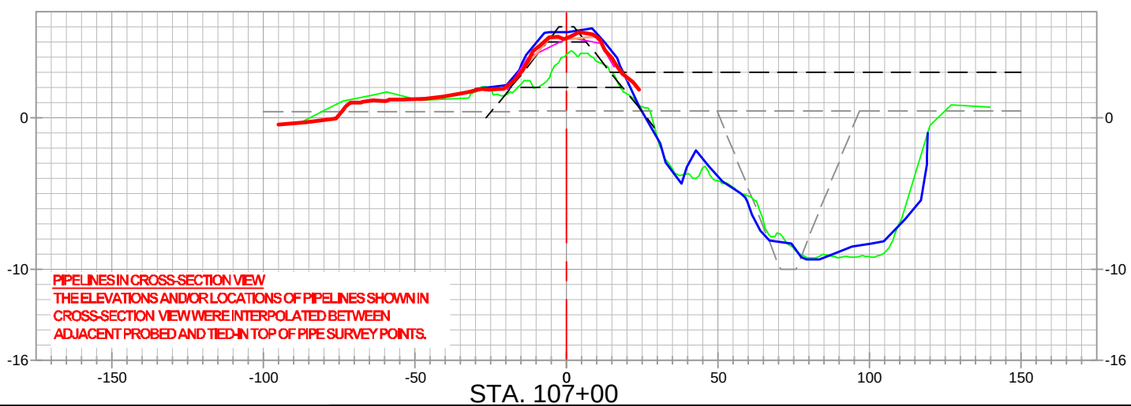
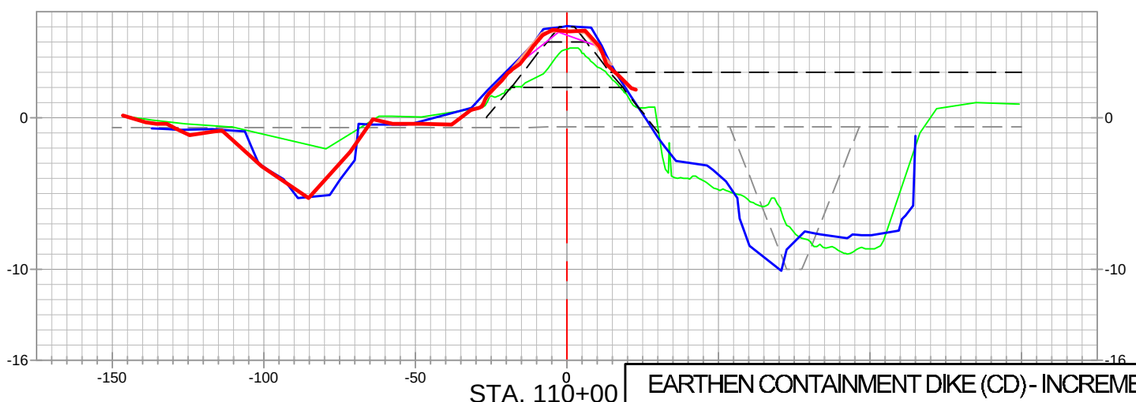


STA. 109+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 107+00



STA. 110+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

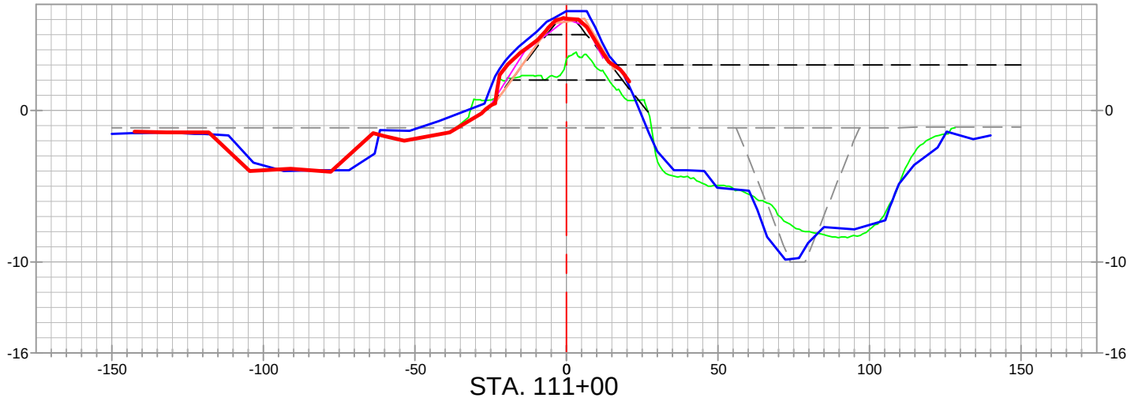
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

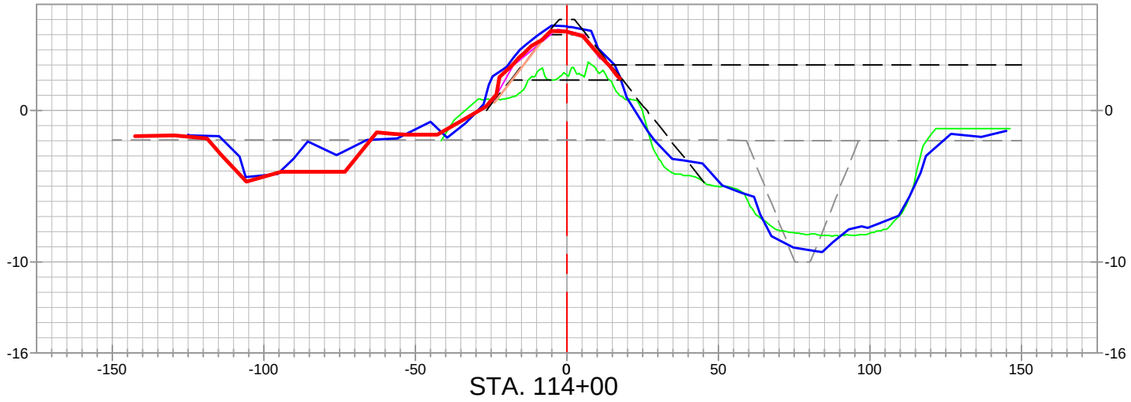
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

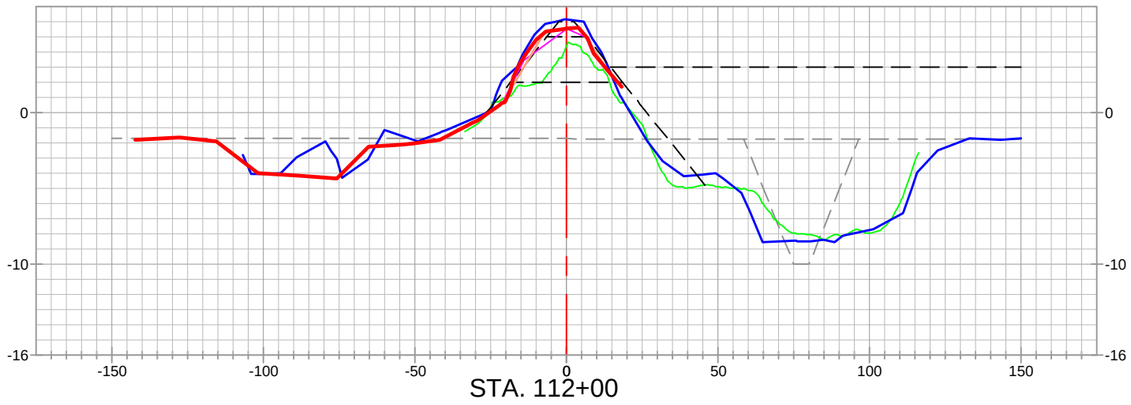
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 24 OF 32



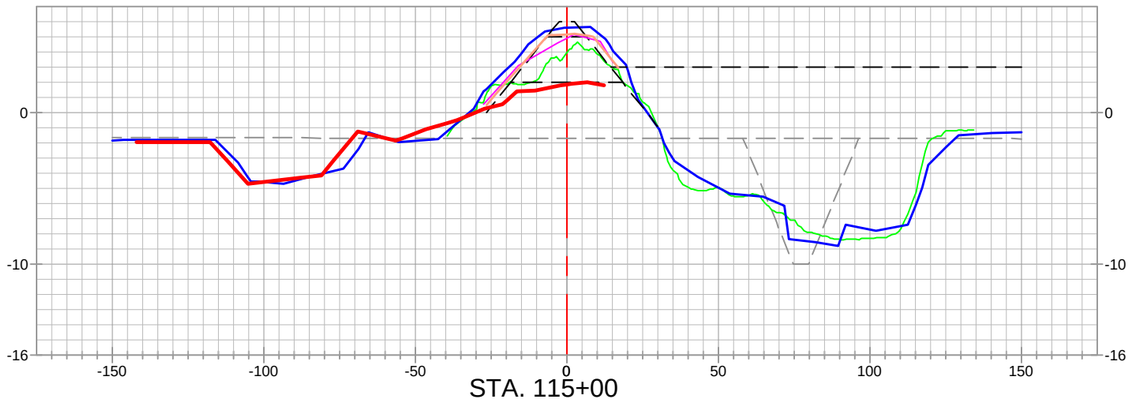
STA. 111+00



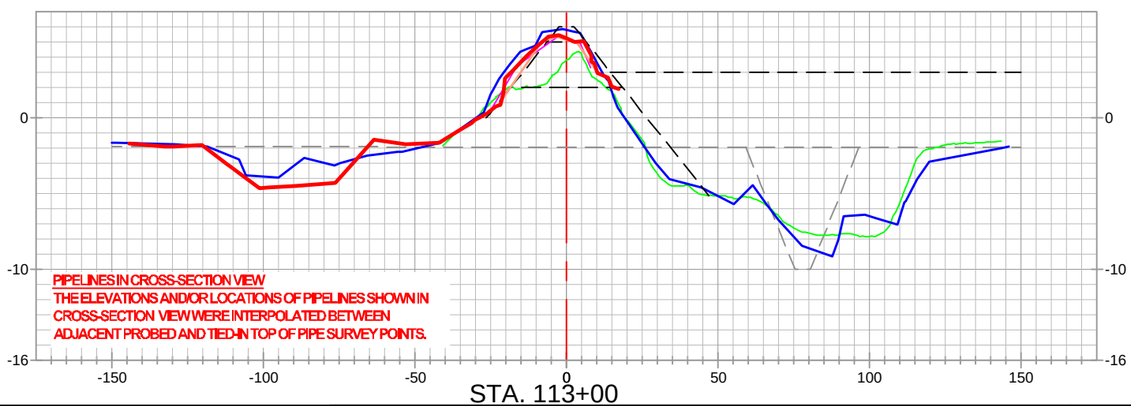
STA. 114+00



STA. 112+00

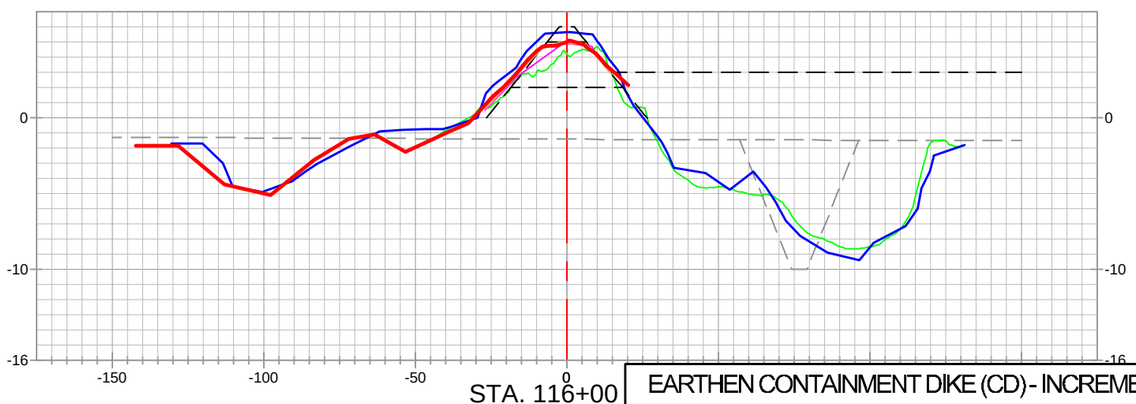


STA. 115+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 113+00



STA. 116+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

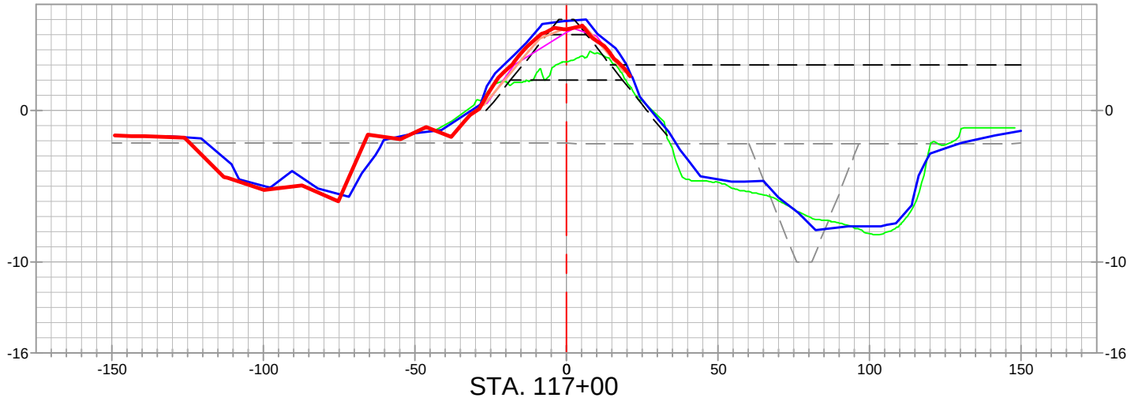
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

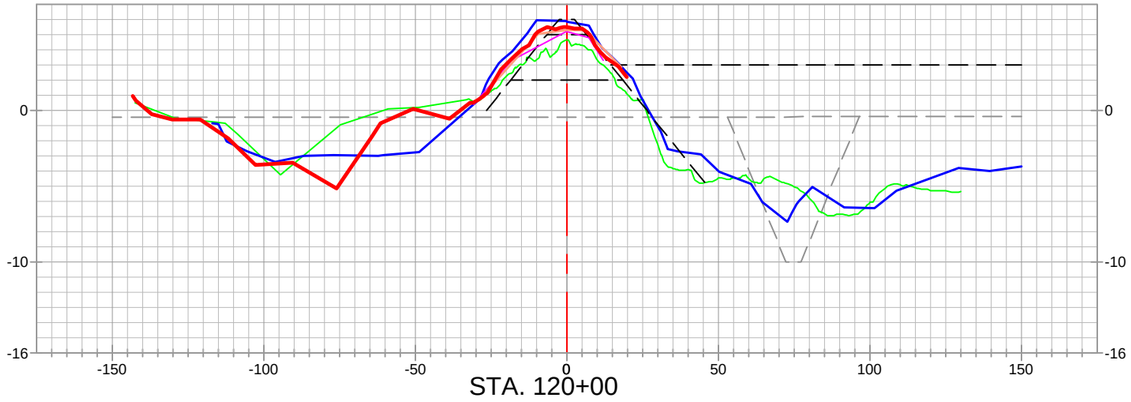
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

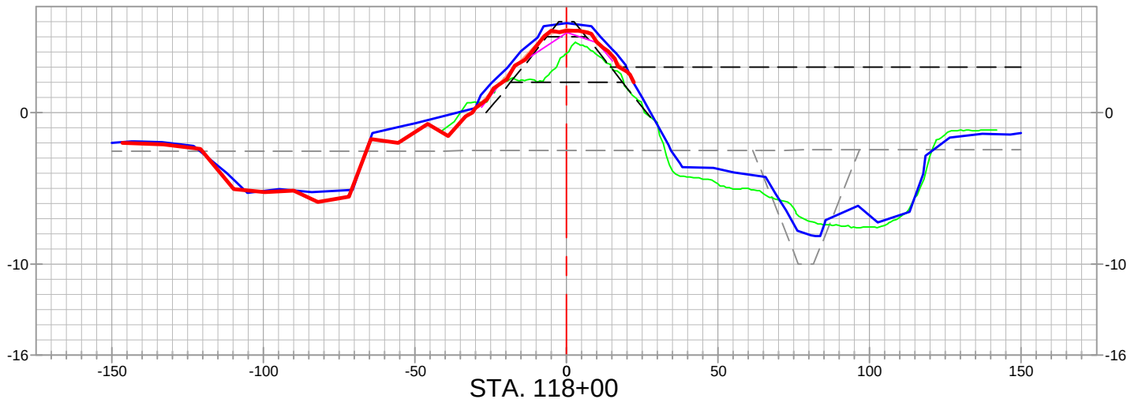
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 25 OF 32



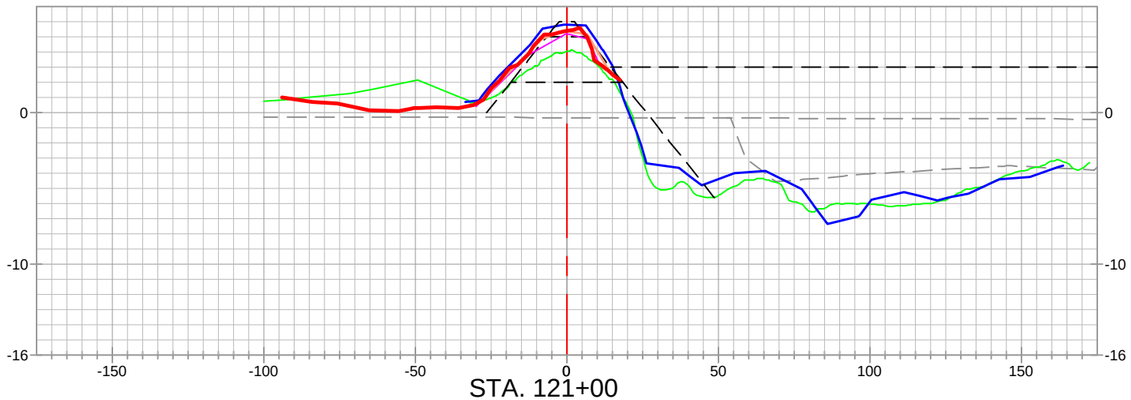
STA. 117+00



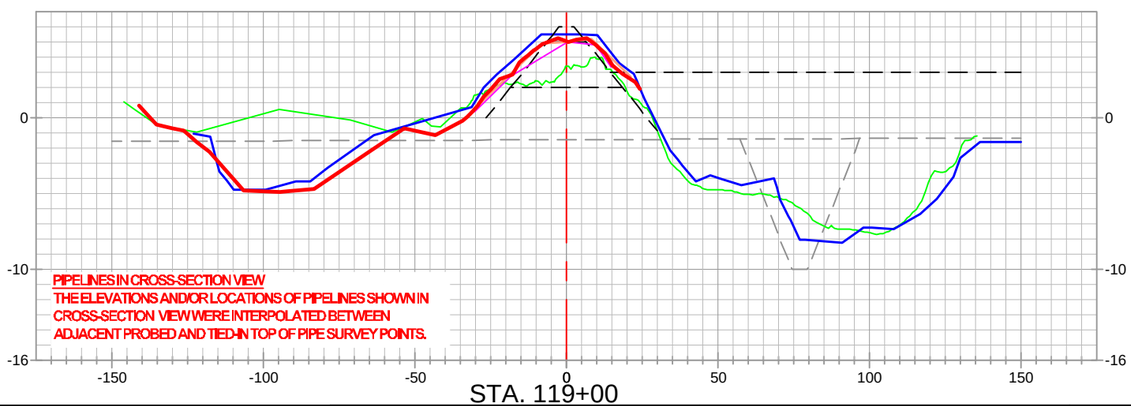
STA. 120+00



STA. 118+00

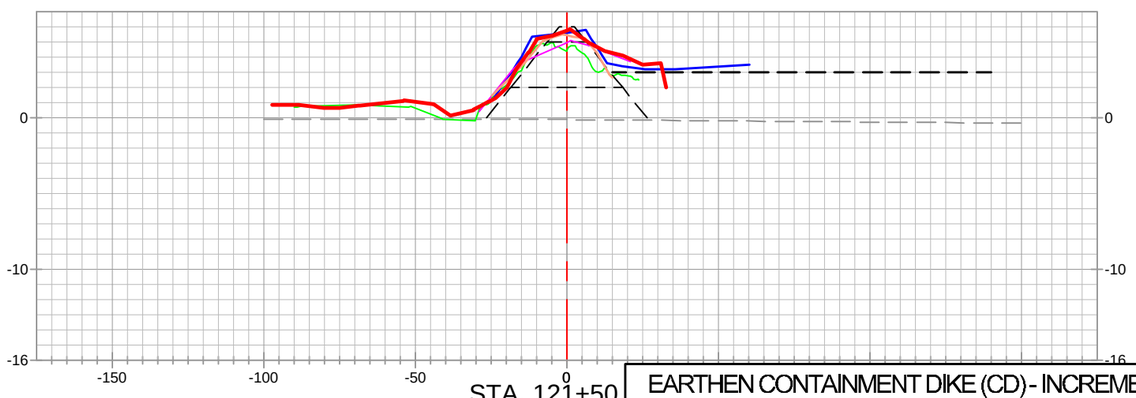


STA. 121+00



PIPELINES IN CROSS-SECTION VIEW
THE ELEVATIONS AND/OR LOCATIONS OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

STA. 119+00



STA. 121+50

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 26 OF 32

NOTES FOR CROSS-SECTION VIEWS:

1.) THE ELEVATIONS AND/OR LOCATIONES OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

2.) PROPOSED ELEVATION OF:
- TOP OF FIRST LIFT: 2.0 ELEV. NAVD88
- TOP OF SECOND LIFT: 5.0 ELEV. NAVD88
- TOP OF THIRD (FINAL LIFT): 6.0 ELEV. NAVD88

3.) PROPOSED TOP WIDTH OF:
- TOP OF FIRST LIFT: 53.0 FEET
- TOP OF SECOND LIFT: 37.0 FEET
- TOP OF THIRD (FINAL) LIFT: 5.0 FEET

4.) ALL PROPOSED SIDE SLOPES TO BE 4 HORIZONTAL TO 1 VERTICAL (4H:1V)

5.) TOP OF MARSH SHOWN AT AN ELEVATION OF +3.0 FEET NAVD88

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4736
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

REVISED BY:	DATE:

HYDROTERRA

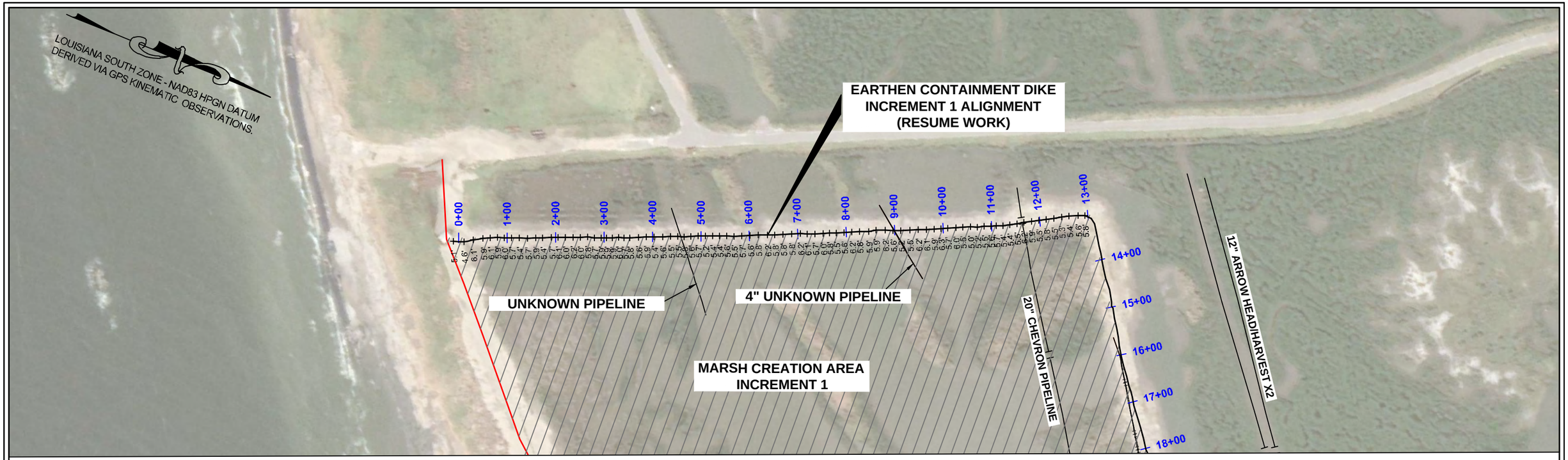
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

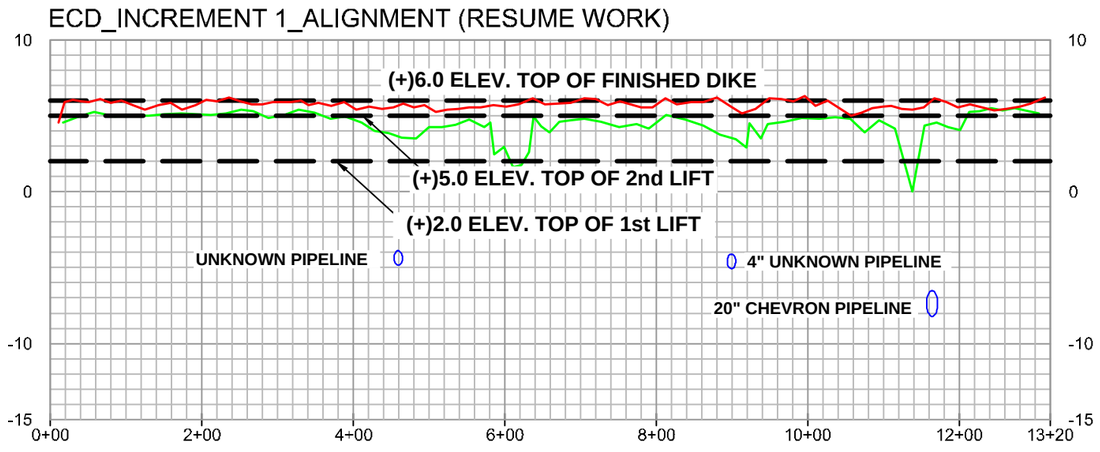
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC1_SECTIONS_REV 00.dwg | SHEET: 27 OF 32





EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'
VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

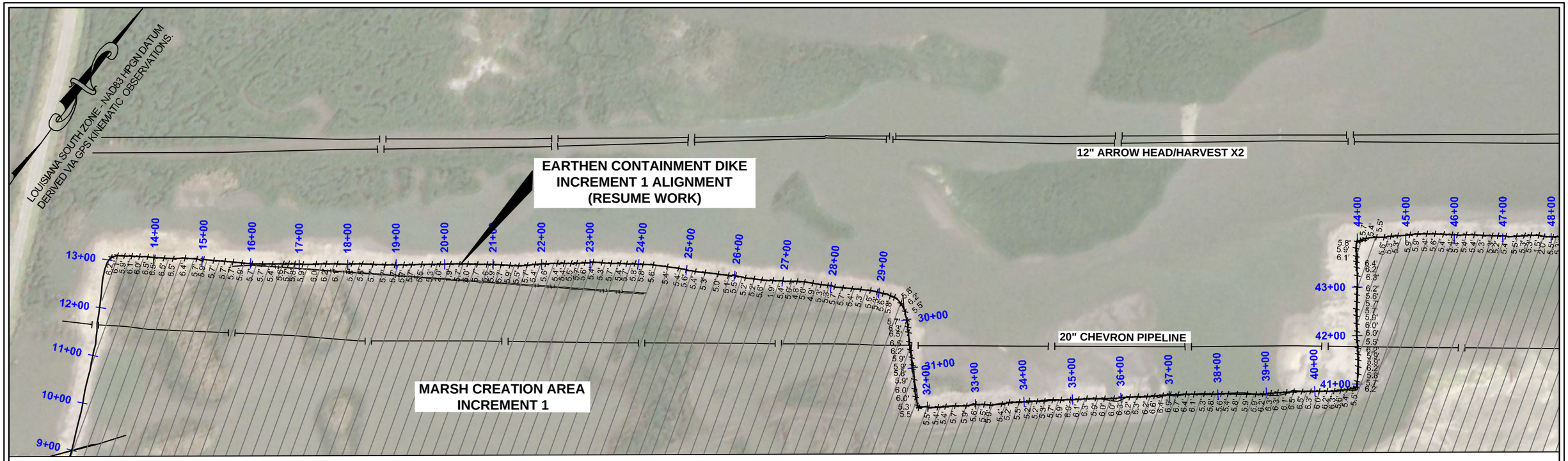
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

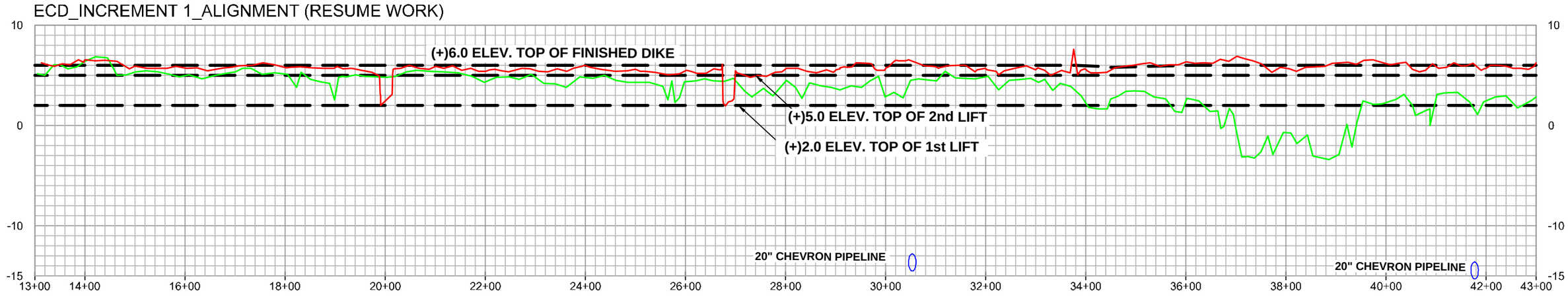
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
PLAN/PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 1_PROFILE_REV00.dwg

SHEET: 28 OF 32





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE	LEGEND—PLAN
AS-BUILT PROFILE SURVEY (12-09-22)	PROJECT ALIGNMENT/BASELINE
PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)	TEMPLATE
TEMPLATE	PIPELINE
	+3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'
VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

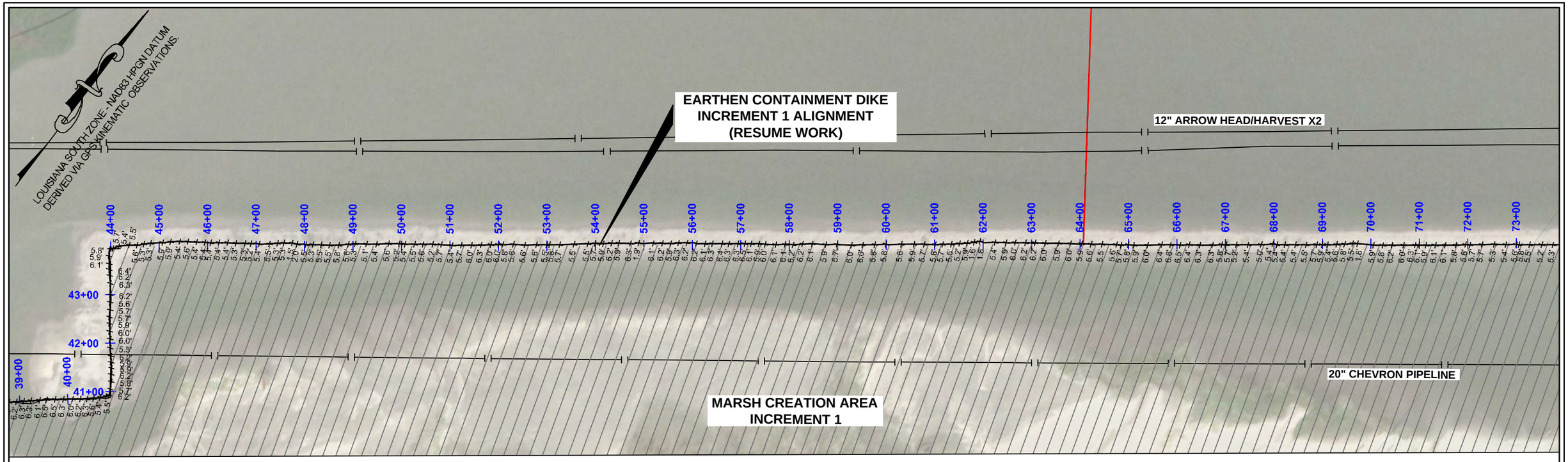
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
PLAN/PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

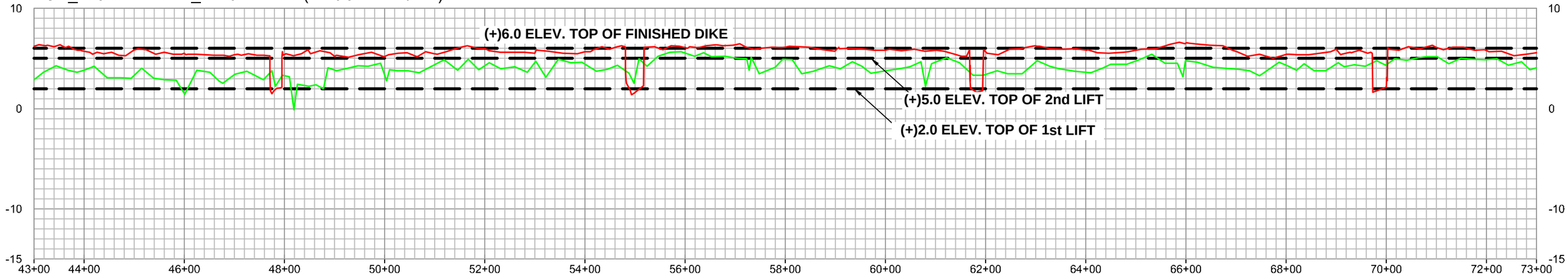
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 1_PROFILE_REV00.dwg

SHEET: 29 OF 32



ECD_INCREMENT 1_ALIGNMENT (RESUME WORK)



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

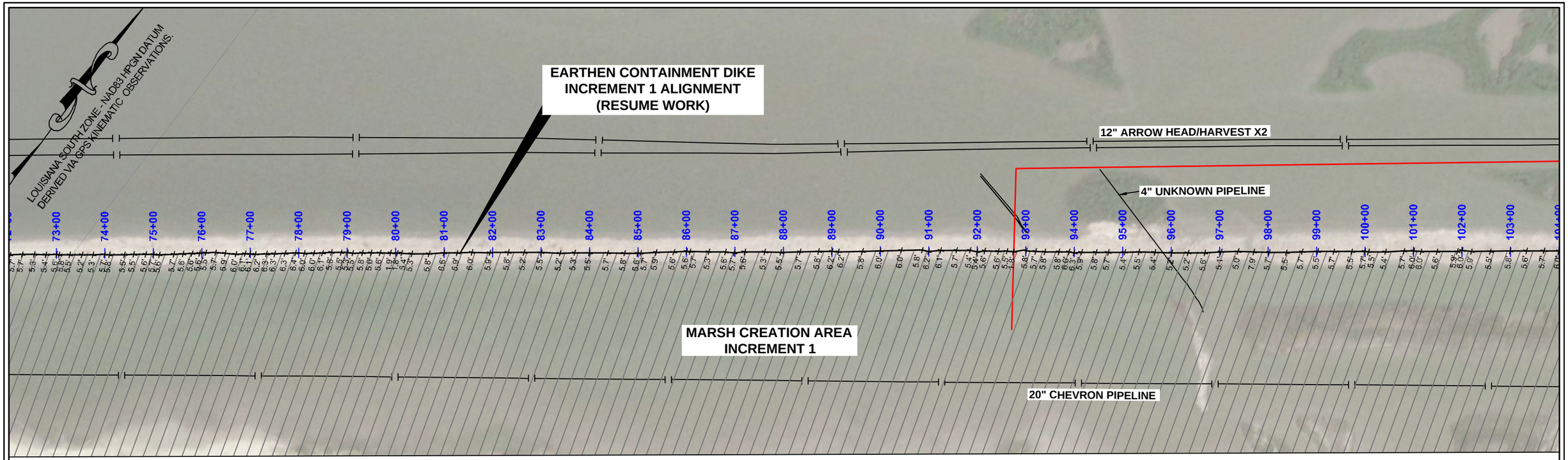
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

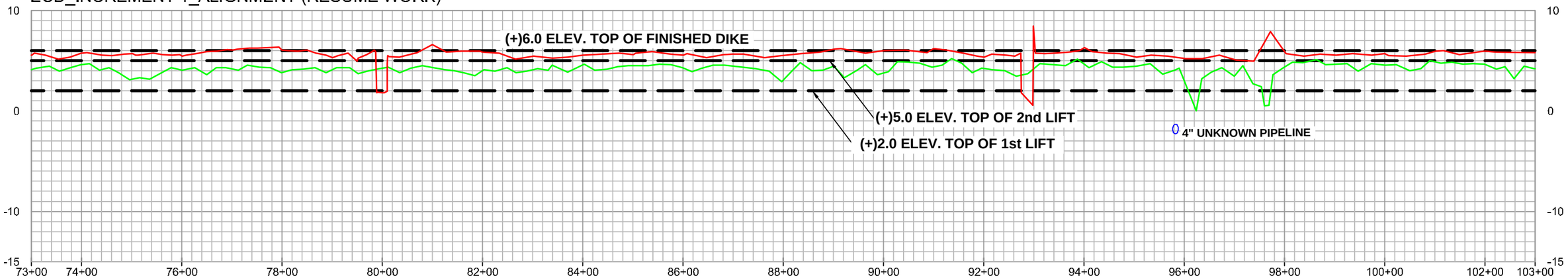
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
PLAN/PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 1_PROFILE_REV00.dwg

SHEET: 30 OF 32





EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND—PROFILE	LEGEND—PLAN
AS-BUILT PROFILE SURVEY (12-09-22)	PROJECT ALIGNMENT/BASELINE
PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)	TEMPLATE
TEMPLATE	PIPELINE
	+3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

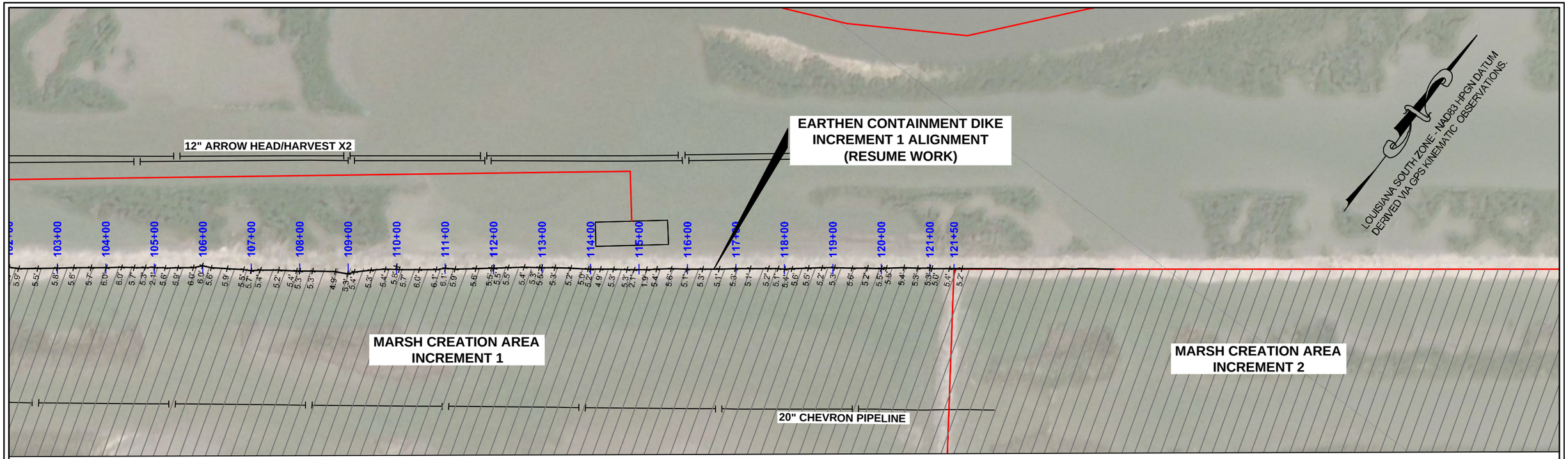
HYDROTERRA

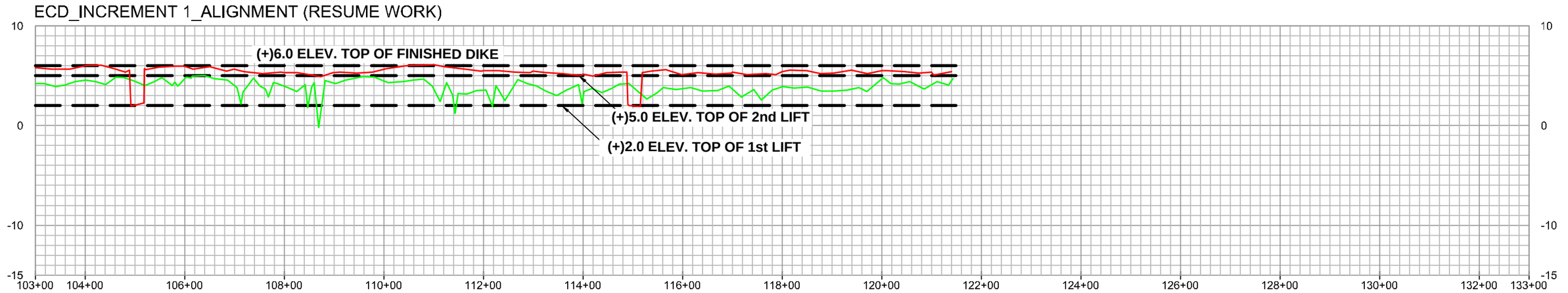
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
PLAN/PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 1_PROFILE_REV00.dwg





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 1
PLAN/PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 1_PROFILE_REV00.dwg

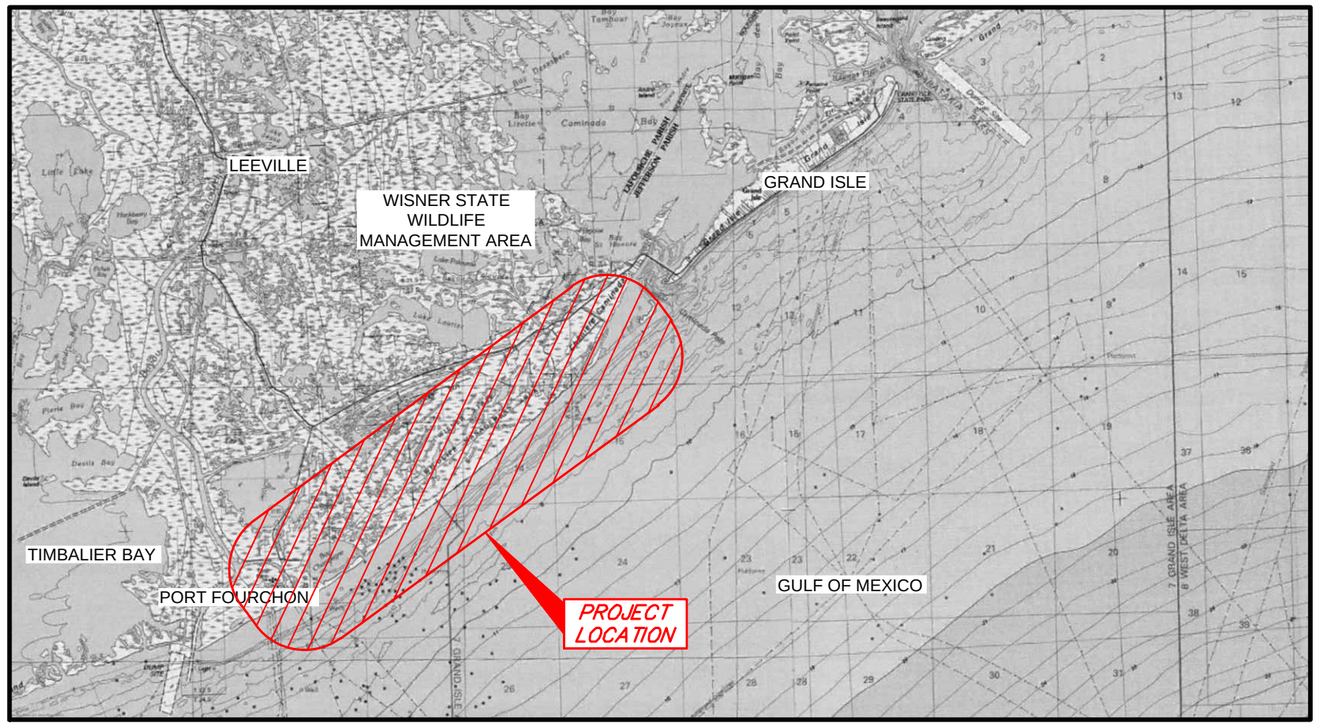
SHEET: 32 OF 32

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 24	CROSS-SECTION VIEWS
25 - 28	PLAN / PROFILE VIEWS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL
LAND SURVEYOR
12/16/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2

TITLE PAGE

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 1 OF 28

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. RESUMING WORK PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC BETWEEN 02-07-22 AND 04-04-22 INCLUSIVE.
5. RESUMING WORK PROGRESS SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES, INC. BETWEEN 03-22-22 AND 07-15-22.
6. PROGRESS SURVEY DATA ACQUISITION WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC DATED 09-14-22 TO 09-17-22 AND CHECK BY HYDROTERRA TECHNOLOGIES, LLC ON 09-21-22.
7. MONTHLY ECD SURVEY DATA DATED 10-15-22 WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC. AND REVIEWED BY HYDROTERRA TECHNOLOGIES, LLC ON 10-24-22.
8. AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 11-07-22, 11-08-22, 11-09-22, 11-10-22, 11-11-22, 11-14-22, 11-15-22. 11-16-22. 11-28-22, 11-29-22, 11-30-22, 12-02-22, 12-03-22, 12-05-22, 12-06-22, 12-07-22, 12-08-22 AND 12-09-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL TRAINING DIKE 3

EARTHEN CONTAINMENT DIKE ALIGNMENT

BAYOU MOREAU

GULF OF MEXICO

INCREMENT 3

50' BEACH AND DUNE CROSSING

EQUIPMENT ACCESS CORRIDOR (EA3)

DREDGE PIPELINE CORRIDOR

EQUIPMENT ACCESS CORRIDOR (EA1)

INTERNAL TRAINING DIKE 2

EQUIPMENT ACCESS CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

50' BEACH AND DUNE CROSSING

PORT FOURCHON MARINA

BAYOU LAFOURCHE

DREDGE PIPELINE CORRIDOR

DREDGE PIPELINE CORRIDOR

SW BORROW AREA

INCREMENT 1

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

GULF OF MEXICO

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

HYDROTERRA

GREAT LAKES DREDGE & DOCK COMPANY

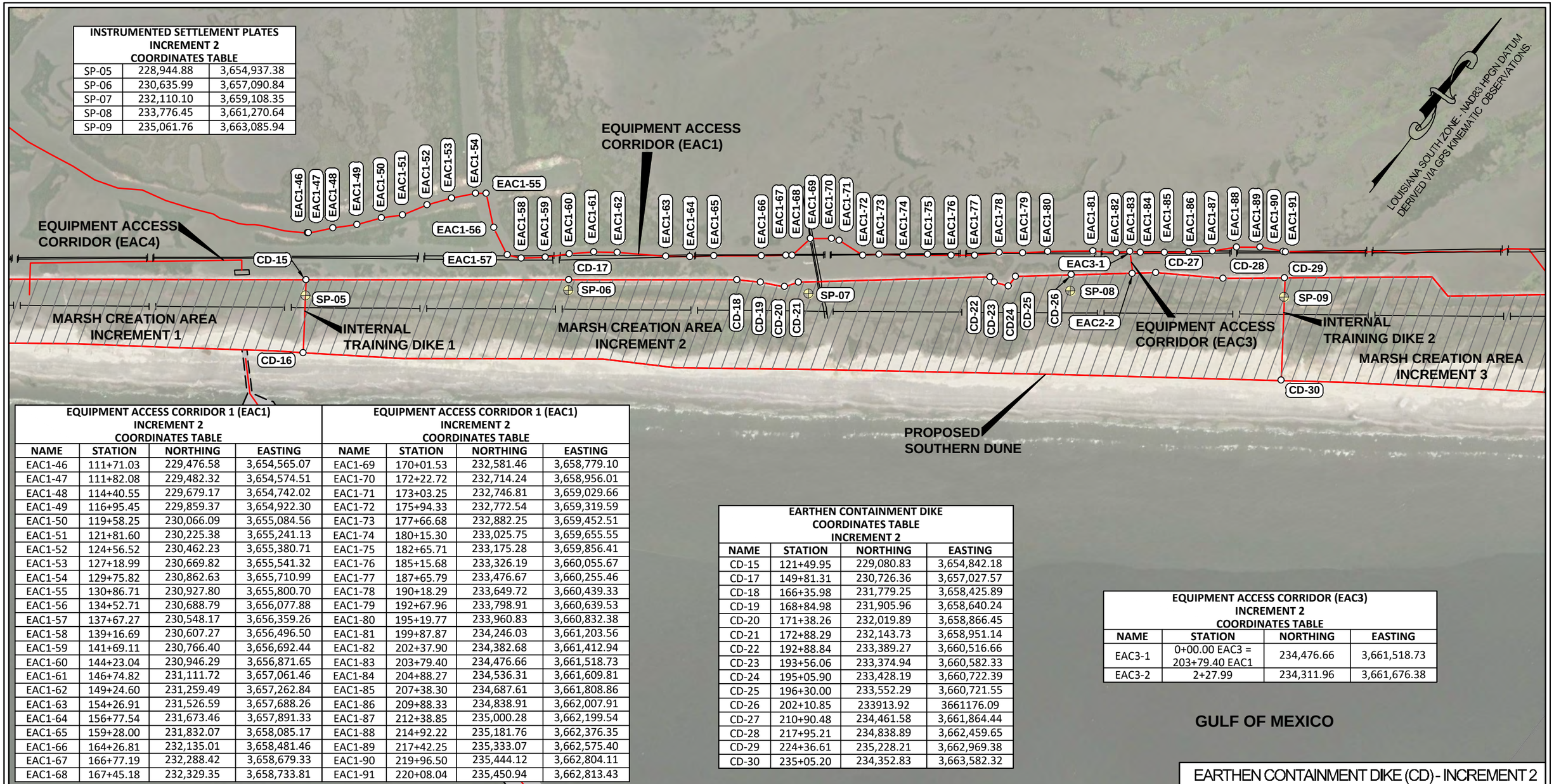
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 2 OF 28

INSTRUMENTED SETTLEMENT PLATES INCREMENT 2 COORDINATES TABLE		
SP-05	228,944.88	3,654,937.38
SP-06	230,635.99	3,657,090.84
SP-07	232,110.10	3,659,108.35
SP-08	233,776.45	3,661,270.64
SP-09	235,061.76	3,663,085.94



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE				EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING	NAME	STATION	NORTHING	EASTING
EAC1-46	111+71.03	229,476.58	3,654,565.07	EAC1-69	170+01.53	232,581.46	3,658,779.10
EAC1-47	111+82.08	229,482.32	3,654,574.51	EAC1-70	172+22.72	232,714.24	3,658,956.01
EAC1-48	114+40.55	229,679.17	3,654,742.02	EAC1-71	173+03.25	232,746.81	3,659,029.66
EAC1-49	116+95.45	229,859.37	3,654,922.30	EAC1-72	175+94.33	232,772.54	3,659,319.59
EAC1-50	119+58.25	230,066.09	3,655,084.56	EAC1-73	177+66.68	232,882.25	3,659,452.51
EAC1-51	121+81.60	230,225.38	3,655,241.13	EAC1-74	180+15.30	233,025.75	3,659,655.55
EAC1-52	124+56.52	230,462.23	3,655,380.71	EAC1-75	182+65.71	233,175.28	3,659,856.41
EAC1-53	127+18.99	230,669.82	3,655,541.32	EAC1-76	185+15.68	233,326.19	3,660,055.67
EAC1-54	129+75.82	230,862.63	3,655,710.99	EAC1-77	187+65.79	233,476.67	3,660,255.46
EAC1-55	130+86.71	230,927.80	3,655,800.70	EAC1-78	190+18.29	233,649.72	3,660,439.33
EAC1-56	134+52.71	230,688.79	3,656,077.88	EAC1-79	192+67.96	233,798.91	3,660,639.53
EAC1-57	137+67.27	230,548.17	3,656,359.26	EAC1-80	195+19.77	233,960.83	3,660,832.38
EAC1-58	139+16.69	230,607.27	3,656,496.50	EAC1-81	199+87.87	234,246.03	3,661,203.56
EAC1-59	141+69.11	230,766.40	3,656,692.44	EAC1-82	202+37.90	234,382.68	3,661,412.94
EAC1-60	144+23.04	230,946.29	3,656,871.65	EAC1-83	203+79.40	234,476.66	3,661,518.73
EAC1-61	146+74.82	231,111.72	3,657,061.46	EAC1-84	204+88.27	234,536.31	3,661,609.81
EAC1-62	149+24.60	231,259.49	3,657,262.84	EAC1-85	207+38.30	234,687.61	3,661,808.86
EAC1-63	154+26.91	231,526.59	3,657,688.26	EAC1-86	209+88.33	234,838.91	3,662,007.91
EAC1-64	156+77.54	231,673.46	3,657,891.33	EAC1-87	212+38.85	235,000.28	3,662,199.54
EAC1-65	159+28.00	231,832.07	3,658,085.17	EAC1-88	214+92.22	235,181.76	3,662,376.35
EAC1-66	164+26.81	232,135.01	3,658,481.46	EAC1-89	217+42.25	235,333.07	3,662,575.40
EAC1-67	166+77.19	232,288.42	3,658,679.33	EAC1-90	219+96.50	235,444.12	3,662,804.11
EAC1-68	167+45.18	232,329.35	3,658,733.81	EAC1-91	220+08.04	235,450.94	3,662,813.43

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 2			
NAME	STATION	NORTHING	EASTING
CD-15	121+49.95	229,080.83	3,654,842.18
CD-17	149+81.31	230,726.36	3,657,027.57
CD-18	166+35.98	231,779.25	3,658,425.89
CD-19	168+84.98	231,905.96	3,658,640.24
CD-20	171+38.26	232,019.89	3,658,866.45
CD-21	172+88.29	232,143.73	3,658,951.14
CD-22	192+88.84	233,389.27	3,660,516.66
CD-23	193+56.06	233,374.94	3,660,582.33
CD-24	195+05.90	233,428.19	3,660,722.39
CD-25	196+30.00	233,552.29	3,660,721.55
CD-26	202+10.85	233913.92	3661176.09
CD-27	210+90.48	234,461.58	3,661,864.44
CD-28	217+95.21	234,838.89	3,662,459.65
CD-29	224+36.61	235,228.21	3,662,969.38
CD-30	235+05.20	234,352.83	3,663,582.32

EQUIPMENT ACCESS CORRIDOR (EAC3) INCREMENT 2 COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING
EAC3-1	0+00.00 EAC3 = 203+79.40 EAC1	234,476.66	3,661,518.73
EAC3-2	2+27.99	234,311.96	3,661,676.38

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 — EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

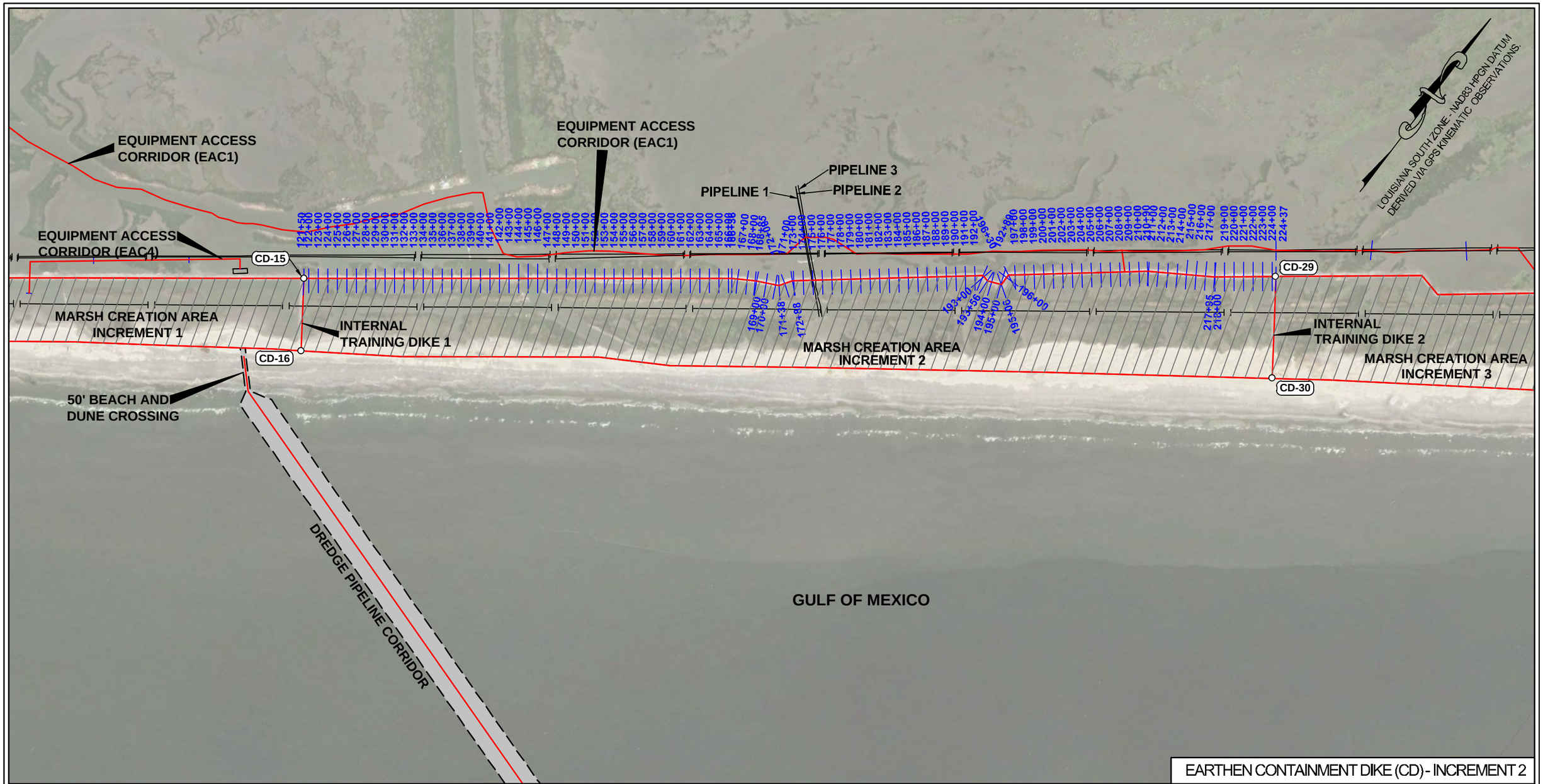
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg

SHEET: 3 OF 28



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4786
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- PIPELINE

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

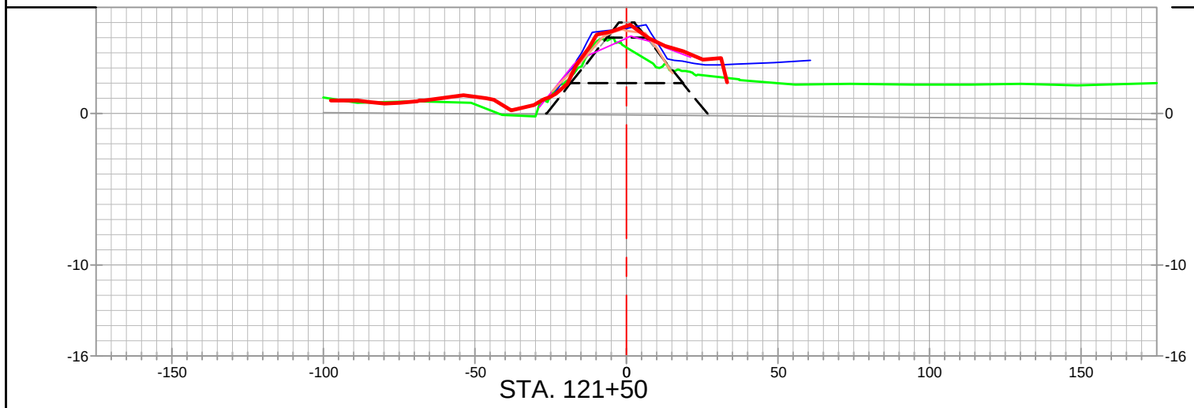
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

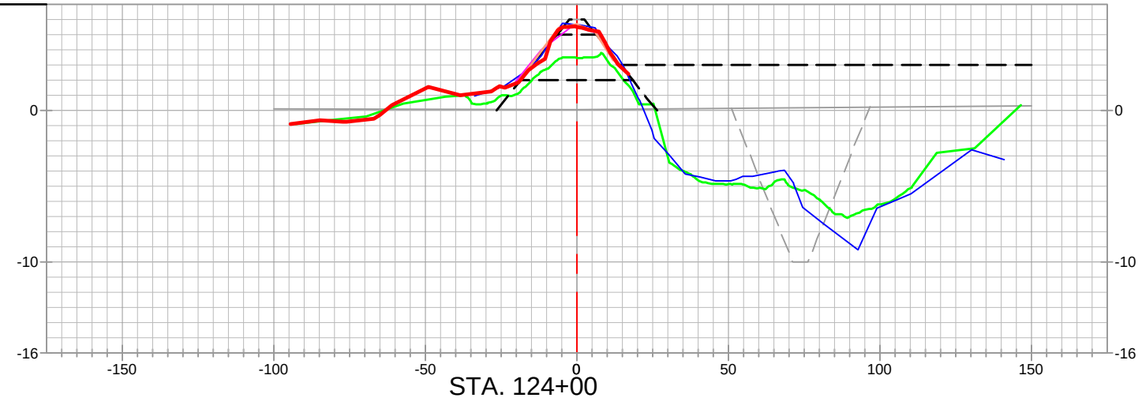
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

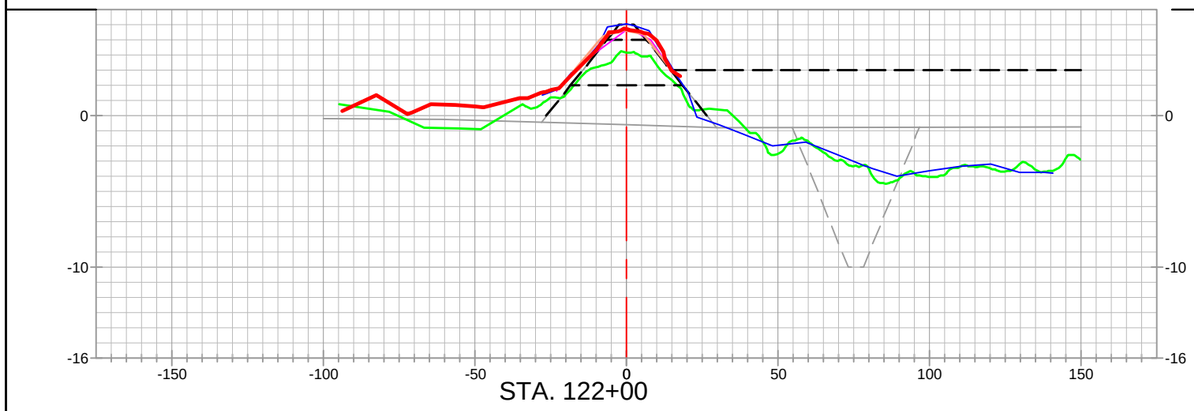
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 4 OF 28



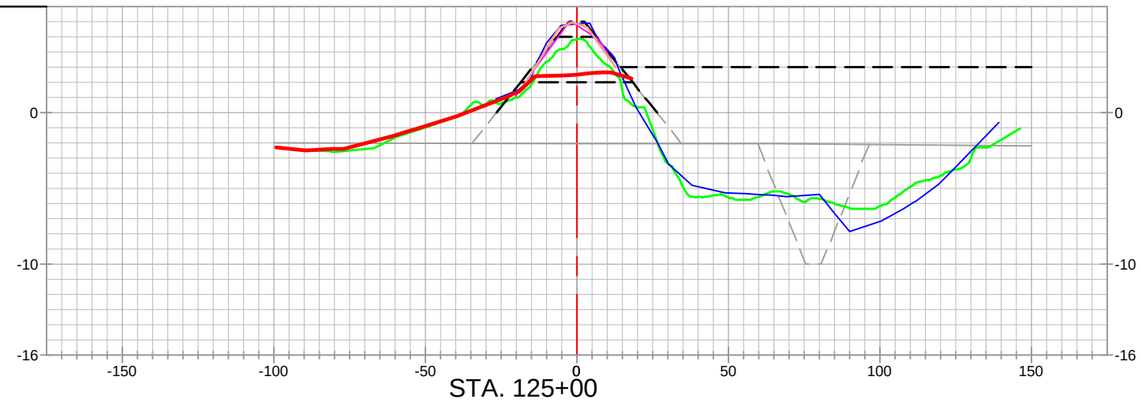
STA. 121+50



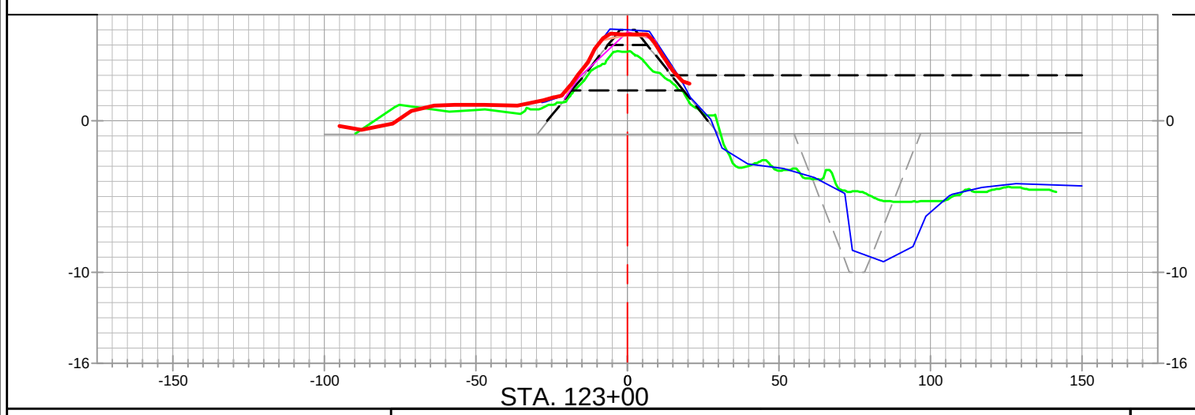
STA. 124+00



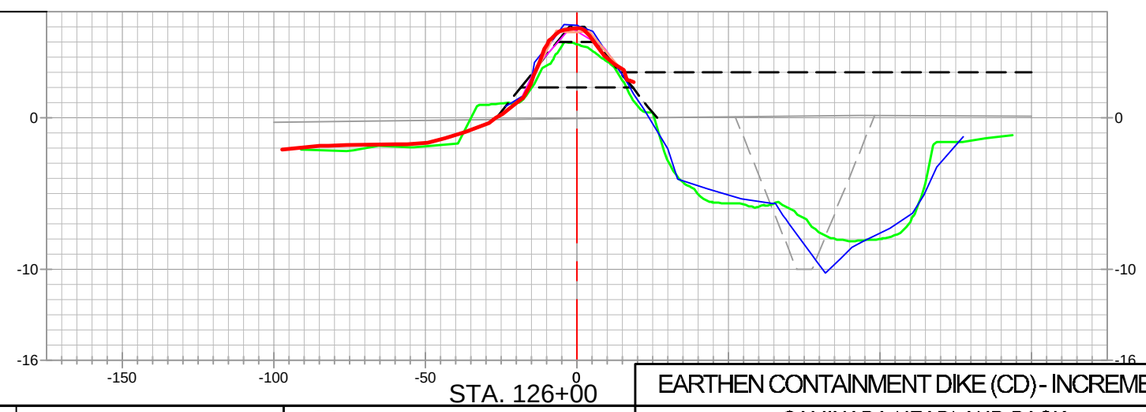
STA. 122+00



STA. 125+00



STA. 123+00



STA. 126+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

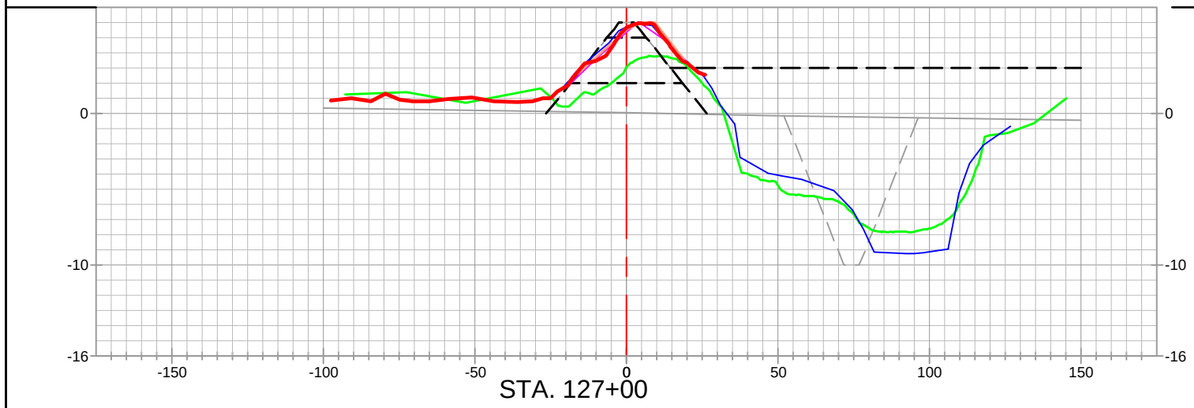
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

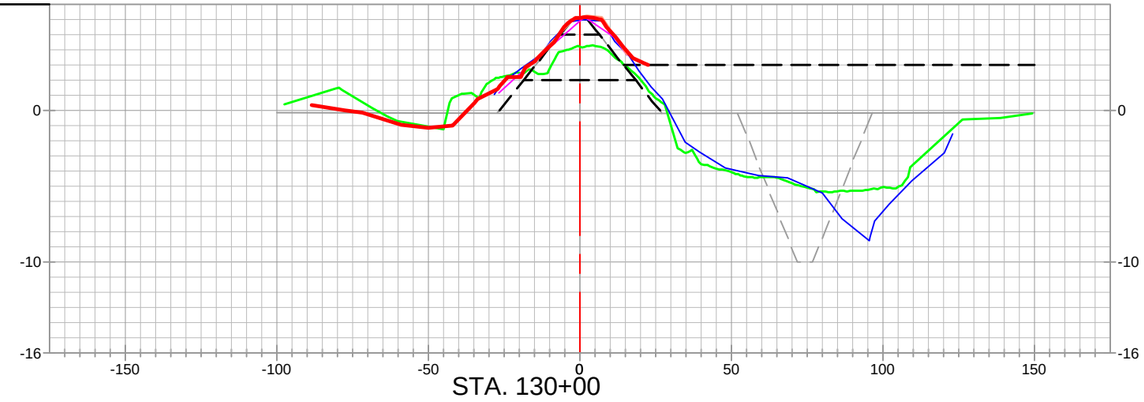
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

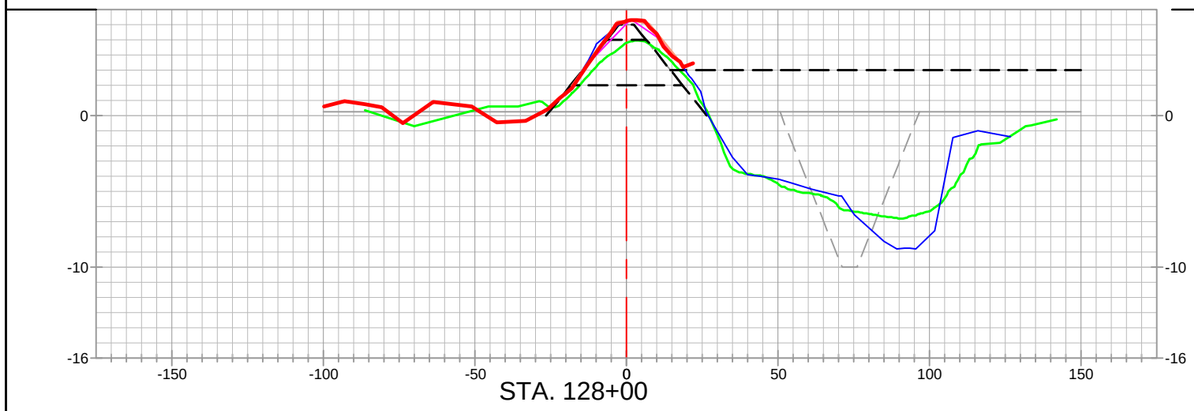
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 5 OF 28



STA. 127+00



STA. 130+00



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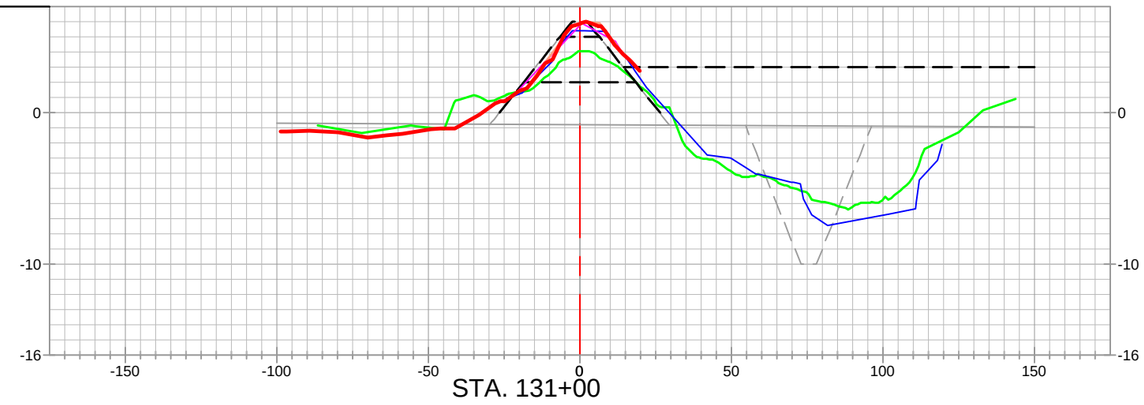
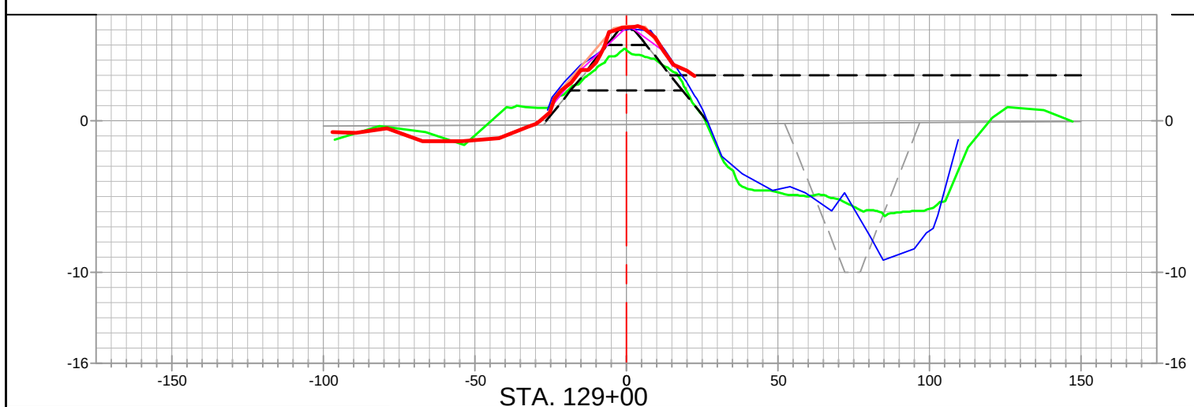
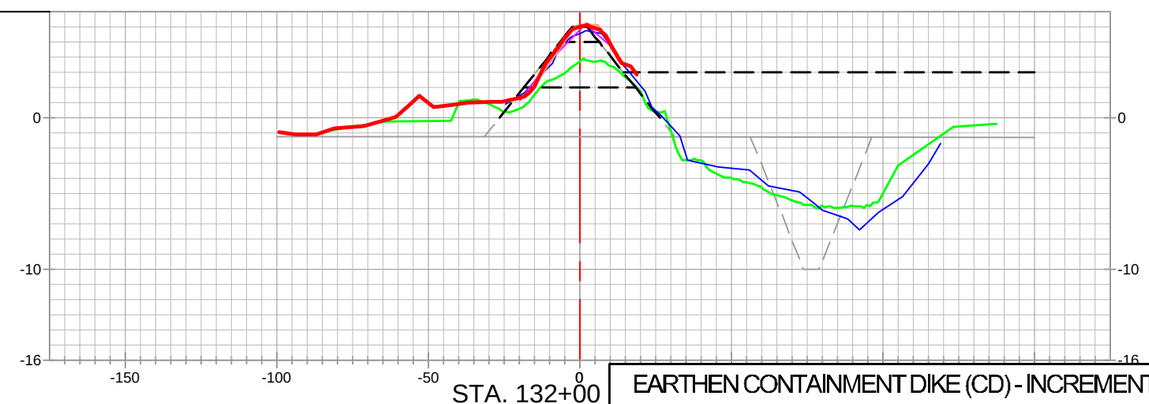


STA. 131+00



STA. 129+00



STA. 132+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

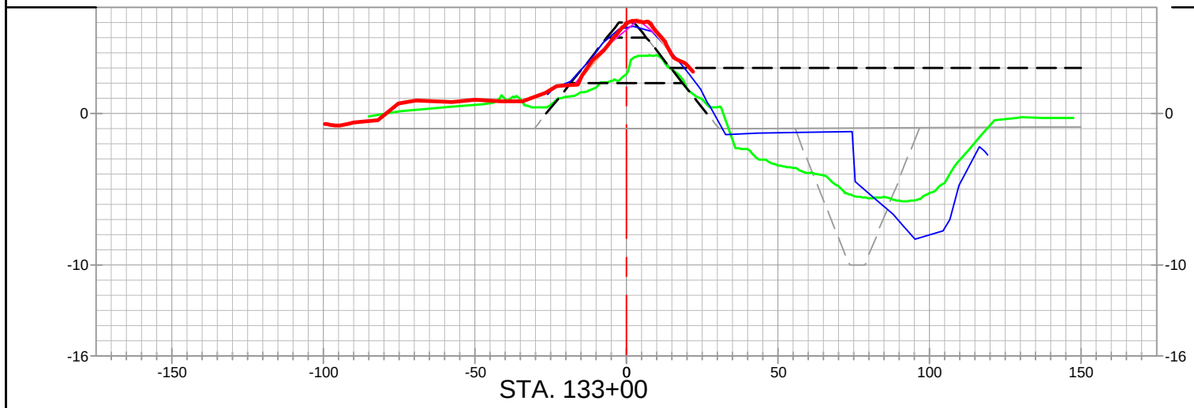
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

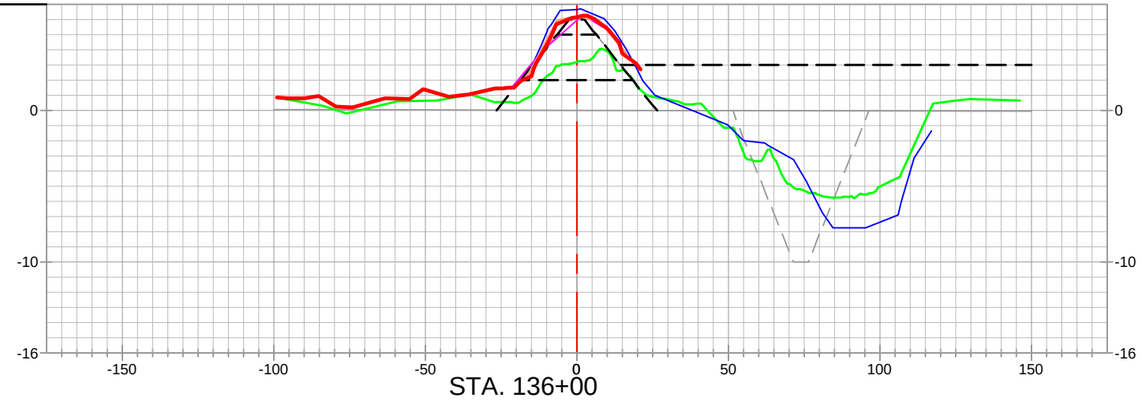
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 6 OF 28



STA. 133+00



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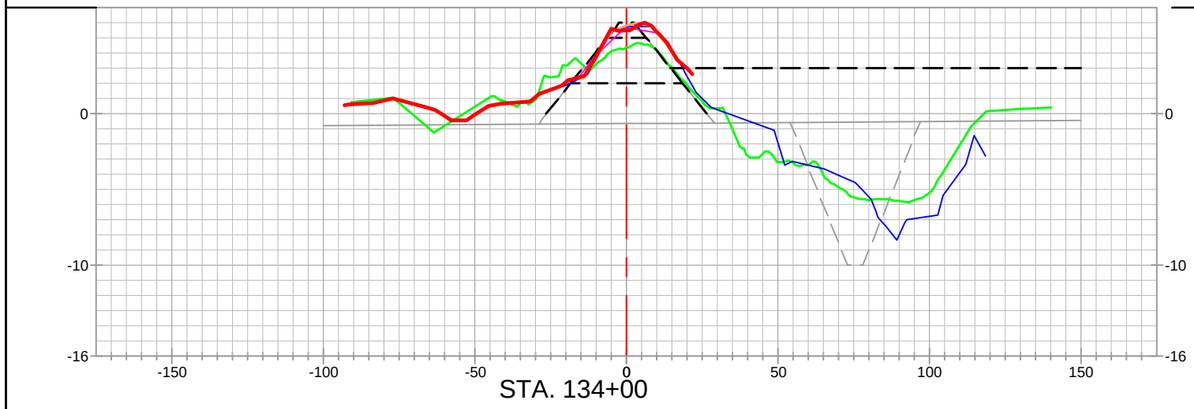

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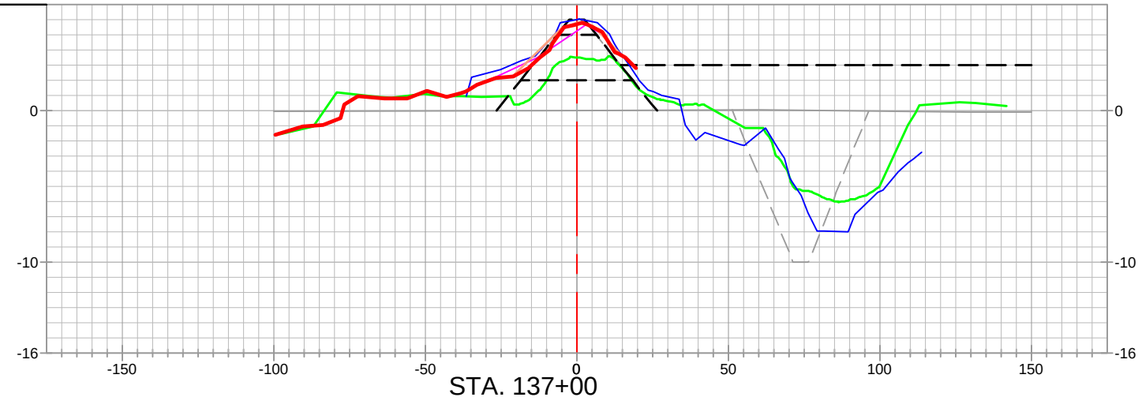
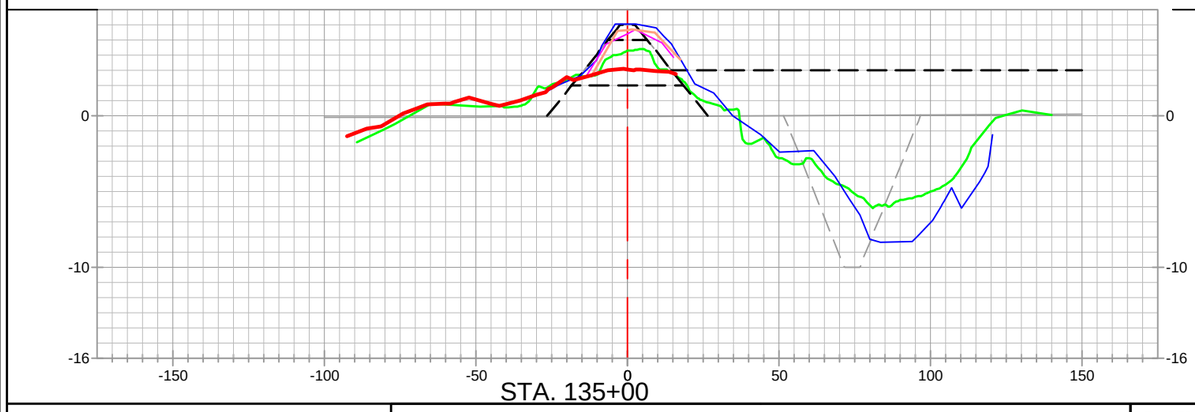
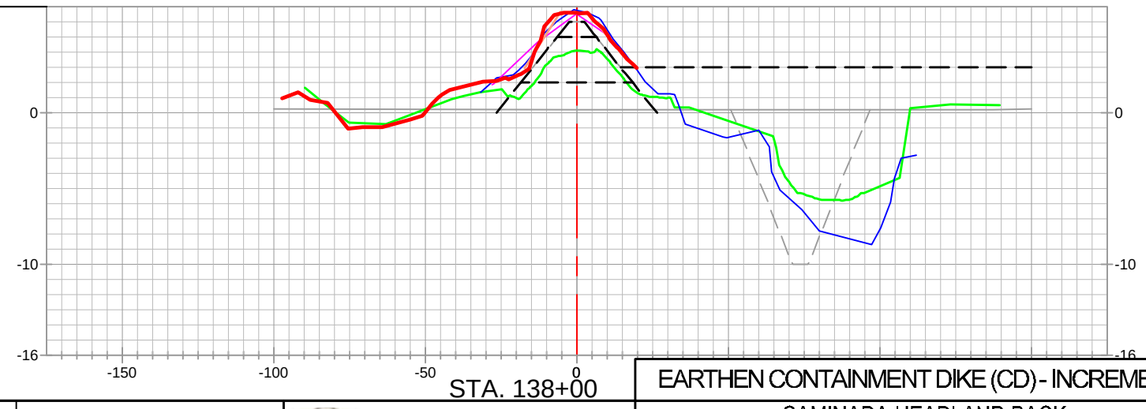


STA. 137+00



STA. 135+00



STA. 138+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

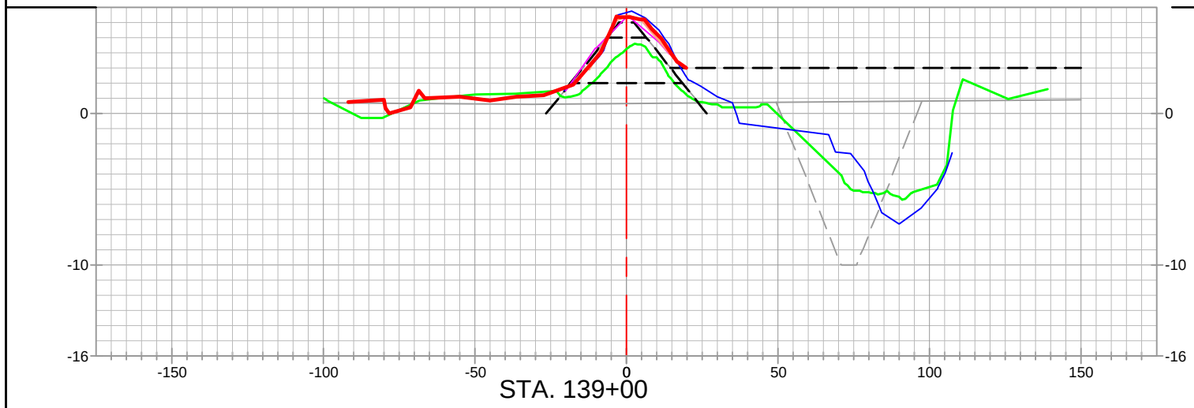
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

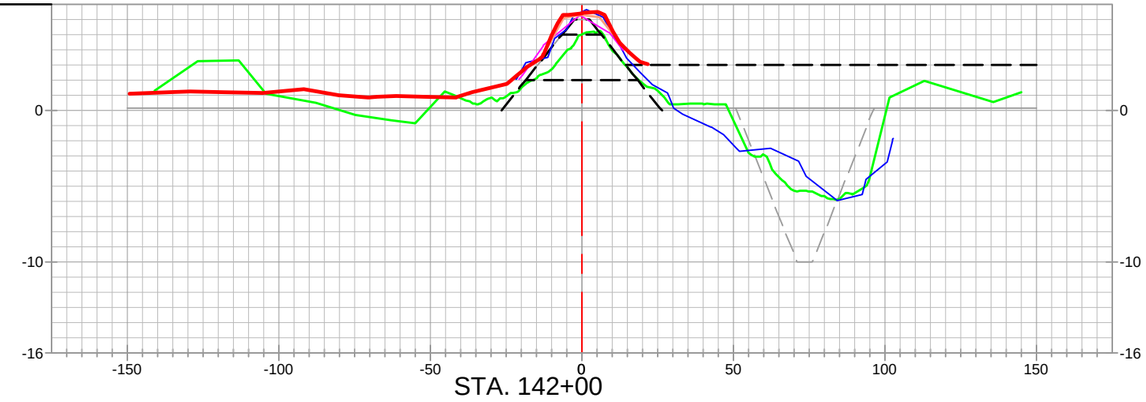
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 7 OF 28



STA. 139+00



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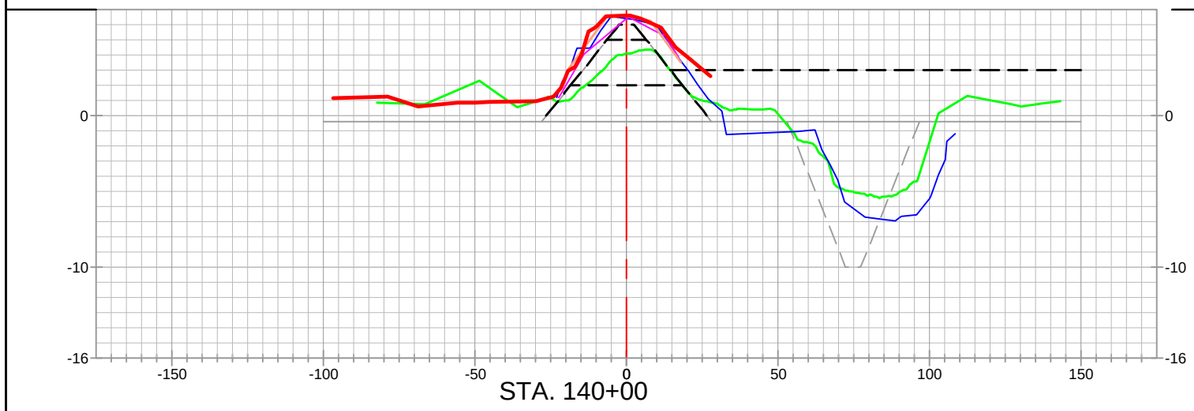
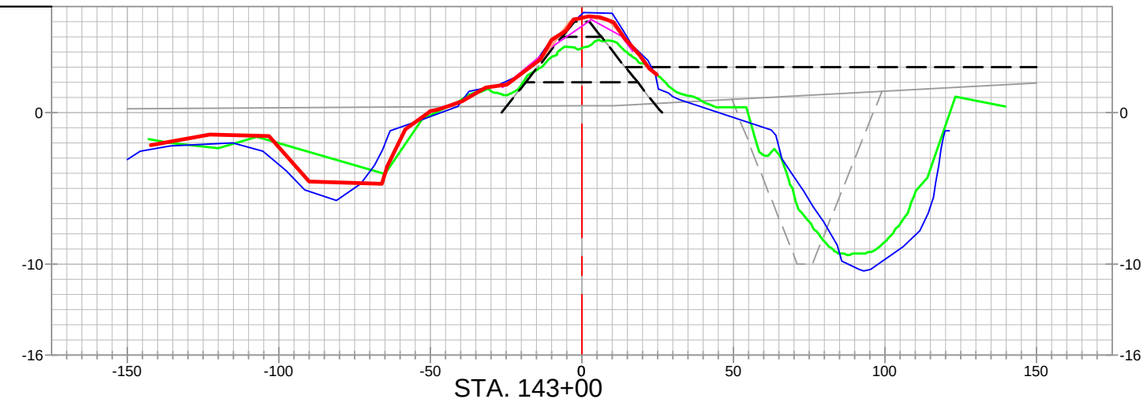
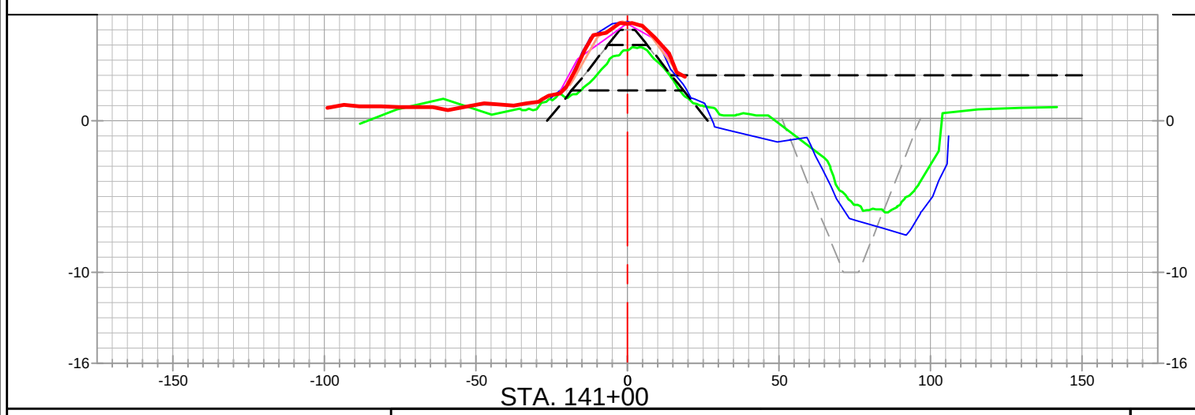


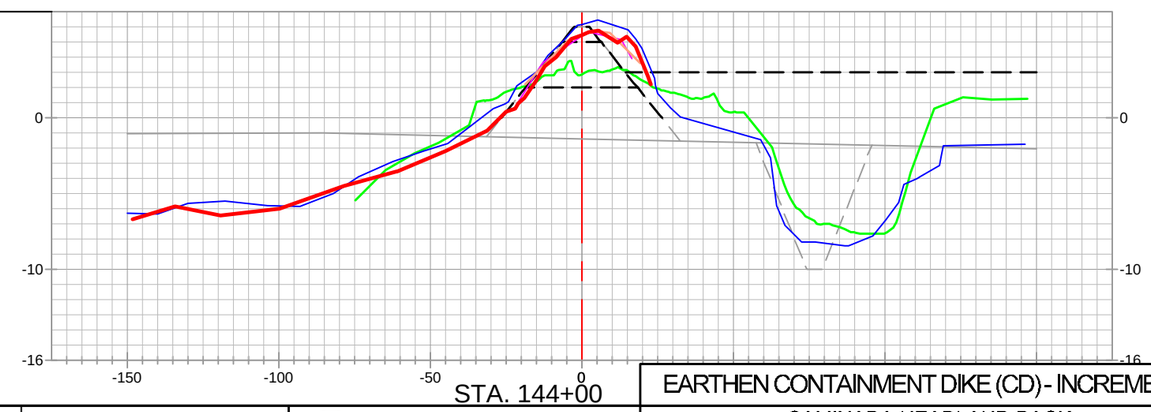
STA. 140+00



STA. 143+00



STA. 141+00



STA. 144+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

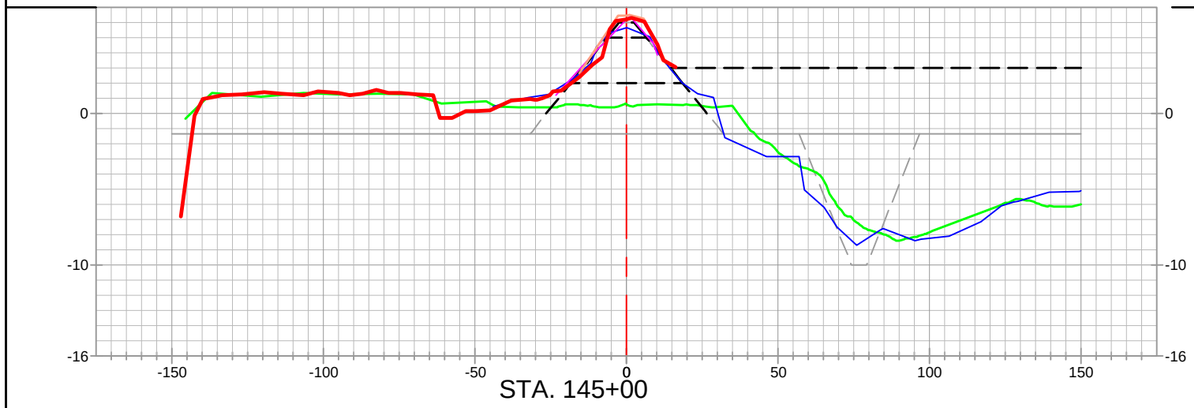
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

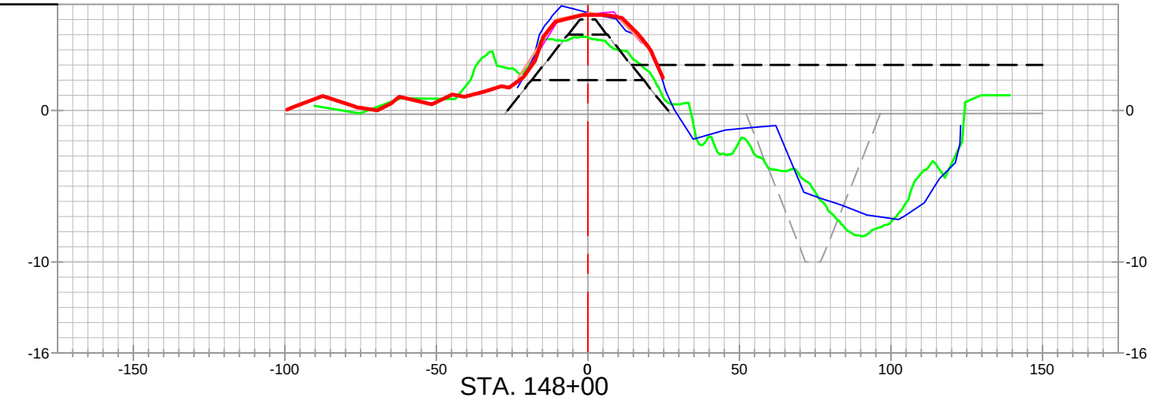
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

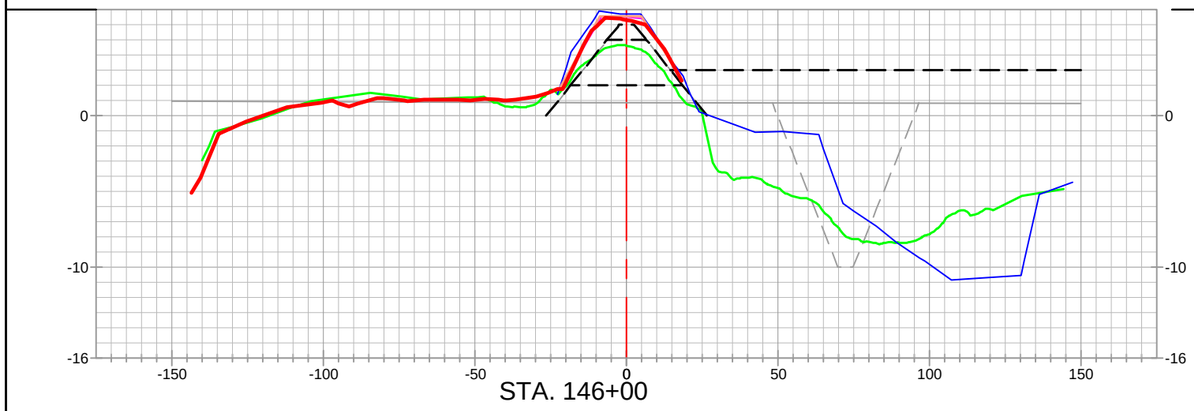
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 8 OF 28



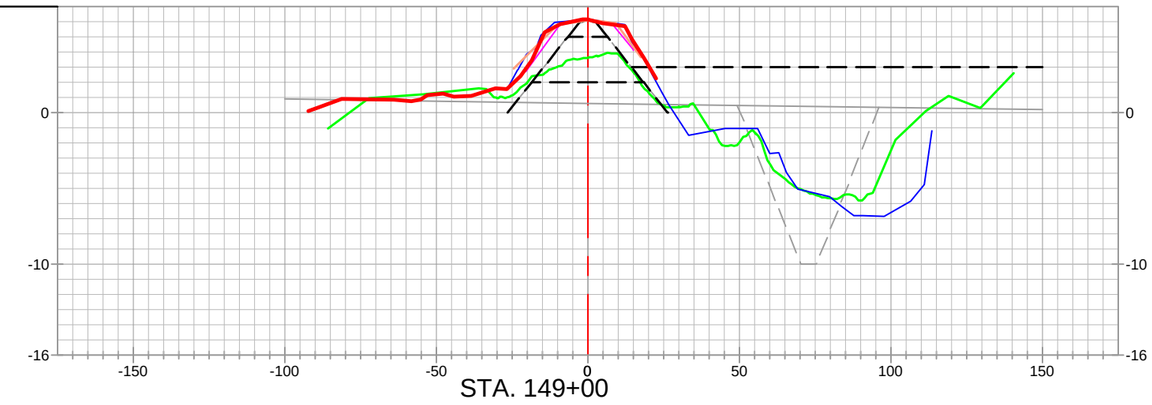
STA. 145+00



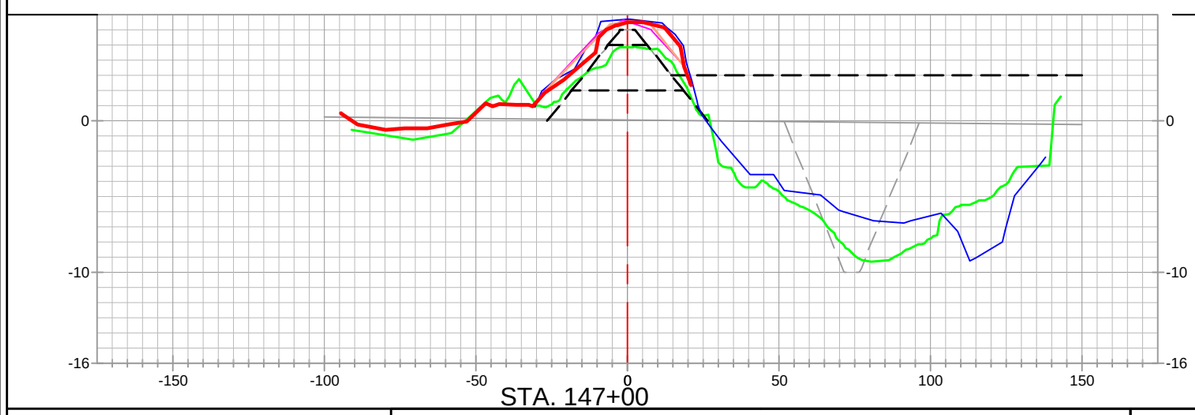
STA. 148+00



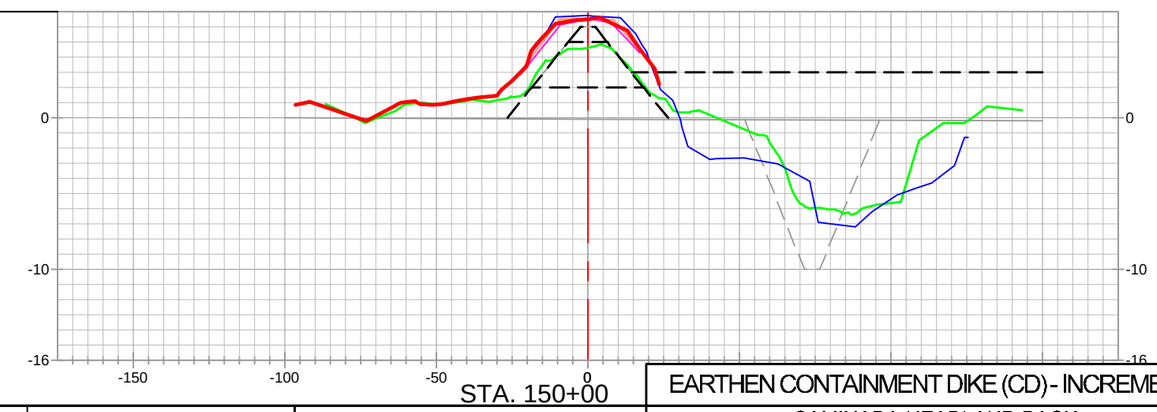
STA. 146+00



STA. 149+00



STA. 147+00



STA. 150+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
2/15/23

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

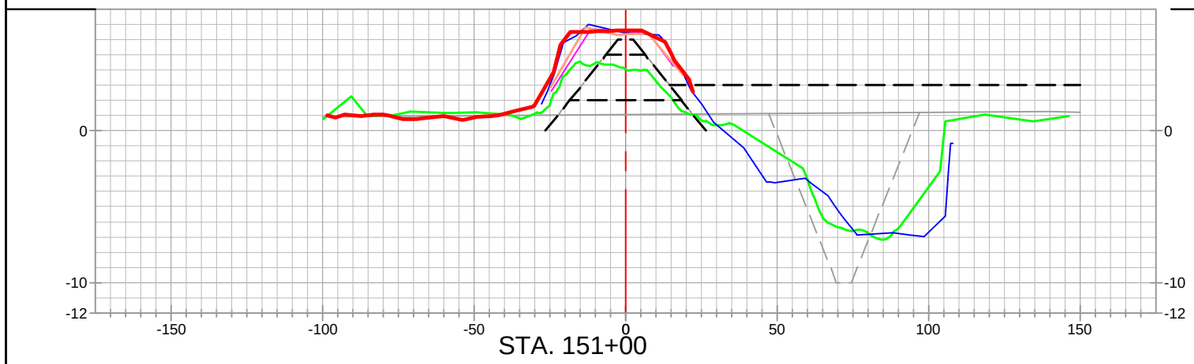
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

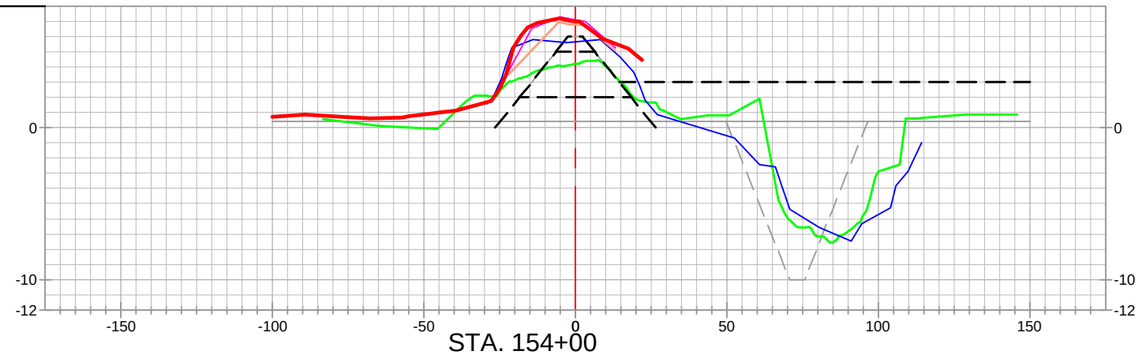
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

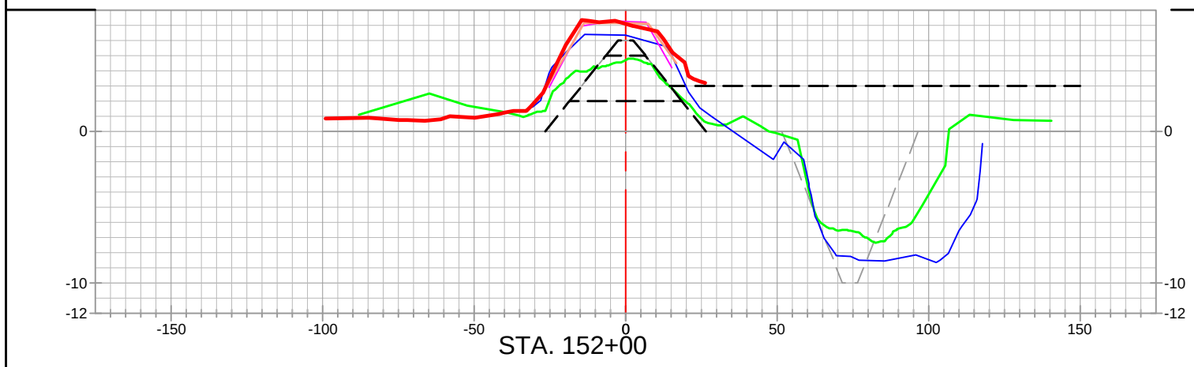
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 9 OF 28



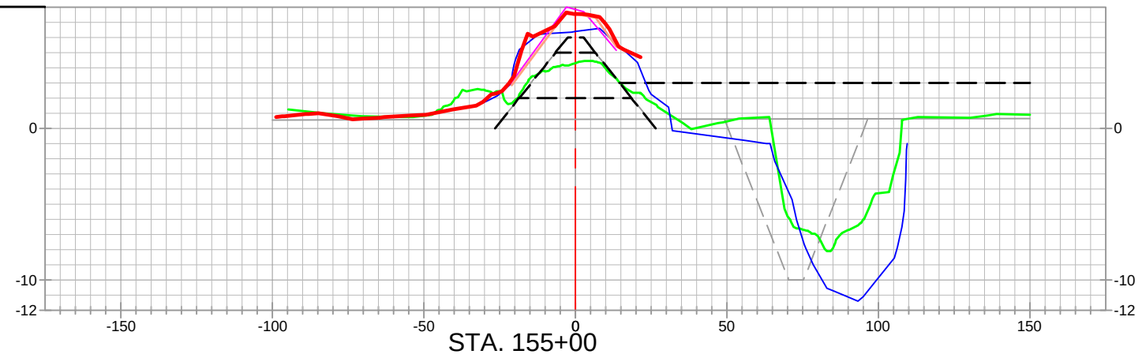
STA. 151+00



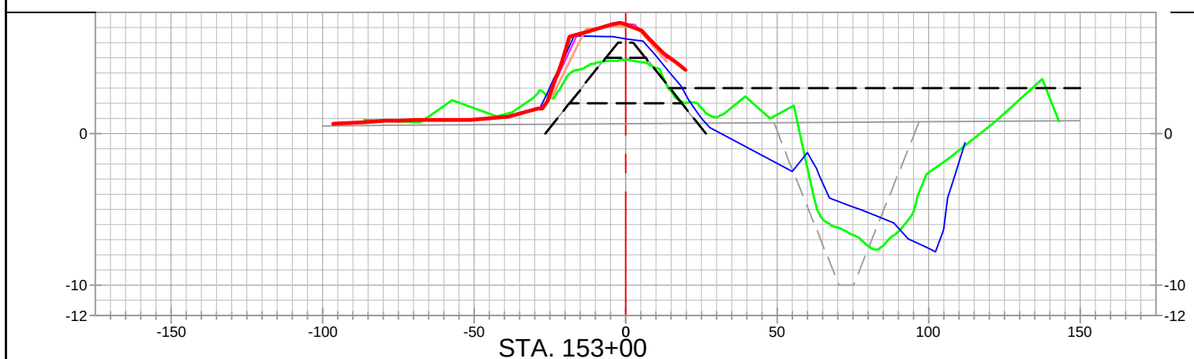
STA. 154+00



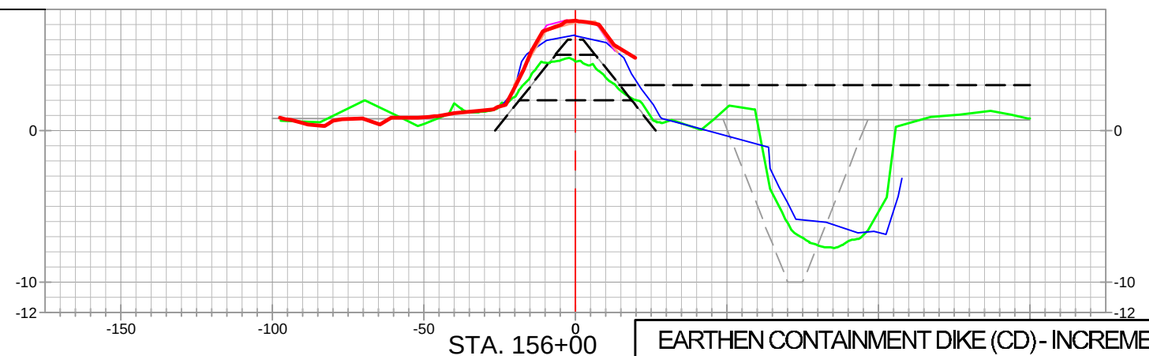
STA. 152+00



STA. 155+00



STA. 153+00



STA. 156+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

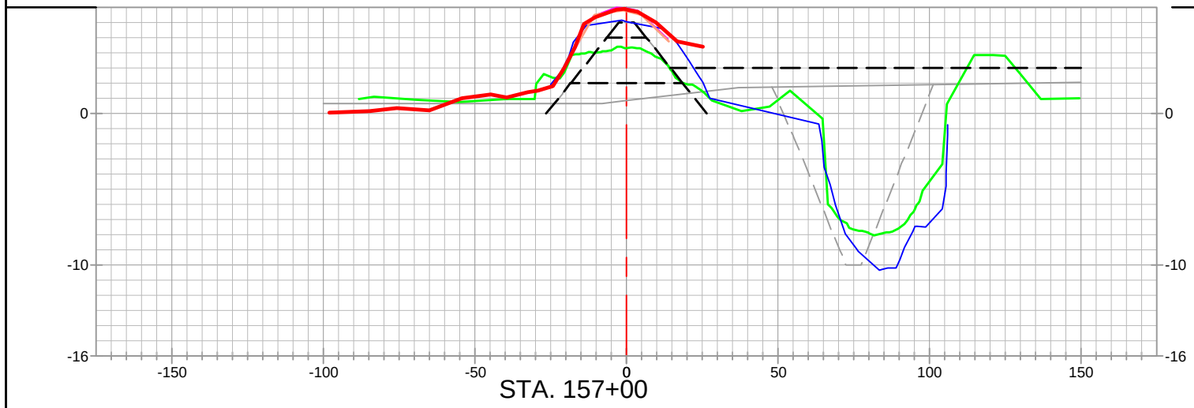
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

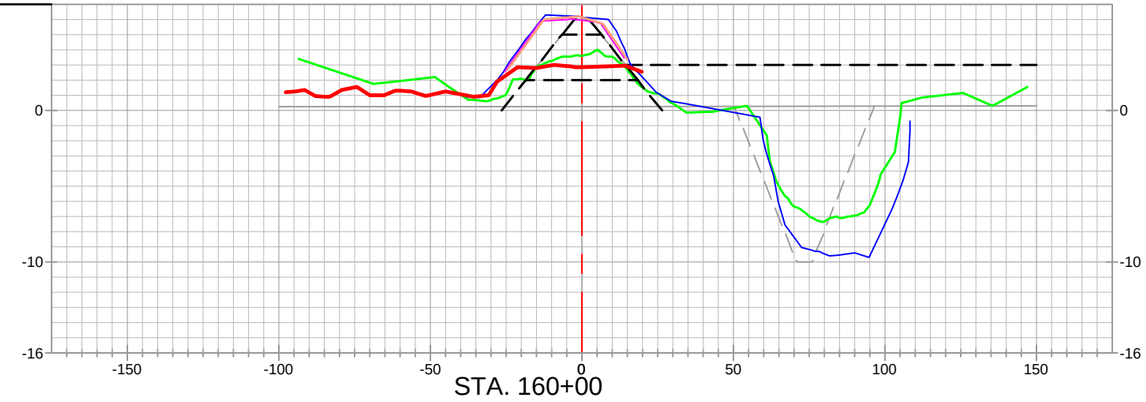
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

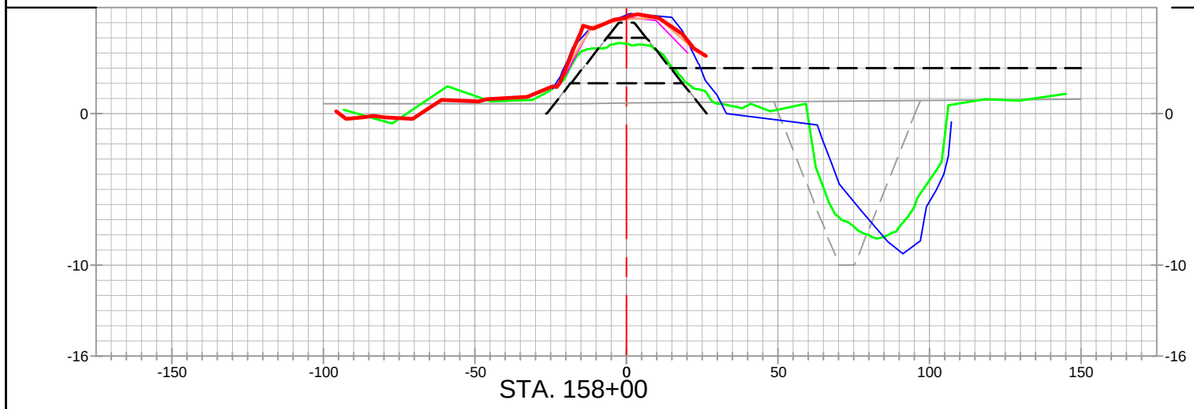
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 10 OF 28



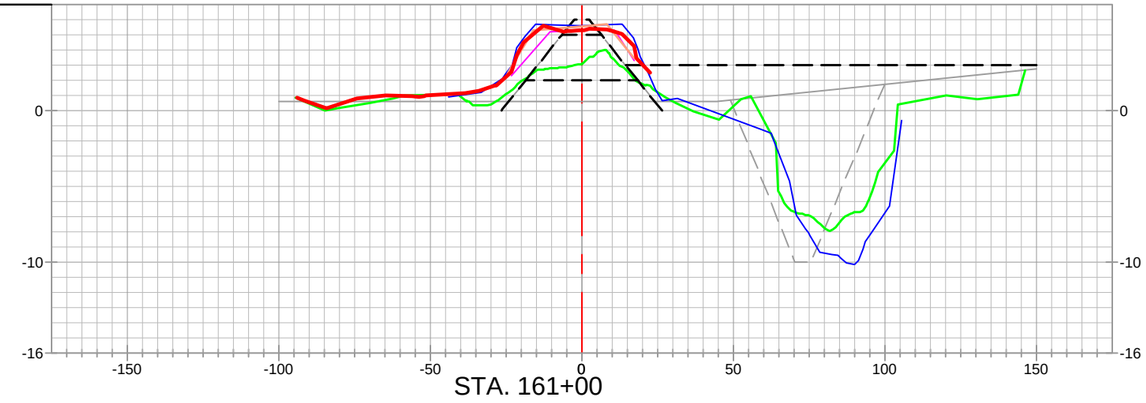
STA. 157+00



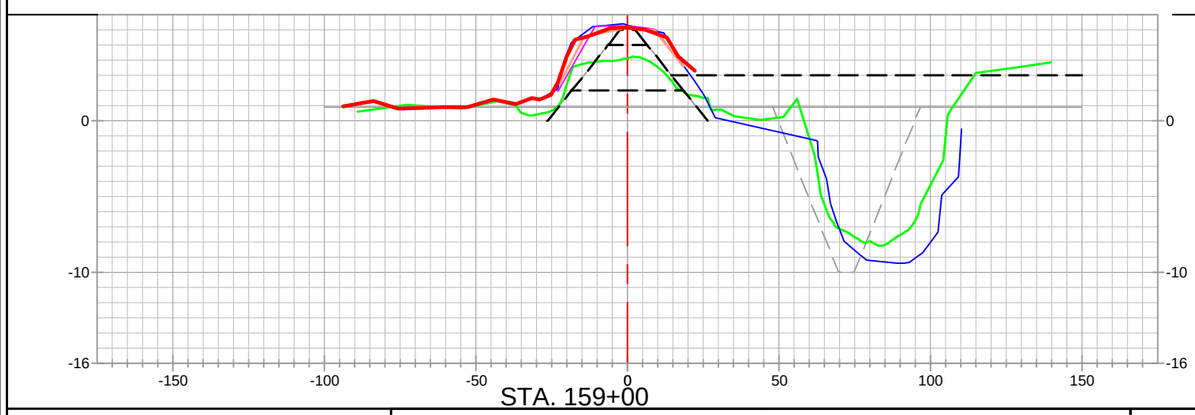
STA. 160+00



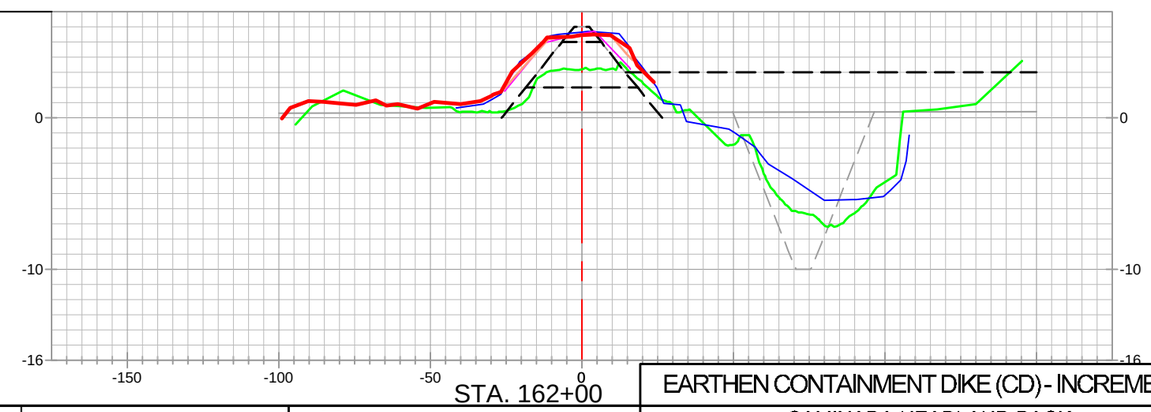
STA. 158+00



STA. 161+00



STA. 159+00



STA. 162+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

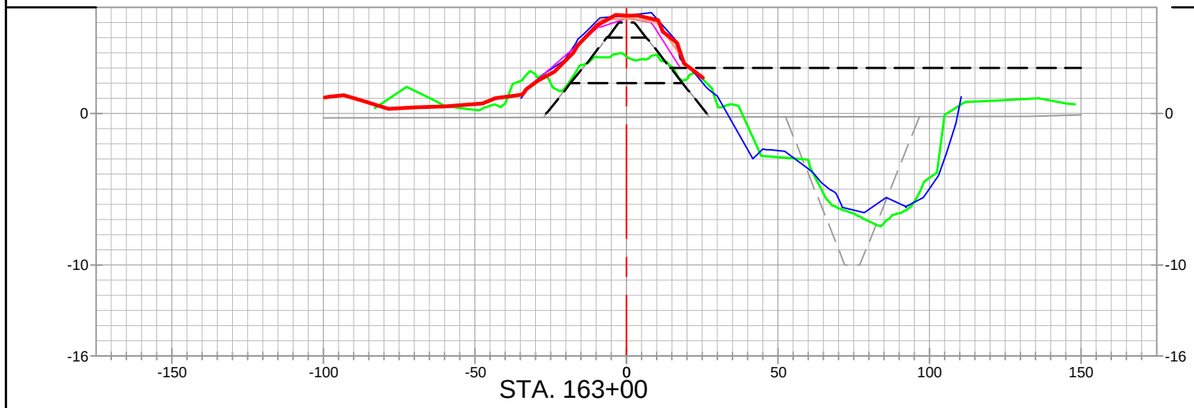
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

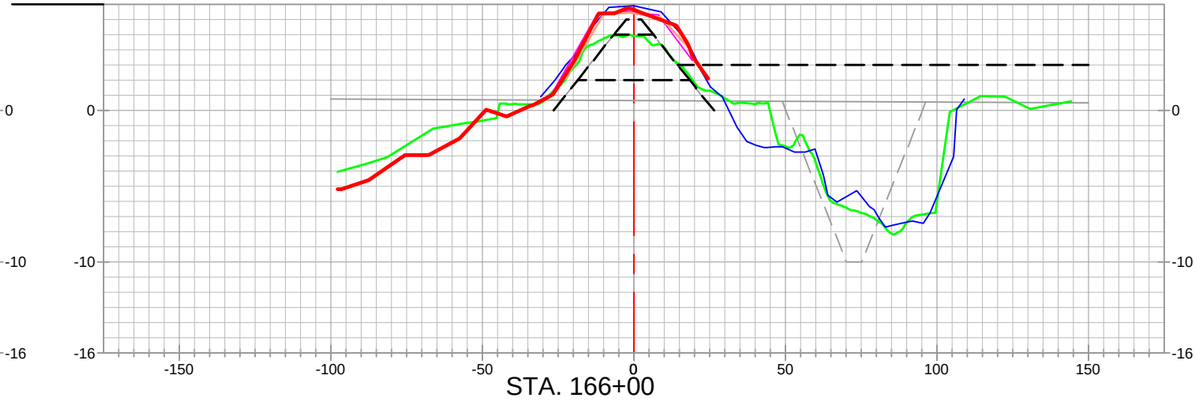
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

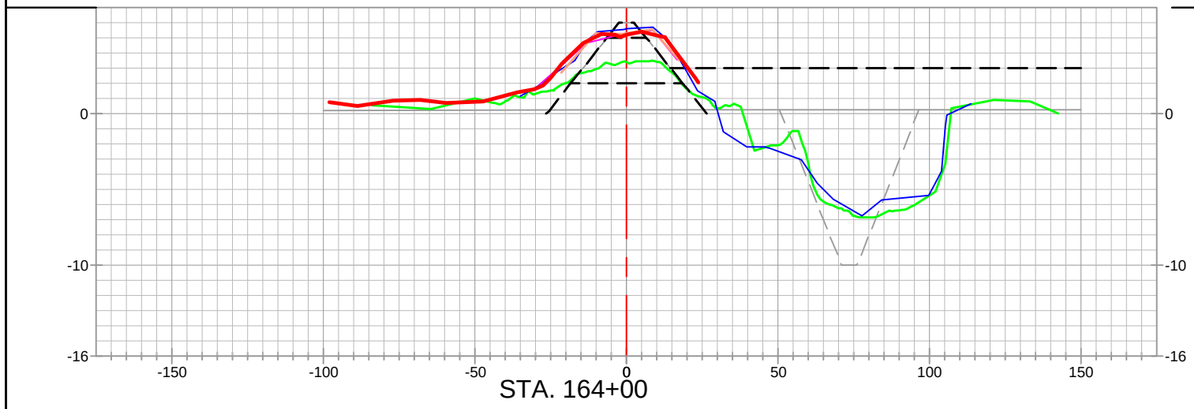
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 11 OF 28



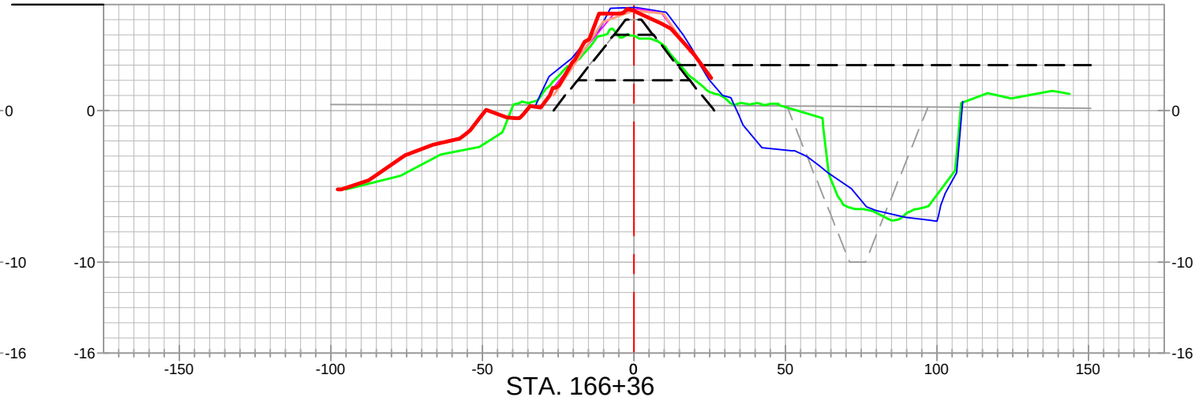
STA. 163+00



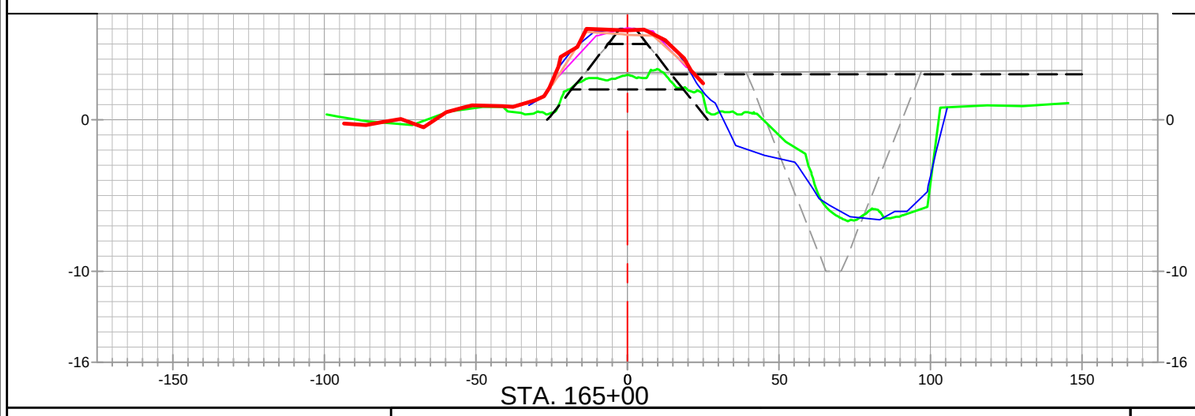
STA. 166+00



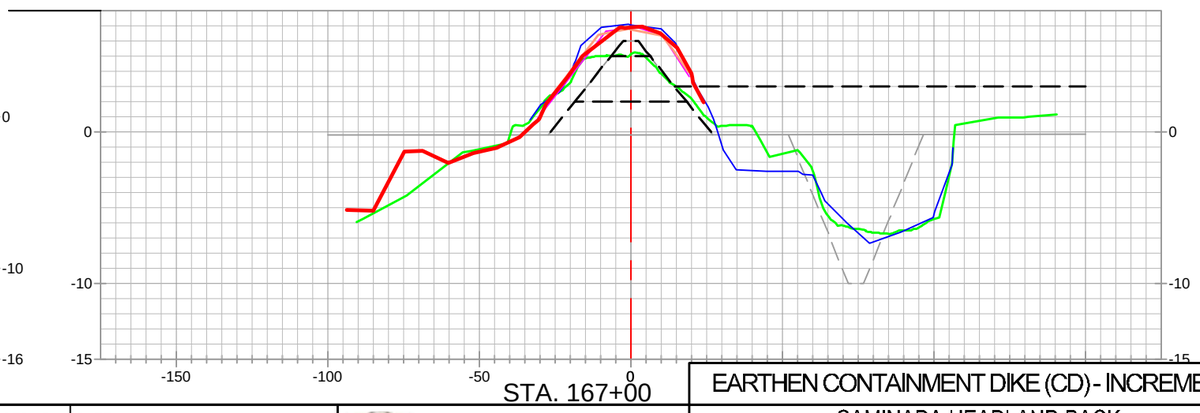
STA. 164+00



STA. 166+36



STA. 165+00



STA. 167+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

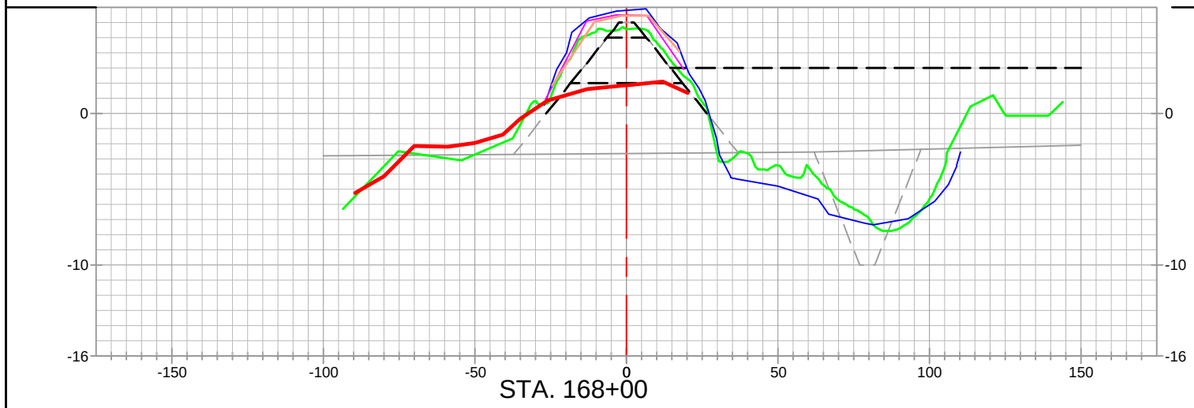
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

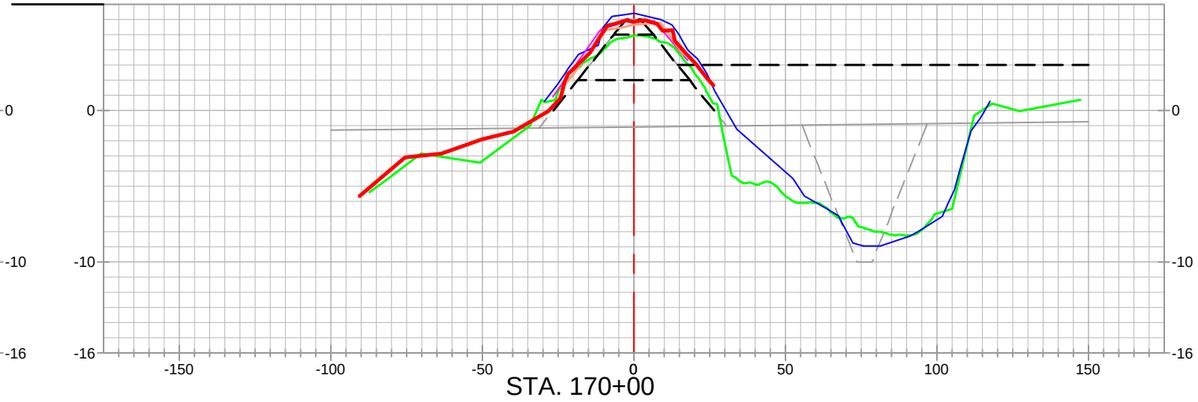
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

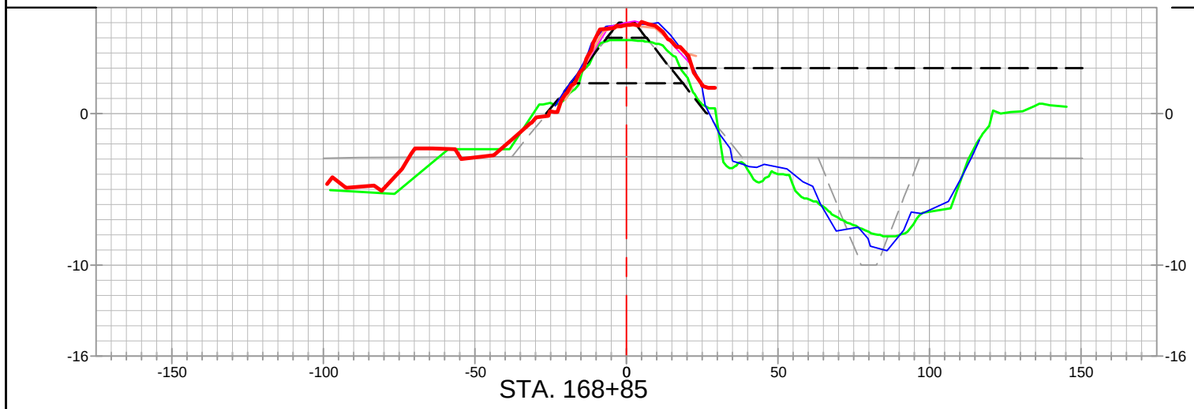
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 12 OF 28



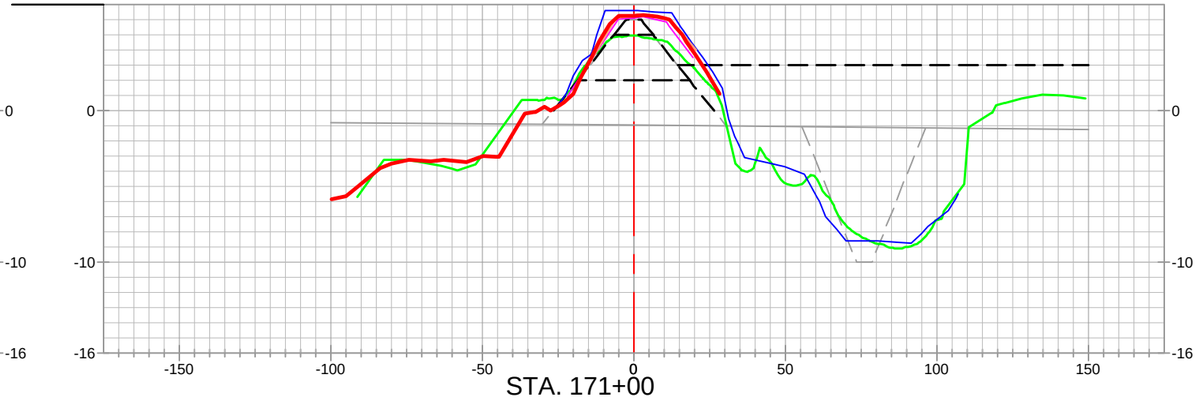
STA. 168+00



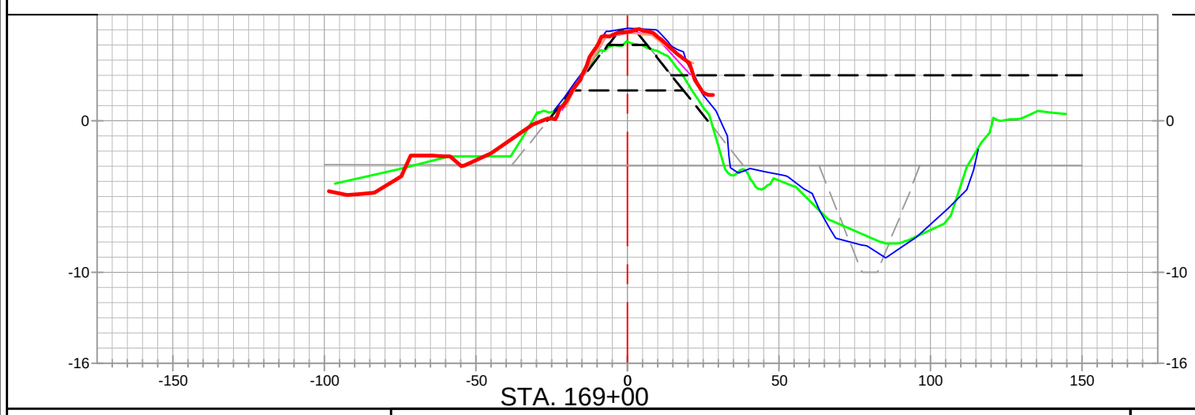
STA. 170+00



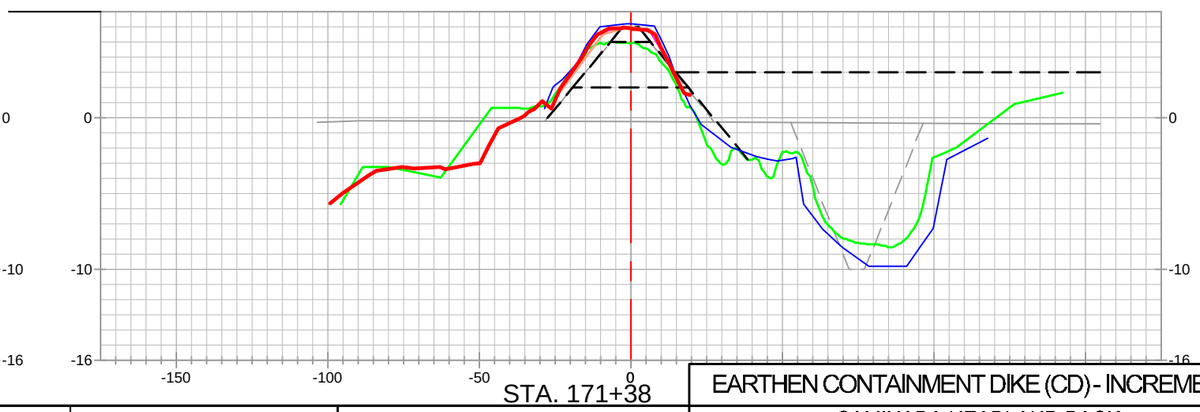
STA. 168+85



STA. 171+00



STA. 169+00



STA. 171+38

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

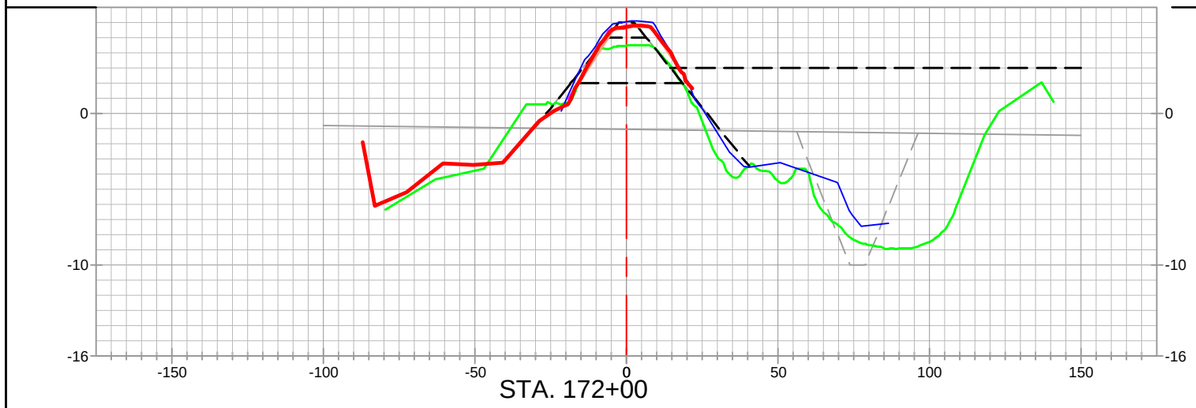
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

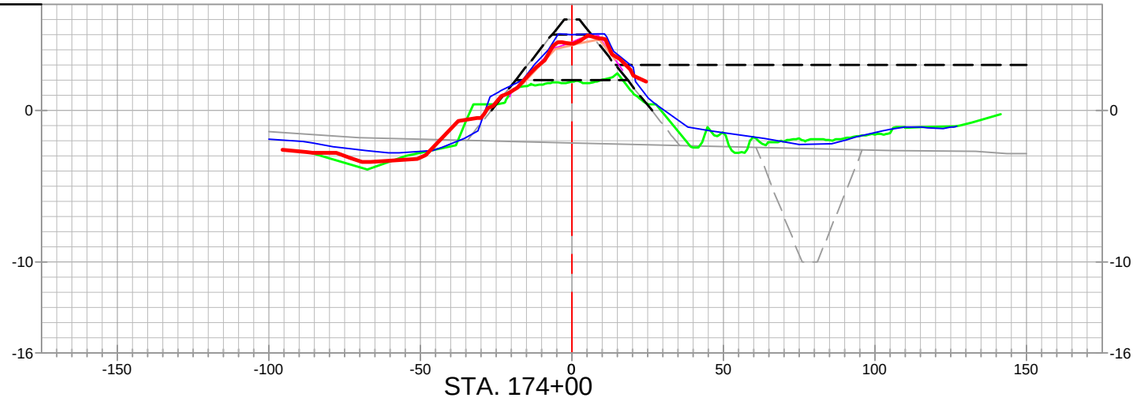
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 13 OF 28



STA. 172+00



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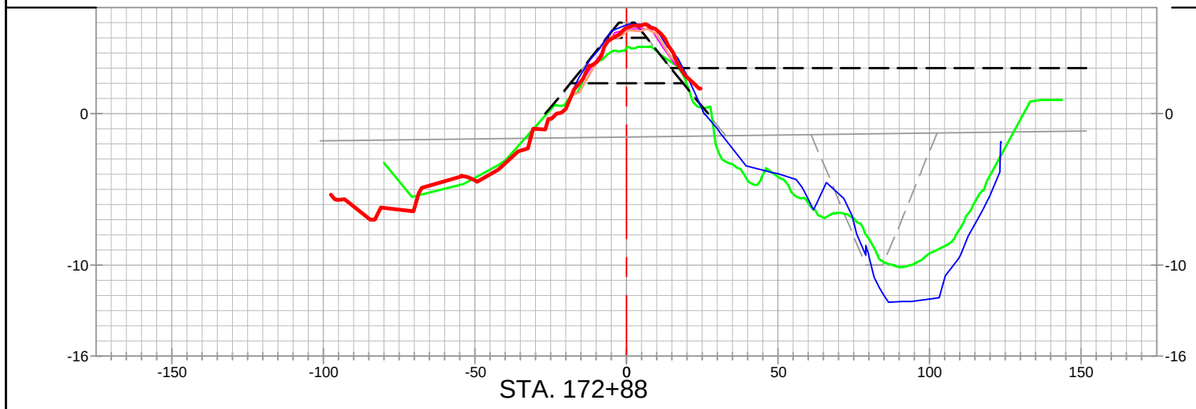
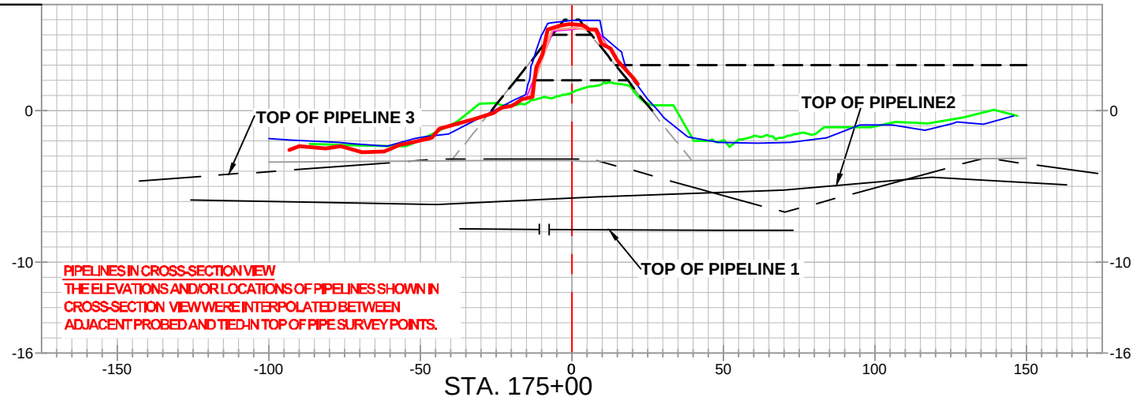
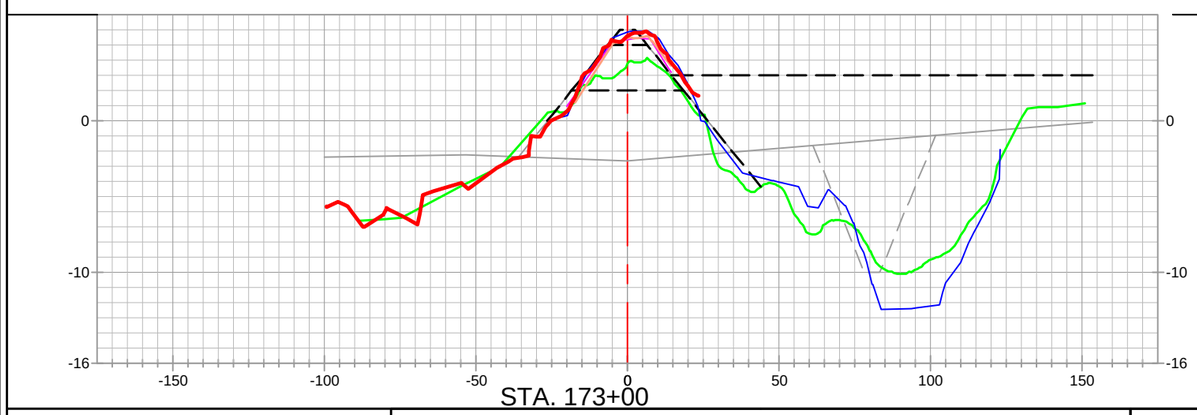


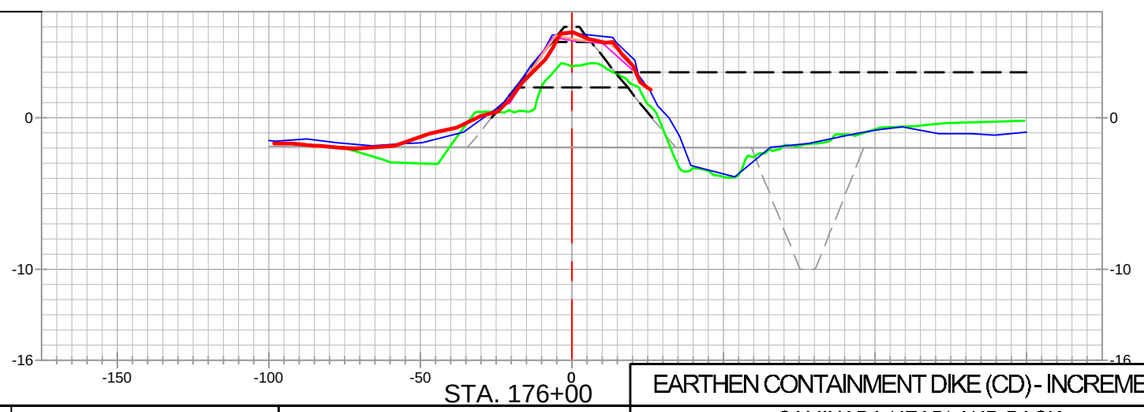
STA. 172+88



STA. 175+00



STA. 173+00



STA. 176+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

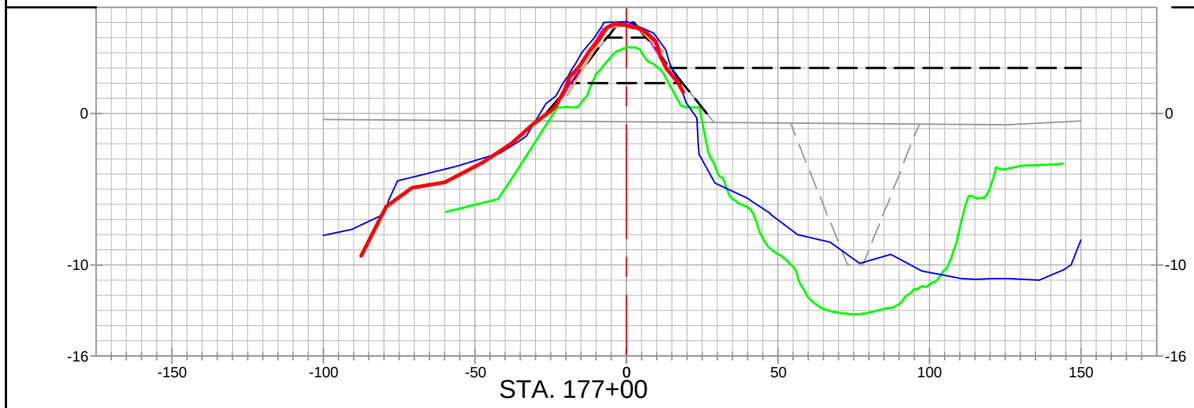
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

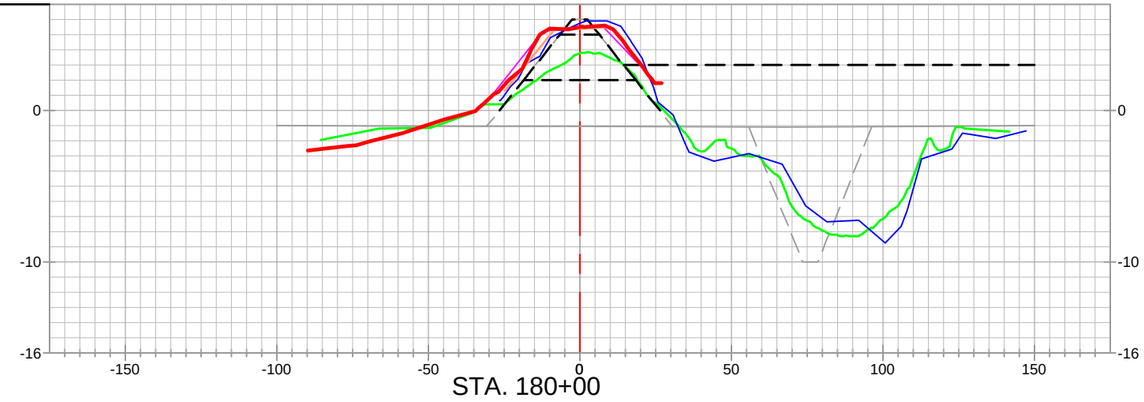
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

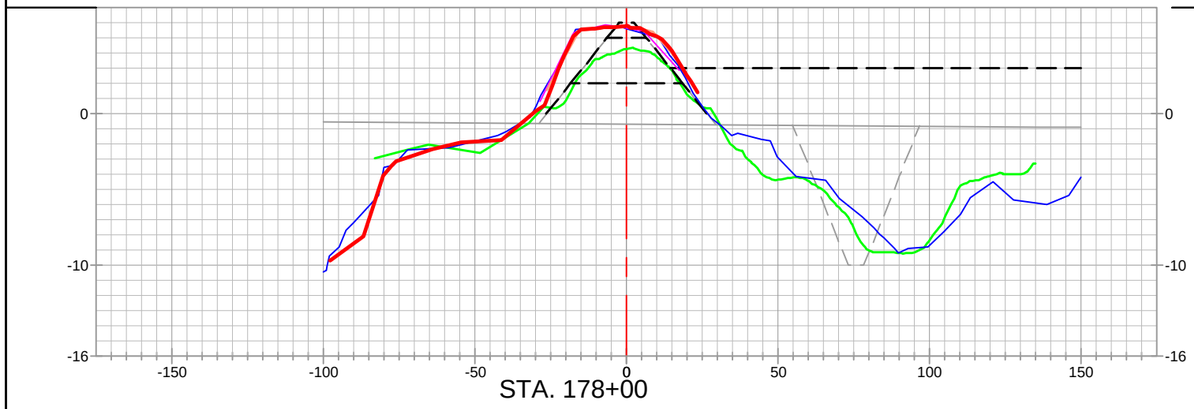
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 14 OF 28



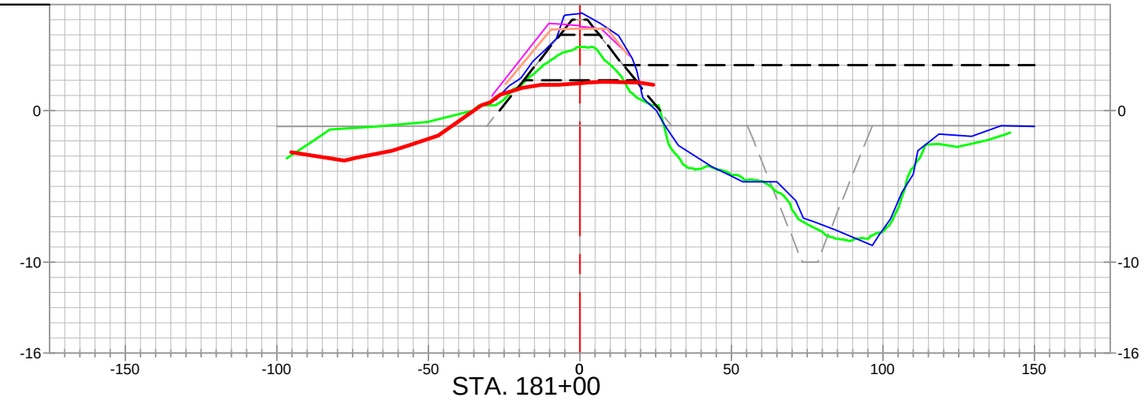
STA. 177+00



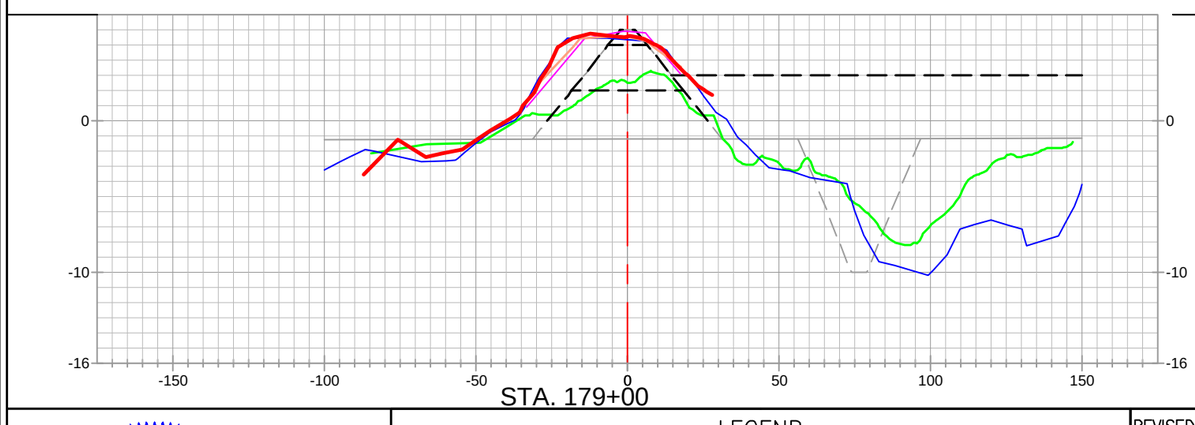
STA. 180+00



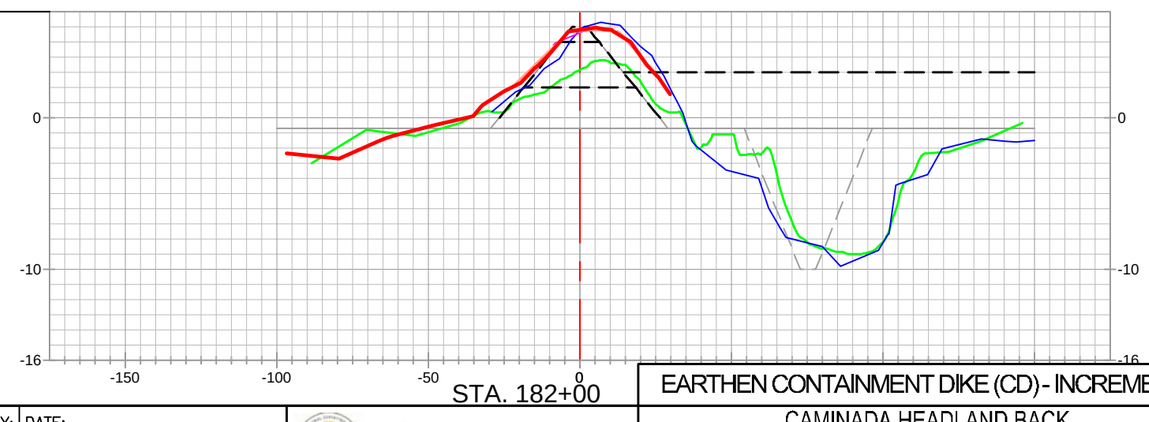
STA. 178+00



STA. 181+00



STA. 179+00



STA. 182+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

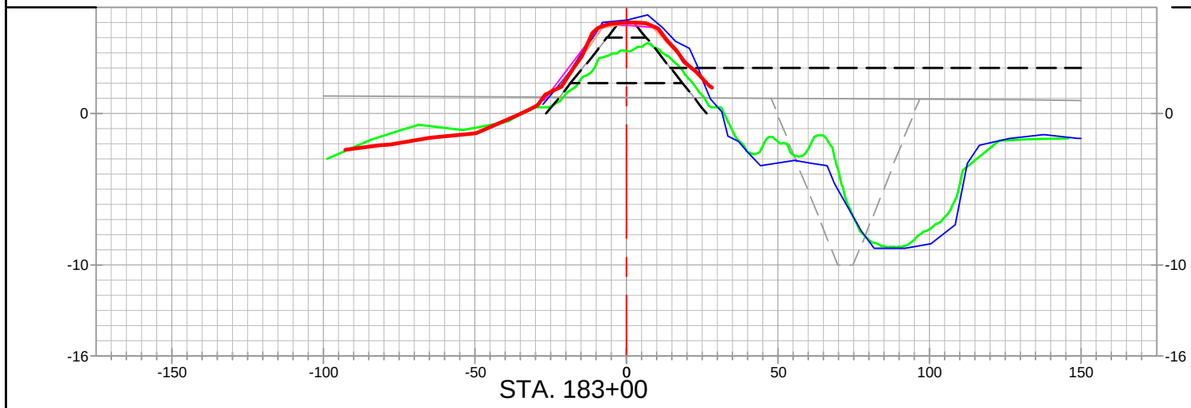
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

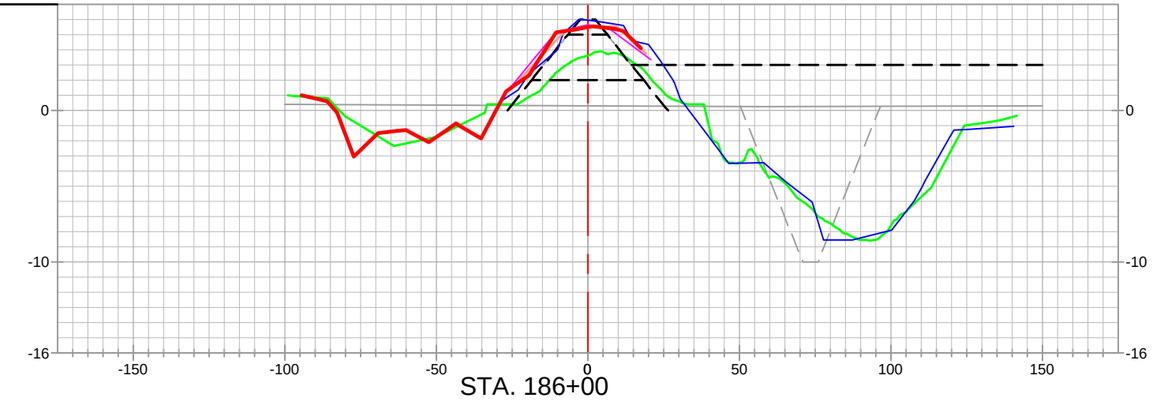
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

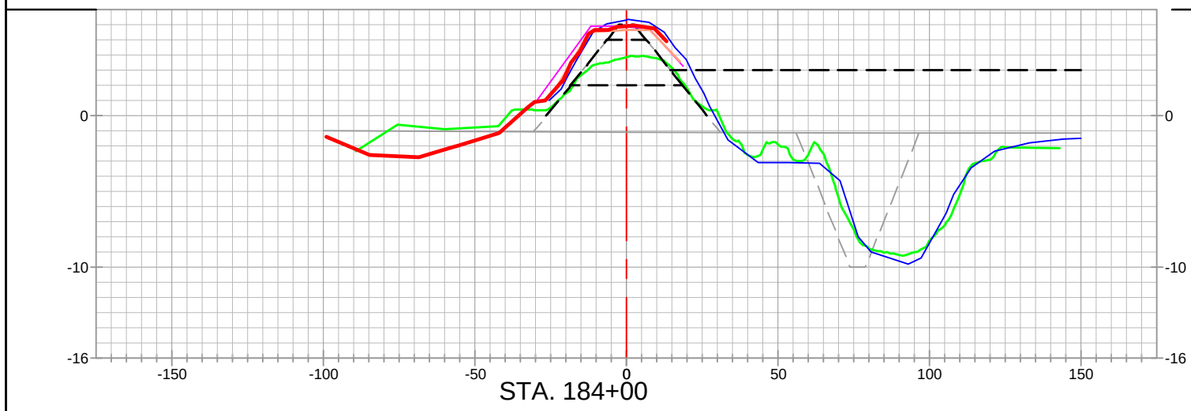
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 15 OF 28



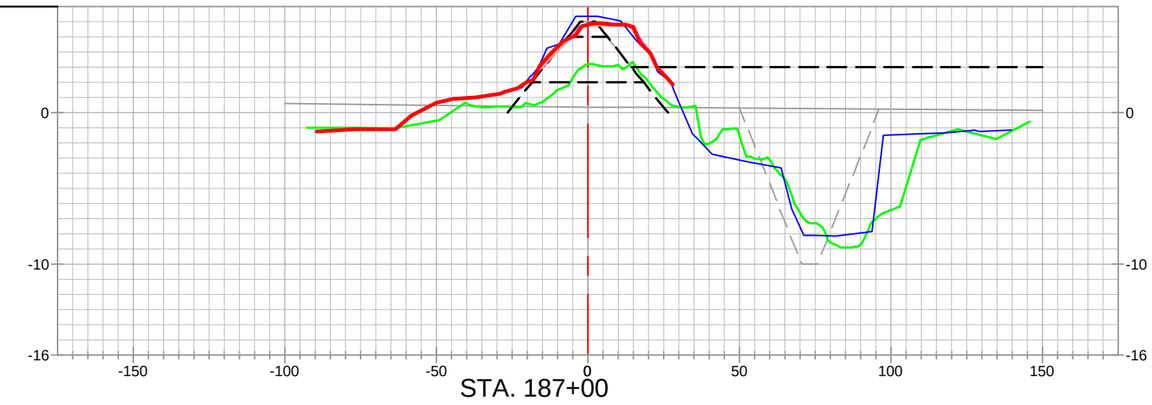
STA. 183+00



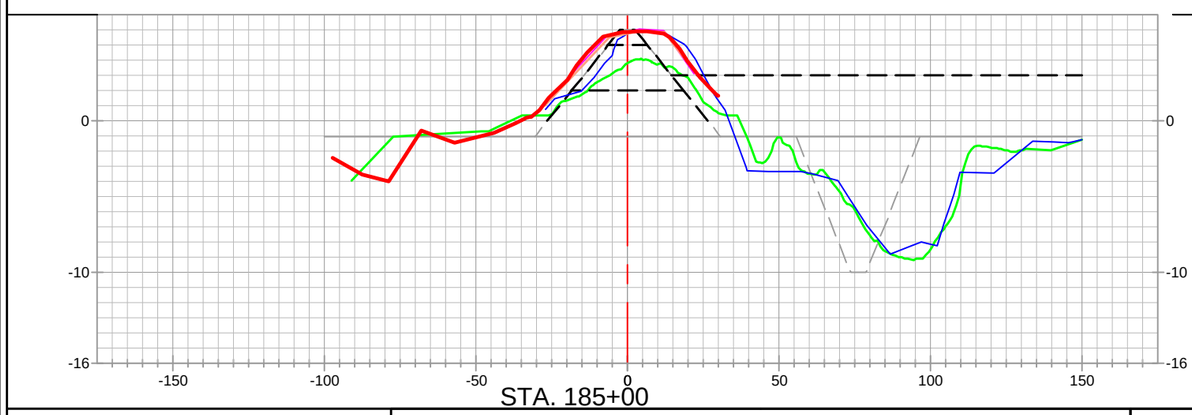
STA. 186+00



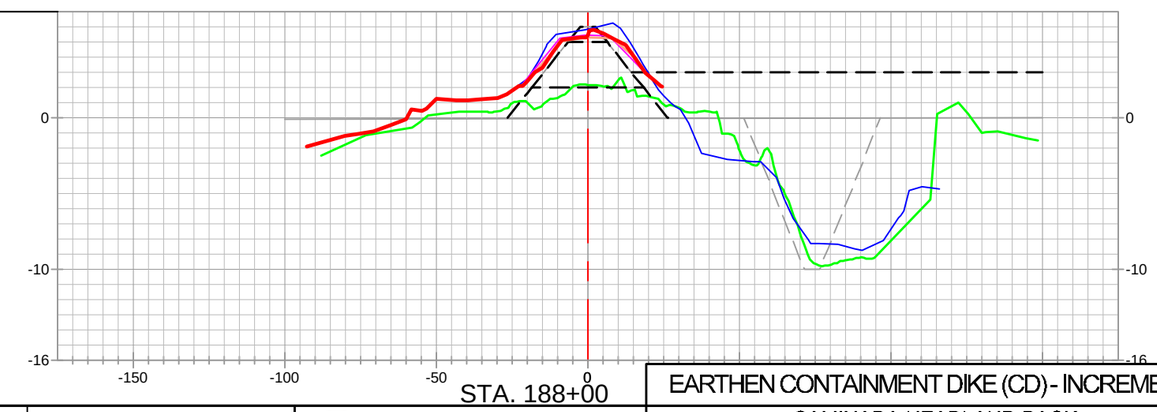
STA. 184+00



STA. 187+00



STA. 185+00



STA. 188+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

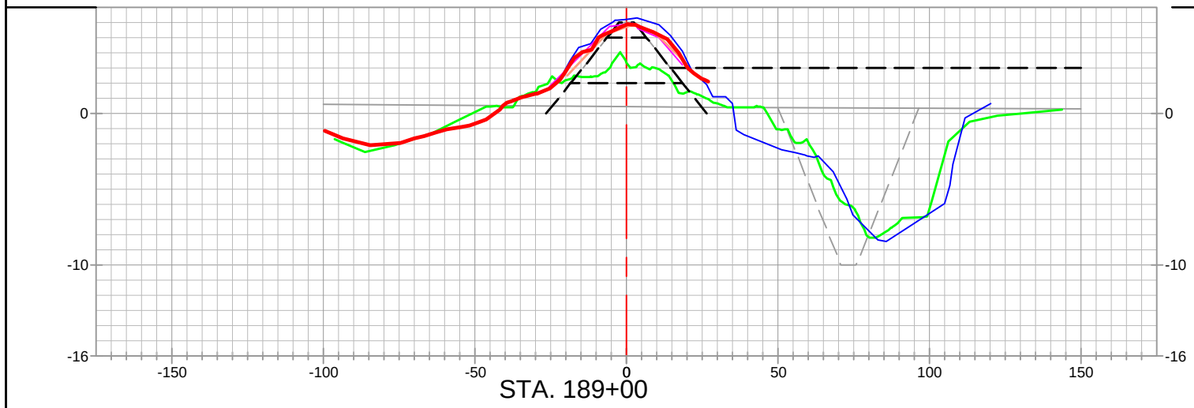
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

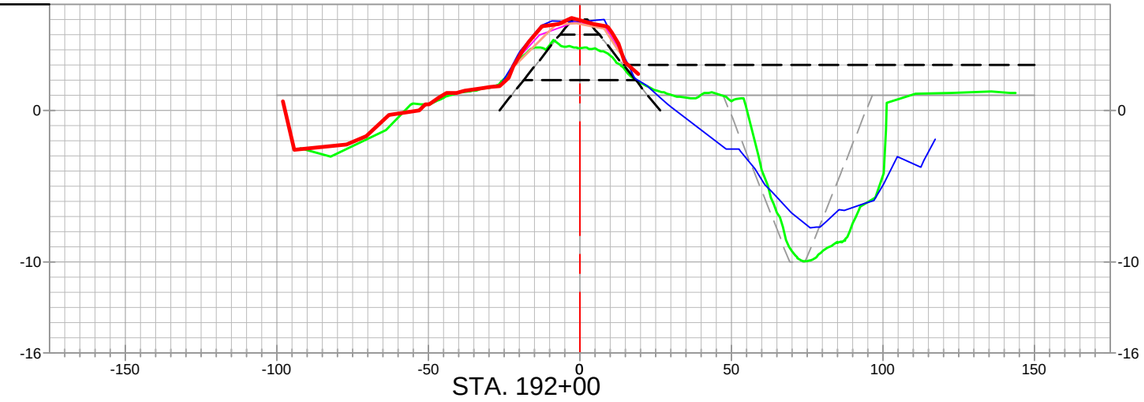
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

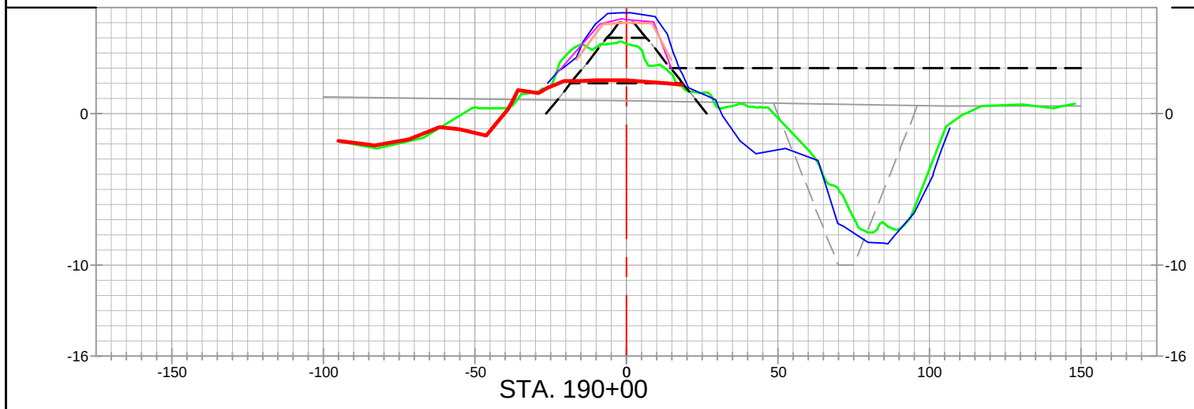
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 16 OF 28



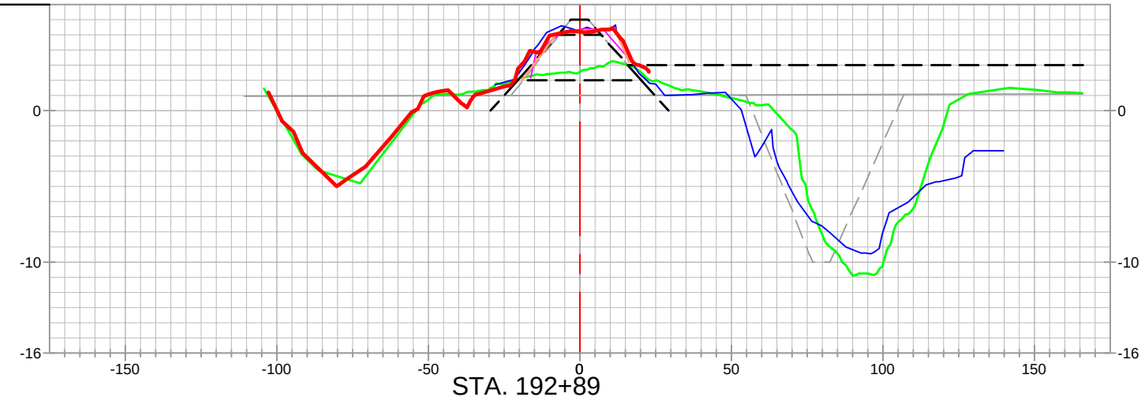
STA. 189+00



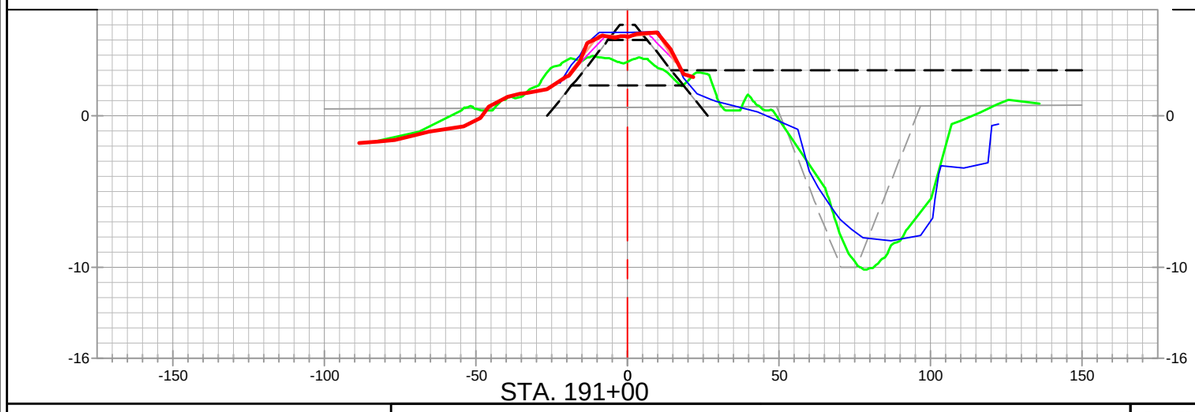
STA. 192+00



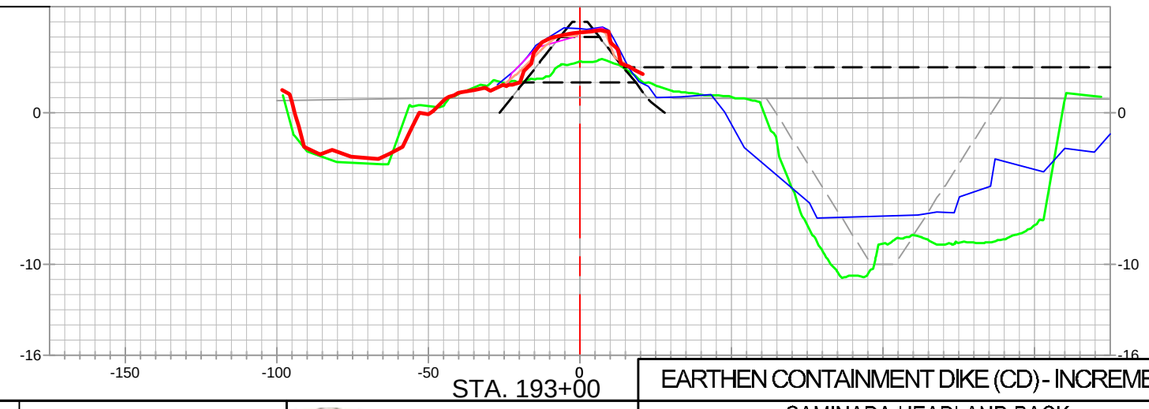
STA. 190+00



STA. 192+89



STA. 191+00



STA. 193+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
2/15/23

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

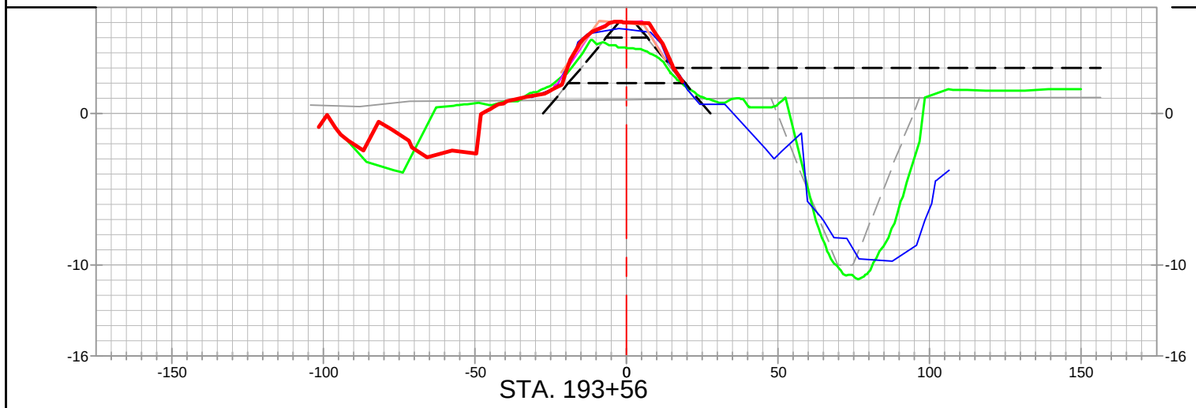
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

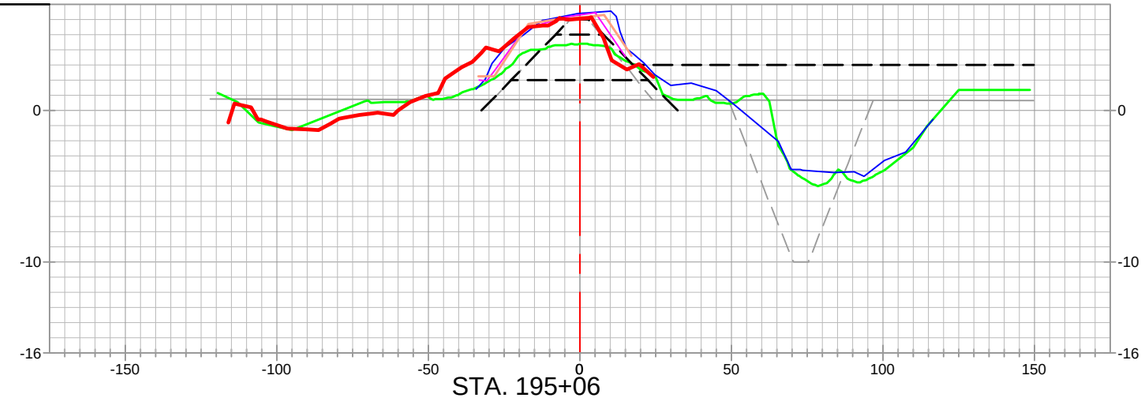
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

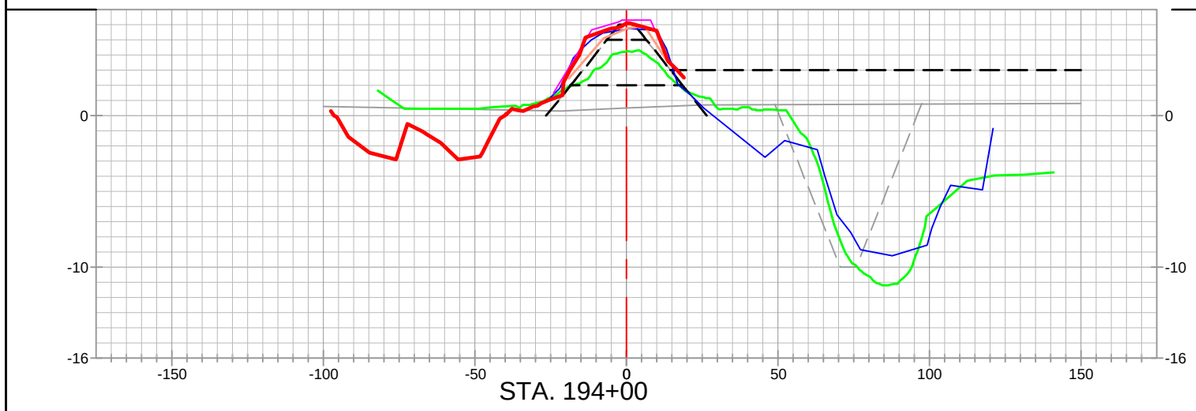
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 17 OF 28



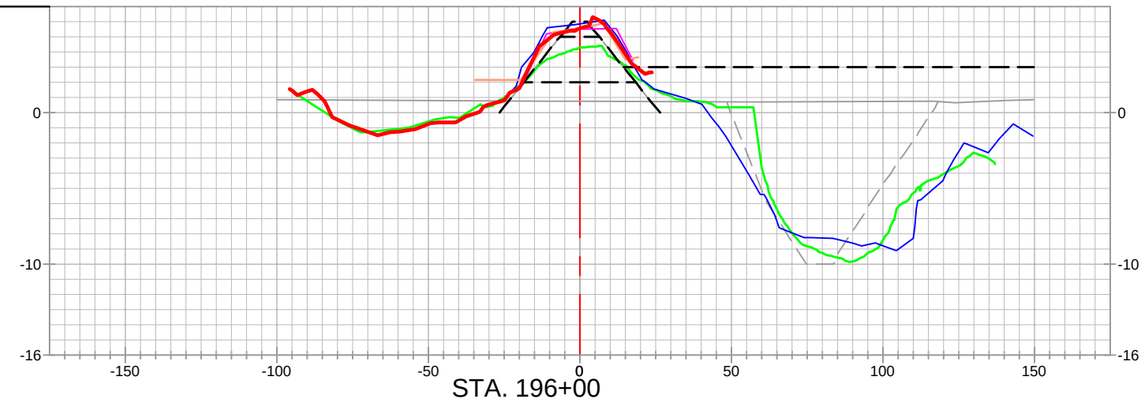
STA. 193+56



STA. 195+06



STA. 194+00



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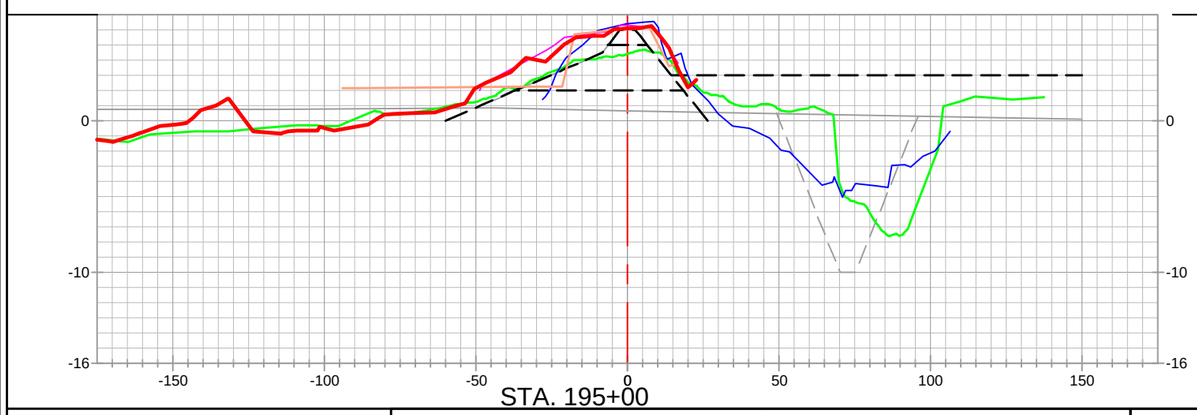
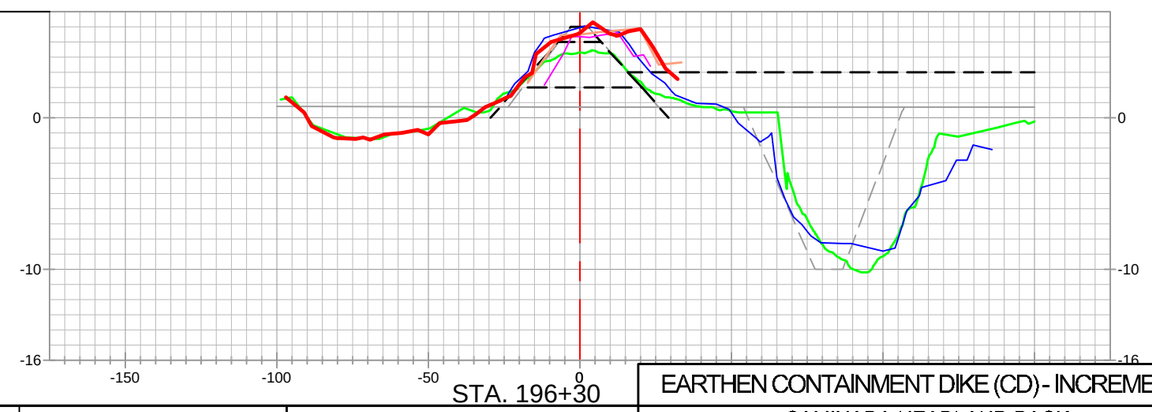


STA. 195+00



STA. 196+30

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

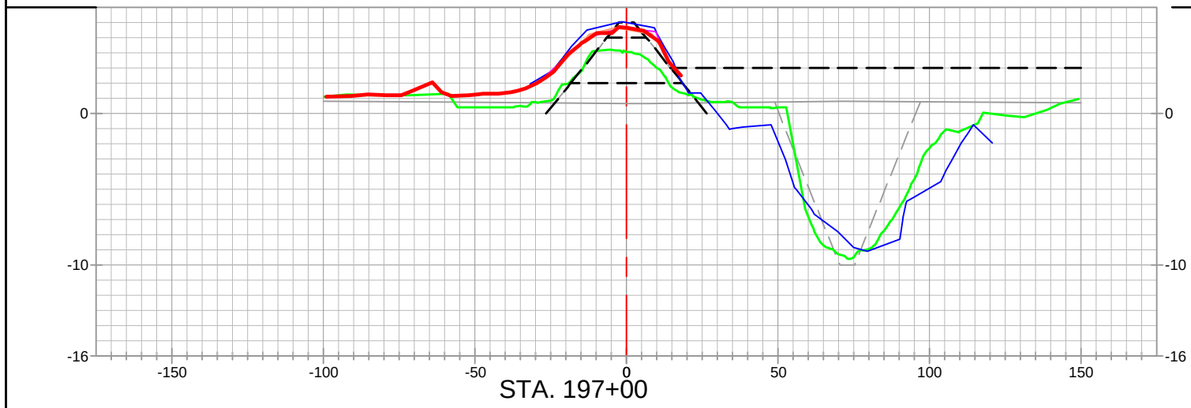
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

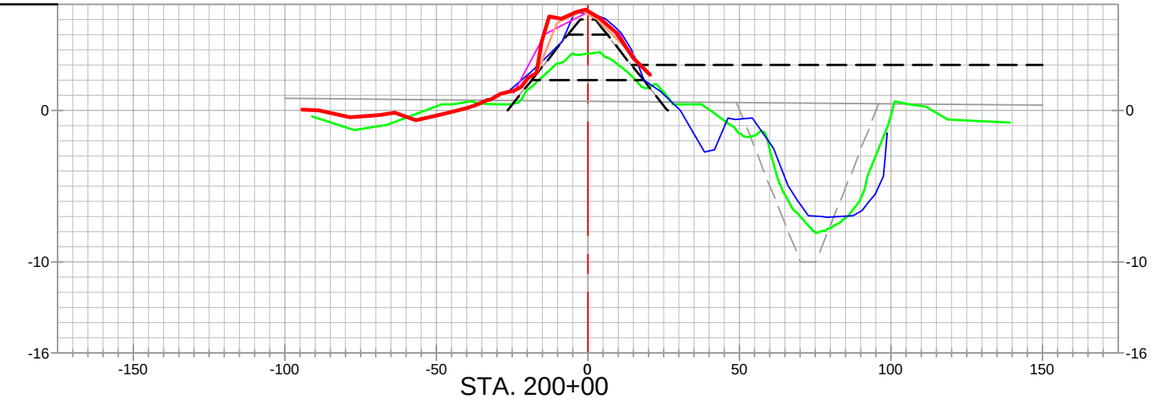
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

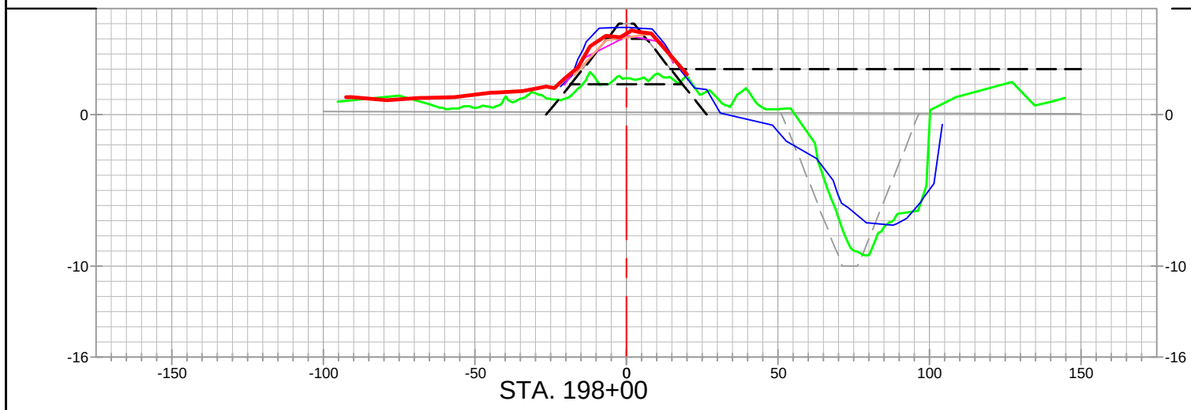
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 18 OF 28



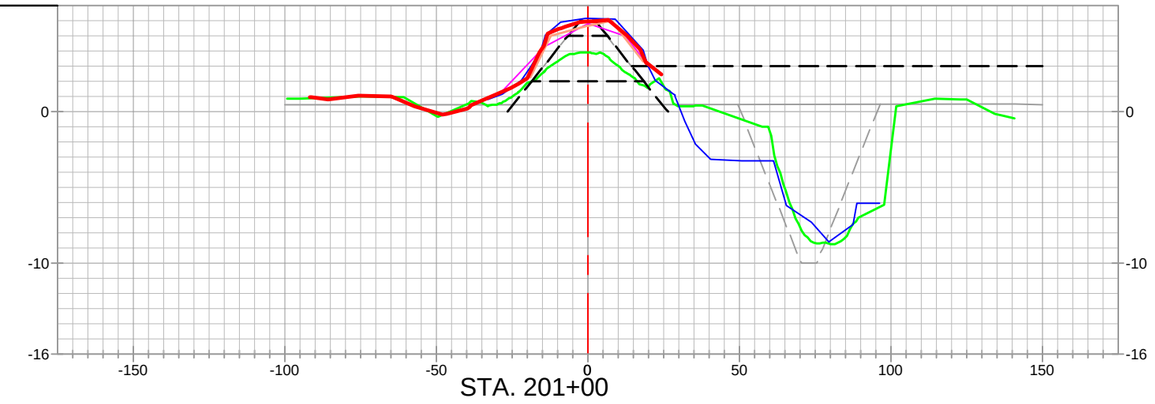
STA. 197+00



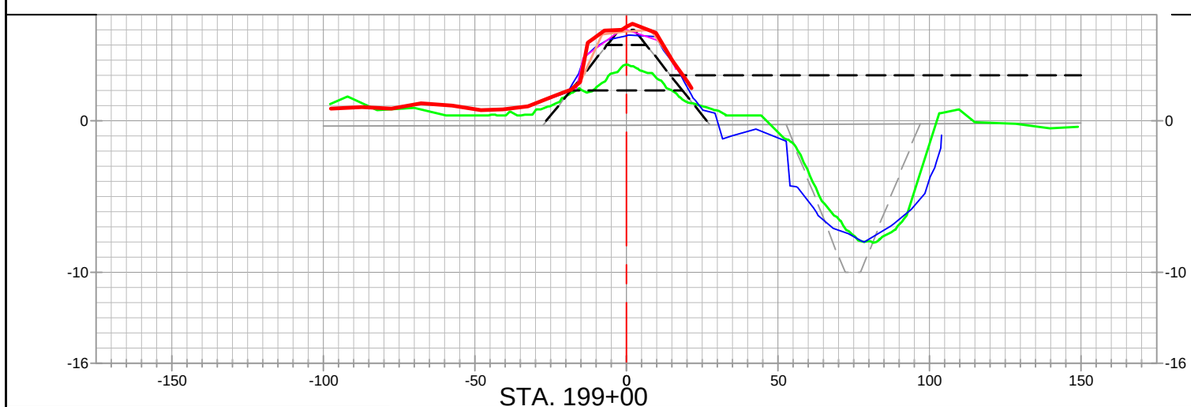
STA. 200+00



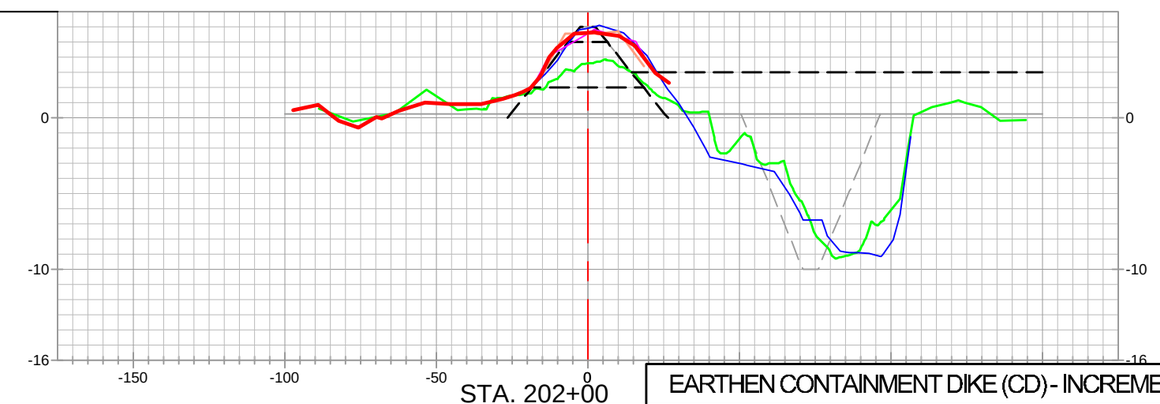
STA. 198+00



STA. 201+00



STA. 199+00



STA. 202+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

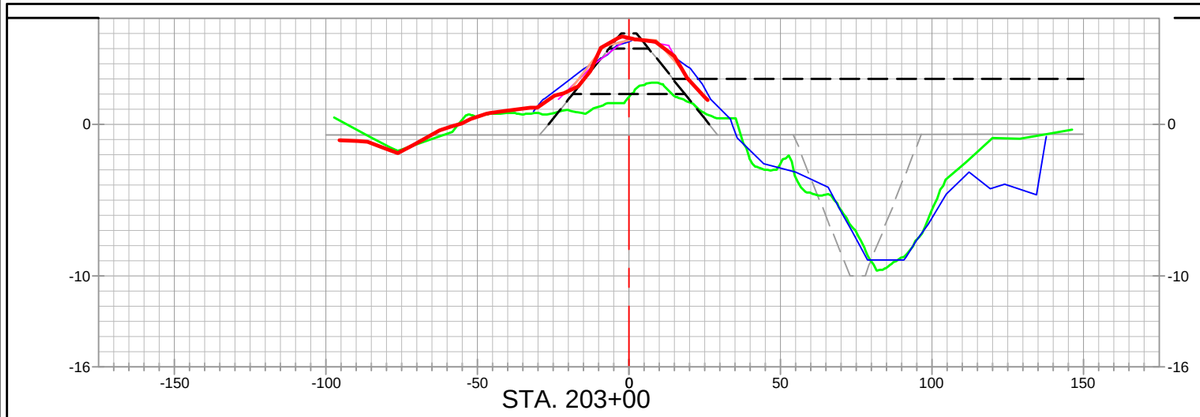
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

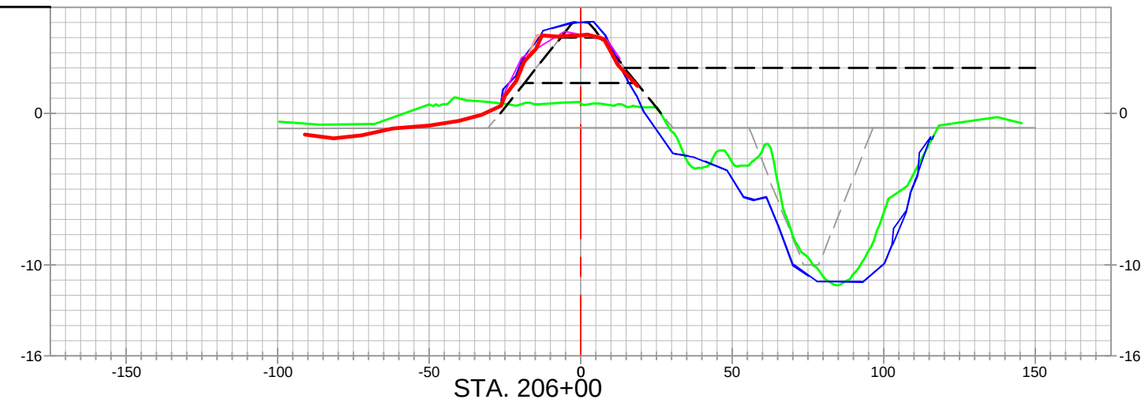
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 19 OF 28



STA. 203+00



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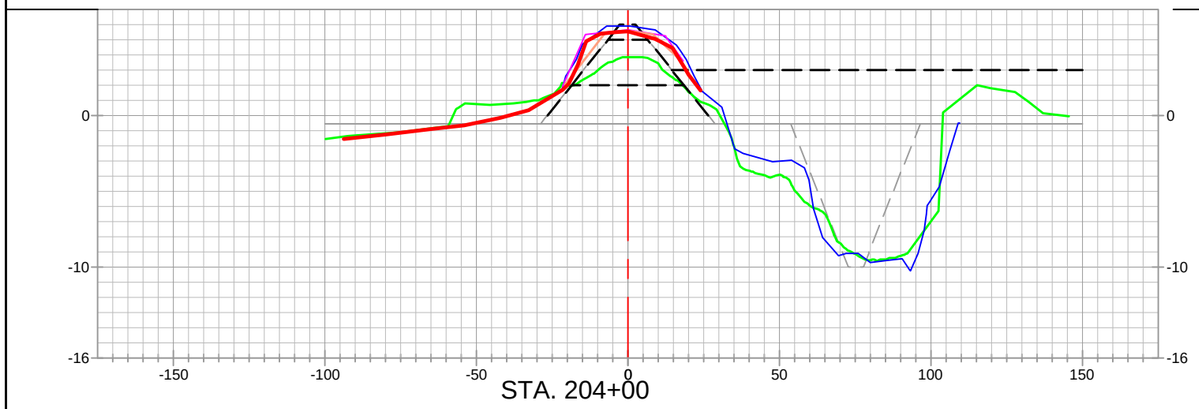
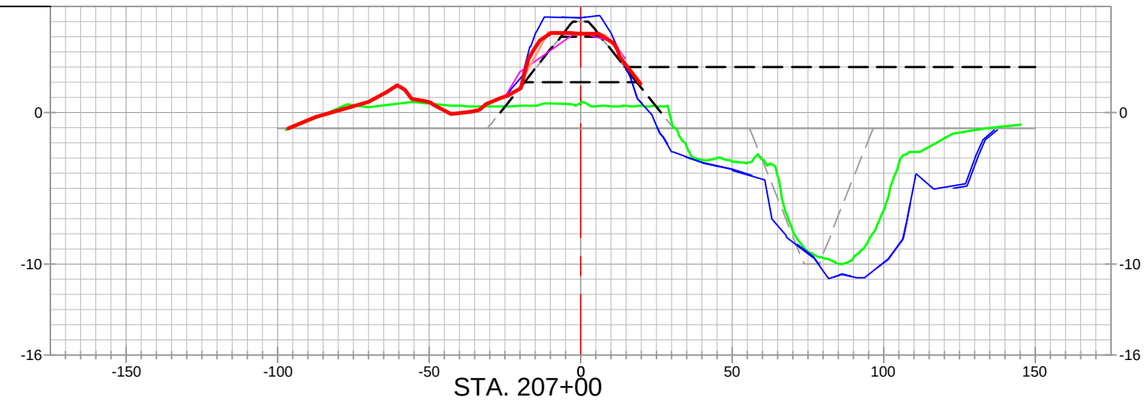
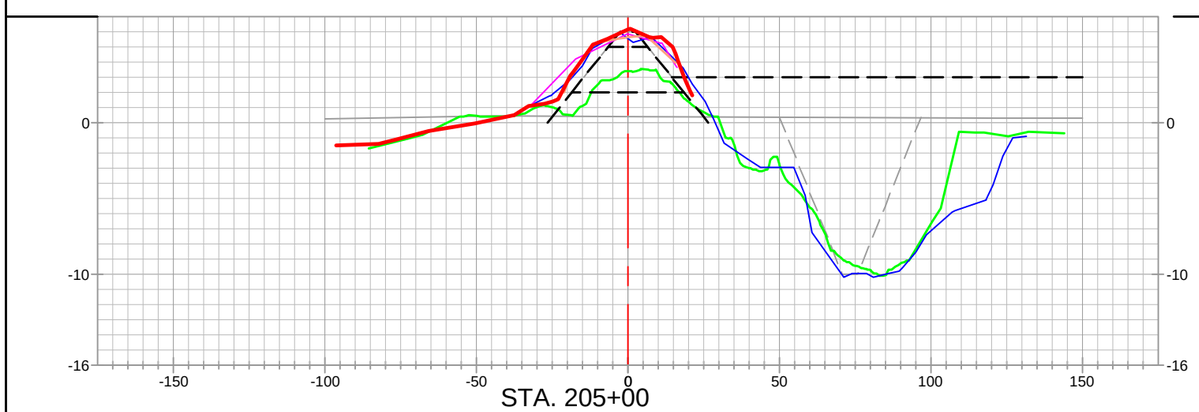


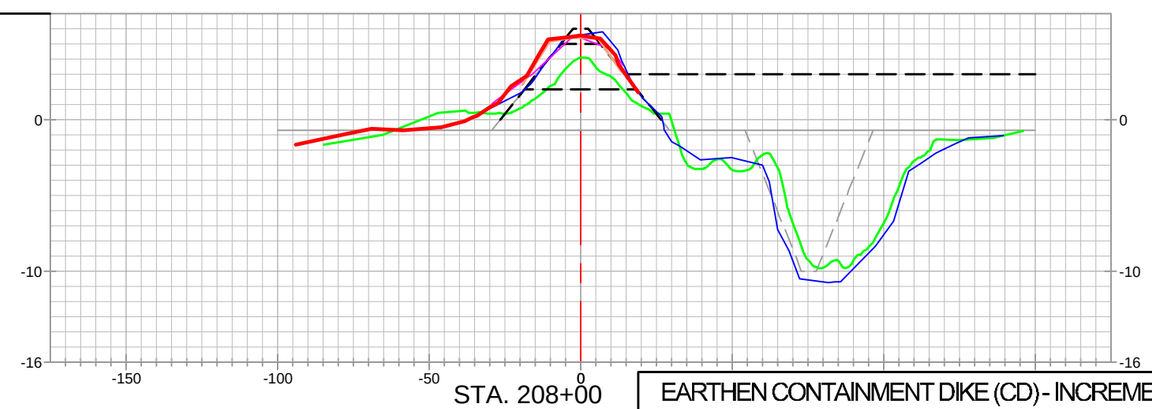
STA. 204+00



STA. 207+00



STA. 205+00



STA. 208+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/2022

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE
SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

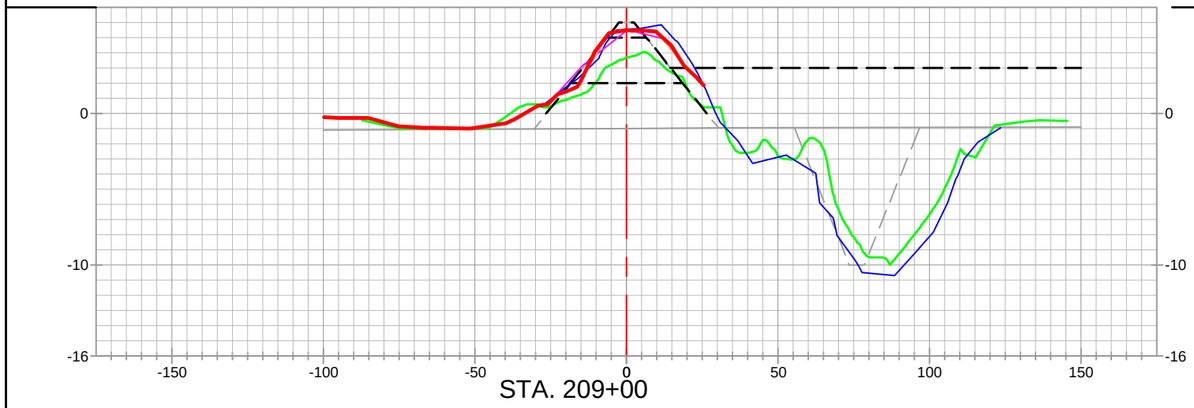
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

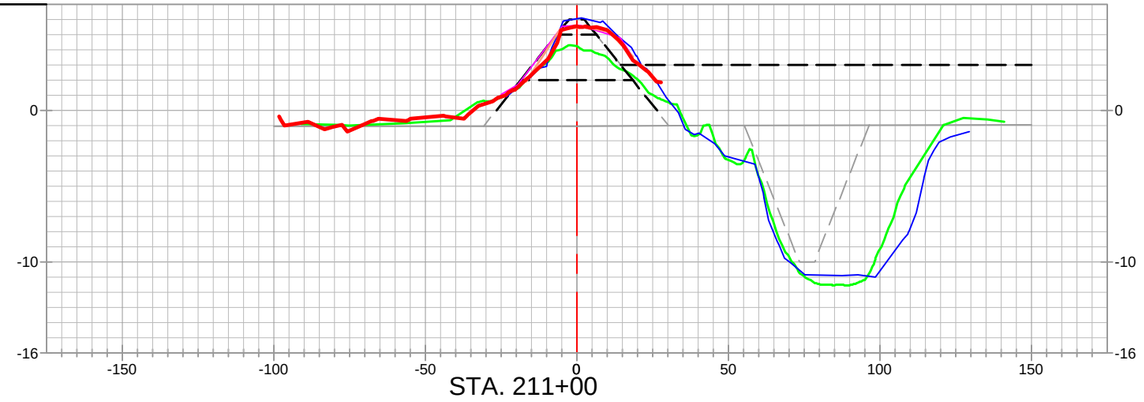
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

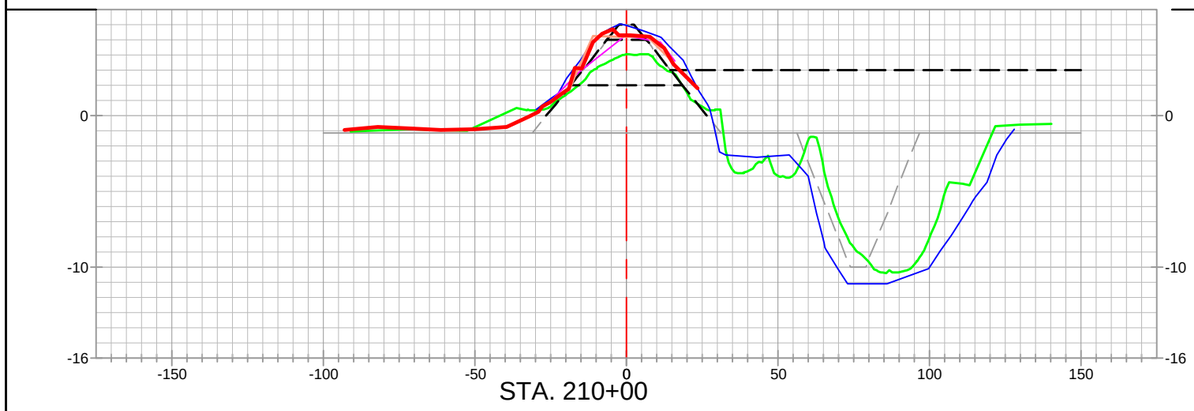
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 20 OF 28



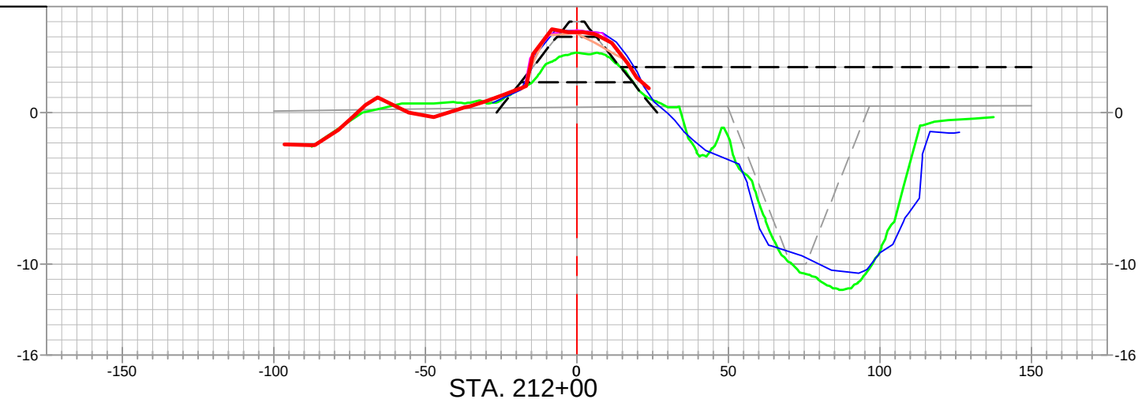
STA. 209+00



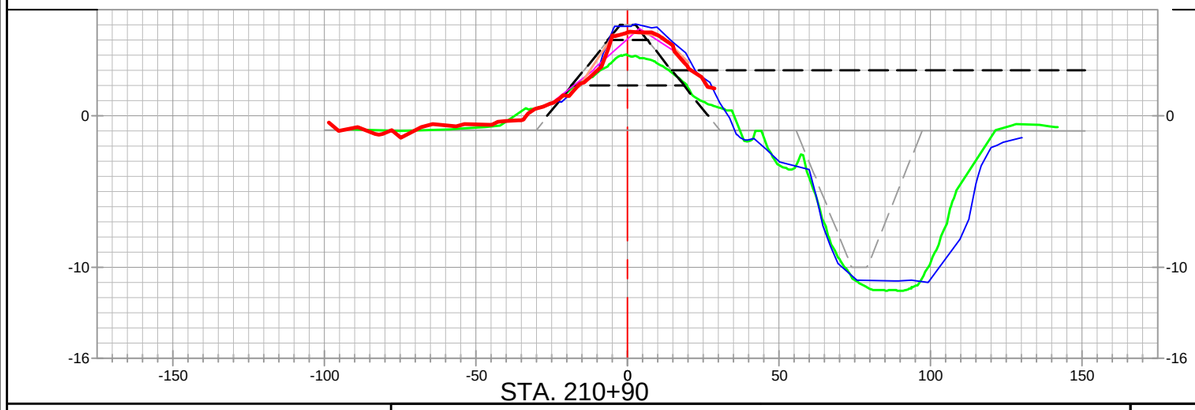
STA. 211+00



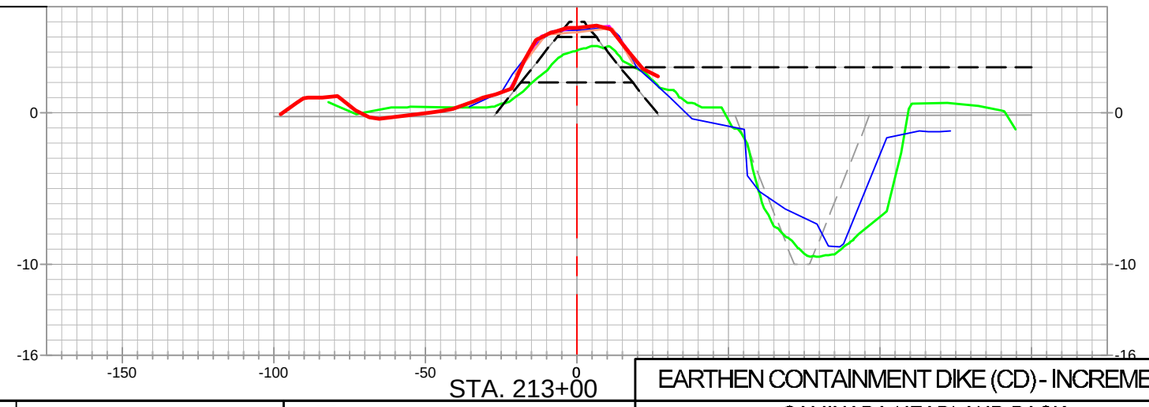
STA. 210+00



STA. 212+00



STA. 210+90



STA. 213+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

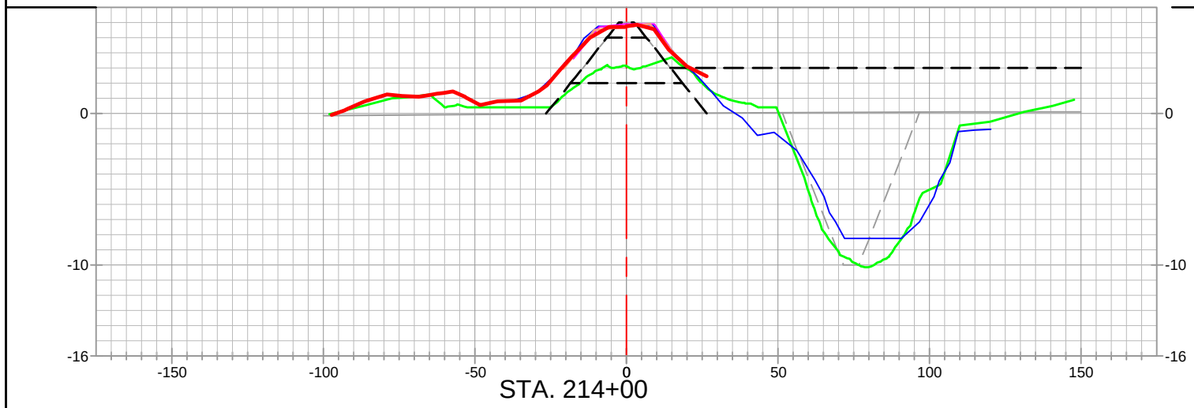
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

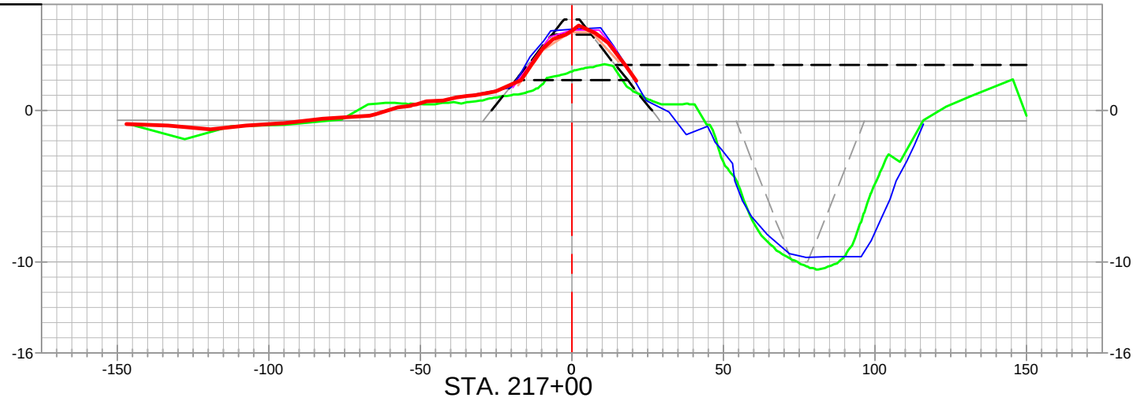
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

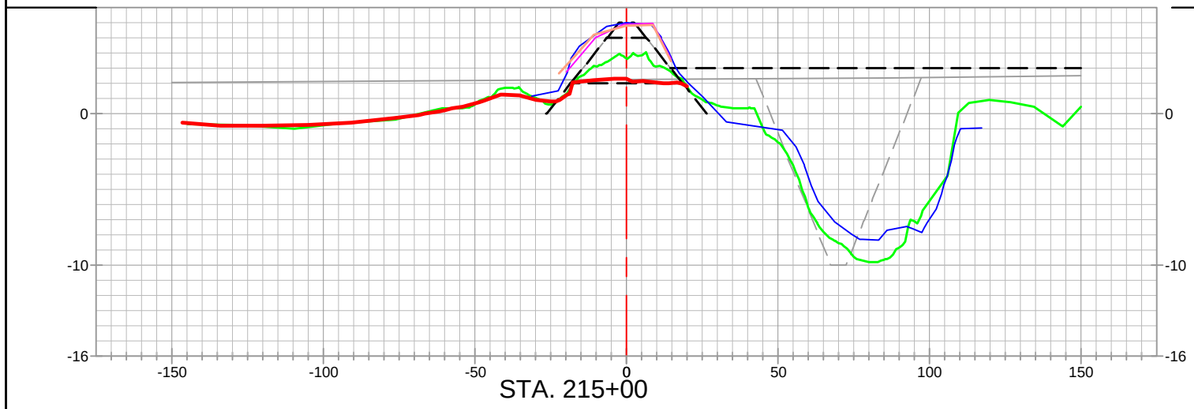
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 21 OF 28



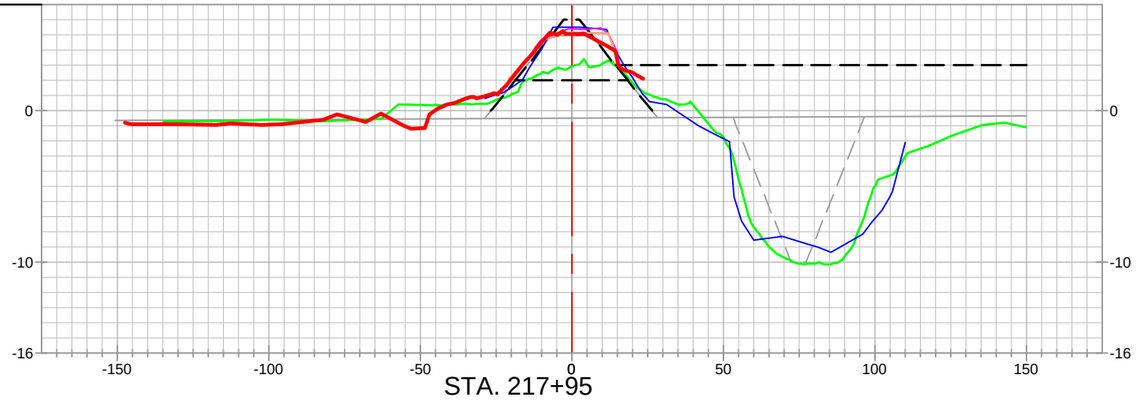
STA. 214+00



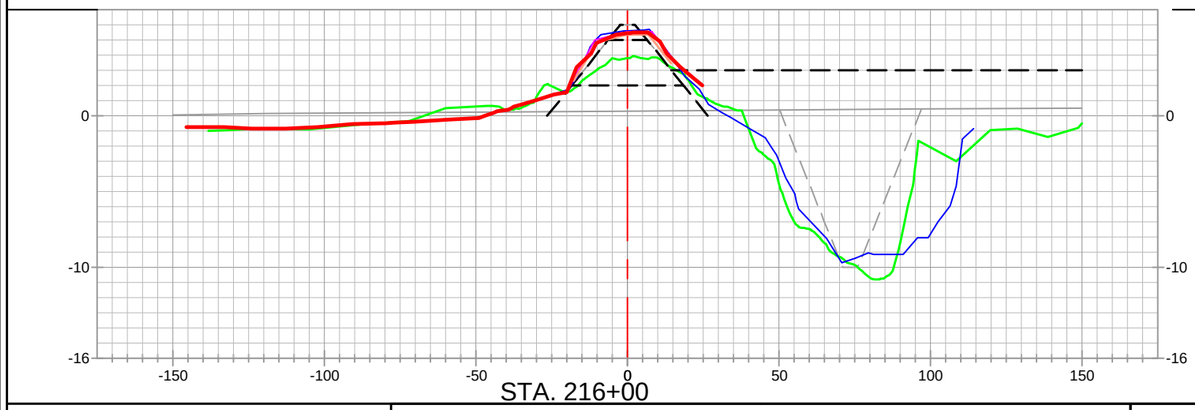
STA. 217+00



STA. 215+00



STA. 217+95



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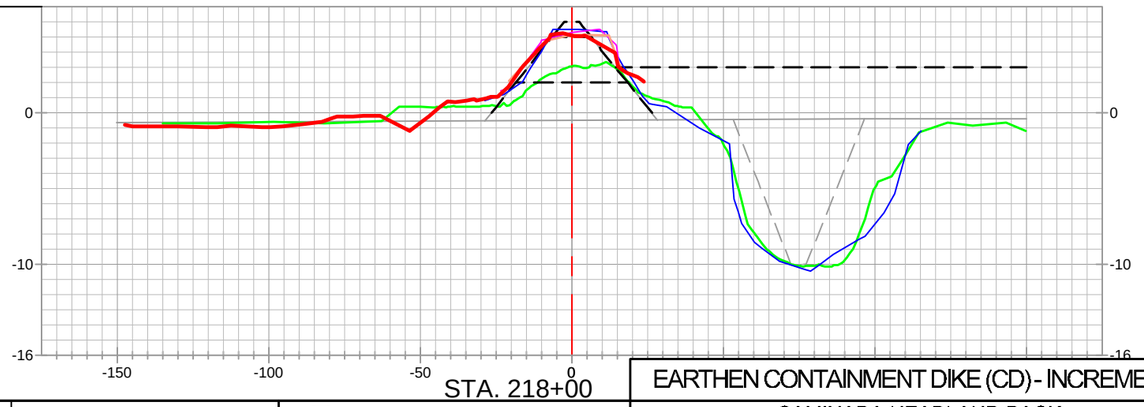


STA. 218+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

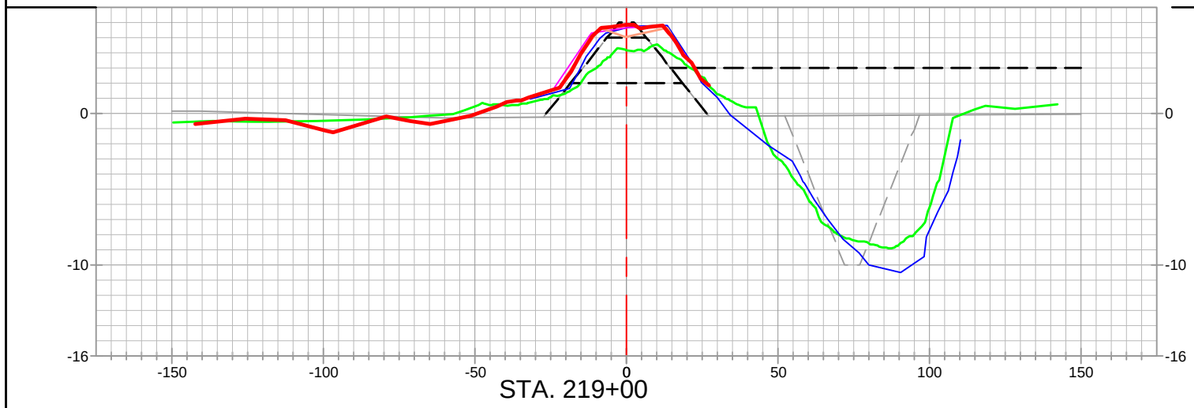
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

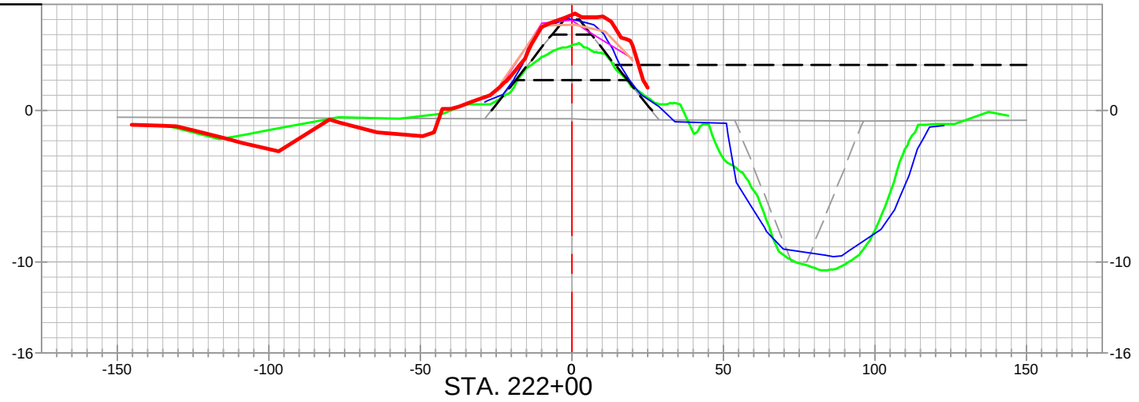
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

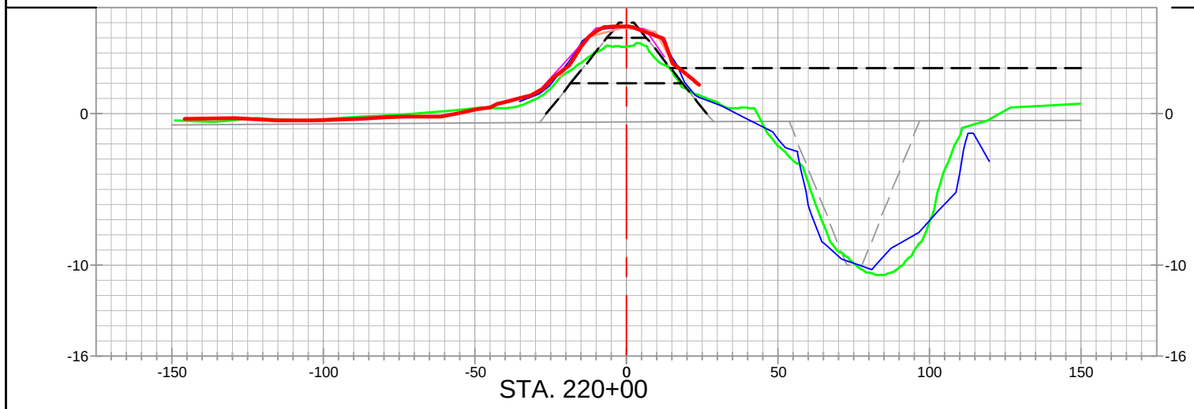
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 22 OF 28



STA. 219+00



STA. 222+00



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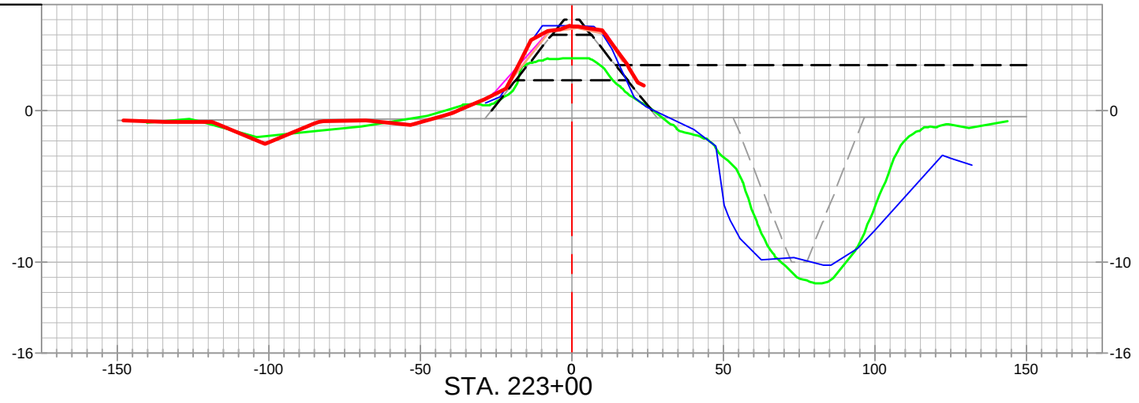

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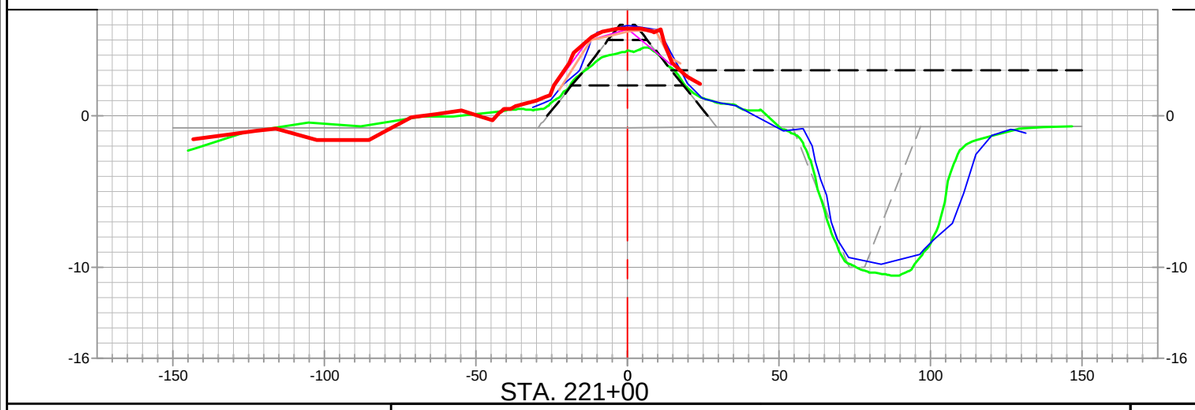

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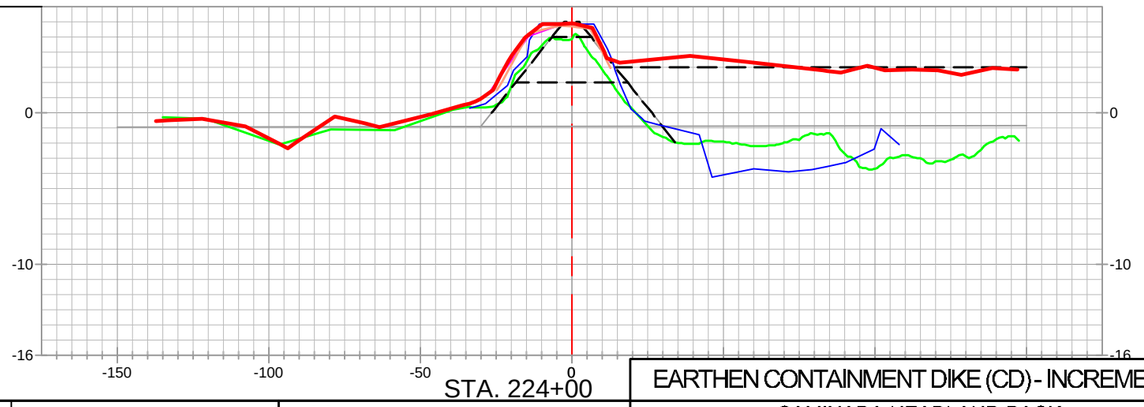


STA. 224+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

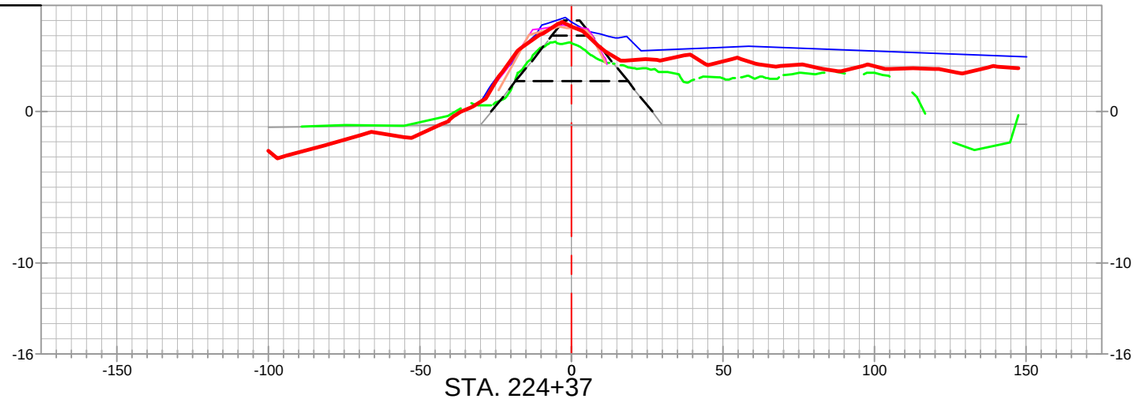
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC2_SECTIONS_REV 00.dwg | SHEET: 23 OF 28



STA. 224+37

NOTES FOR CROSS-SECTION VIEWS:

1.) THE ELEVATIONS AND/OR LOCATIONES OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

2.) PROPOSED ELEVATION OF:
- TOP OF FIRST LIFT: 2.0 ELEV. NAVD88
- TOP OF SECOND LIFT: 5.0 ELEV. NAVD88
- TOP OF THIRD (FINAL LIFT): 6.0 ELEV. NAVD88

3.) PROPOSED TOP WIDTH OF:
- TOP OF FIRST LIFT: 53.0 FEET
- TOP OF SECOND LIFT: 37.0 FEET
- TOP OF THIRD (FINAL) LIFT: 5.0 FEET

4.) ALL PROPOSED SIDE SLOPES TO BE 4 HORIZONTAL TO 1 VERTICAL (4H:1V)

5.) TOP OF MARSH SHOWN AT AN ELEVATION OF +3.0 FEET NAVD88

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/2022

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

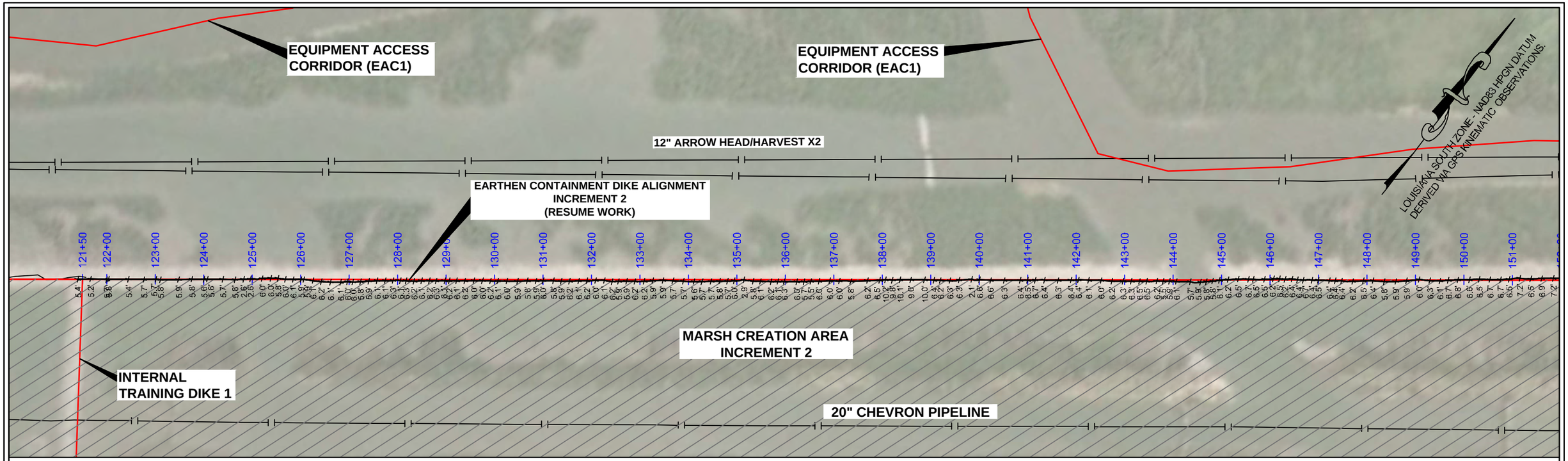
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

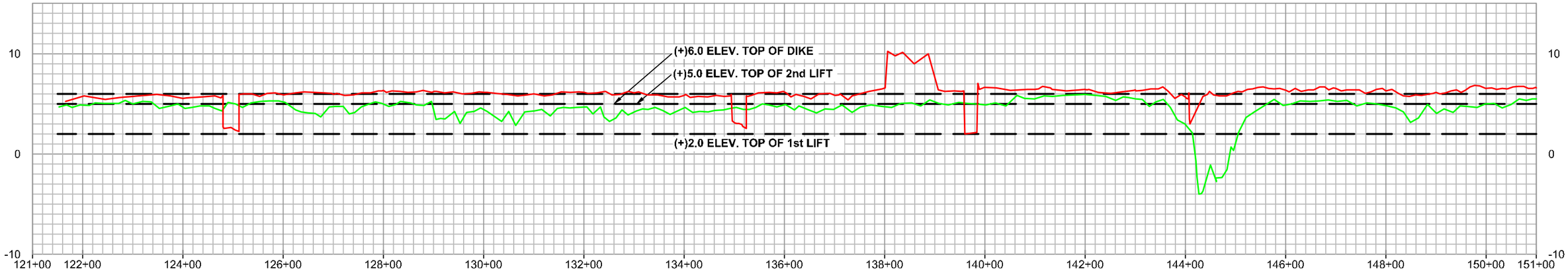
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC2_SECTIONS_REV 00.dwg

SHEET: 24 OF 28



ECD_INCREMENT 2_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

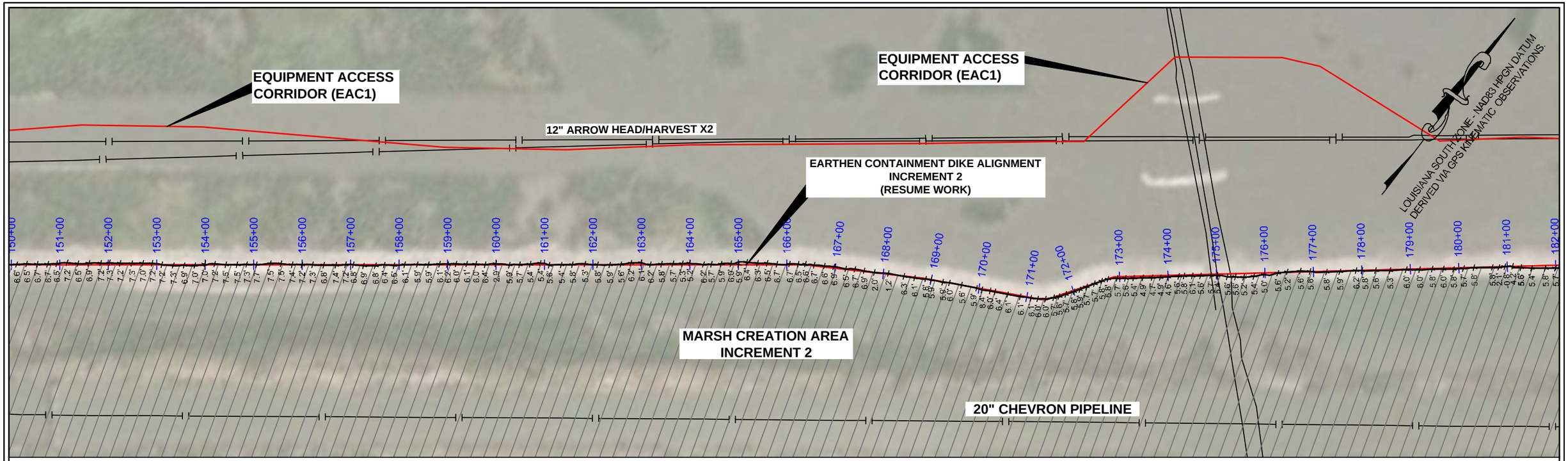
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

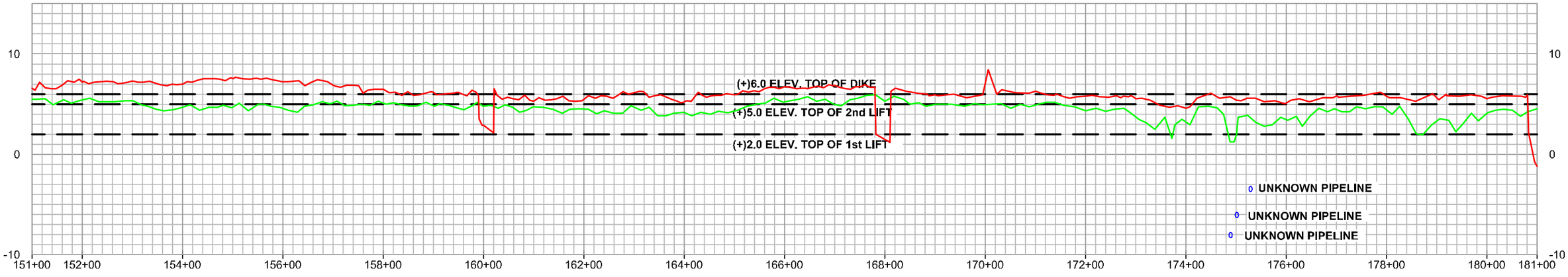
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 2_PROFILE_REV00.dwg | SHEET: 25 OF 28



ECD_INCREMENT 2_ALIGNMENT (RESUME WORK)



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

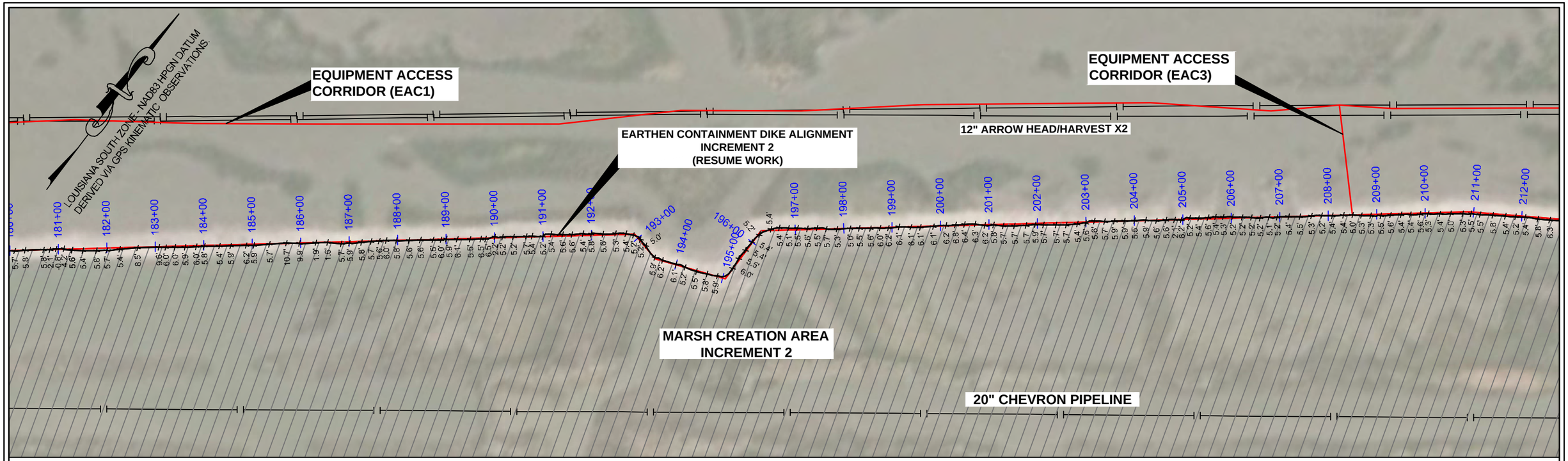
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

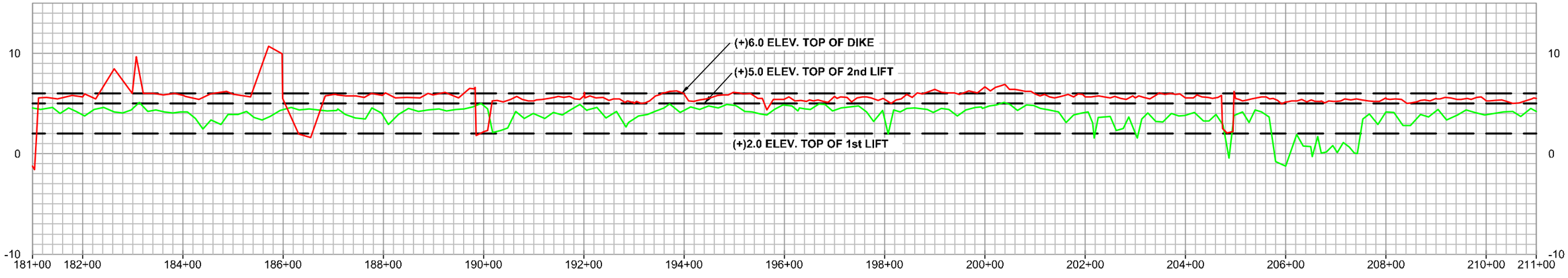
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 2_PROFILE_REV00.dwg

SHEET: 26 OF 28



ECD_INCREMENT 2_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

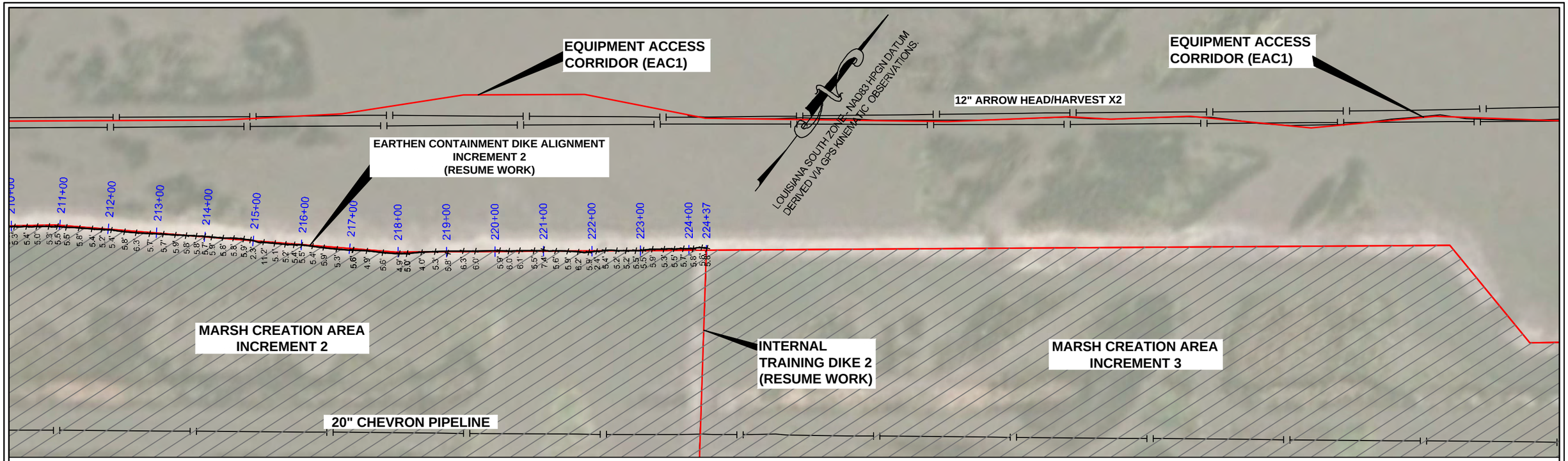
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

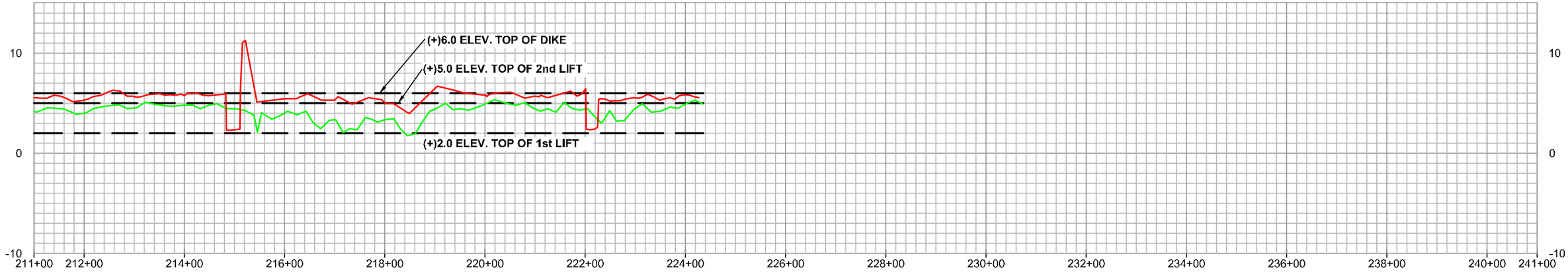
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 2_PROFILE_REV00.dwg

SHEET: 27 OF 28



ECD_INCREMENT 2_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4188
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 2
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 2_PROFILE_REV00.dwg

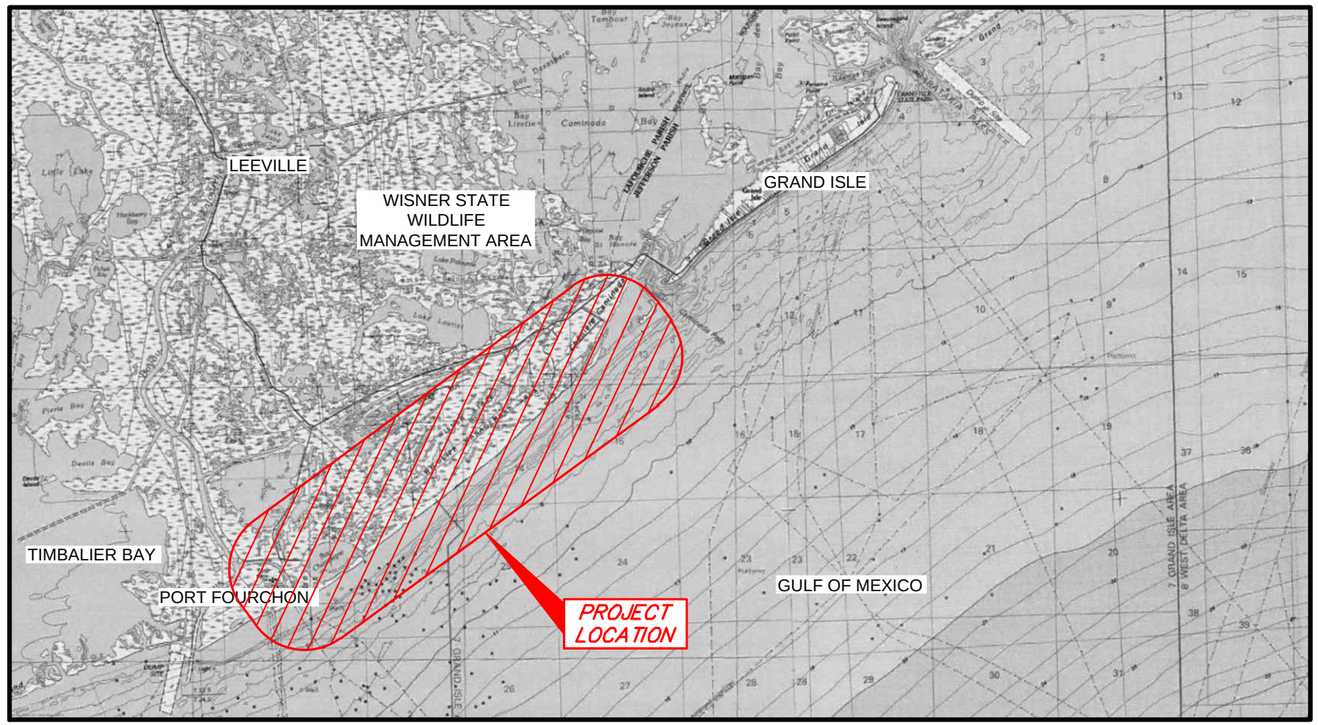
SHEET: 28 OF 28

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 25	CROSS-SECTION VIEWS
26 - 29	PLAN / PROFILE VIEWS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL
LAND SURVEYOR
12/16/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. RESUMING WORK PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC BETWEEN 02-07-22 AND 04-04-22 INCLUSIVE.
5. RESUMING WORK PROGRESS SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES, INC. BETWEEN 03-22-22 AND 07-15-22.
6. PROGRESS SURVEY DATA ACQUISITION WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC DATED 09-14-22 TO 09-17-22 AND CHECK BY HYDROTERRA TECHNOLOGIES, LLC ON 09-21-22.
7. MONTHLY ECD SURVEY DATA DATED 10-15-22 WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC. AND REVIEWED BY HYDROTERRA TECHNOLOGIES, LLC ON 10-24-22.
8. AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 11-07-22, 11-08-22, 11-09-22, 11-10-22, 11-11-22, 11-14-22, 11-15-22. 11-16-22. 11-28-22, 11-29-22, 11-30-22, 12-02-22, 12-03-22, 12-05-22, 12-06-22, 12-07-22, 12-08-22 AND 12-09-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1
BAYOU MOREAU
BAYOU LAFOURCHE
PORT FOURCHON MARINA
GULF OF MEXICO
GULF OF MEXICO

EARTHEN CONTAINMENT DIKE ALIGNMENT
INCREMENT 4
INCREMENT 3
INCREMENT 2
INCREMENT 1
INTERNAL TRAINING DIKE 3
INTERNAL TRAINING DIKE 2
INTERNAL TRAINING DIKE 1
50' BEACH AND DUNE CROSSING
50' BEACH AND DUNE CROSSING
EQUIPMENT ACCESS CORRIDOR (EA3)
EQUIPMENT ACCESS CORRIDOR (EA1)
EQUIPMENT ACCESS CORRIDOR (EA4)
EQUIPMENT ACCESS CORRIDOR (EA2)
DEWATERING POTENTIAL MARSH NOURISHMENT AREA
DREDGE PIPELINE CORRIDOR
DREDGE PIPELINE CORRIDOR
DREDGE PIPELINE CORRIDOR
NE BORROW AREA
SW BORROW AREA

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND
- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

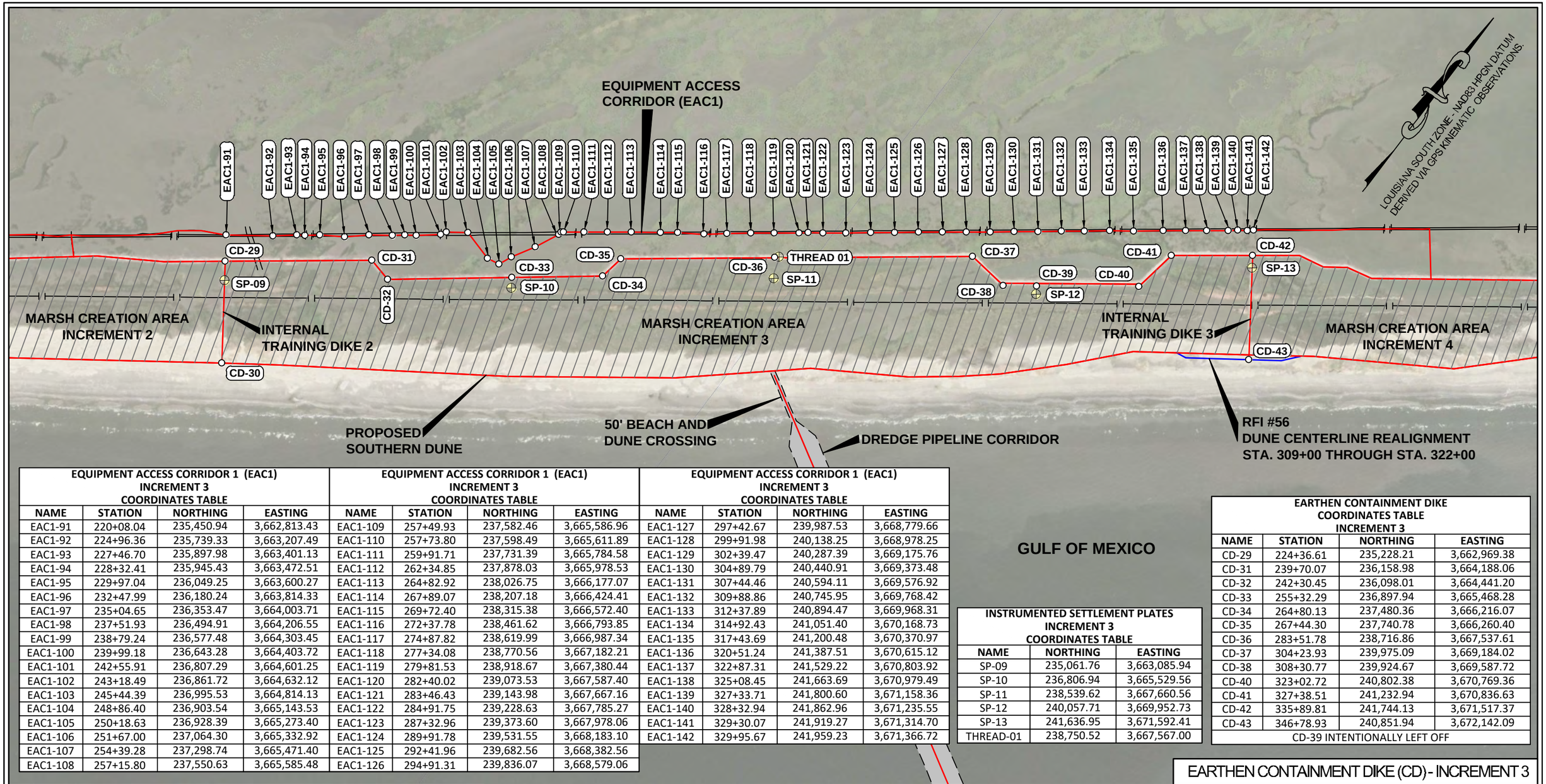
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

SHEET: 2 OF 25



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-91	220+08.04	235,450.94	3,662,813.43
EAC1-92	224+96.36	235,739.33	3,663,207.49
EAC1-93	227+46.70	235,897.98	3,663,401.13
EAC1-94	228+32.41	235,945.43	3,663,472.51
EAC1-95	229+97.04	236,049.25	3,663,600.27
EAC1-96	232+47.99	236,180.24	3,663,814.33
EAC1-97	235+04.65	236,353.47	3,664,003.71
EAC1-98	237+51.93	236,494.91	3,664,206.55
EAC1-99	238+79.24	236,577.48	3,664,303.45
EAC1-100	239+99.18	236,643.28	3,664,403.72
EAC1-101	242+55.91	236,807.29	3,664,601.25
EAC1-102	243+18.49	236,861.72	3,664,632.12
EAC1-103	245+44.39	236,995.53	3,664,814.13
EAC1-104	248+86.40	236,903.54	3,665,143.53
EAC1-105	250+18.63	236,928.39	3,665,273.40
EAC1-106	251+67.00	237,064.30	3,665,332.92
EAC1-107	254+39.28	237,298.74	3,665,471.40
EAC1-108	257+15.80	237,550.63	3,665,585.48

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-109	257+49.93	237,582.46	3,665,586.96
EAC1-110	257+73.80	237,598.49	3,665,611.89
EAC1-111	259+91.71	237,731.39	3,665,784.58
EAC1-112	262+34.85	237,878.03	3,665,978.53
EAC1-113	264+82.92	238,026.75	3,666,177.07
EAC1-114	267+89.07	238,207.18	3,666,424.41
EAC1-115	269+72.40	238,315.38	3,666,572.40
EAC1-116	272+37.78	238,461.62	3,666,793.85
EAC1-117	274+87.82	238,619.99	3,666,987.34
EAC1-118	277+34.08	238,770.56	3,667,182.21
EAC1-119	279+81.53	238,918.67	3,667,380.44
EAC1-120	282+40.02	239,073.53	3,667,587.40
EAC1-121	283+46.43	239,143.98	3,667,667.16
EAC1-122	284+91.75	239,228.63	3,667,785.27
EAC1-123	287+32.96	239,373.60	3,667,978.06
EAC1-124	289+91.78	239,531.55	3,668,183.10
EAC1-125	292+41.96	239,682.56	3,668,382.56
EAC1-126	294+91.31	239,836.07	3,668,579.06

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-127	297+42.67	239,987.53	3,668,779.66
EAC1-128	299+91.98	240,138.25	3,668,978.25
EAC1-129	302+39.47	240,287.39	3,669,175.76
EAC1-130	304+89.79	240,440.91	3,669,373.48
EAC1-131	307+44.46	240,594.11	3,669,576.92
EAC1-132	309+88.86	240,745.95	3,669,768.42
EAC1-133	312+37.89	240,894.47	3,669,968.31
EAC1-134	314+92.43	241,051.40	3,670,168.73
EAC1-135	317+43.69	241,200.48	3,670,370.97
EAC1-136	320+51.24	241,387.51	3,670,615.12
EAC1-137	322+87.31	241,529.22	3,670,803.92
EAC1-138	325+08.45	241,663.69	3,670,979.49
EAC1-139	327+33.71	241,800.60	3,671,158.36
EAC1-140	328+32.94	241,862.96	3,671,235.55
EAC1-141	329+30.07	241,919.27	3,671,314.70
EAC1-142	329+95.67	241,959.23	3,671,366.72

INSTRUMENTED SETTLEMENT PLATES INCREMENT 3 COORDINATES TABLE

NAME	NORTHING	EASTING
SP-09	235,061.76	3,663,085.94
SP-10	236,806.94	3,665,529.56
SP-11	238,539.62	3,667,660.56
SP-12	240,057.71	3,669,952.73
SP-13	241,636.95	3,671,592.41
THREAD-01	238,750.52	3,667,567.00

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 3

NAME	STATION	NORTHING	EASTING
CD-29	224+36.61	235,228.21	3,662,969.38
CD-31	239+70.07	236,158.98	3,664,188.06
CD-32	242+30.45	236,098.01	3,664,441.20
CD-33	255+32.29	236,897.94	3,665,468.28
CD-34	264+80.13	237,480.36	3,666,216.07
CD-35	267+44.30	237,740.78	3,666,260.40
CD-36	283+51.78	238,716.86	3,667,537.61
CD-37	304+23.93	239,975.09	3,669,184.02
CD-38	308+30.77	239,924.67	3,669,587.72
CD-40	323+02.72	240,802.38	3,670,769.36
CD-41	327+38.51	241,232.94	3,670,836.63
CD-42	335+89.81	241,744.13	3,671,517.37
CD-43	346+78.93	240,851.94	3,672,142.09

CD-39 INTENTIONALLY LEFT OFF

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 — EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

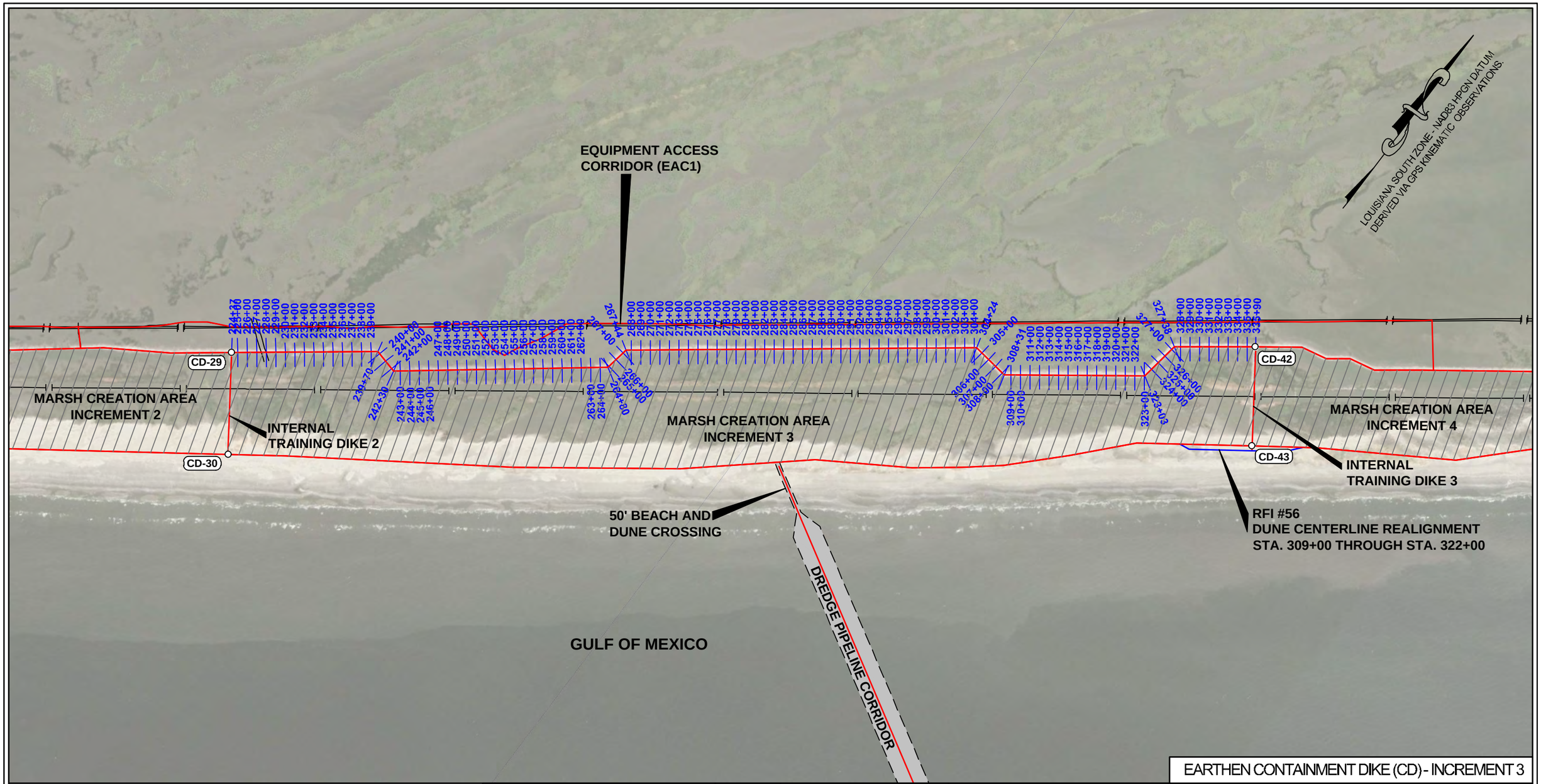
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

SHEET: 3 OF 25



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
12/16/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

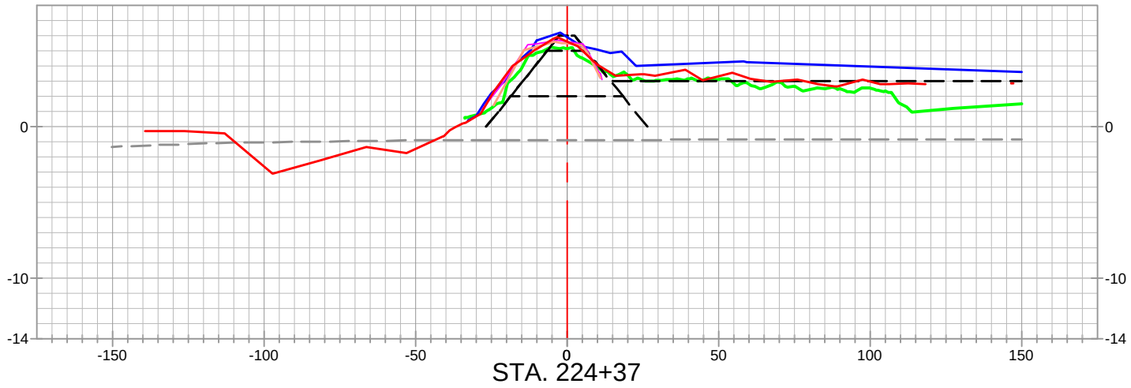
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

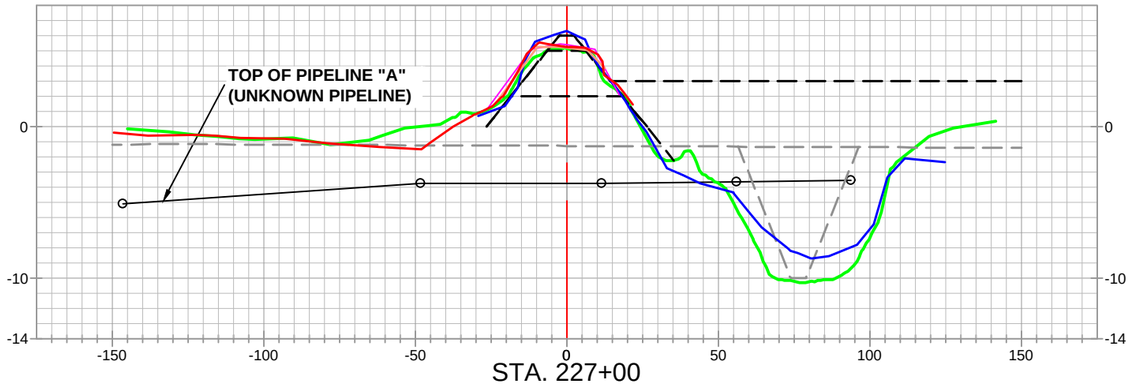
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg



STA. 224+37



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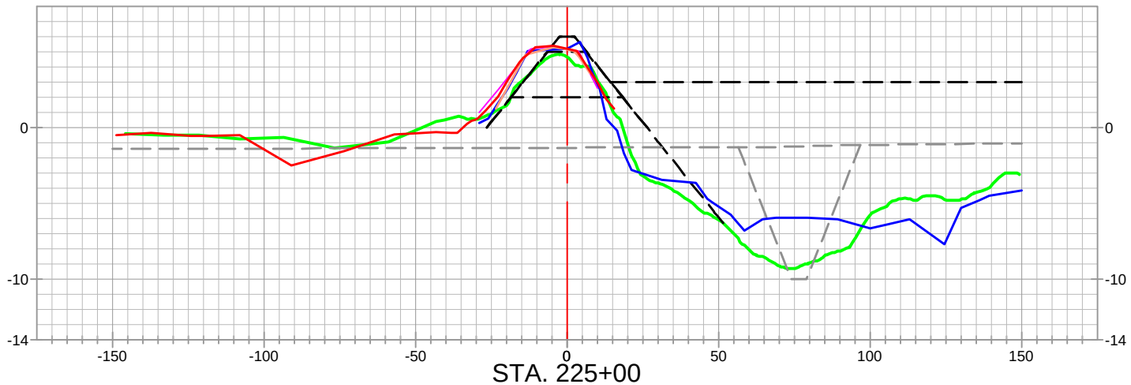
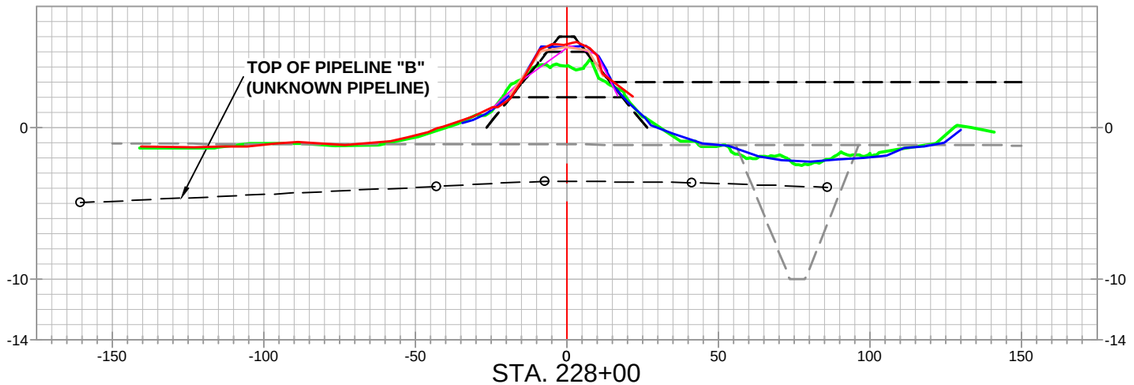
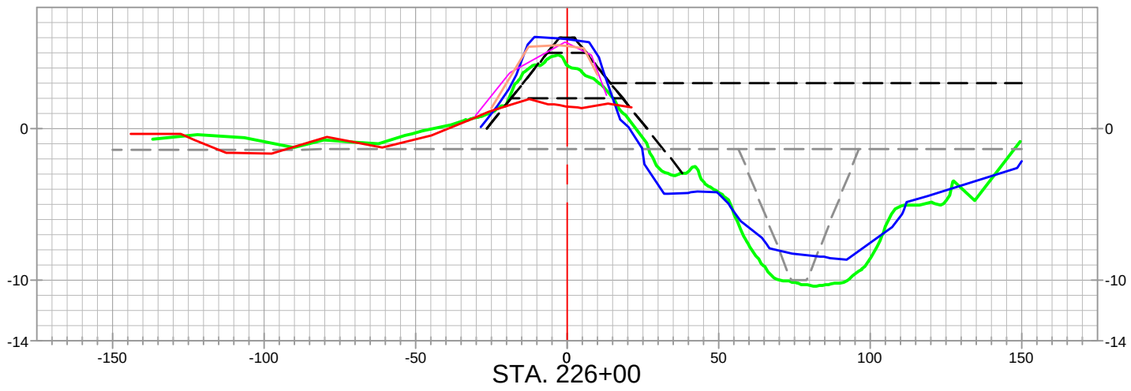


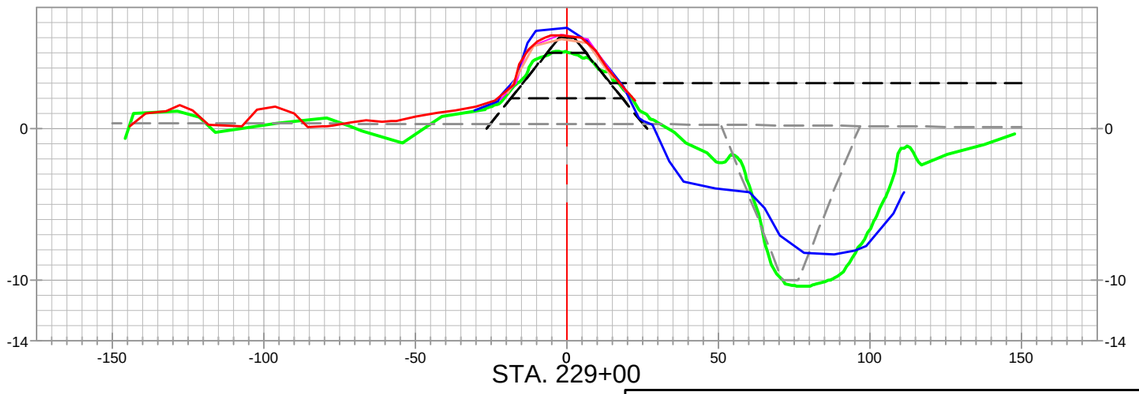
STA. 225+00



STA. 228+00



STA. 226+00



STA. 229+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

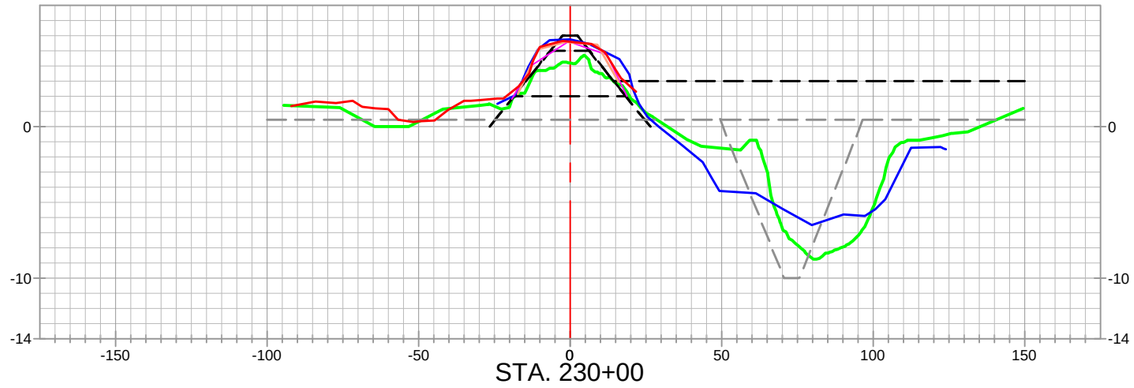
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

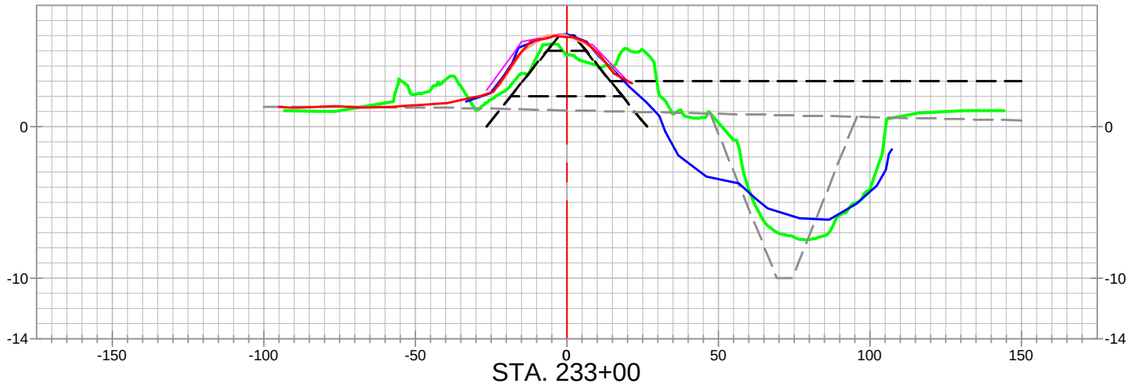
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 5 OF 25



STA. 230+00



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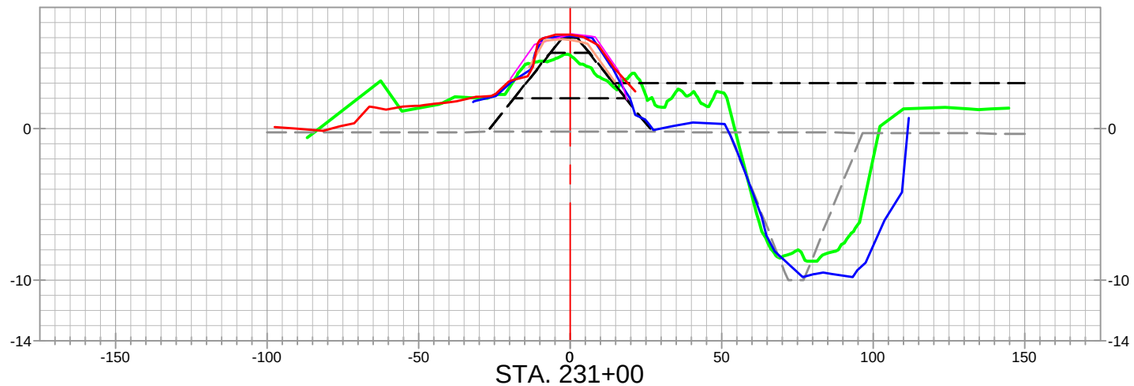
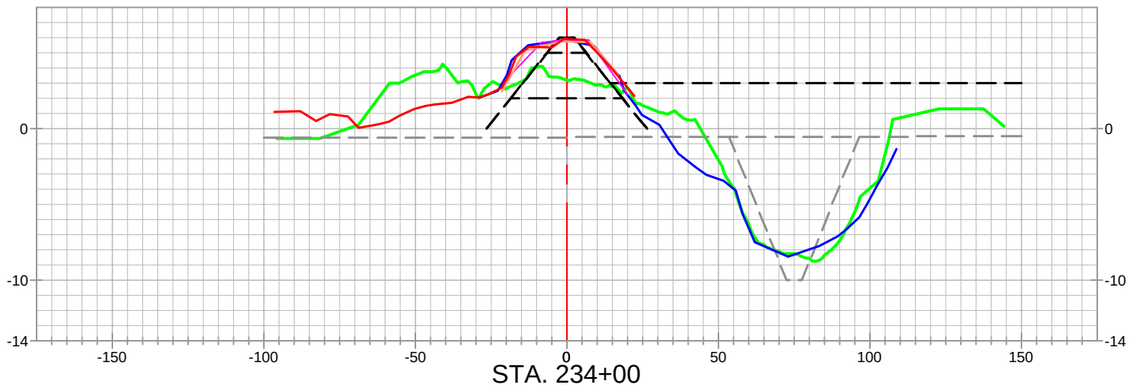
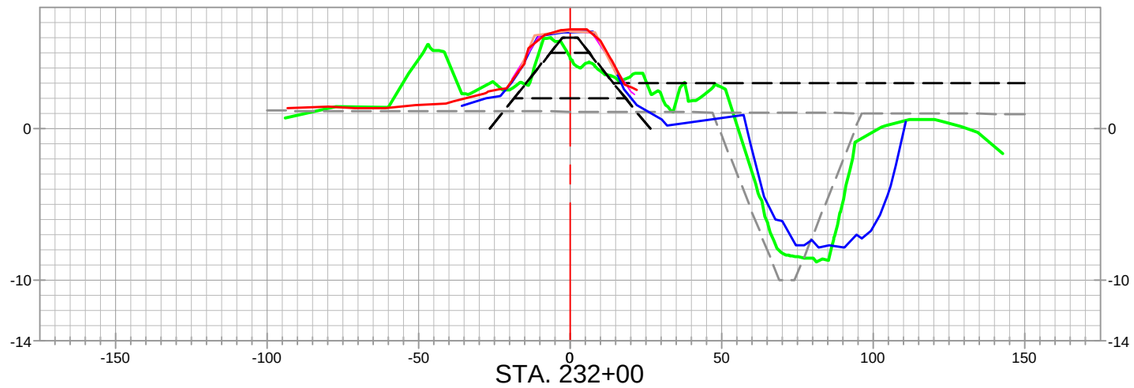


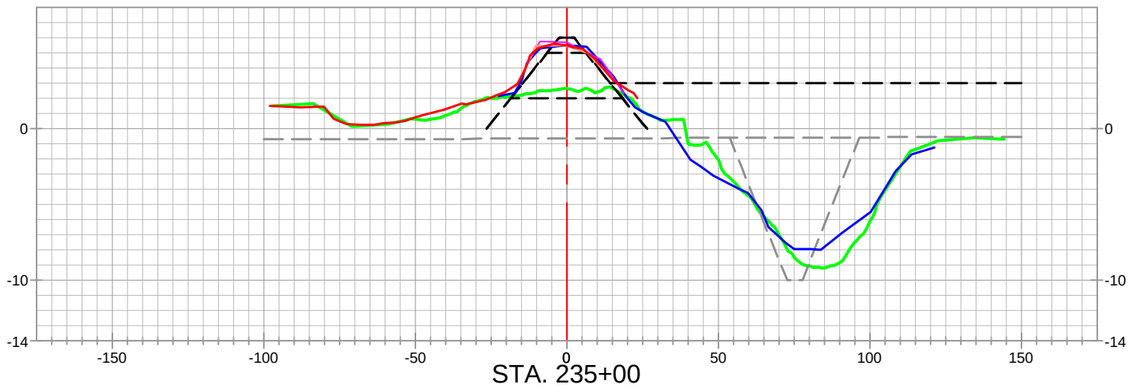
STA. 231+00



STA. 234+00



STA. 232+00



STA. 235+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

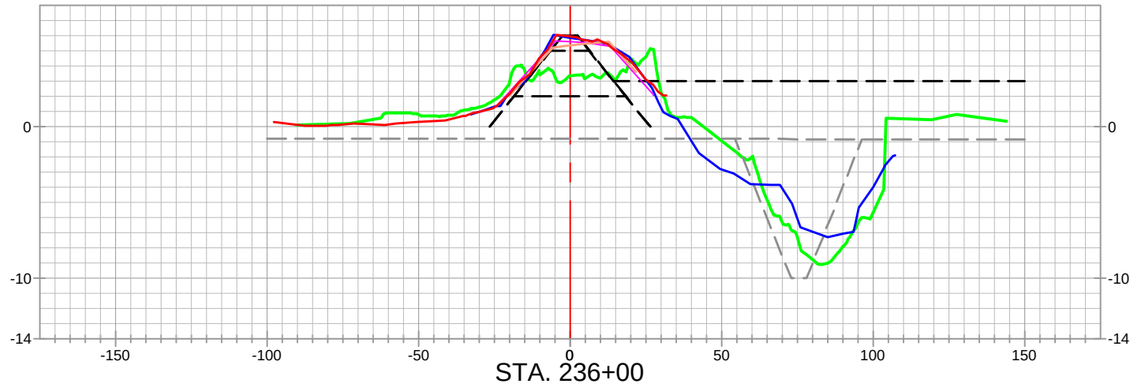
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

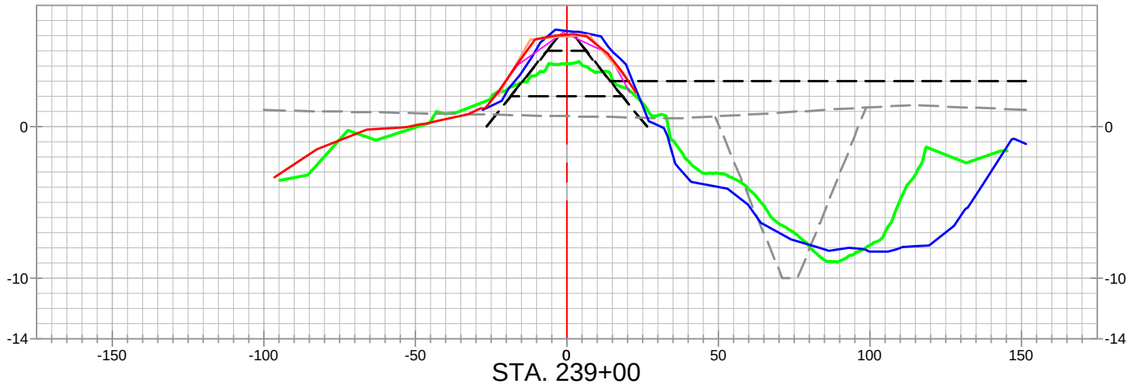
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 6 OF 25



STA. 236+00



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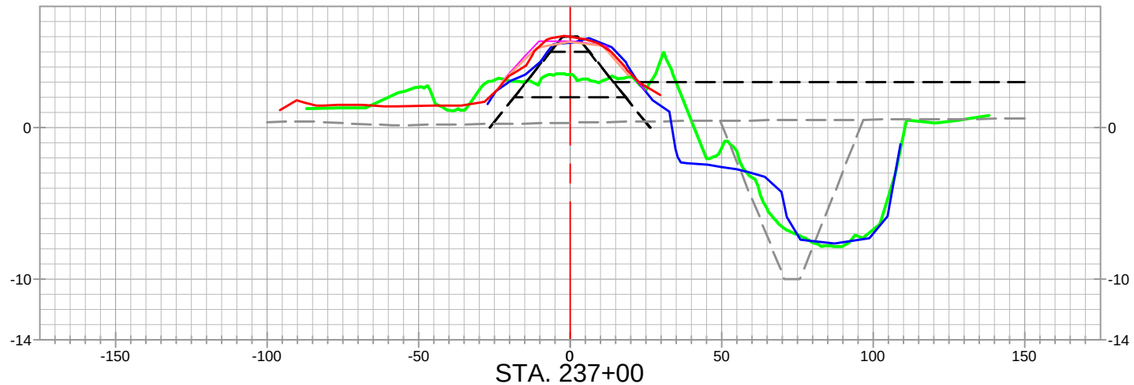
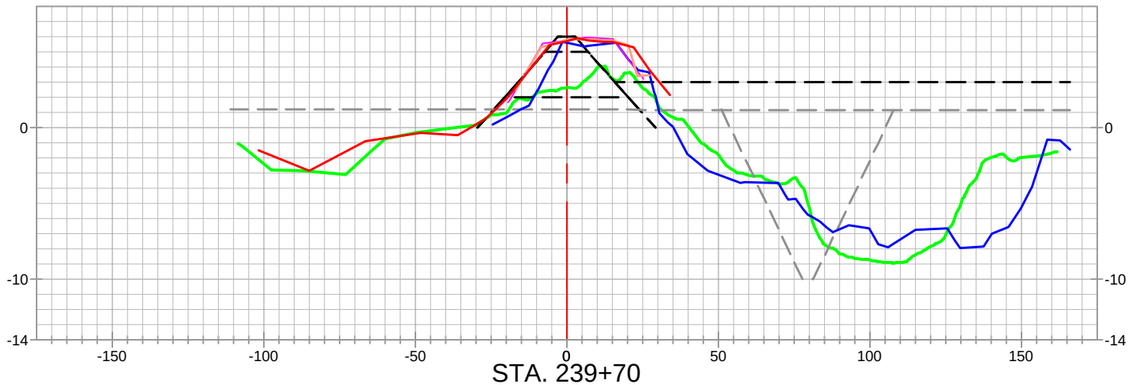
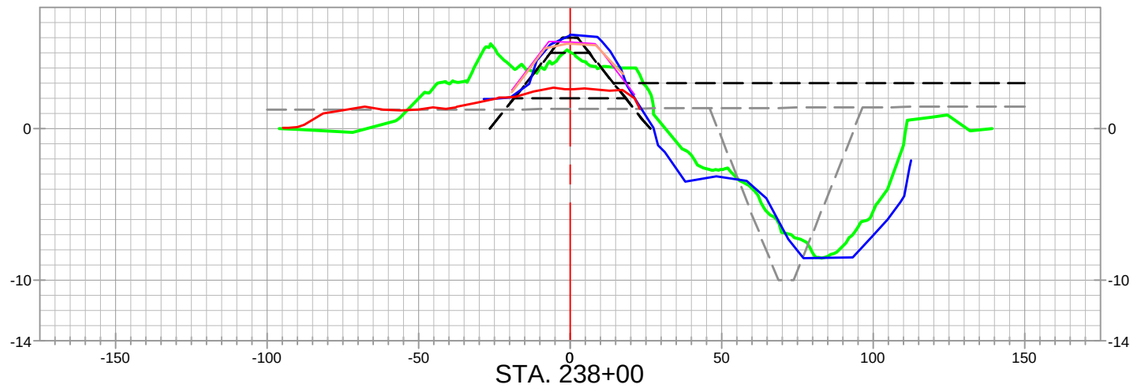


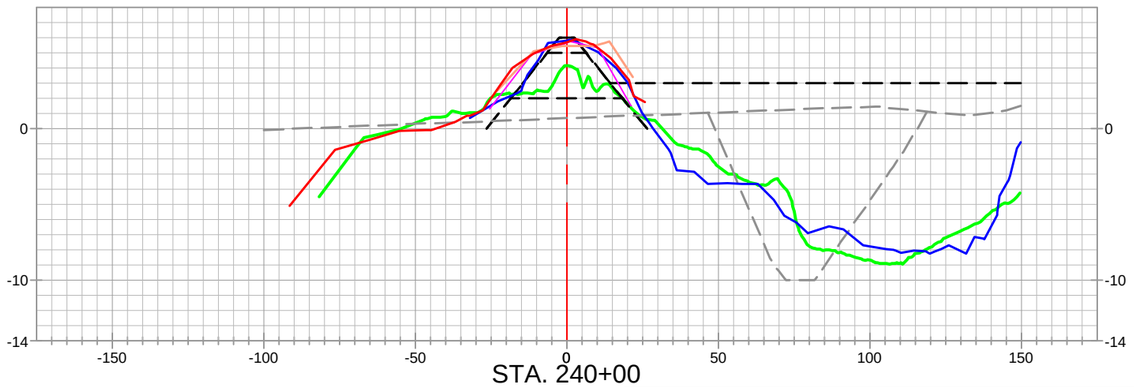
STA. 237+00



STA. 239+70



STA. 238+00



STA. 240+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

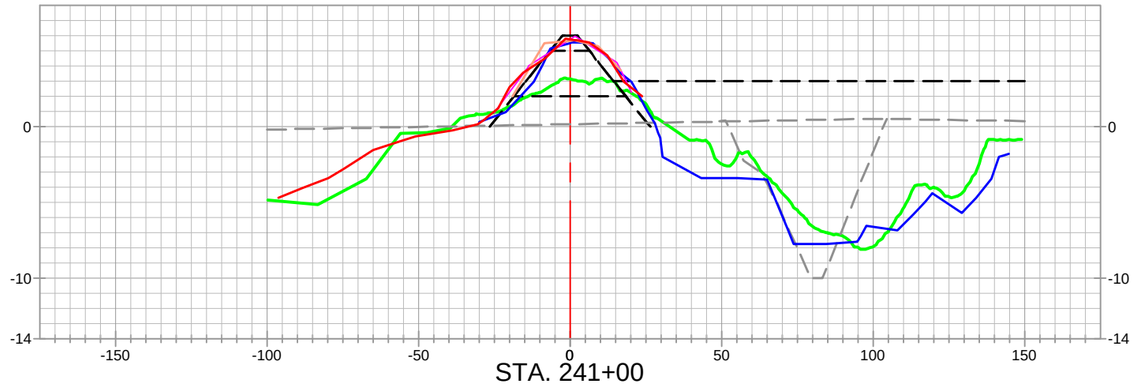
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

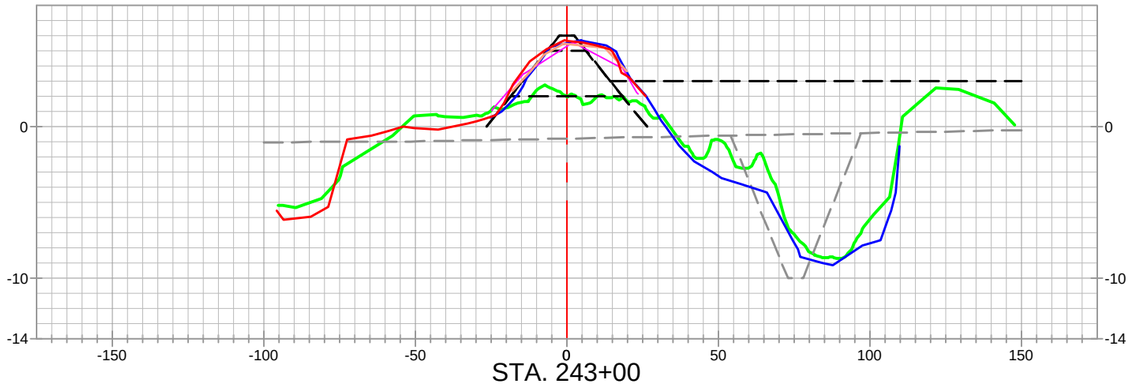
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

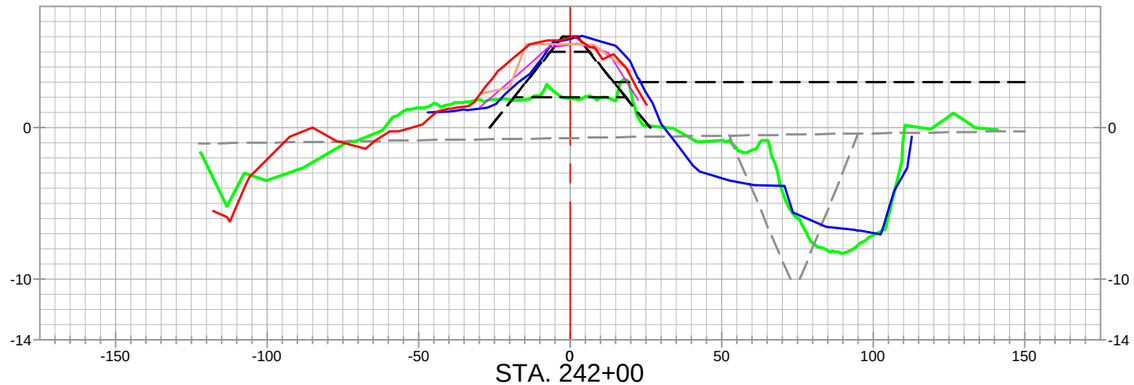
SHEET: 7 OF 25



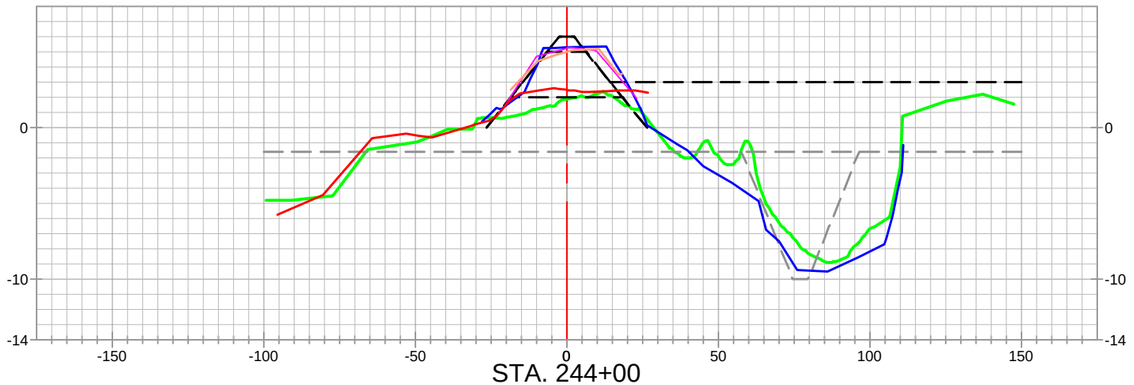
STA. 241+00



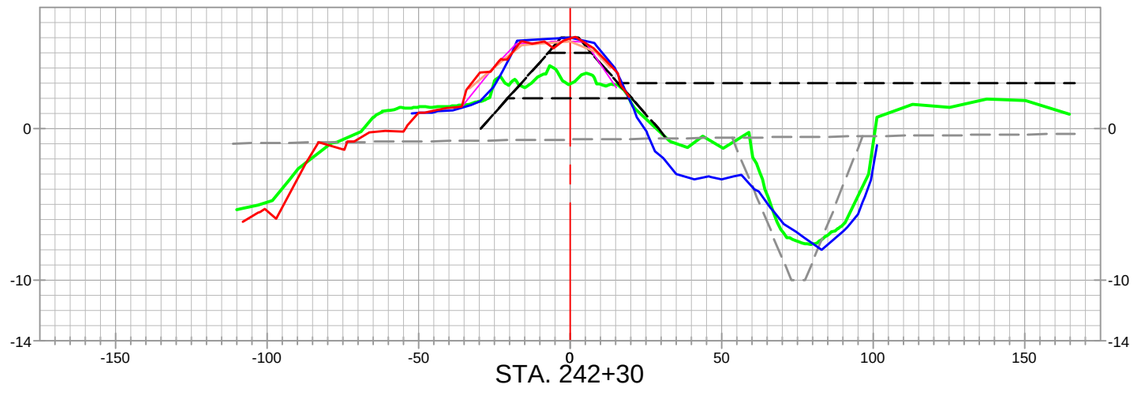
STA. 243+00



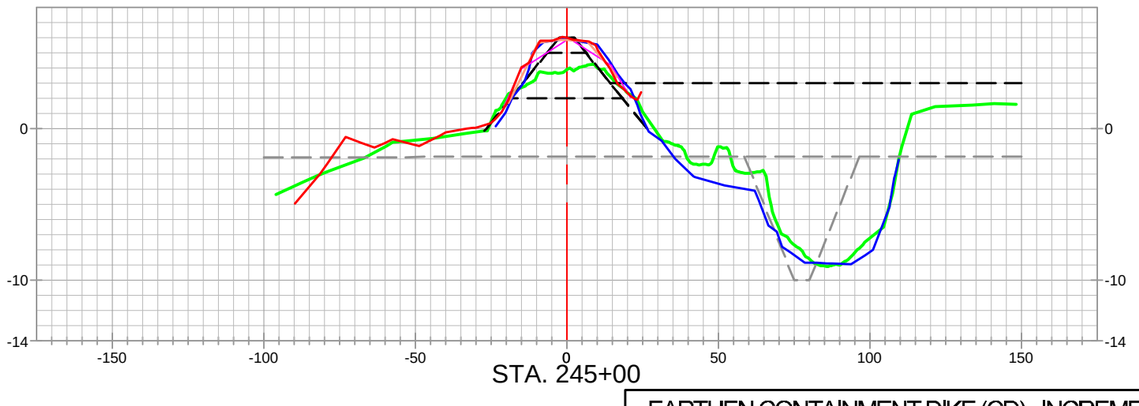
STA. 242+00



STA. 244+00



STA. 242+30



STA. 245+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

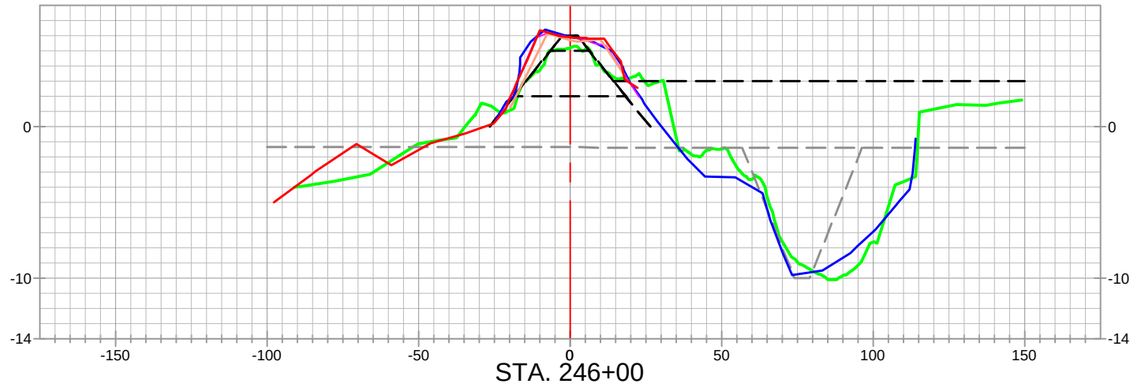
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

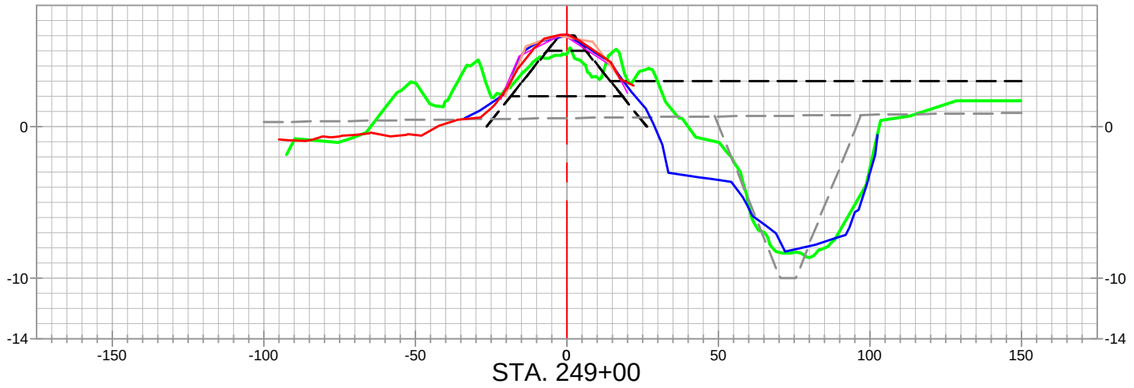
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

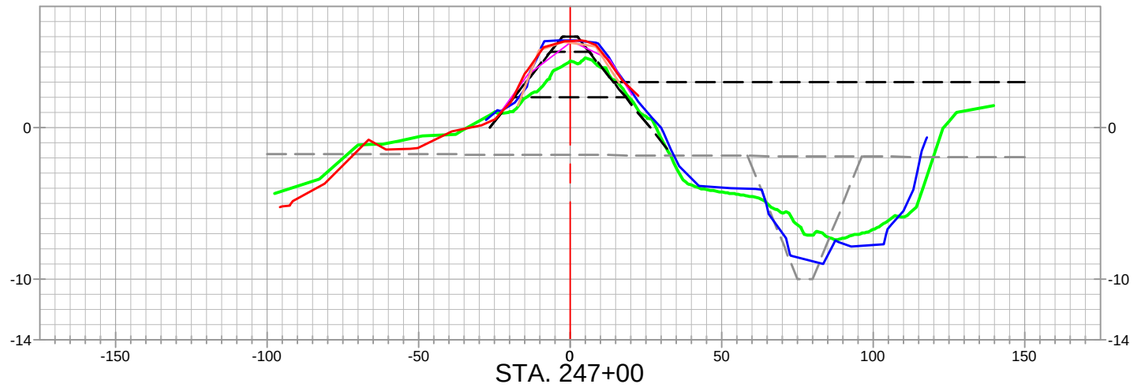
SHEET: 8 OF 25



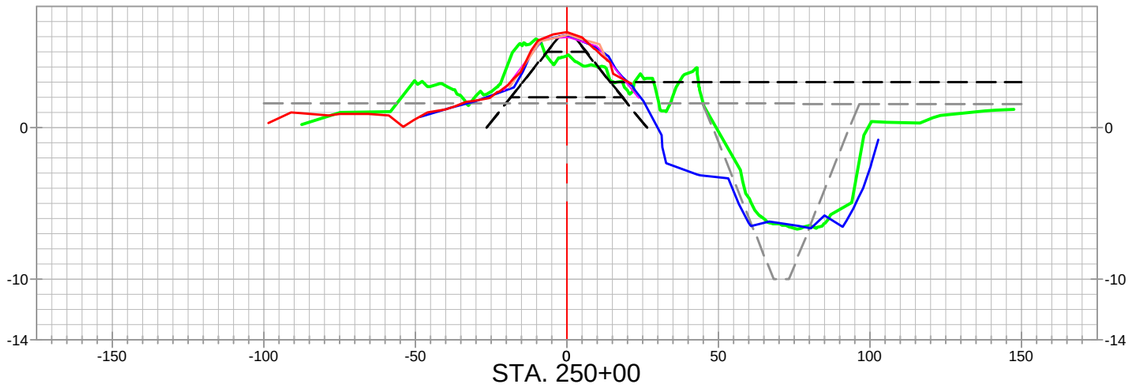
STA. 246+00



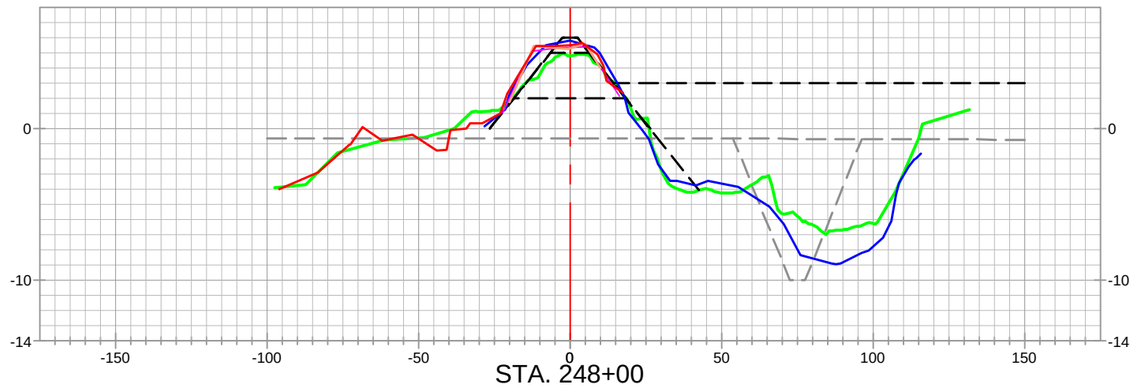
STA. 249+00



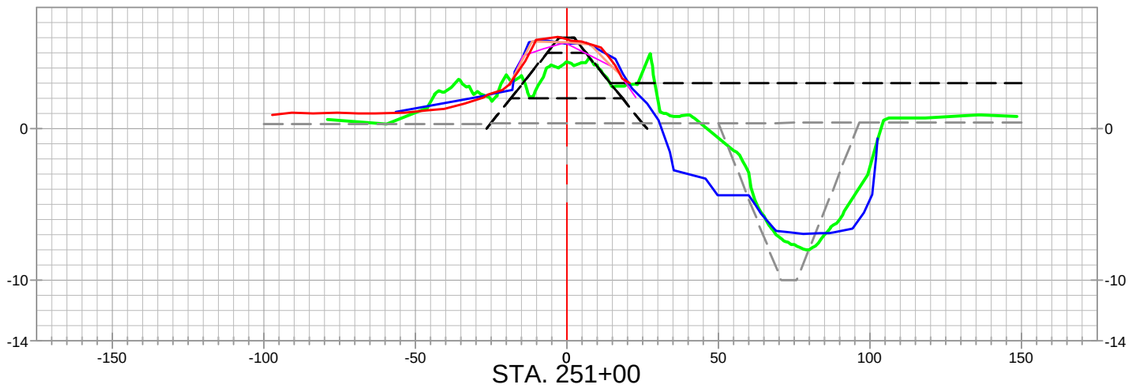
STA. 247+00



STA. 250+00



STA. 248+00



STA. 251+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

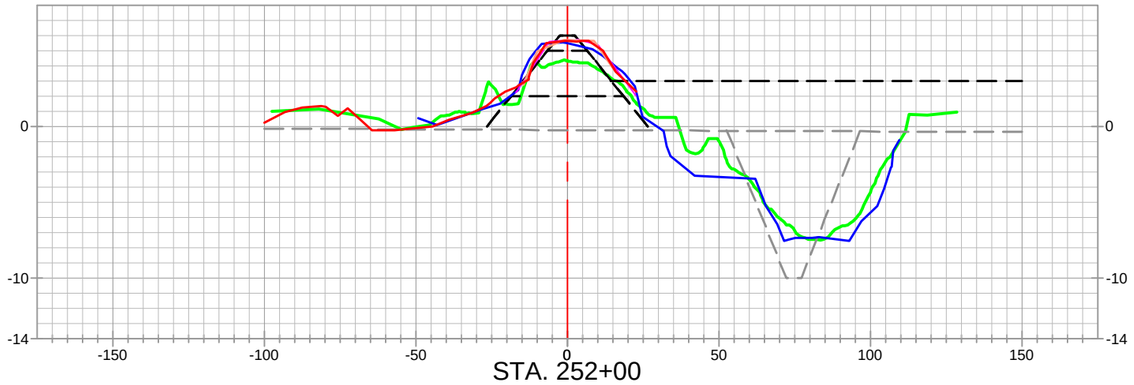
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

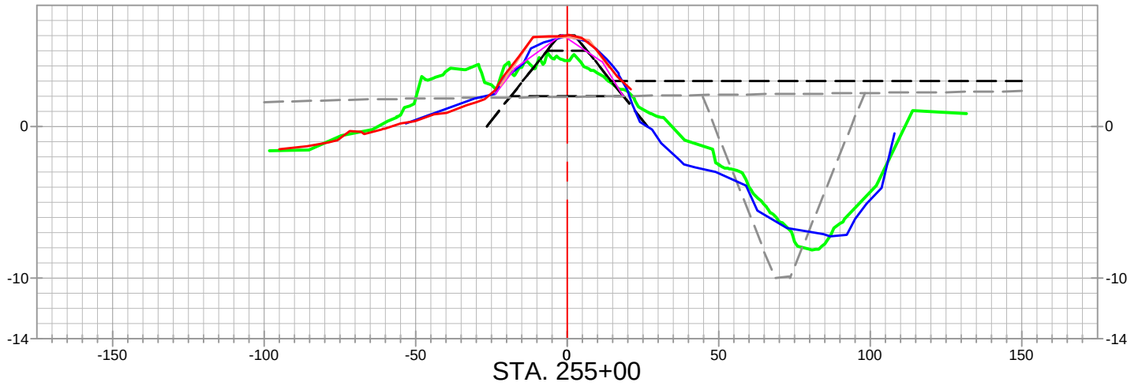
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 9 OF 25



STA. 252+00



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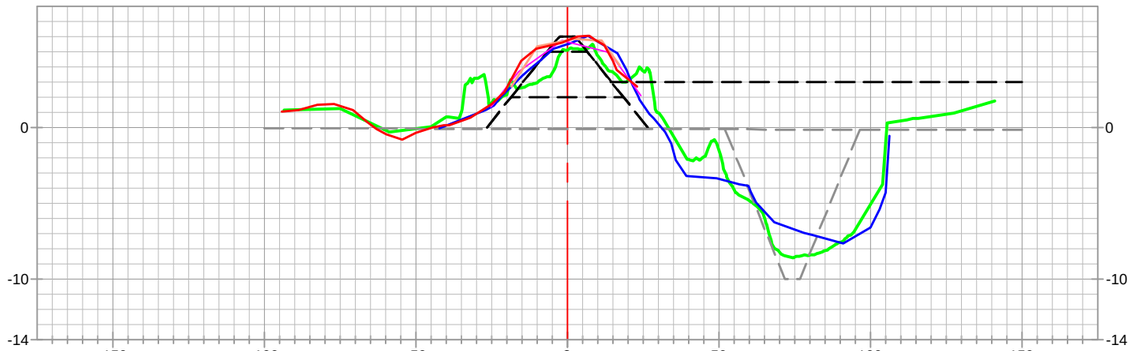

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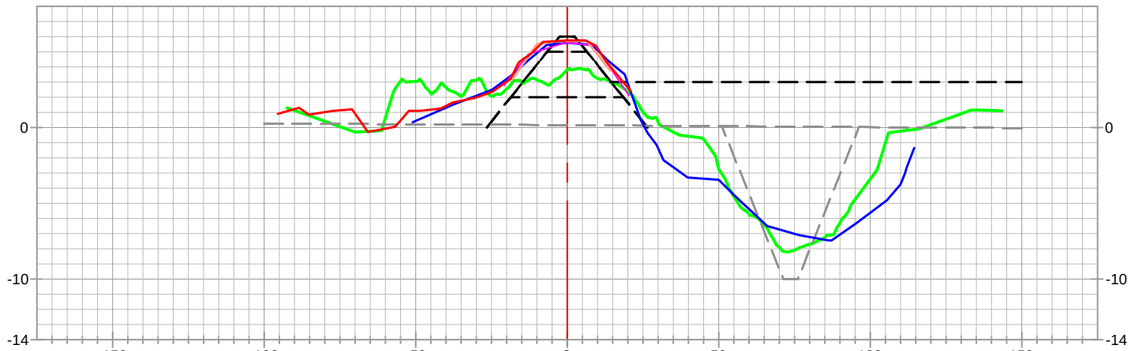

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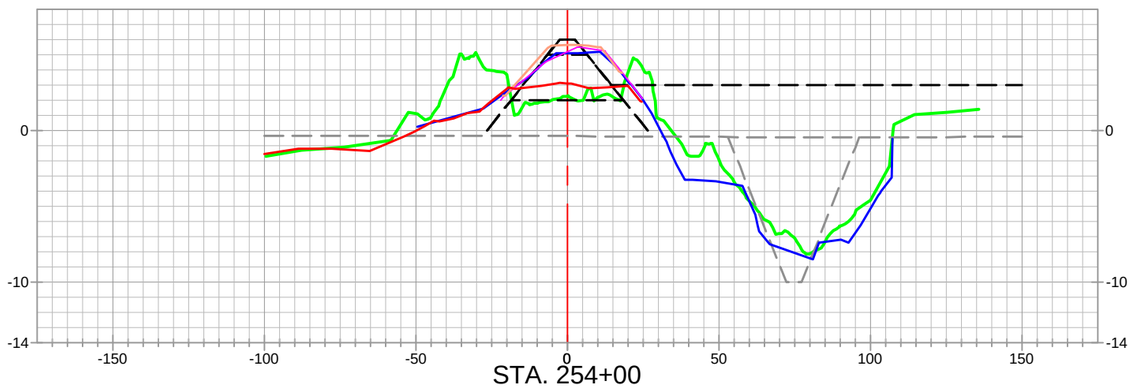

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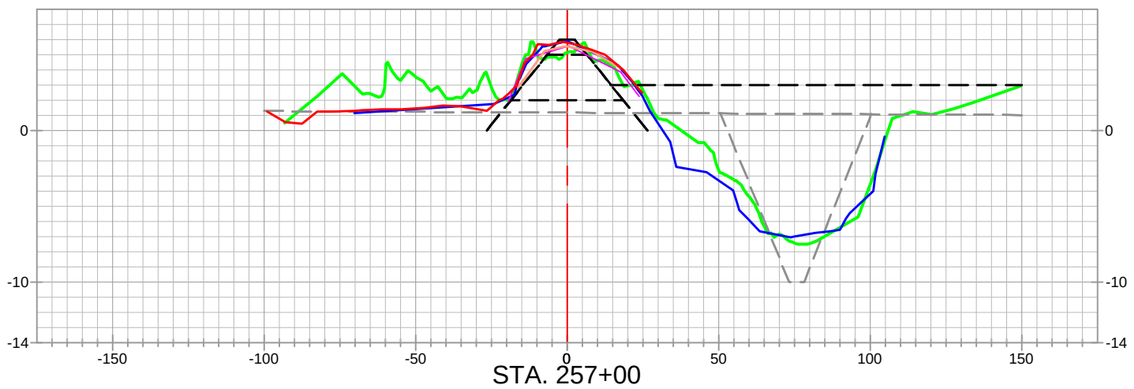


STA. 257+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

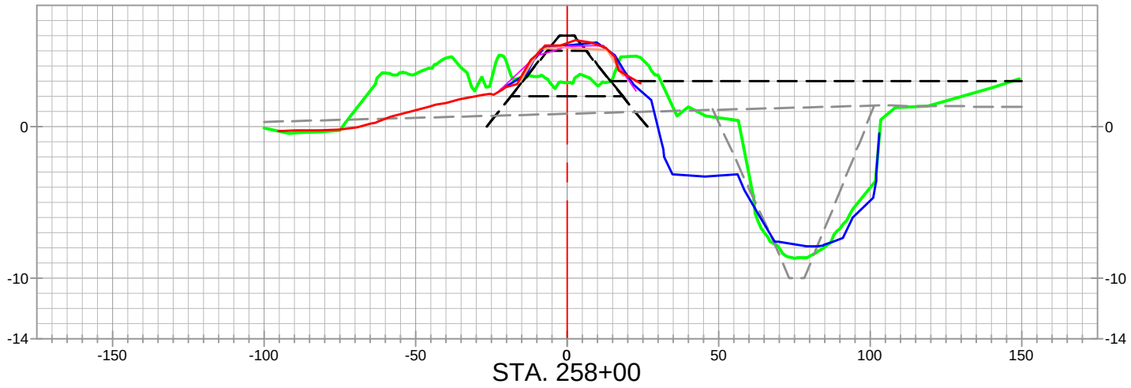
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

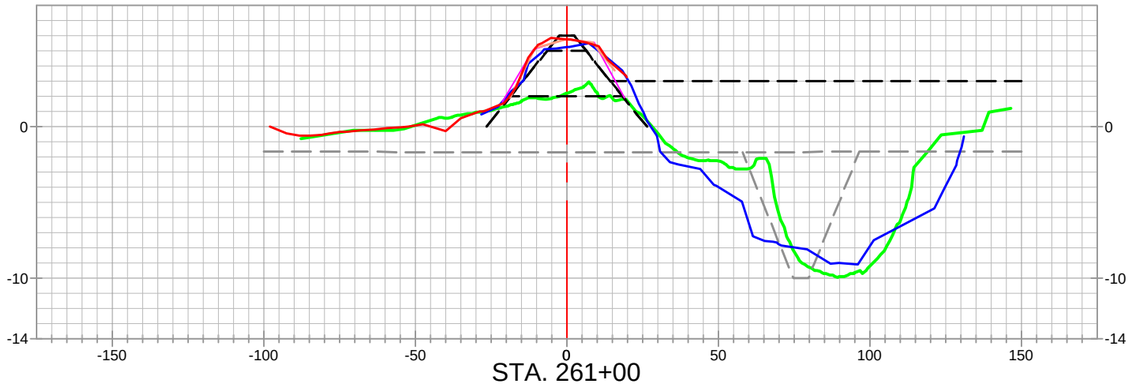
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS–BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 10 OF 25



STA. 258+00



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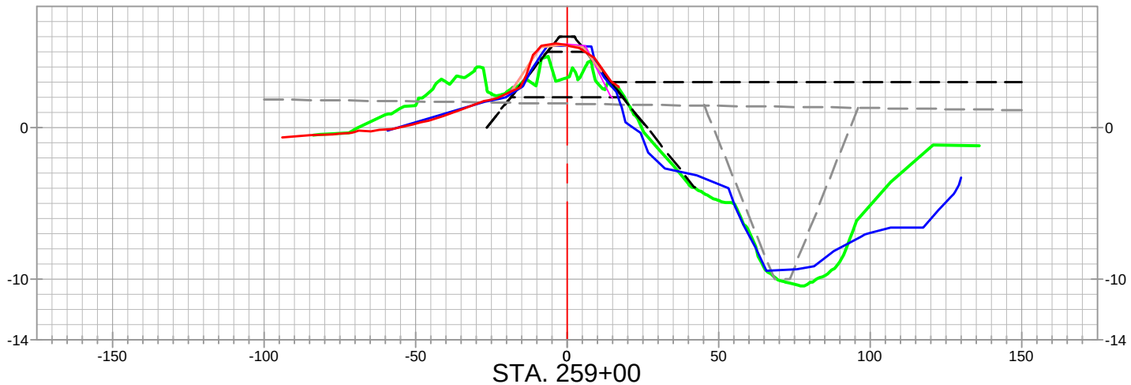

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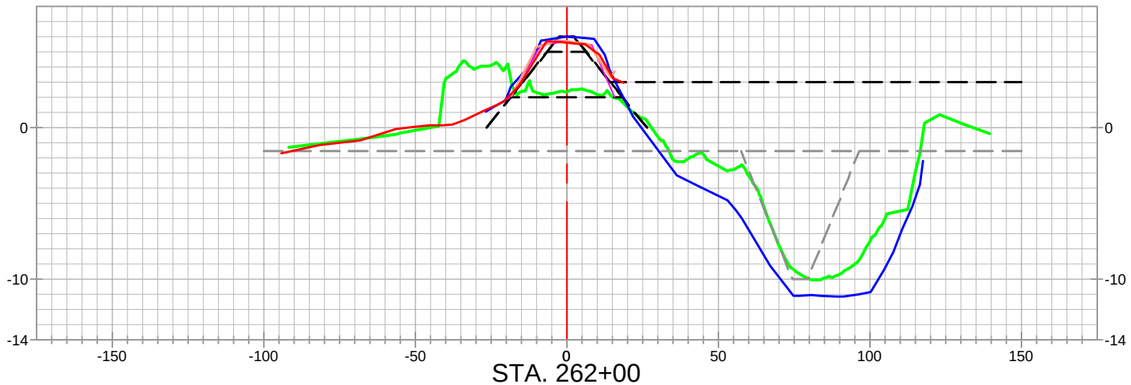

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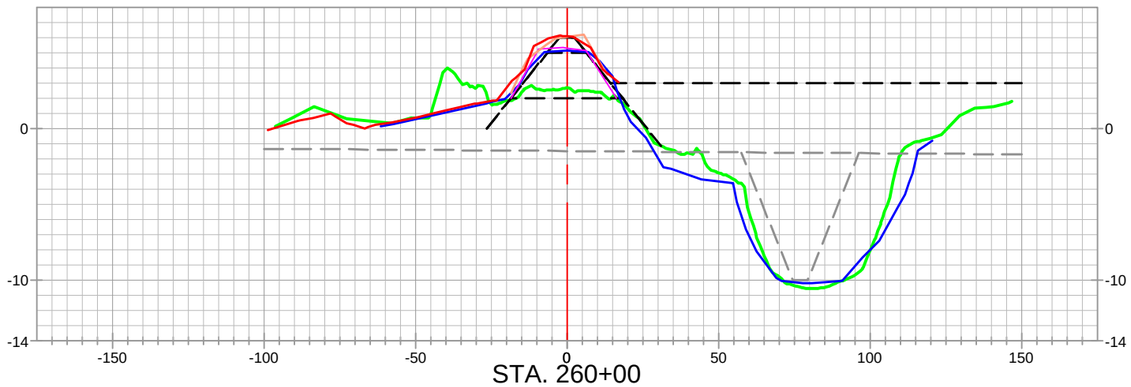

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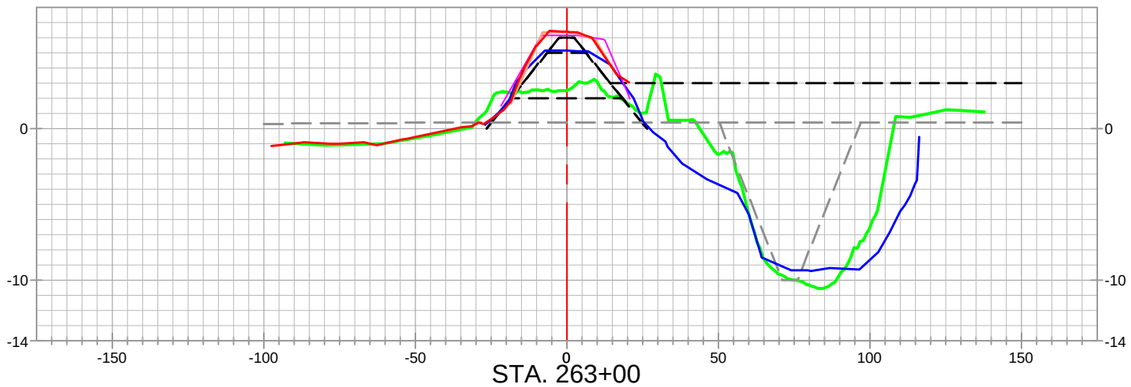


STA. 263+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

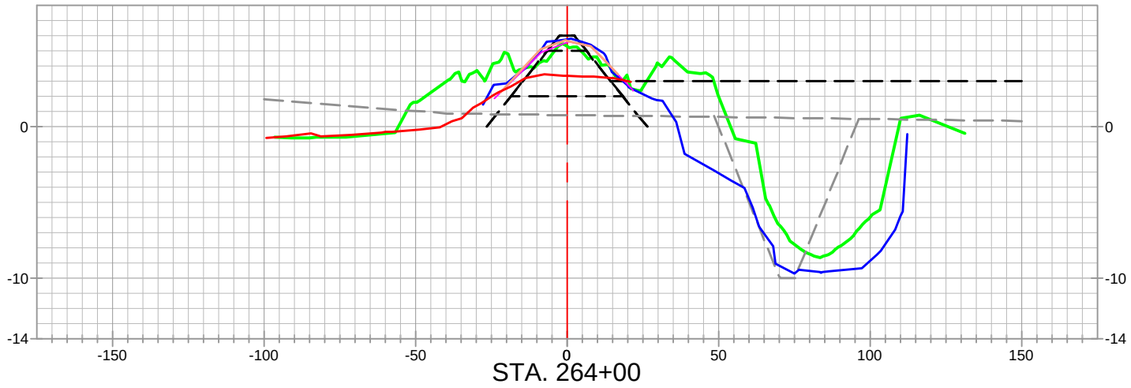
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

SHEET: 11 OF 25



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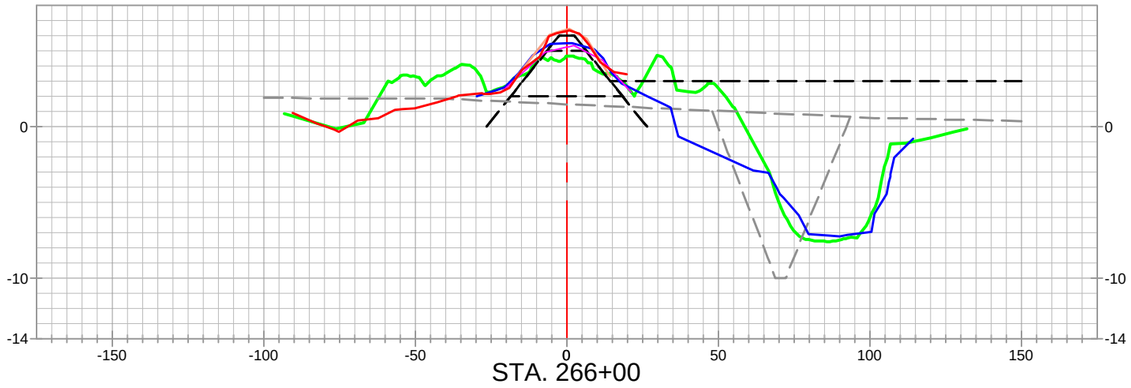

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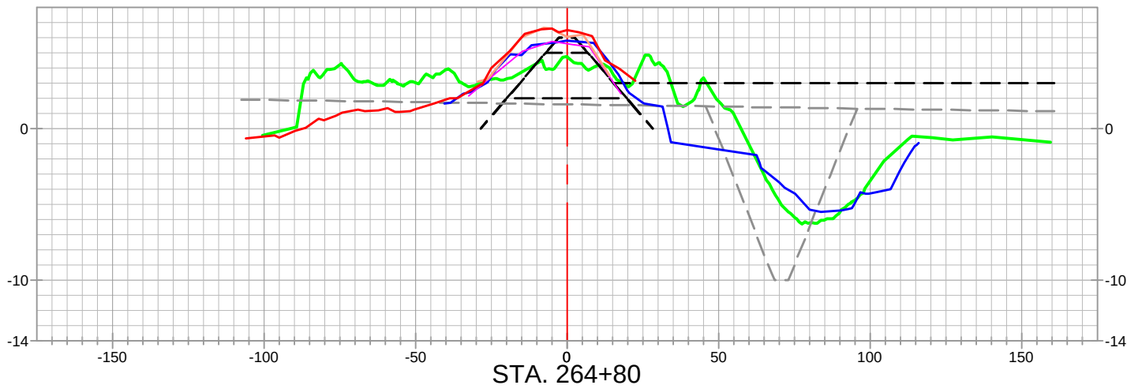

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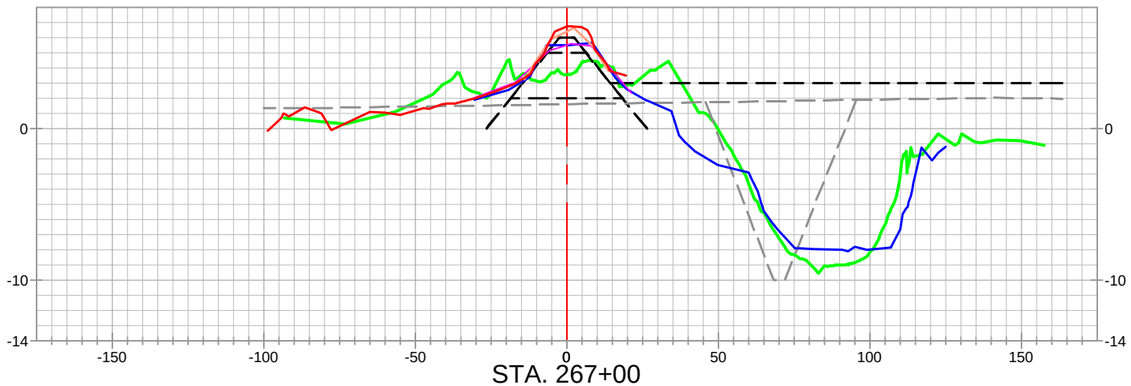
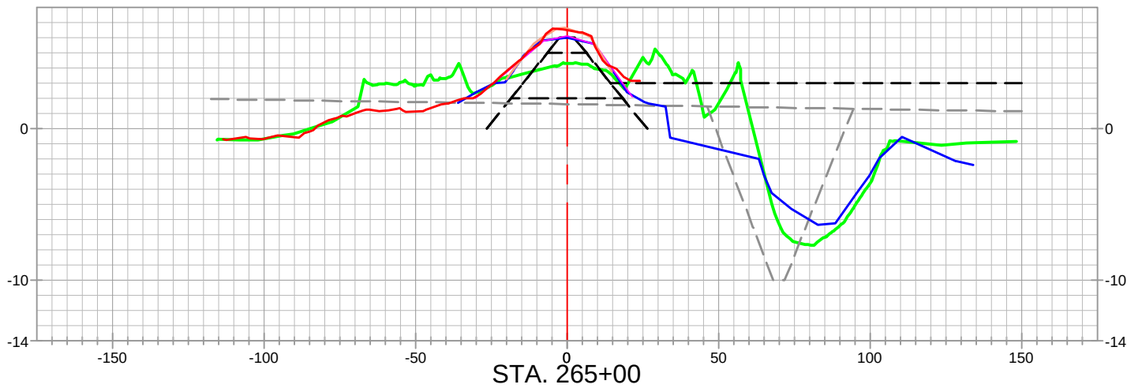
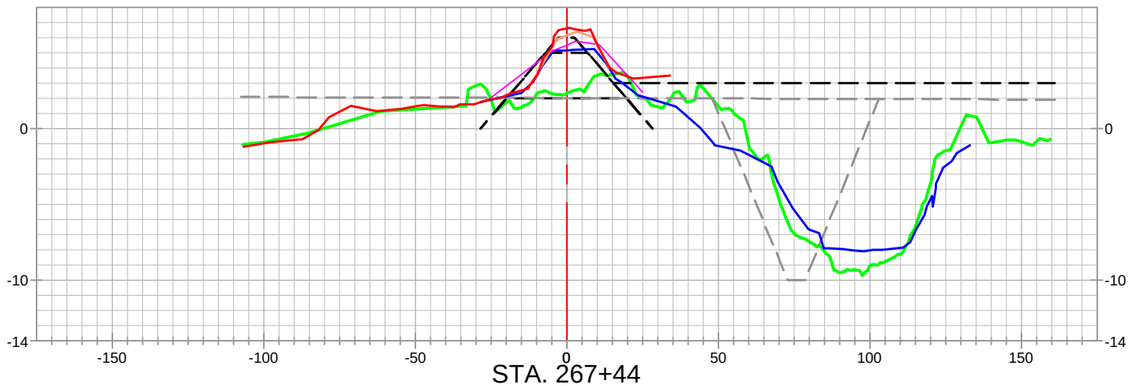


STA. 267+00



STA. 265+00



STA. 267+44

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

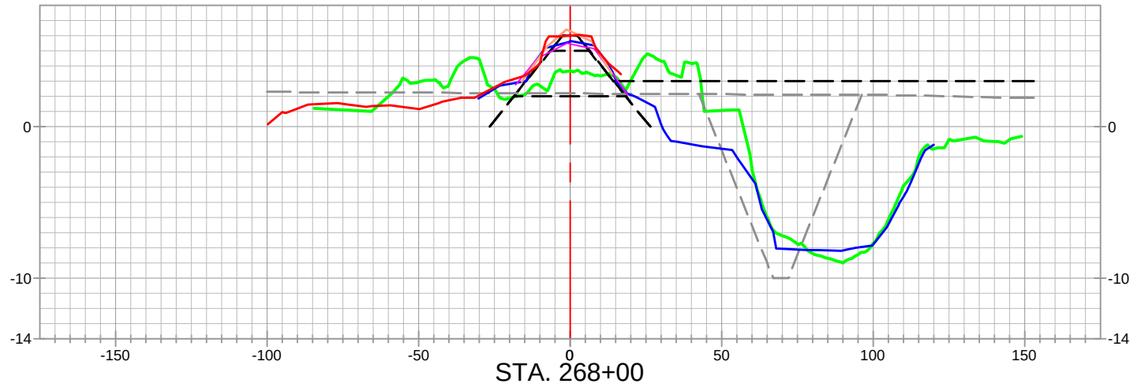
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

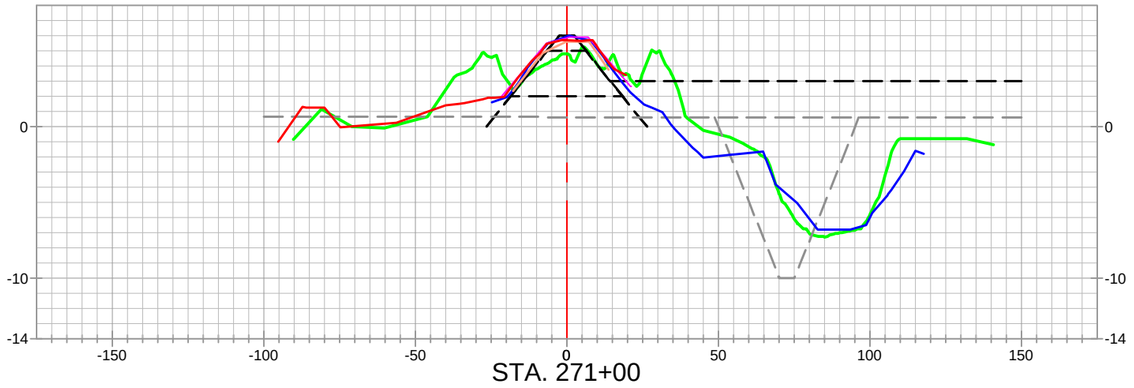
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg



STA. 268+00



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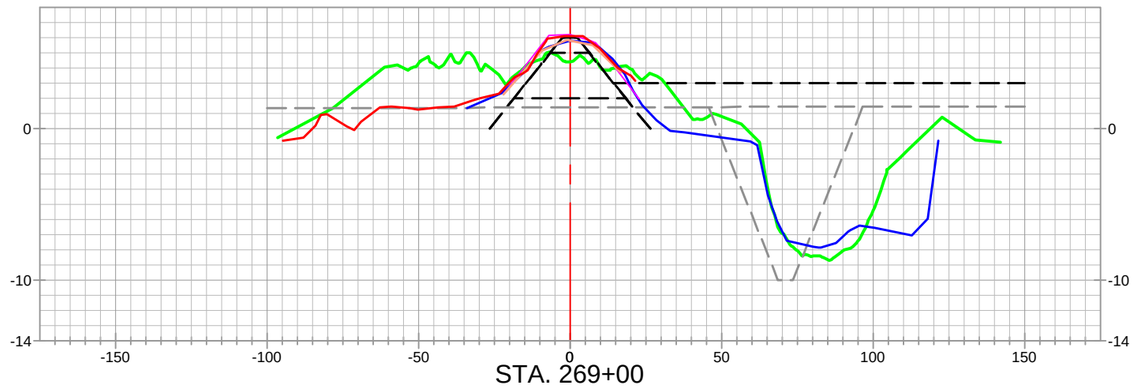
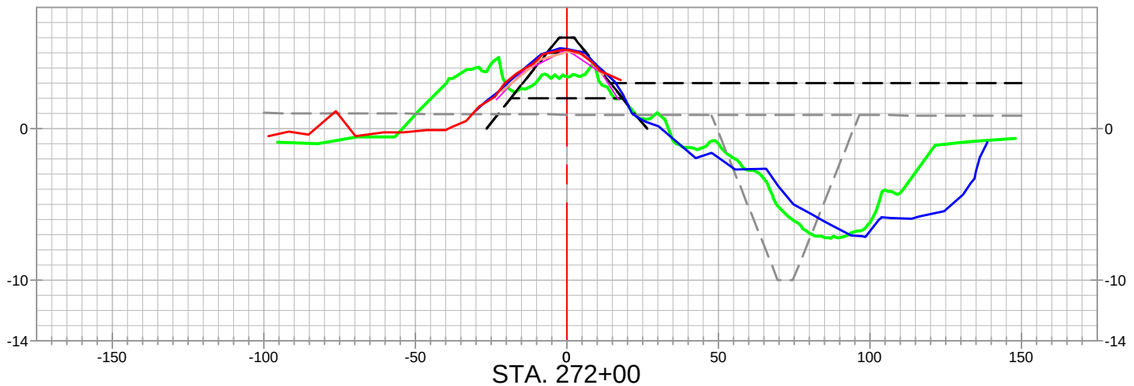
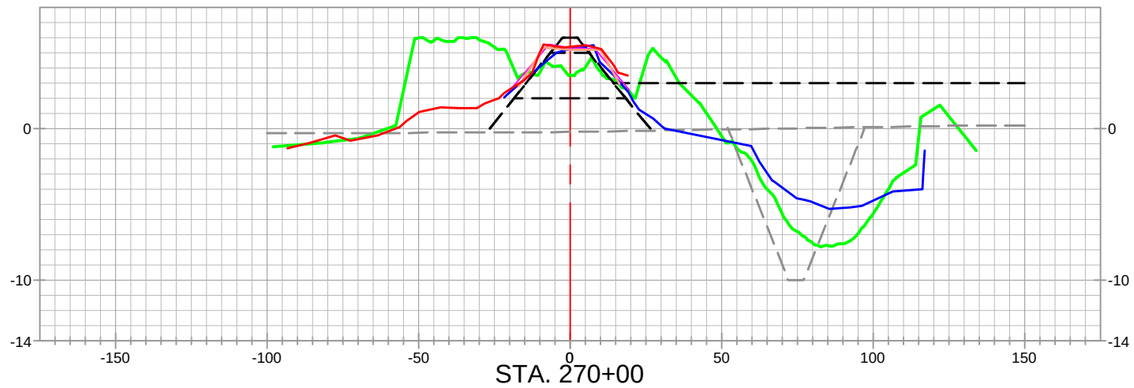


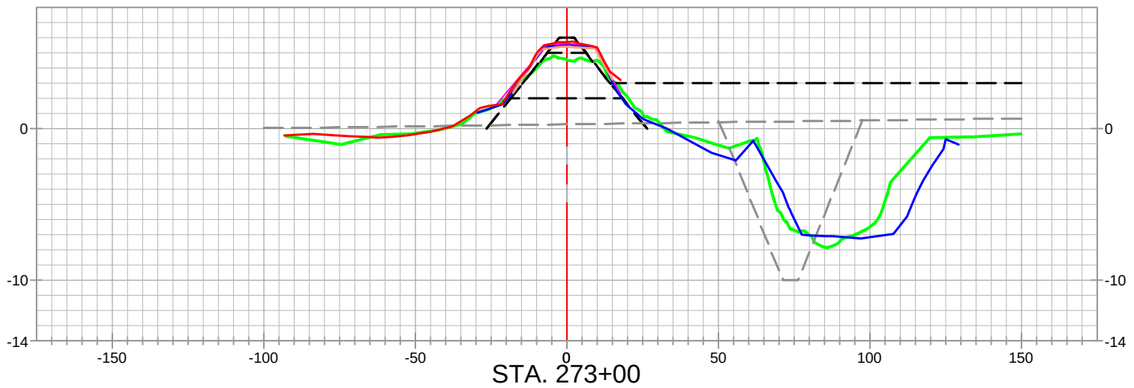
STA. 269+00



STA. 272+00



STA. 270+00



STA. 273+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

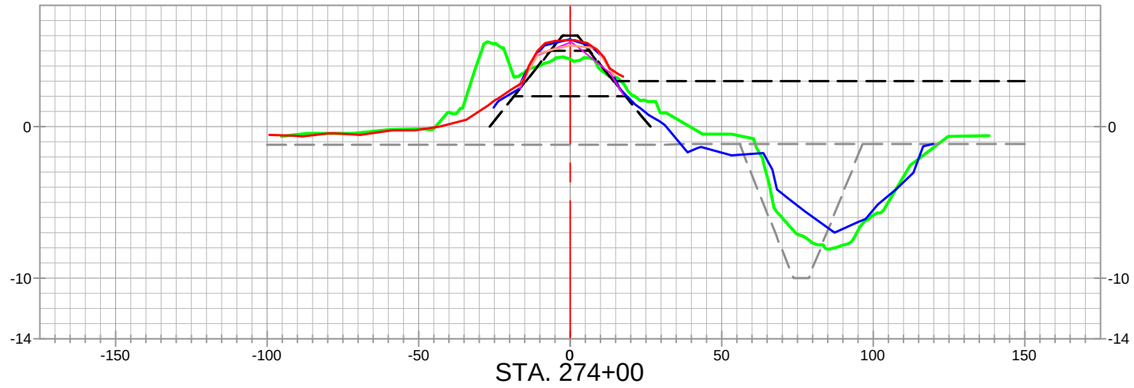
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

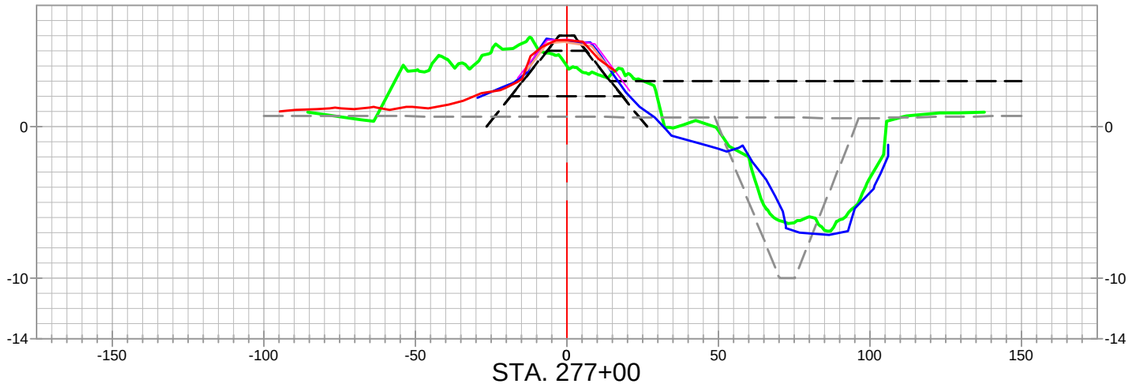
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

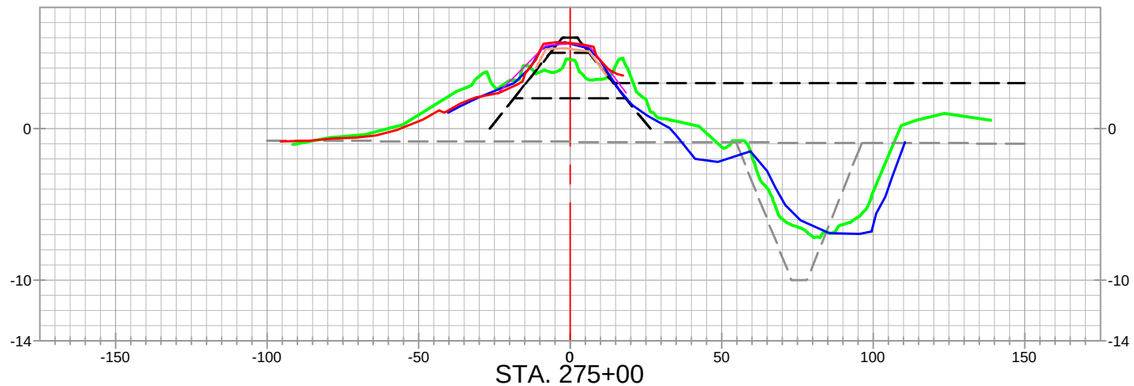
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg



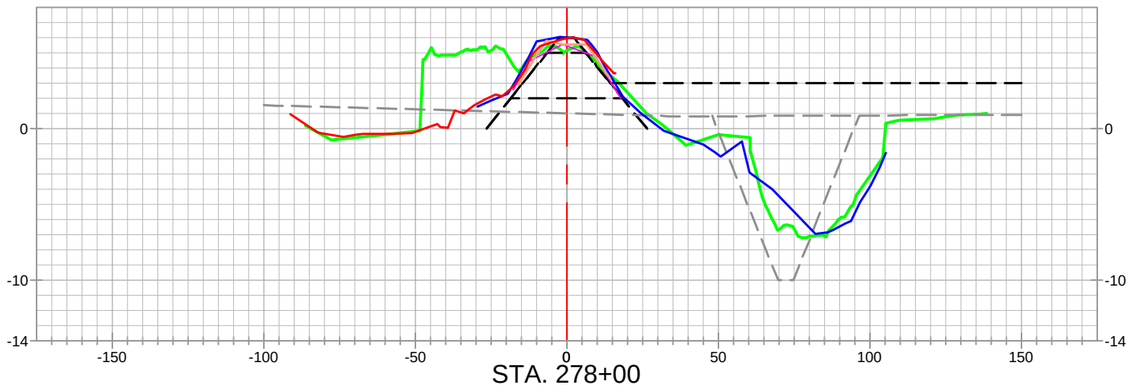
STA. 274+00



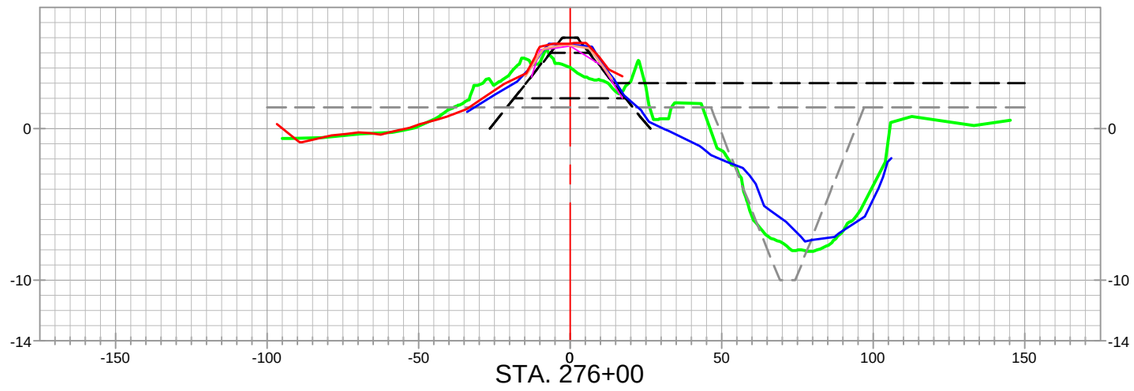
STA. 277+00



STA. 275+00



STA. 278+00



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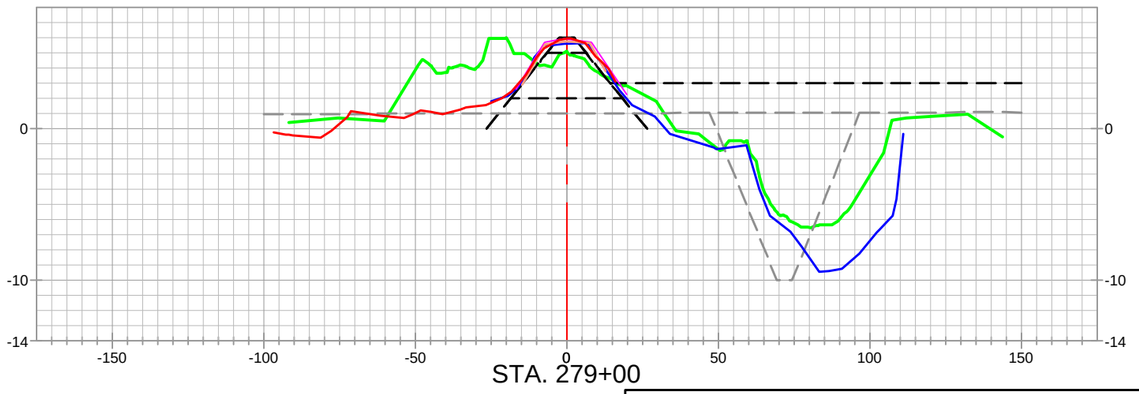

STA. 279+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
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- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

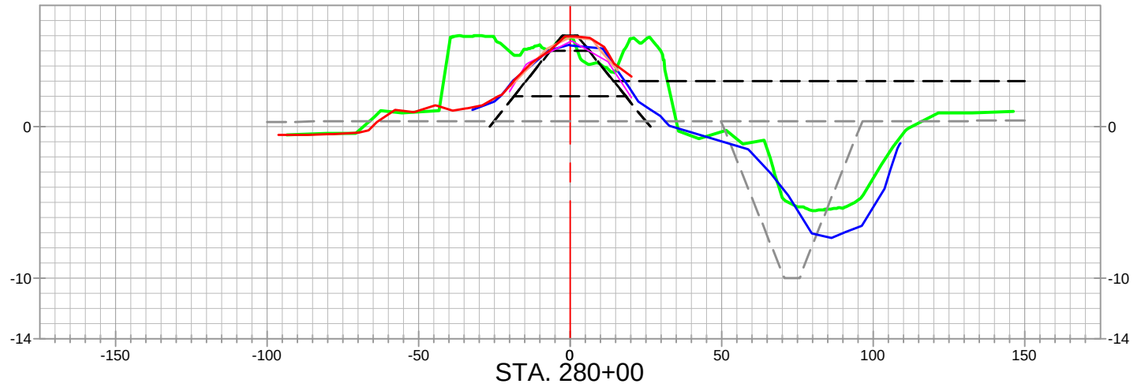
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

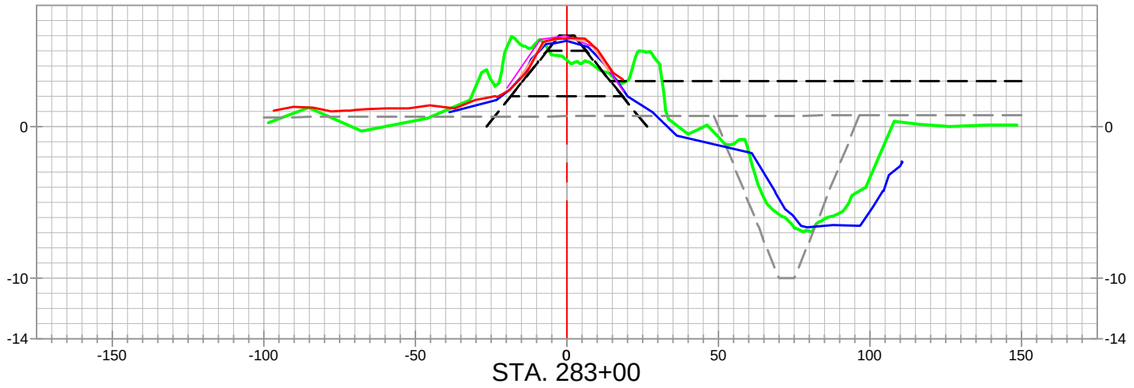
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

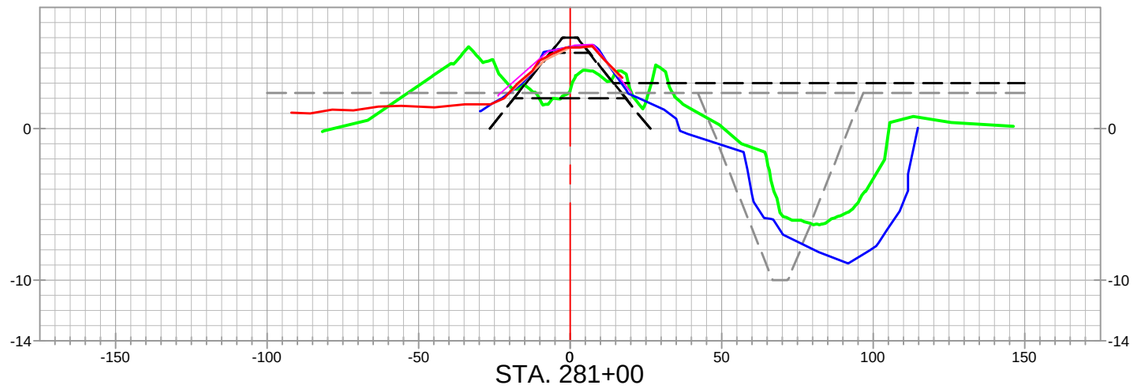
SHEET: 14 OF 25



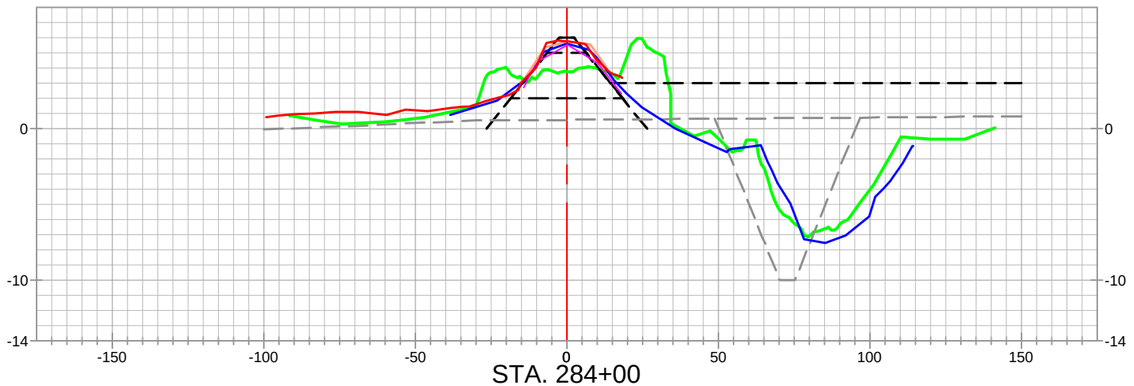
STA. 280+00



STA. 283+00



STA. 281+00



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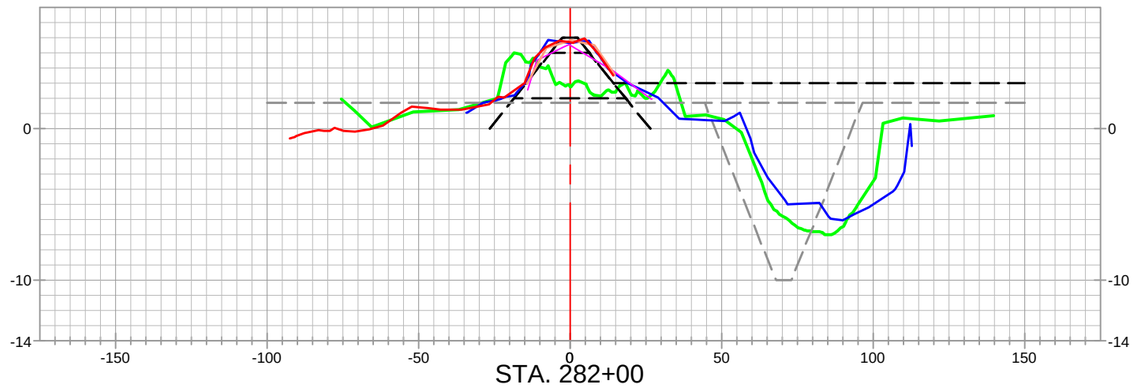

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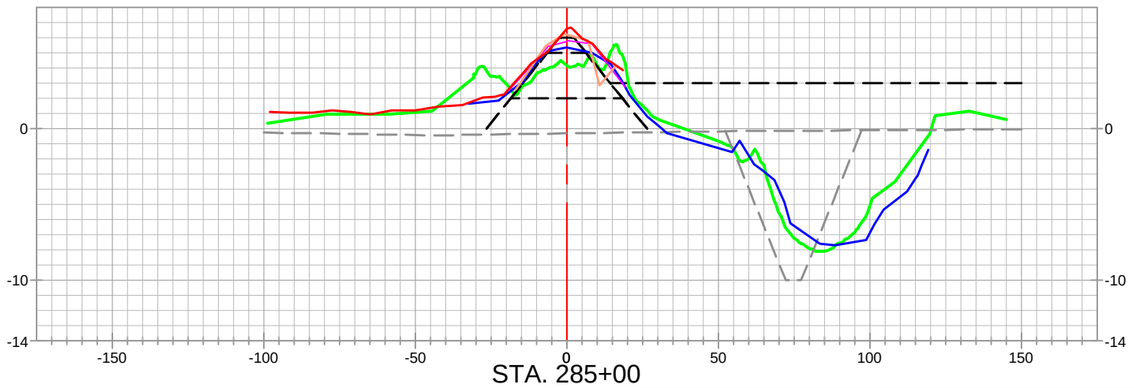


STA. 285+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

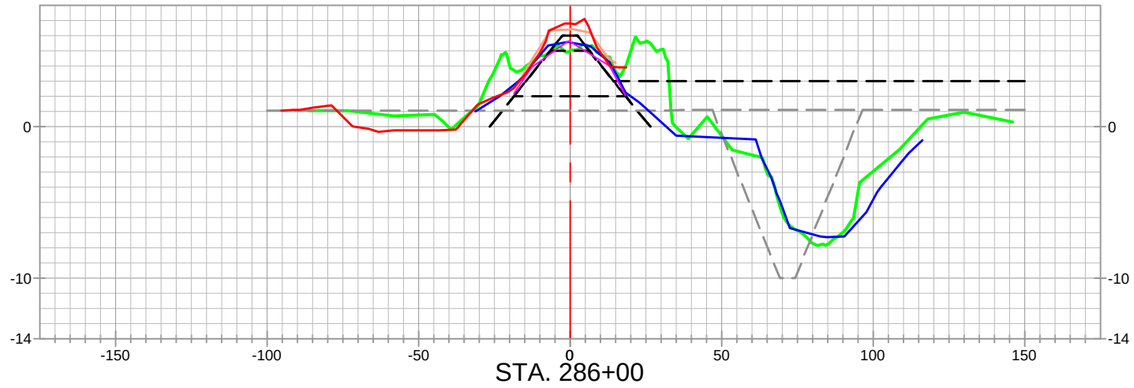
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

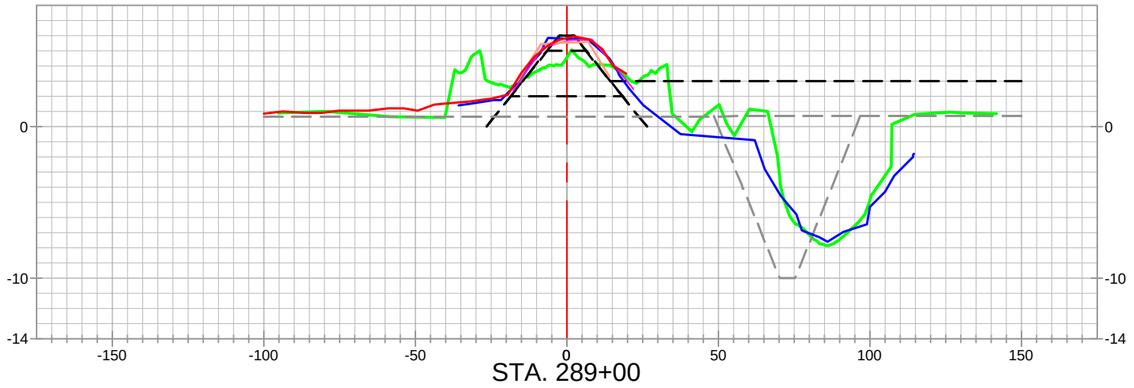
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

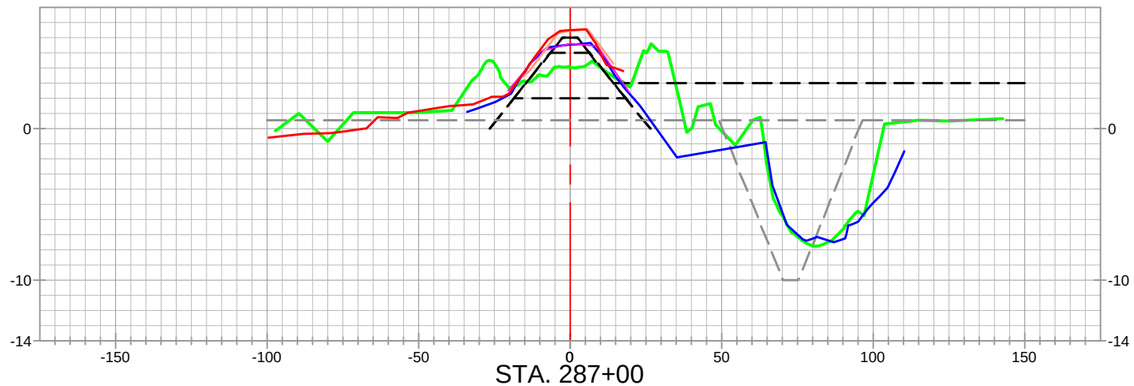
SHEET: 15 OF 25



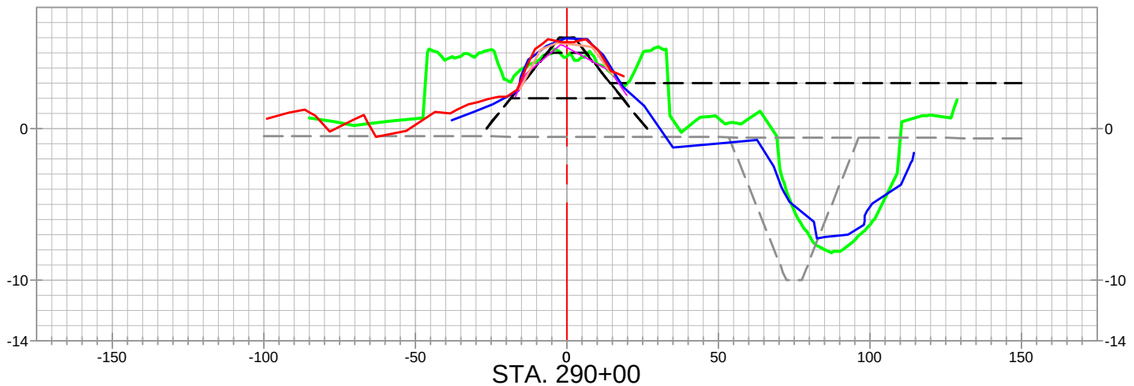
STA. 286+00



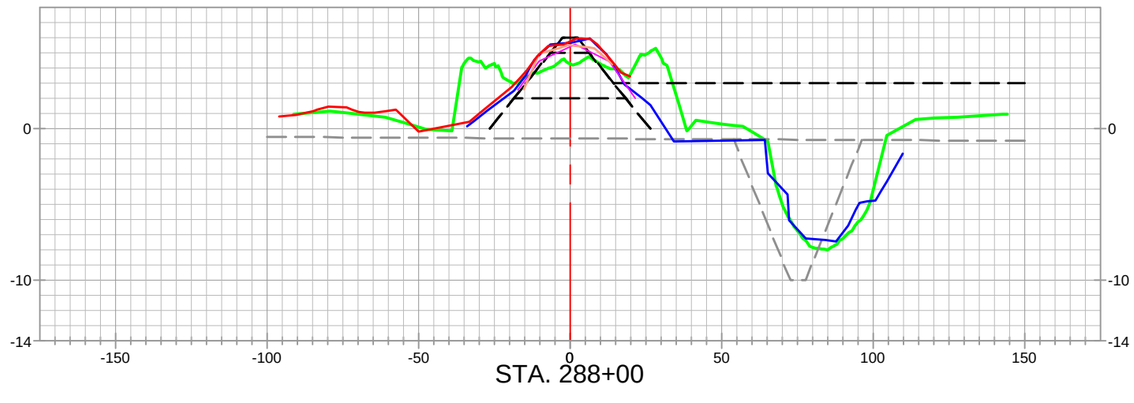
STA. 289+00



STA. 287+00



STA. 290+00



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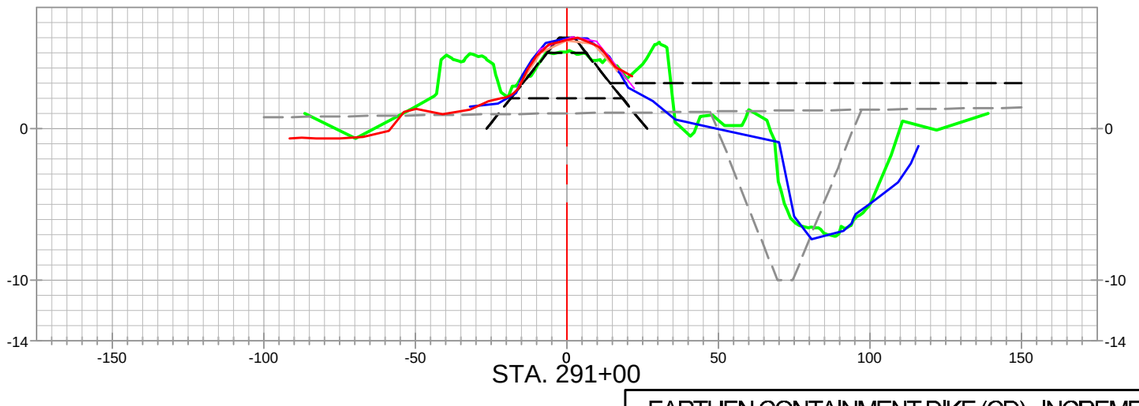


STA. 291+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

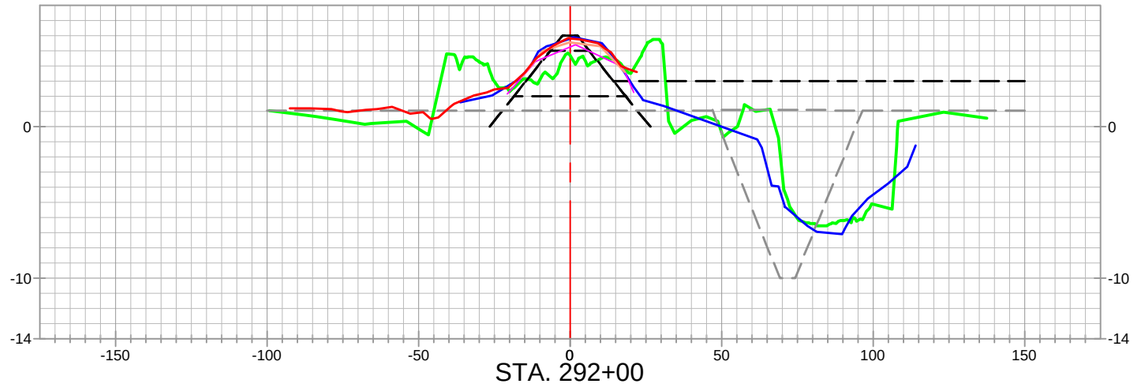
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 16 OF 25



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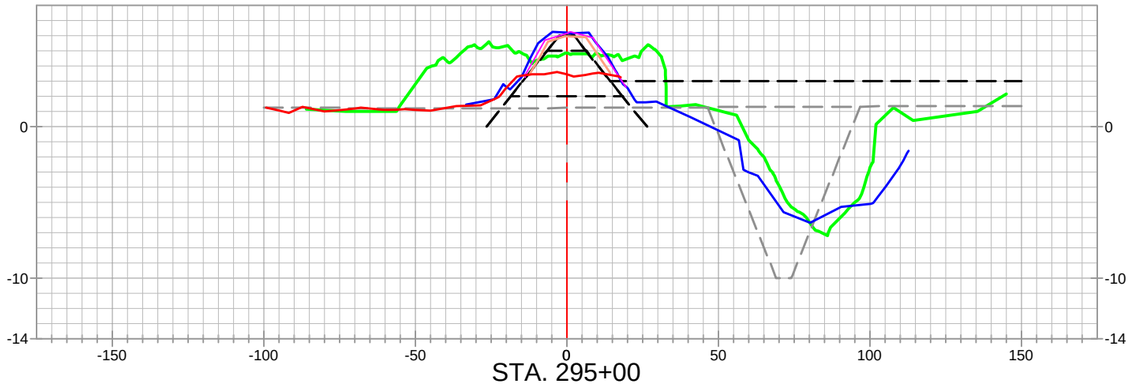

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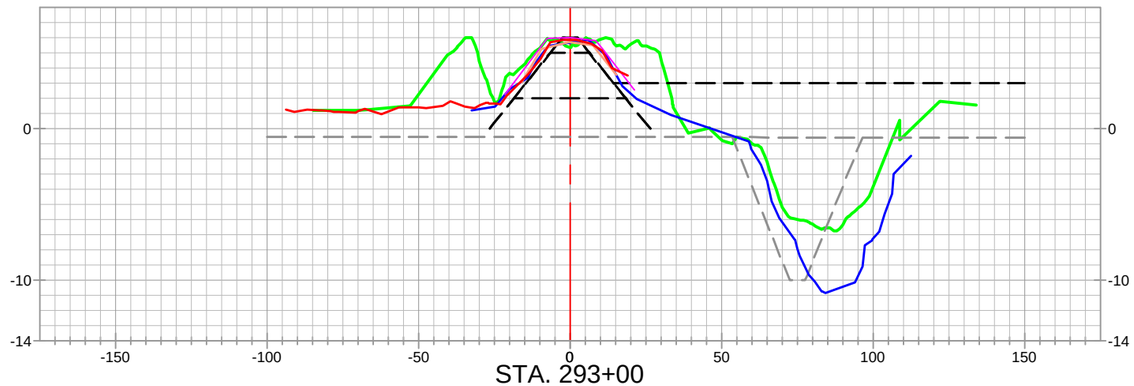
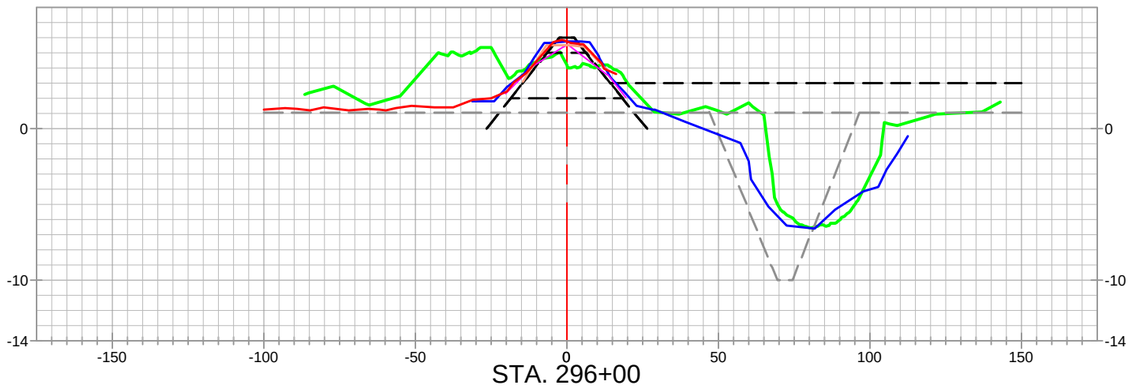
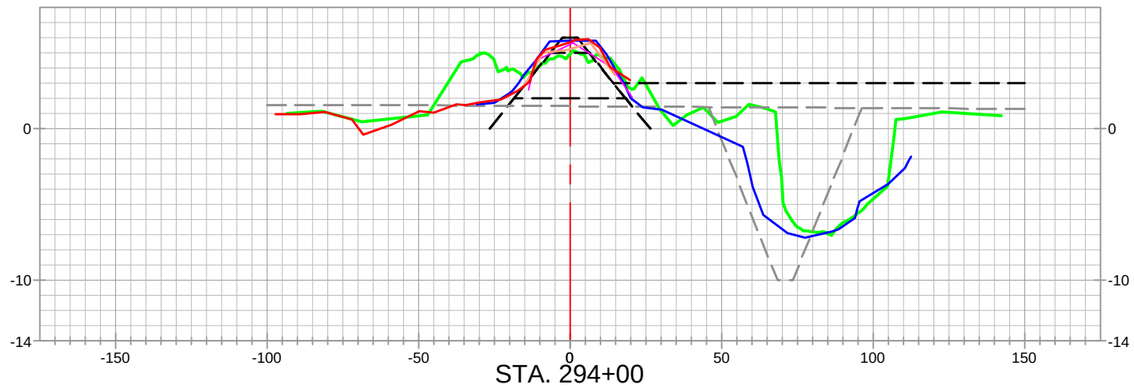


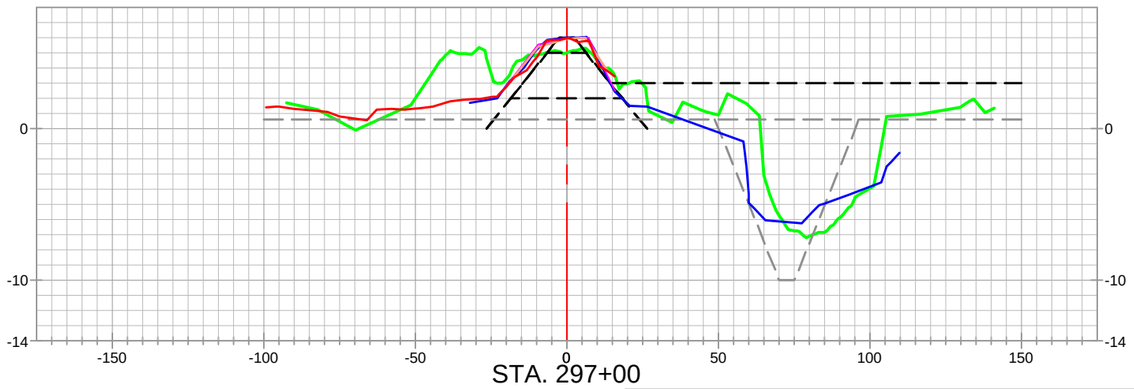
STA. 293+00



STA. 296+00



STA. 294+00



STA. 297+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

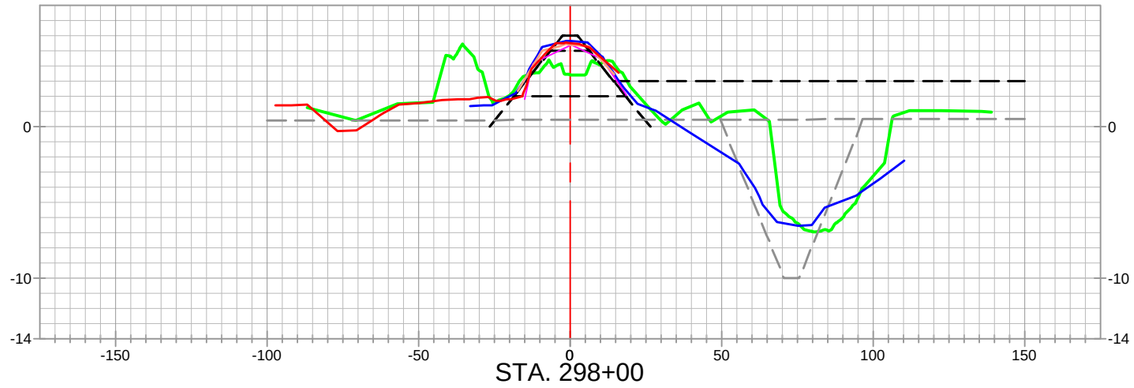
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 17 OF 25



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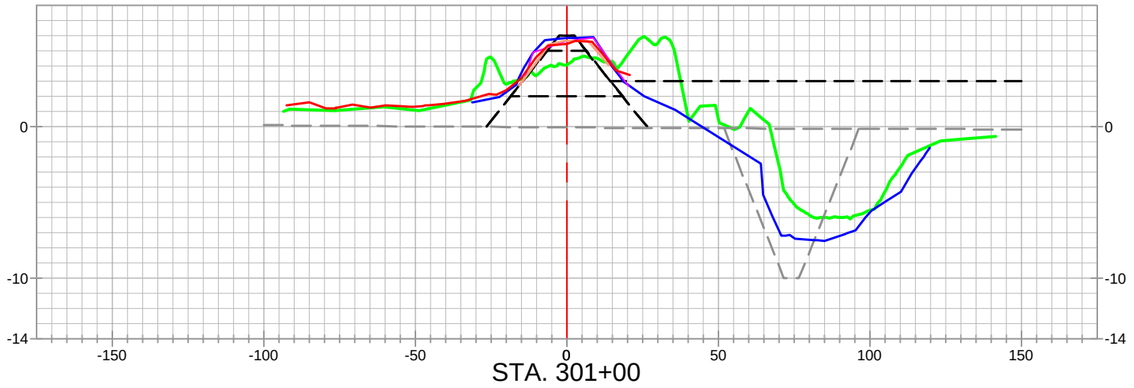

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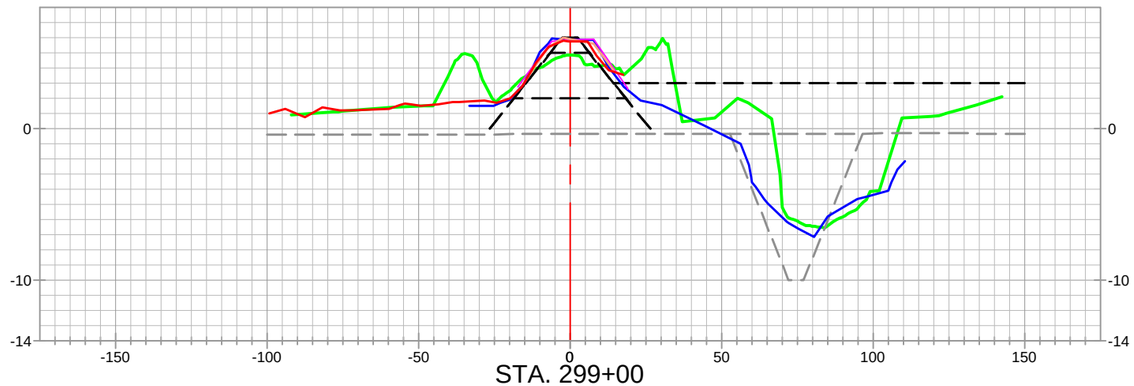
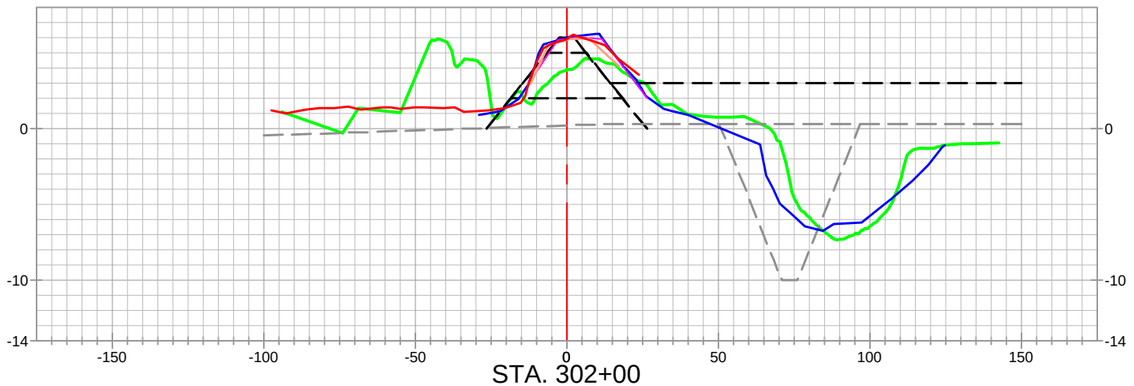
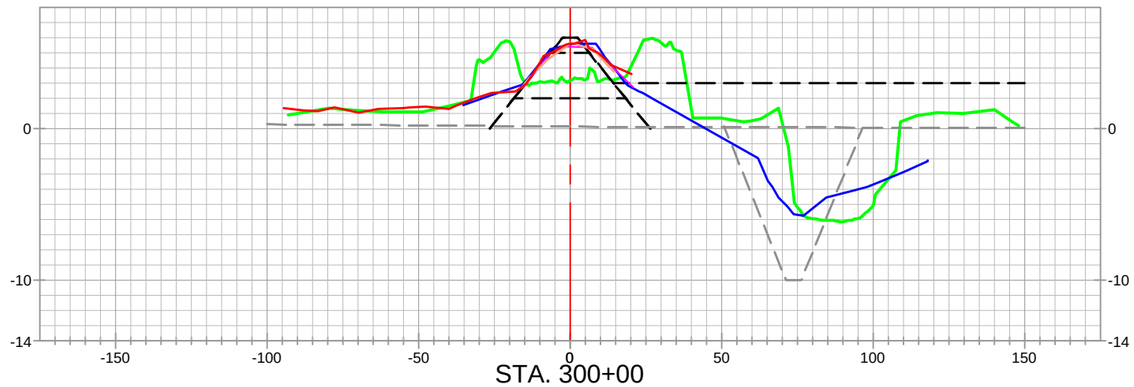


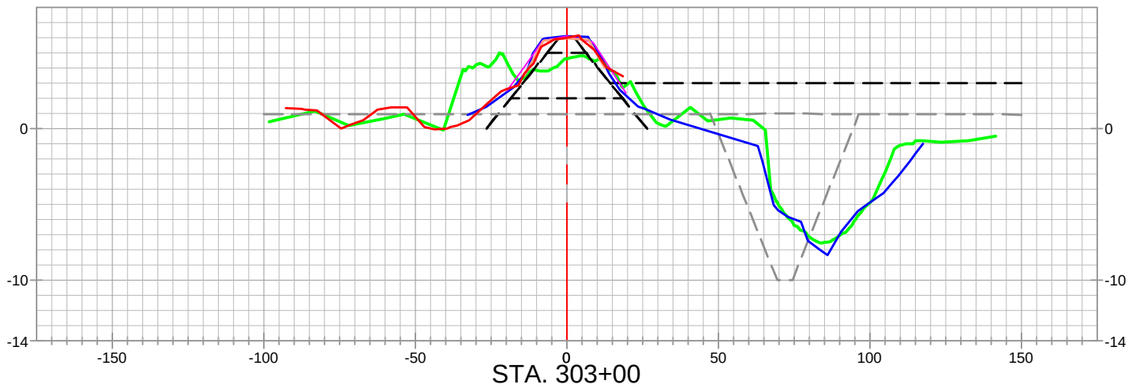
STA. 299+00



STA. 302+00



STA. 300+00



STA. 303+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

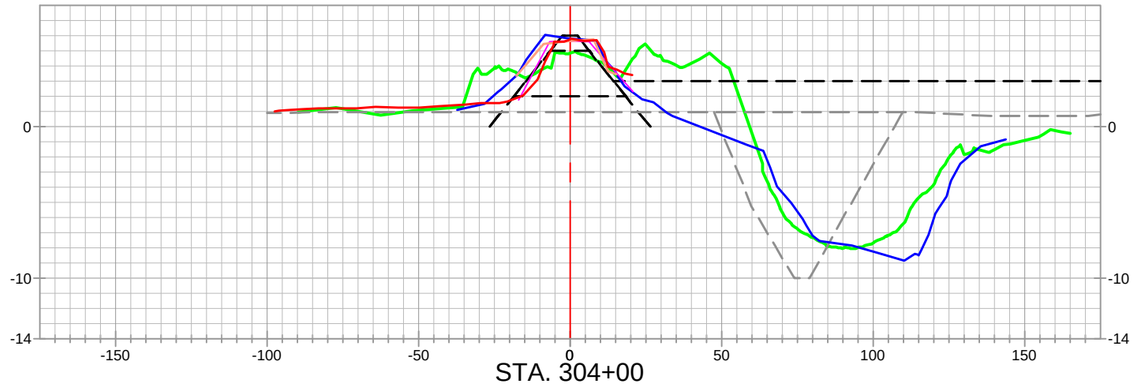
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

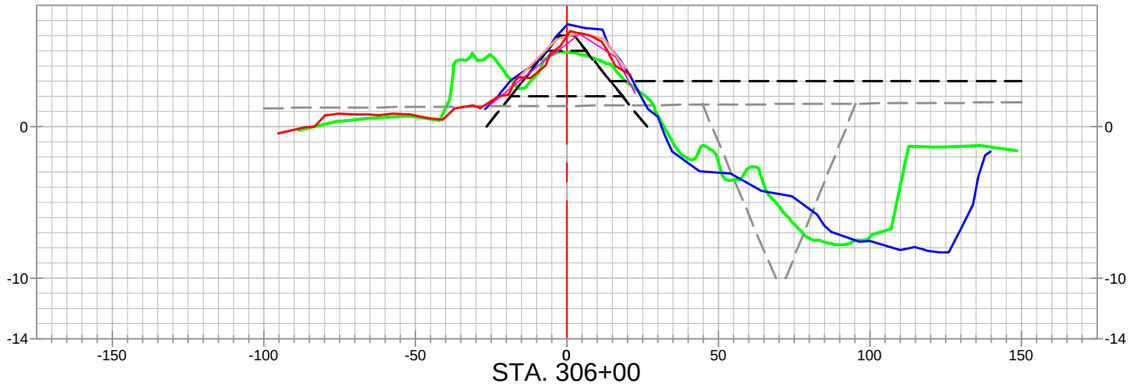
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

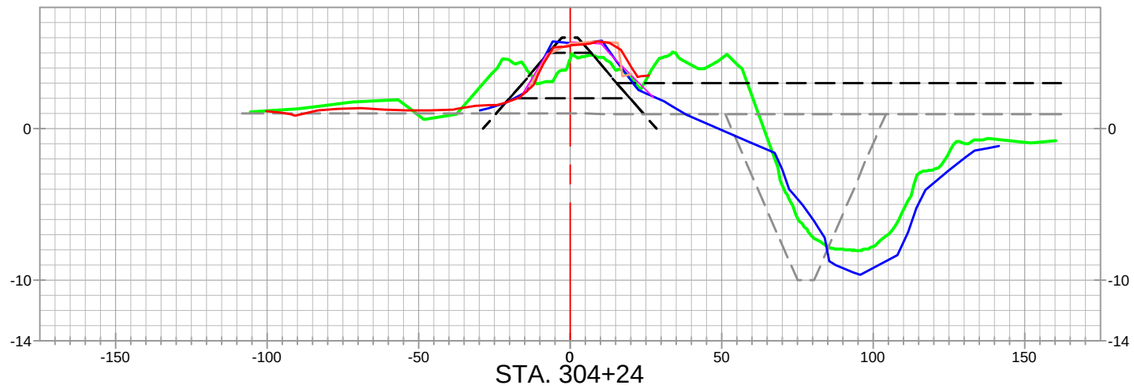
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 18 OF 25



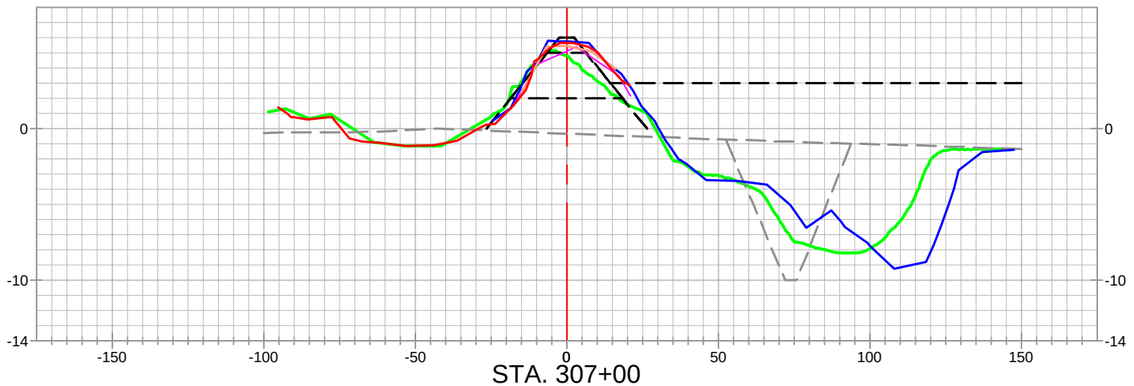
STA. 304+00



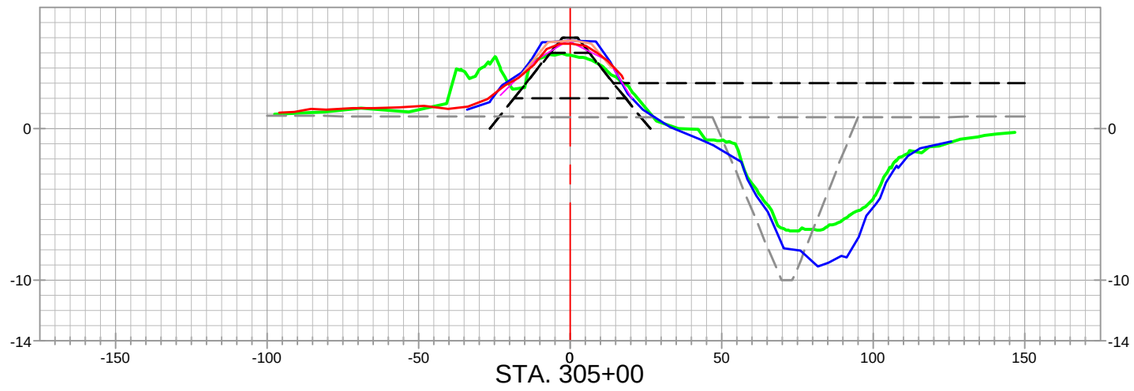
STA. 306+00



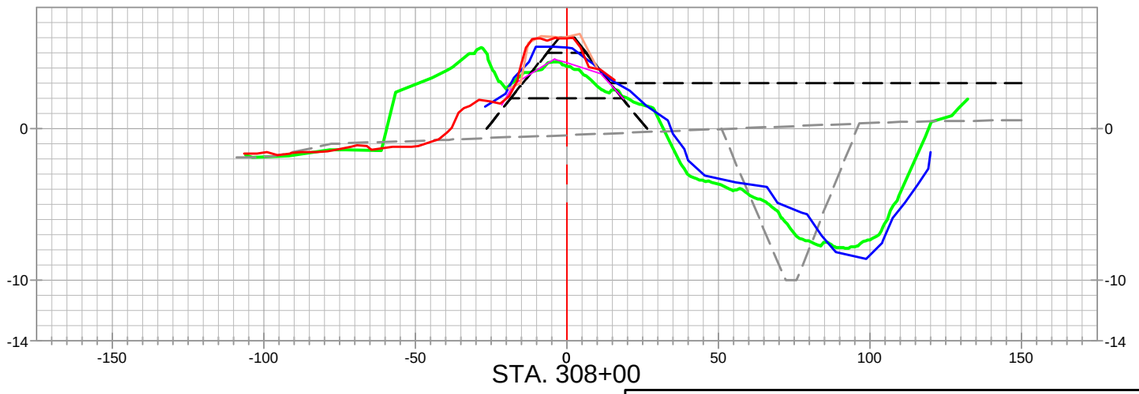
STA. 304+24



STA. 307+00



STA. 305+00



STA. 308+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

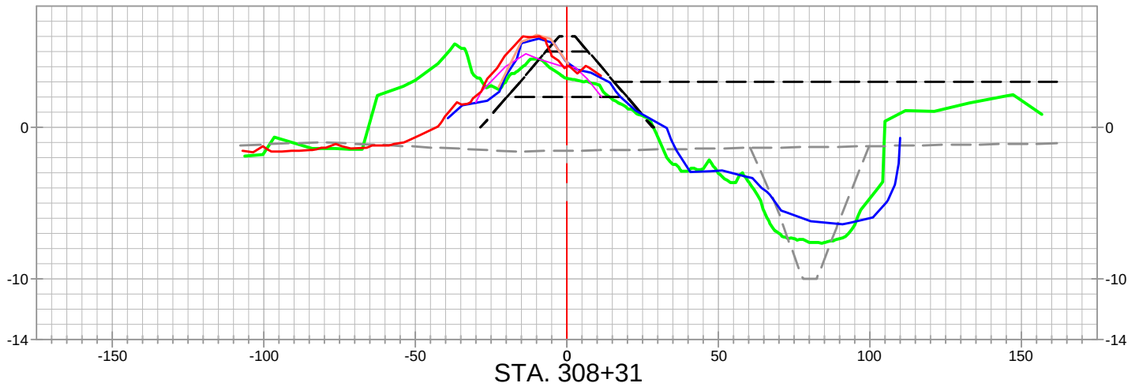
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

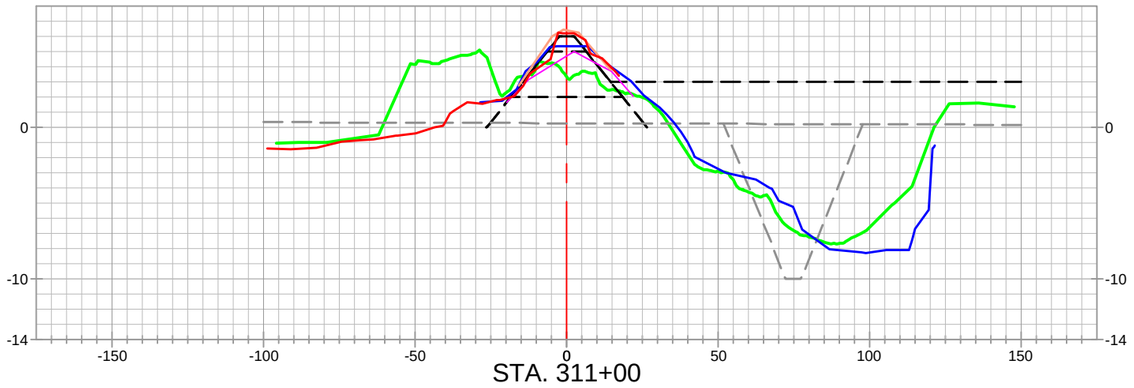
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

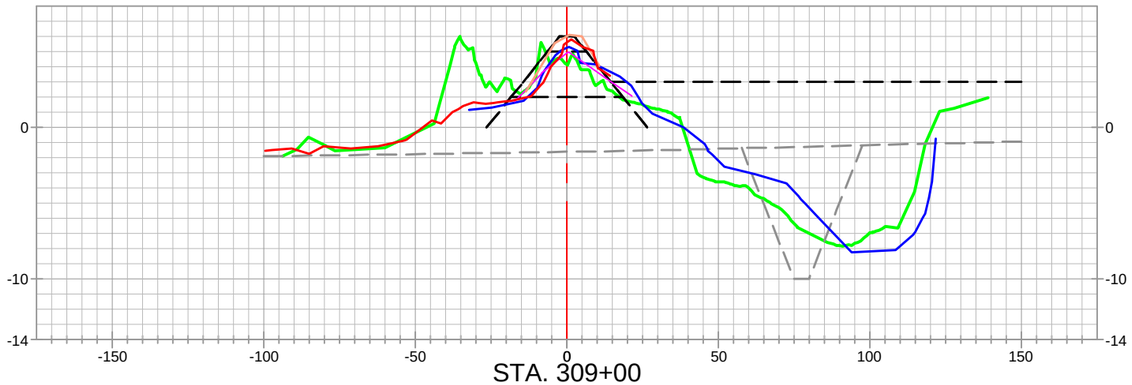
SHEET: 19 OF 25



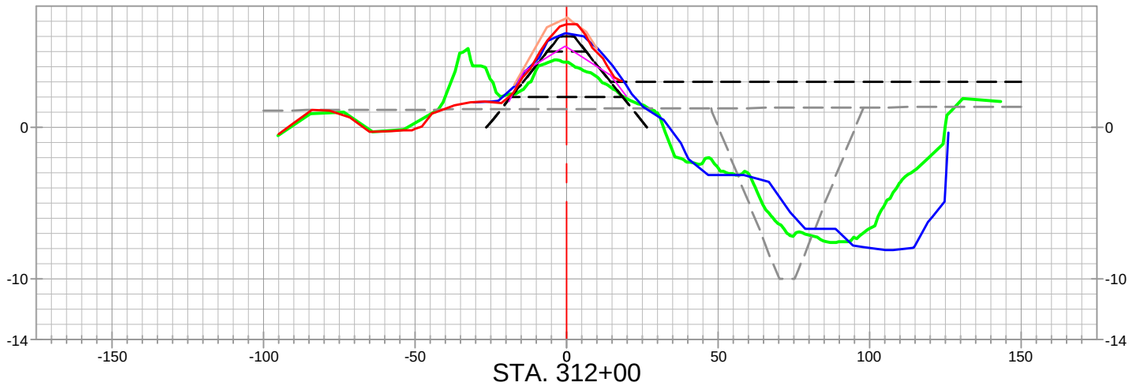
STA. 308+31



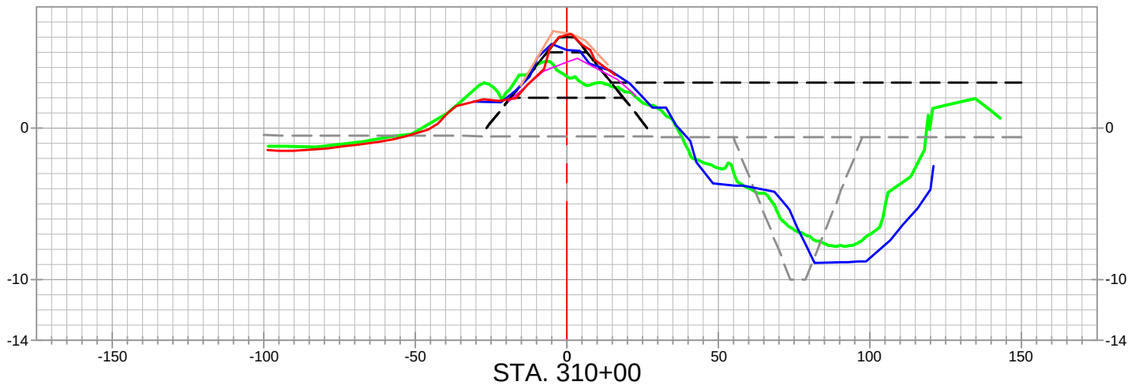
STA. 311+00



STA. 309+00



STA. 312+00



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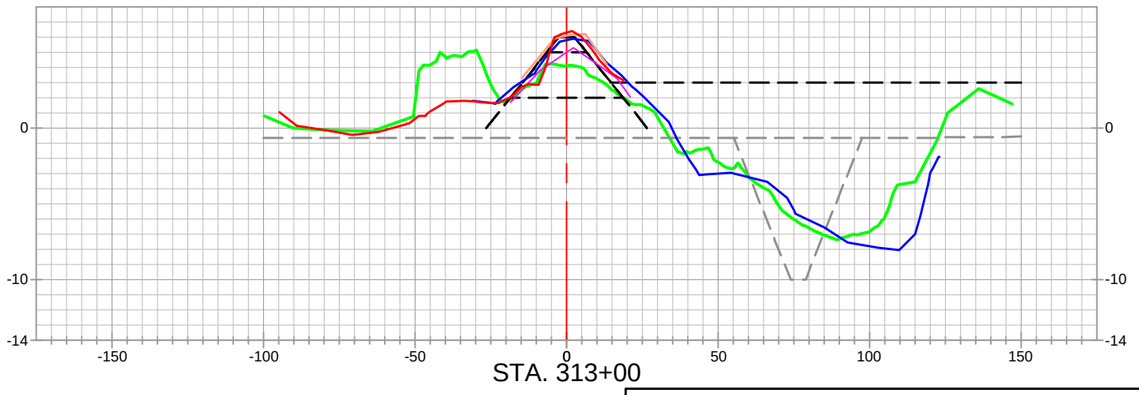


STA. 313+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

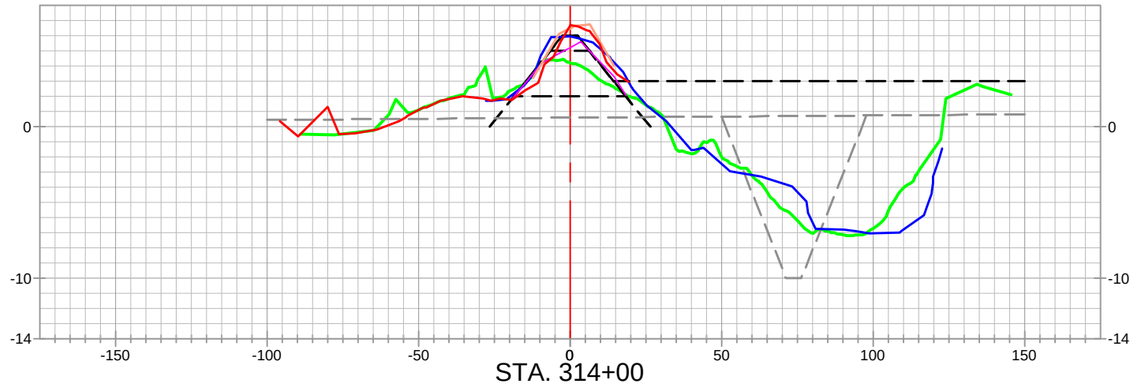
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

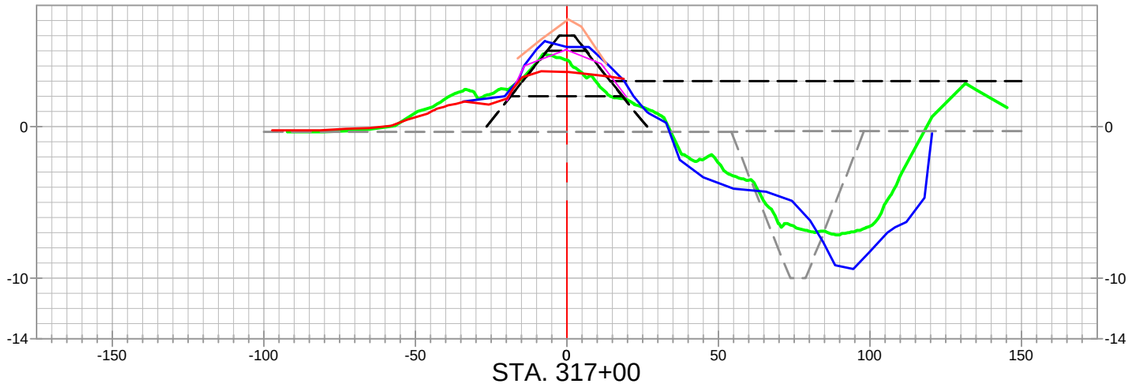
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 20 OF 25



STA. 314+00



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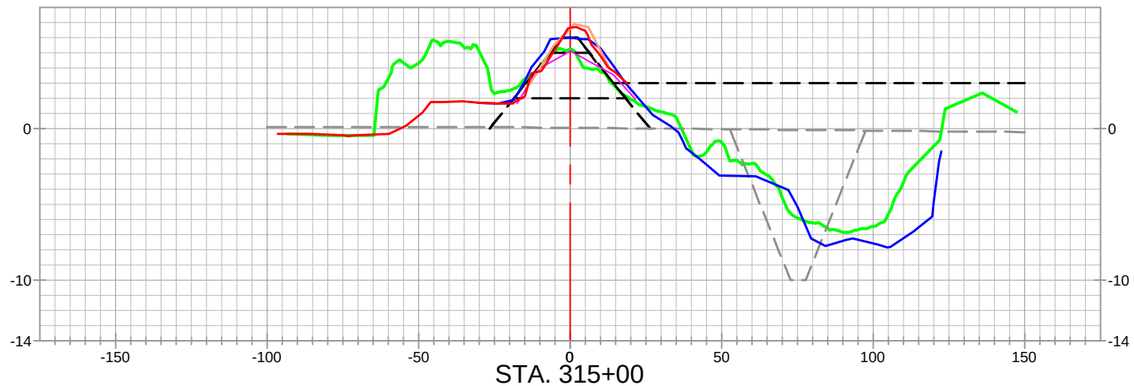

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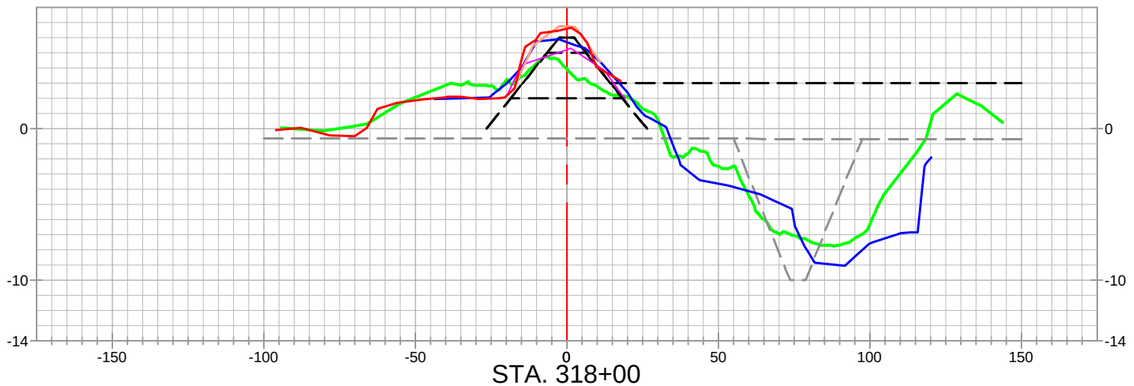

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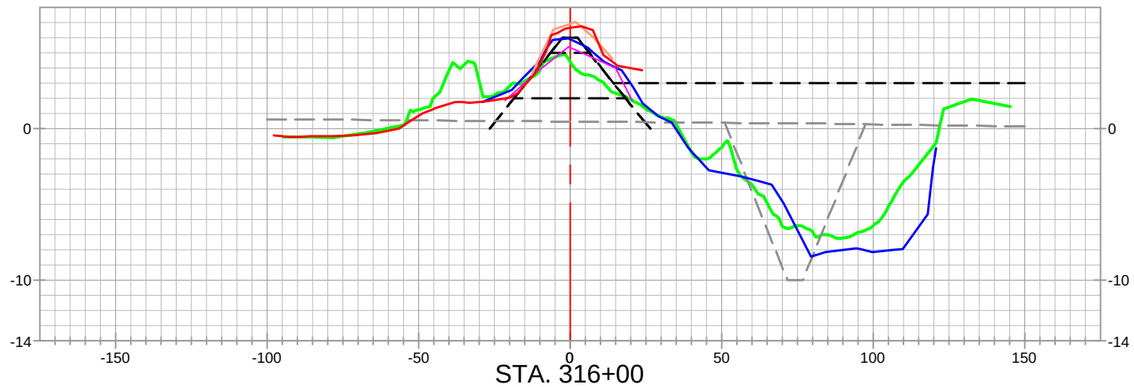

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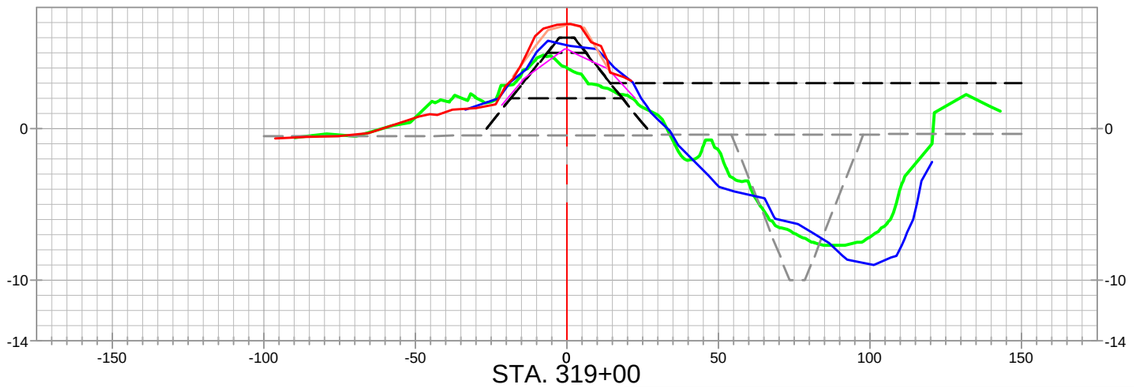


STA. 319+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

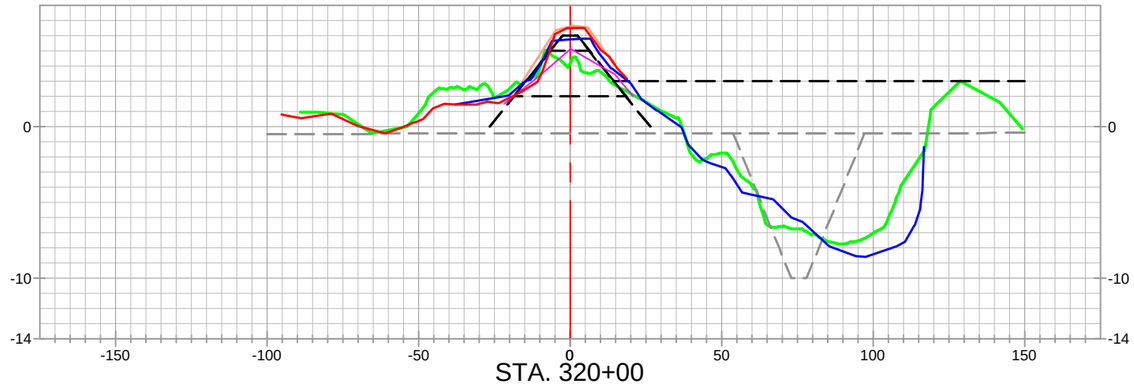
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg



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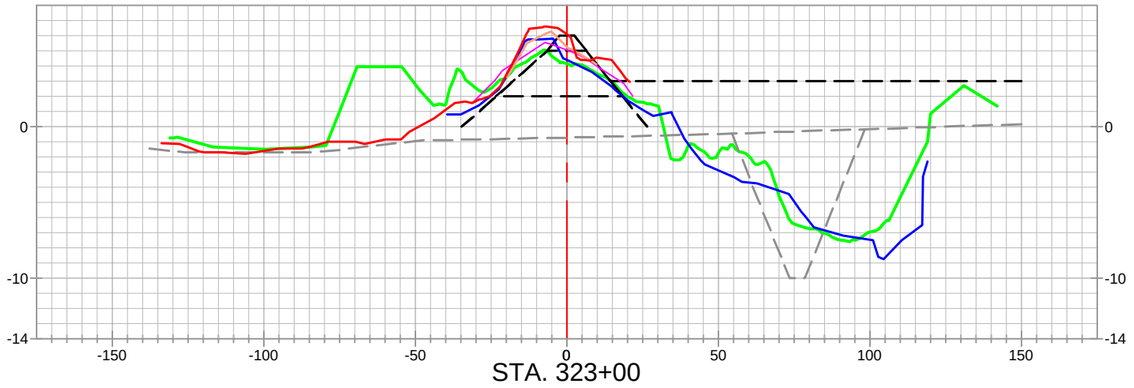

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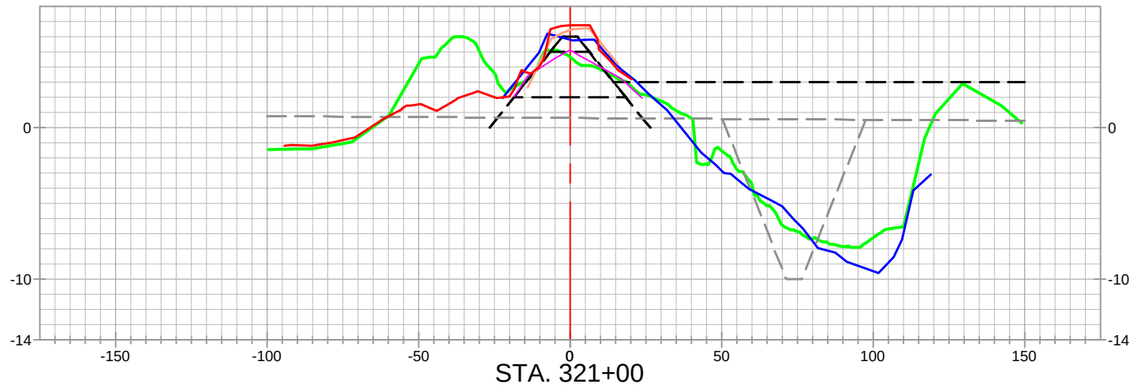

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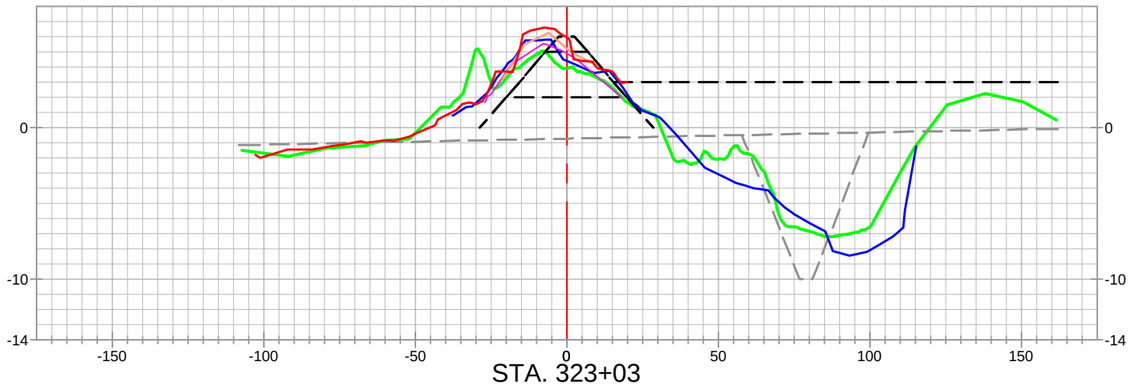

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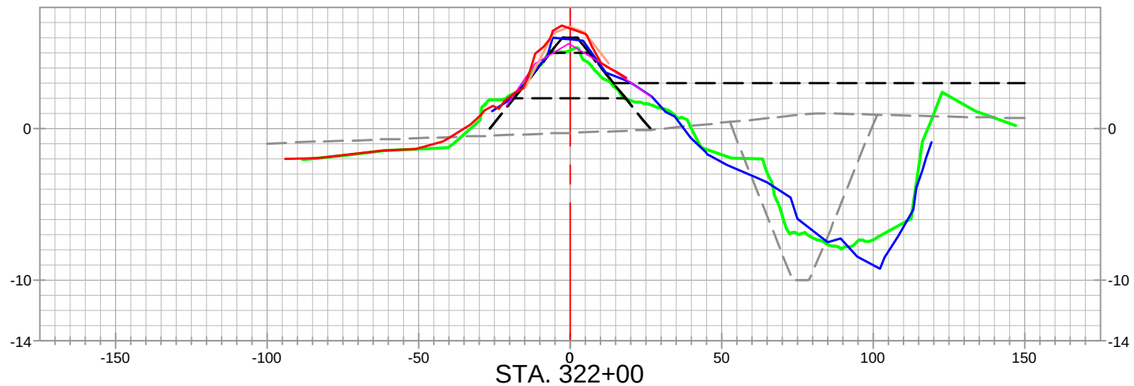

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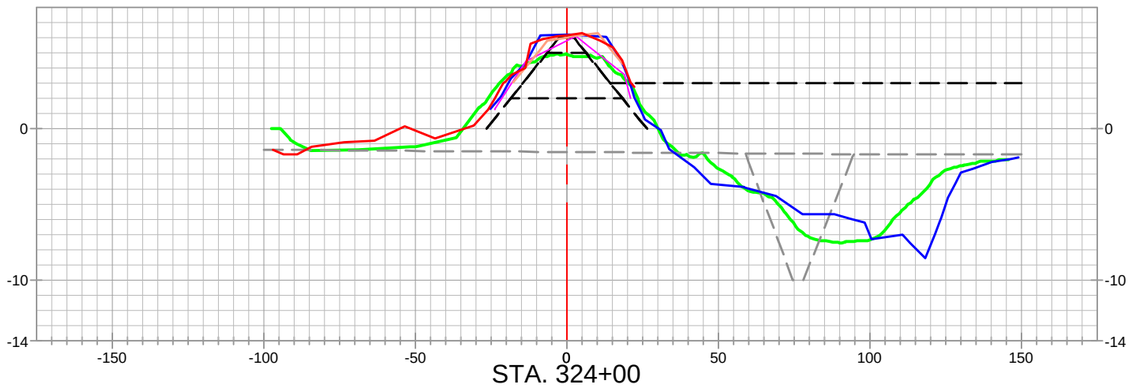


STA. 324+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

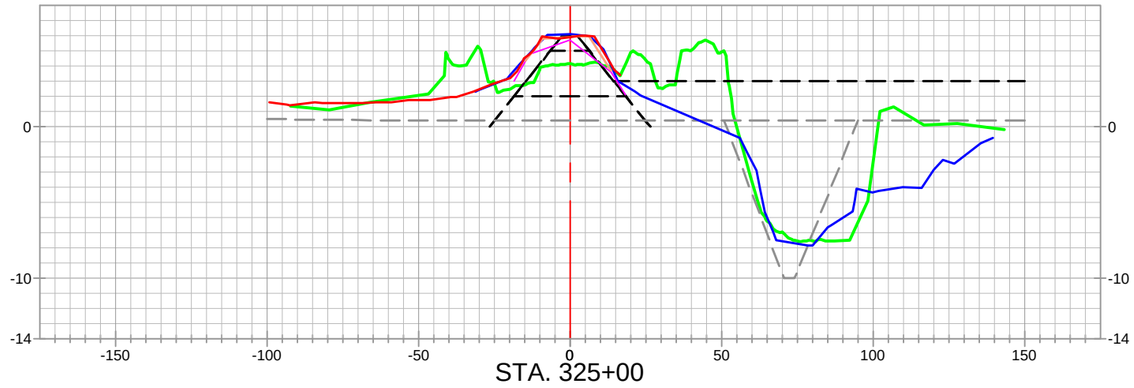
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg



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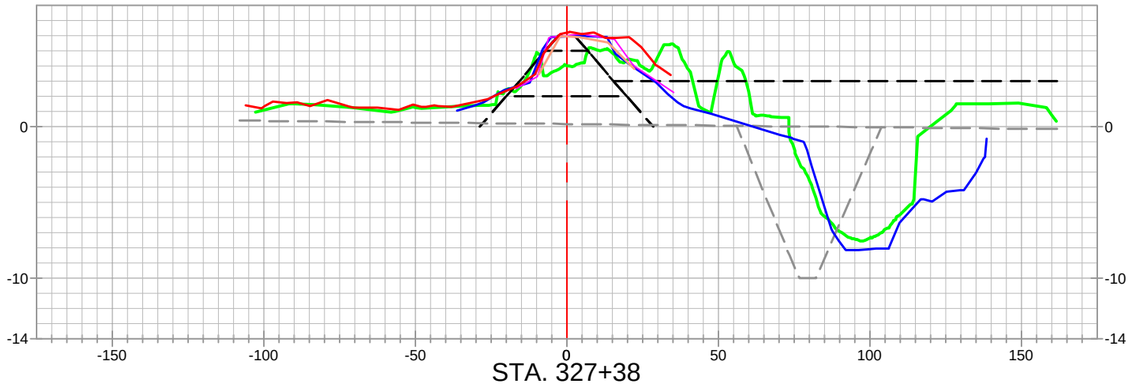

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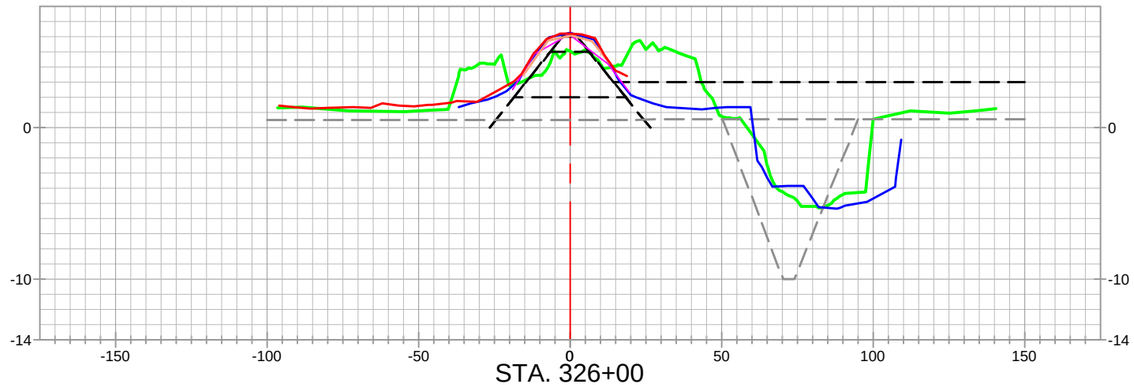

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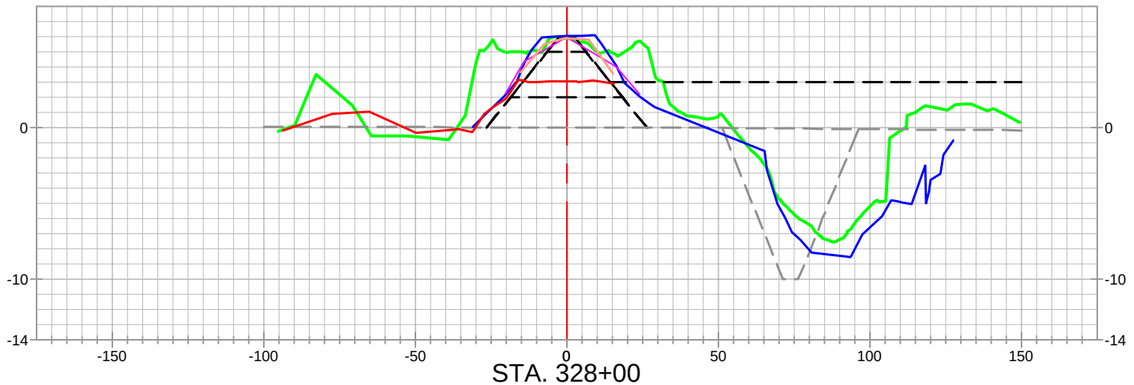

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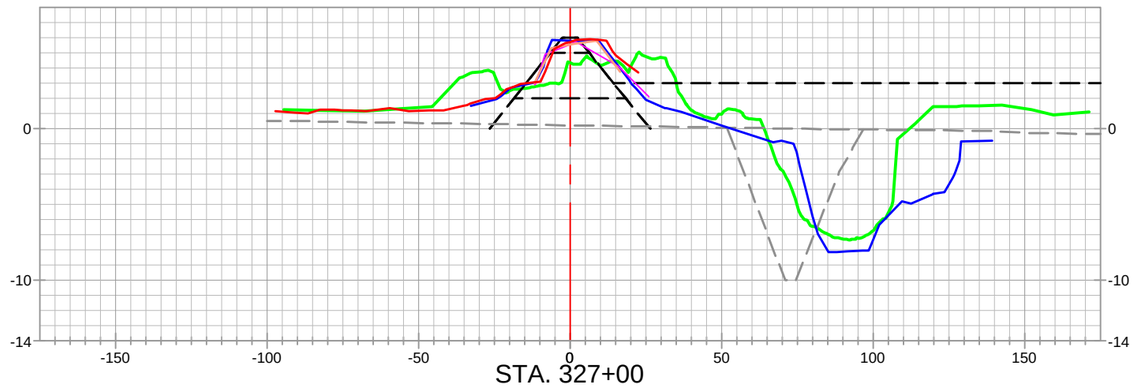

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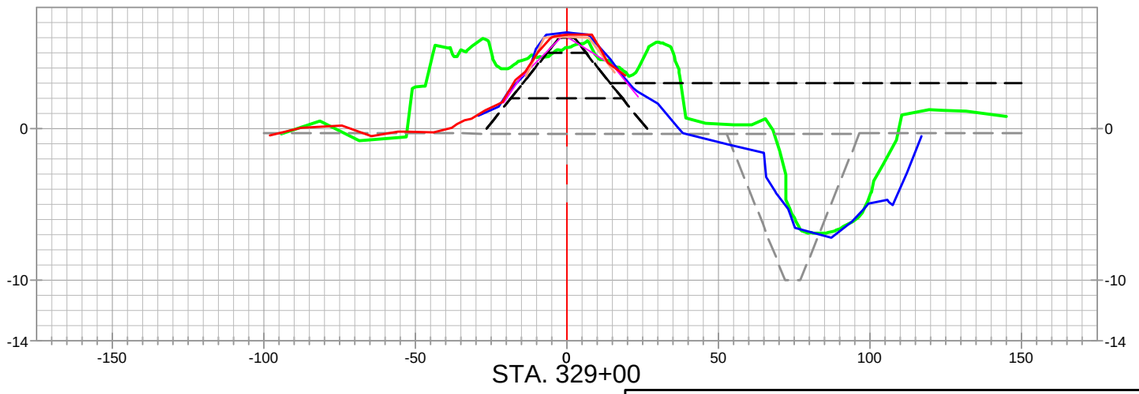


STA. 329+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

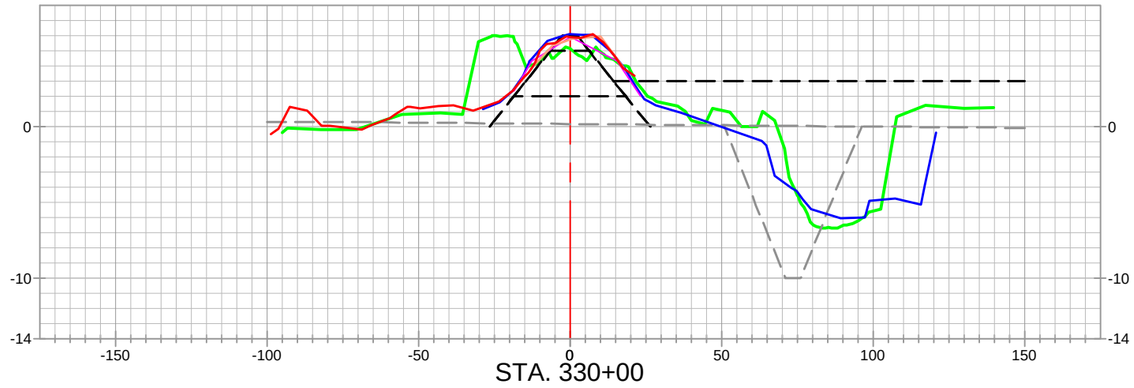
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 23 OF 25



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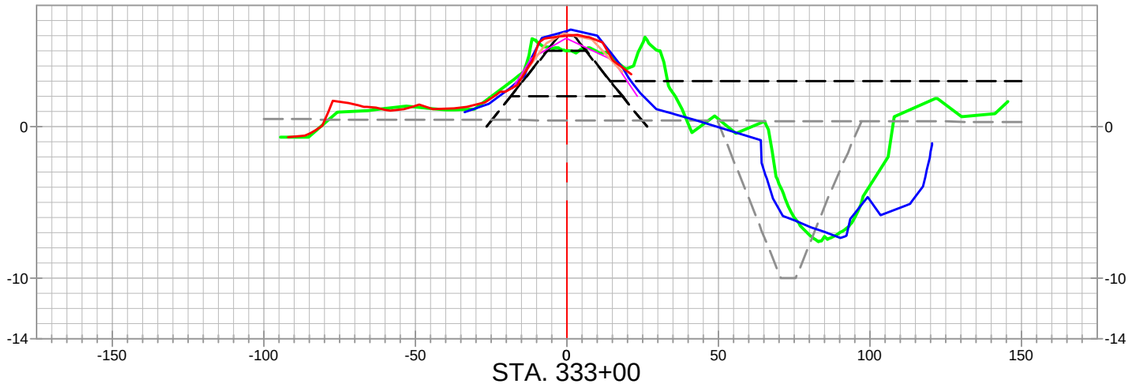

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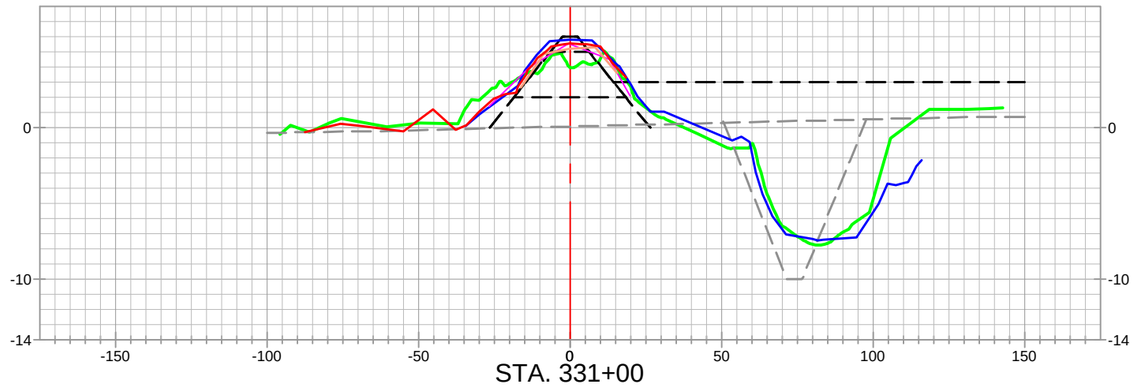

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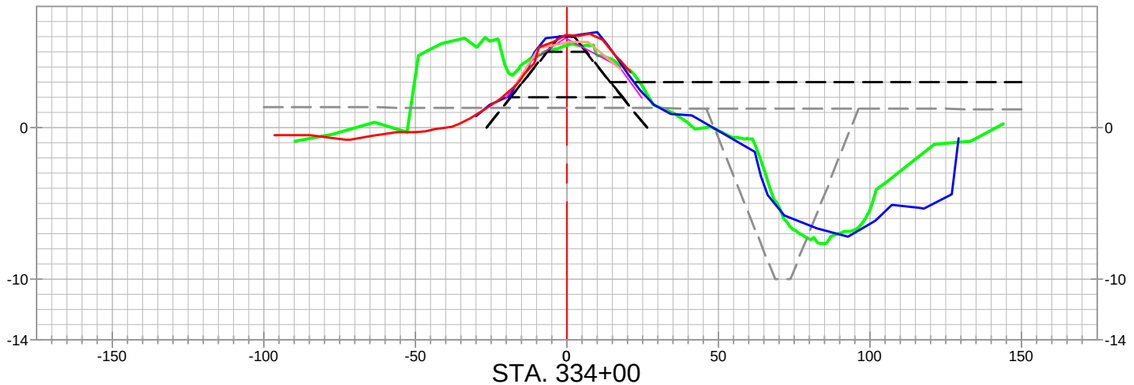

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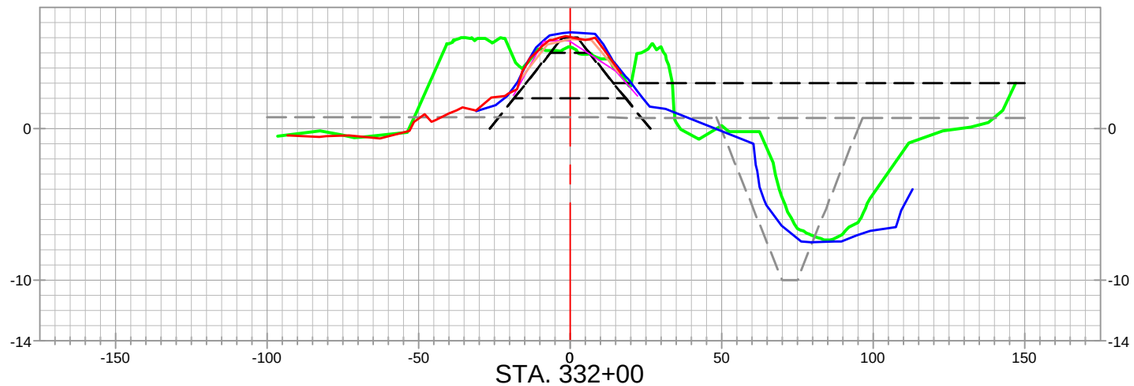

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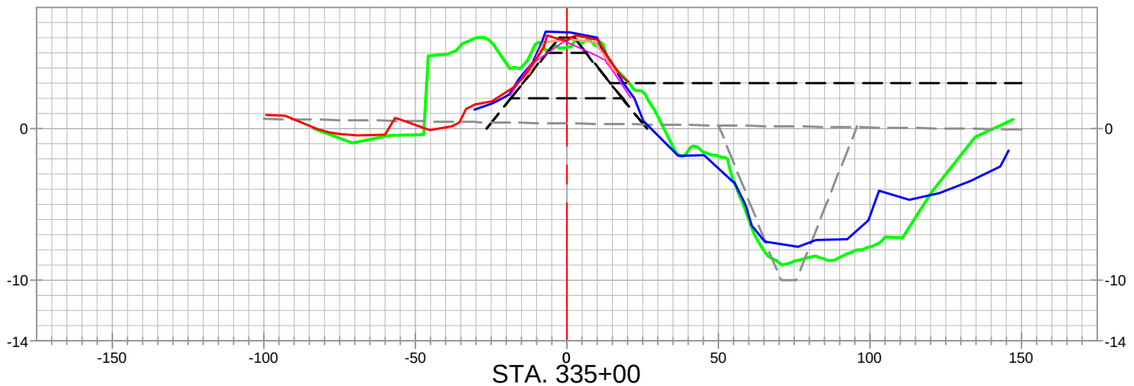


STA. 335+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

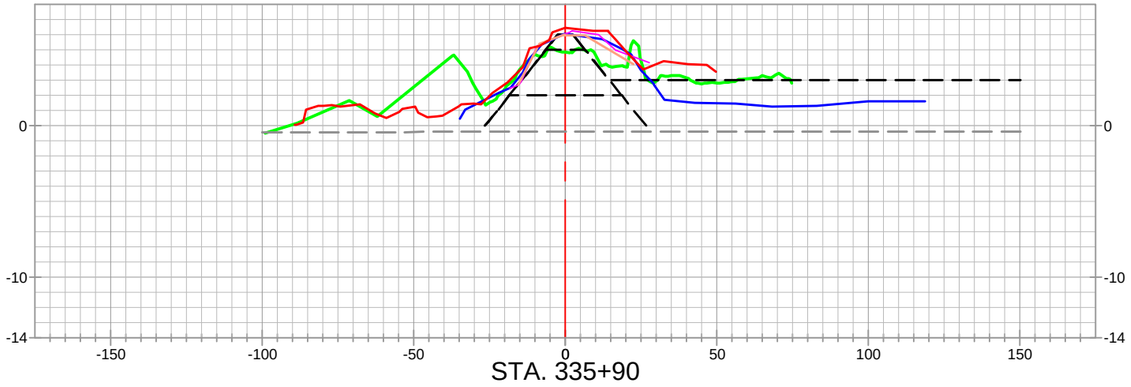
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg | SHEET: 24 OF 25



STA. 335+90

NOTES FOR CROSS-SECTION VIEWS:

1.) THE ELEVATIONS AND/OR LOCATIONES OF PIPELINES SHOWN IN CROSS-SECTION VIEW WERE INTERPOLATED BETWEEN ADJACENT PROBED AND TIED-IN TOP OF PIPE SURVEY POINTS.

2.) PROPOSED ELEVATION OF:
- TOP OF FIRST LIFT: 2.0 ELEV. NAVD88
- TOP OF SECOND LIFT: 5.0 ELEV. NAVD88
- TOP OF THIRD (FINAL LIFT): 6.0 ELEV. NAVD88

3.) PROPOSED TOP WIDTH OF:
- TOP OF FIRST LIFT: 53.0 FEET
- TOP OF SECOND LIFT: 37.0 FEET
- TOP OF THIRD (FINAL) LIFT: 5.0 FEET

4.) ALL PROPOSED SIDE SLOPES TO BE 4 HORIZONTAL TO 1 VERTICAL (4H:1V)

5.) TOP OF MARSH SHOWN AT AN ELEVATION OF +3.0 FEET NAVD88

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

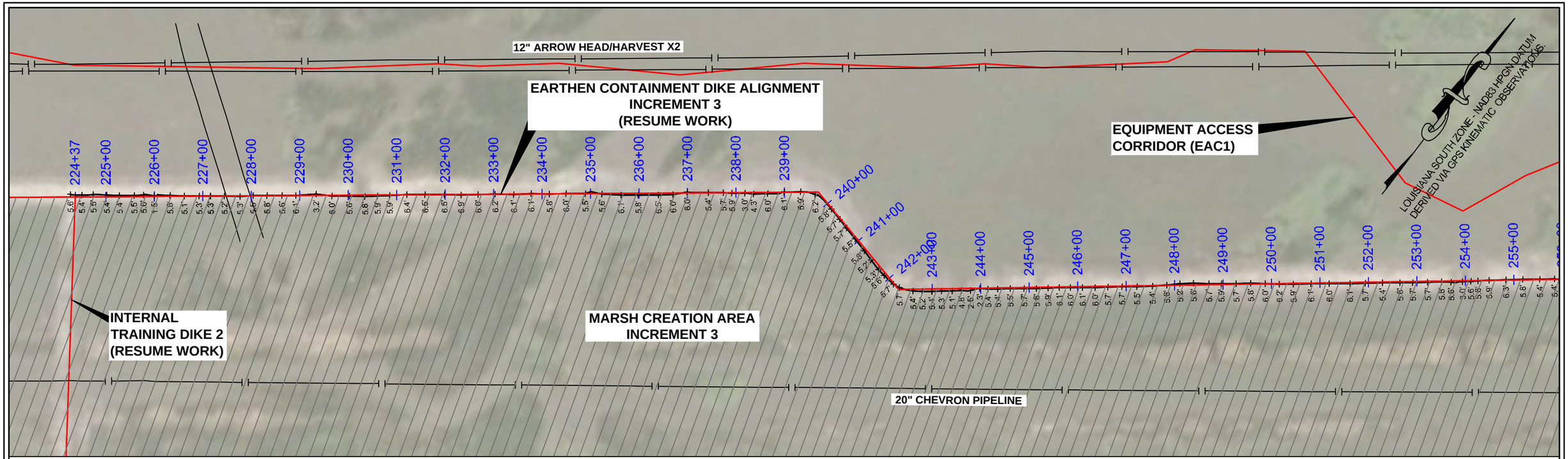
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

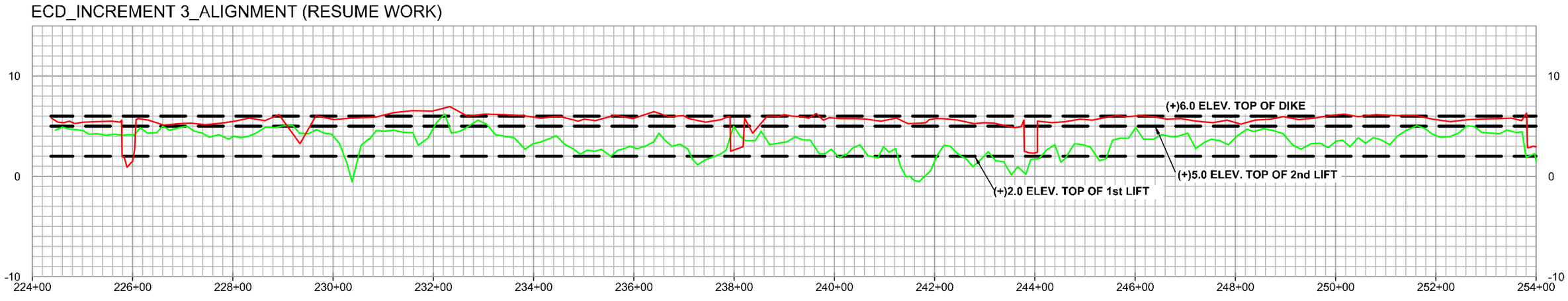
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC3_SECTIONS_REV 00.dwg

SHEET: 25 OF 25





EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

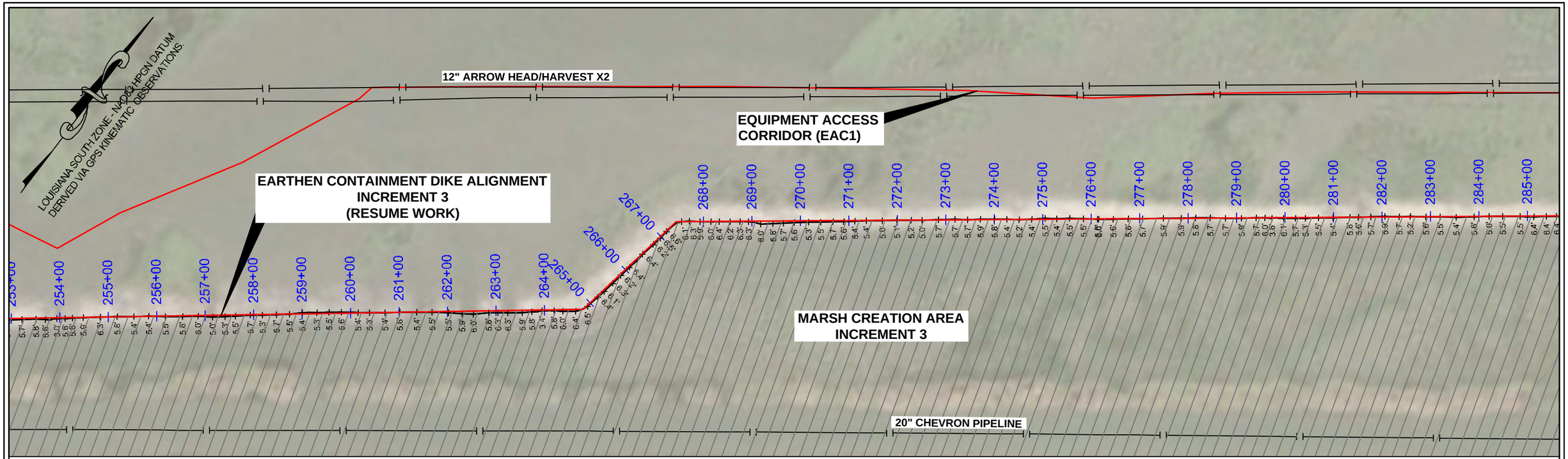
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 3_PROFILE_REV00.dwg



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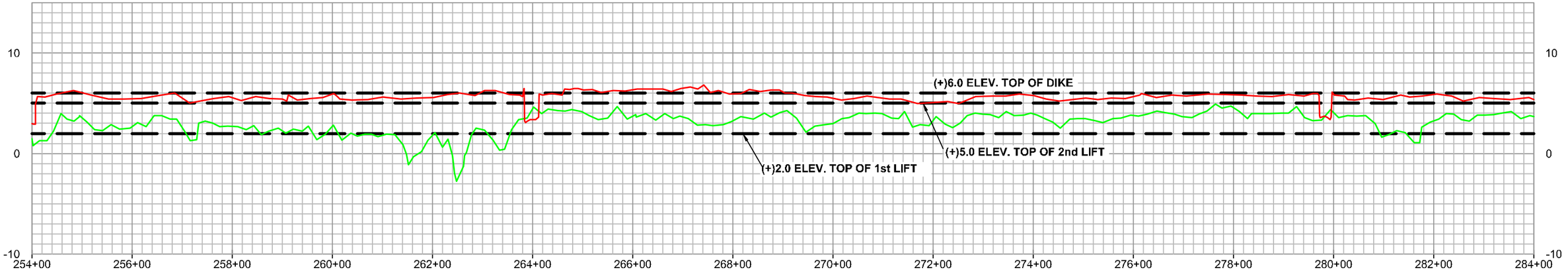


EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

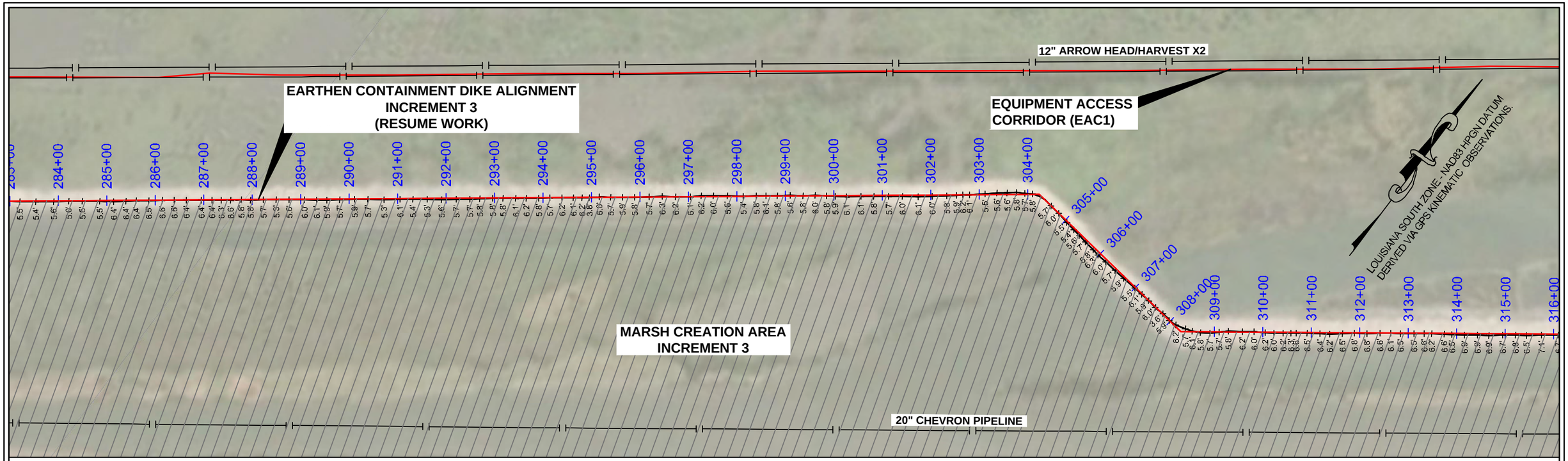
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

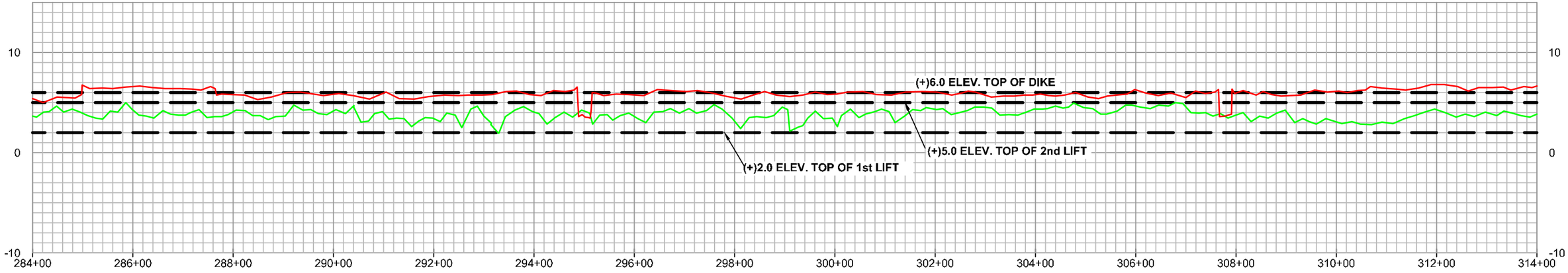
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 3_PROFILE_REV00.dwg



ECD_INCREMENT 3_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL
LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

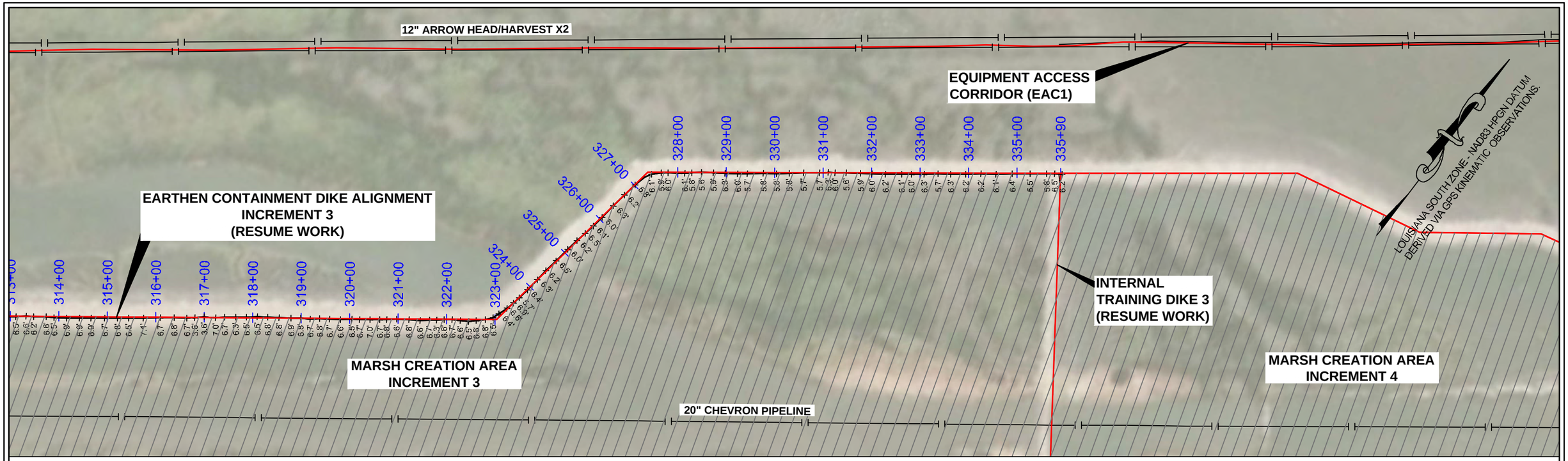
HYDROTERRA

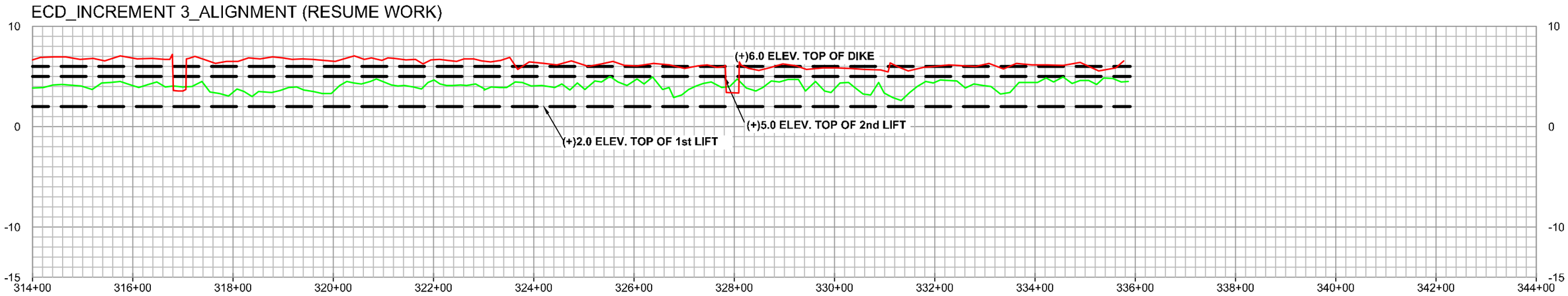
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 3_PROFILE_REV00.dwg

SHEET: 28 OF 29





EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISION:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 3
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 3_PROFILE_REV00.dwg

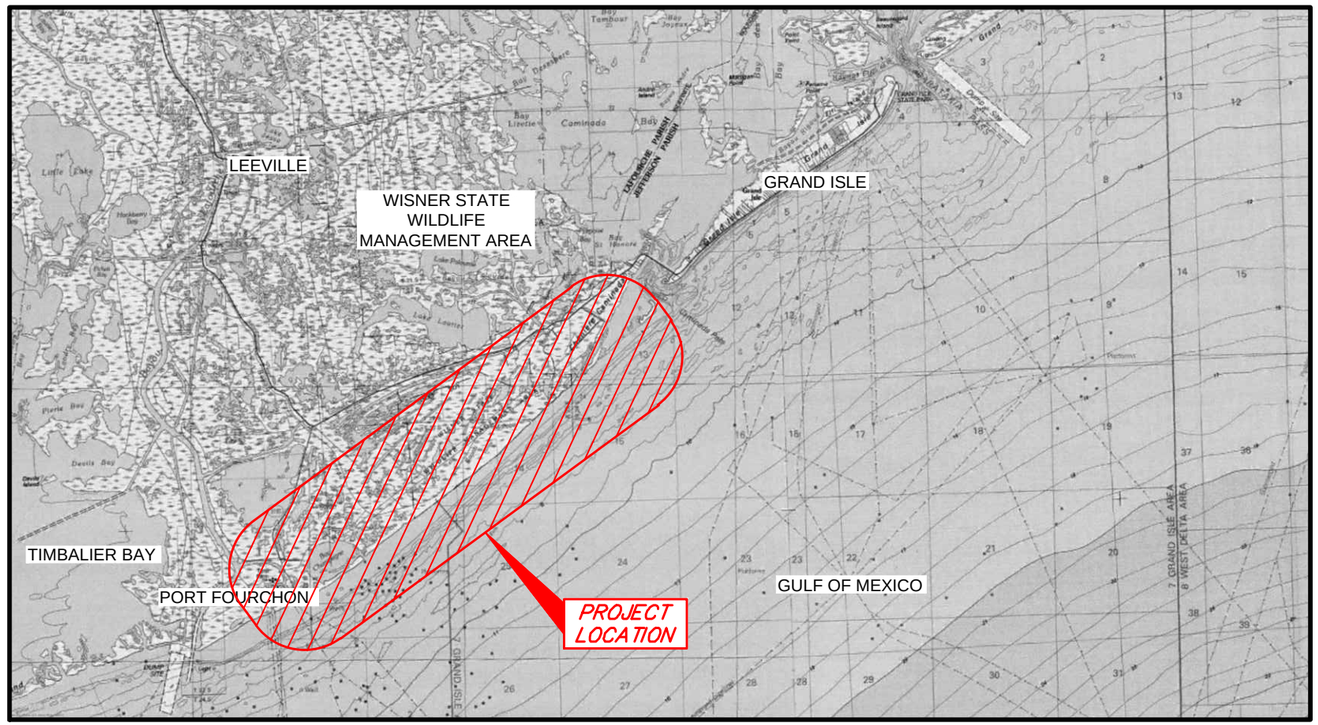
SHEET: 29 OF 29

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 25	CROSS-SECTION VIEWS
26 - 29	PLAN / PROFILE VIEWS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL
LAND SURVEYOR
12/16/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

TITLE PAGE

LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 1 OF 29

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. RESUMING WORK PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC BETWEEN 02-07-22 AND 04-04-22 INCLUSIVE.
5. RESUMING WORK PROGRESS SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES, INC. BETWEEN 03-22-22 AND 07-15-22.
6. PROGRESS SURVEY DATA ACQUISITION WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC DATED 09-14-22 TO 09-17-22 AND CHECK BY HYDROTERRA TECHNOLOGIES, LLC ON 09-21-22.
7. MONTHLY ECD SURVEY DATA DATED 10-15-22 WAS PROVIDED BY GREAT LAKES DREDGE & DOCK CO., LLC. AND REVIEWED BY HYDROTERRA TECHNOLOGIES, LLC ON 10-24-22.
8. AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 11-07-22, 11-08-22, 11-09-22, 11-10-22, 11-11-22, 11-14-22, 11-15-22. 11-16-22. 11-28-22, 11-29-22, 11-30-22, 12-02-22, 12-03-22, 12-05-22, 12-06-22, 12-07-22, 12-08-22 AND 12-09-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1
BAYOU MOREAU
PORT FOURCHON MARINA
BAYOU LAFOURCHE
GULF OF MEXICO
GULF OF MEXICO

DEWATERING POTENTIAL MARSH NOURISHMENT AREA
EARTHEN CONTAINMENT DIKE ALIGNMENT
INTERNAL TRAINING DIKE 3
50' BEACH AND DUNE CROSSING
EQUIPMENT ACCESS CORRIDOR (EA3)
EQUIPMENT ACCESS CORRIDOR (EA1)
INTERNAL TRAINING DIKE 2
EQUIPMENT ACCESS CORRIDOR (EA4)
EQUIPMENT ACCESS CORRIDOR (EA2)
INTERNAL TRAINING DIKE 1
50' BEACH AND DUNE CROSSING
INCREMENT 4
INCREMENT 3
INCREMENT 2
INCREMENT 1
DREDGE PIPELINE CORRIDOR
NE BORROW AREA
DREDGE PIPELINE CORRIDOR
SW BORROW AREA
DREDGE PIPELINE CORRIDOR

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND
- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

HYDROTERRA

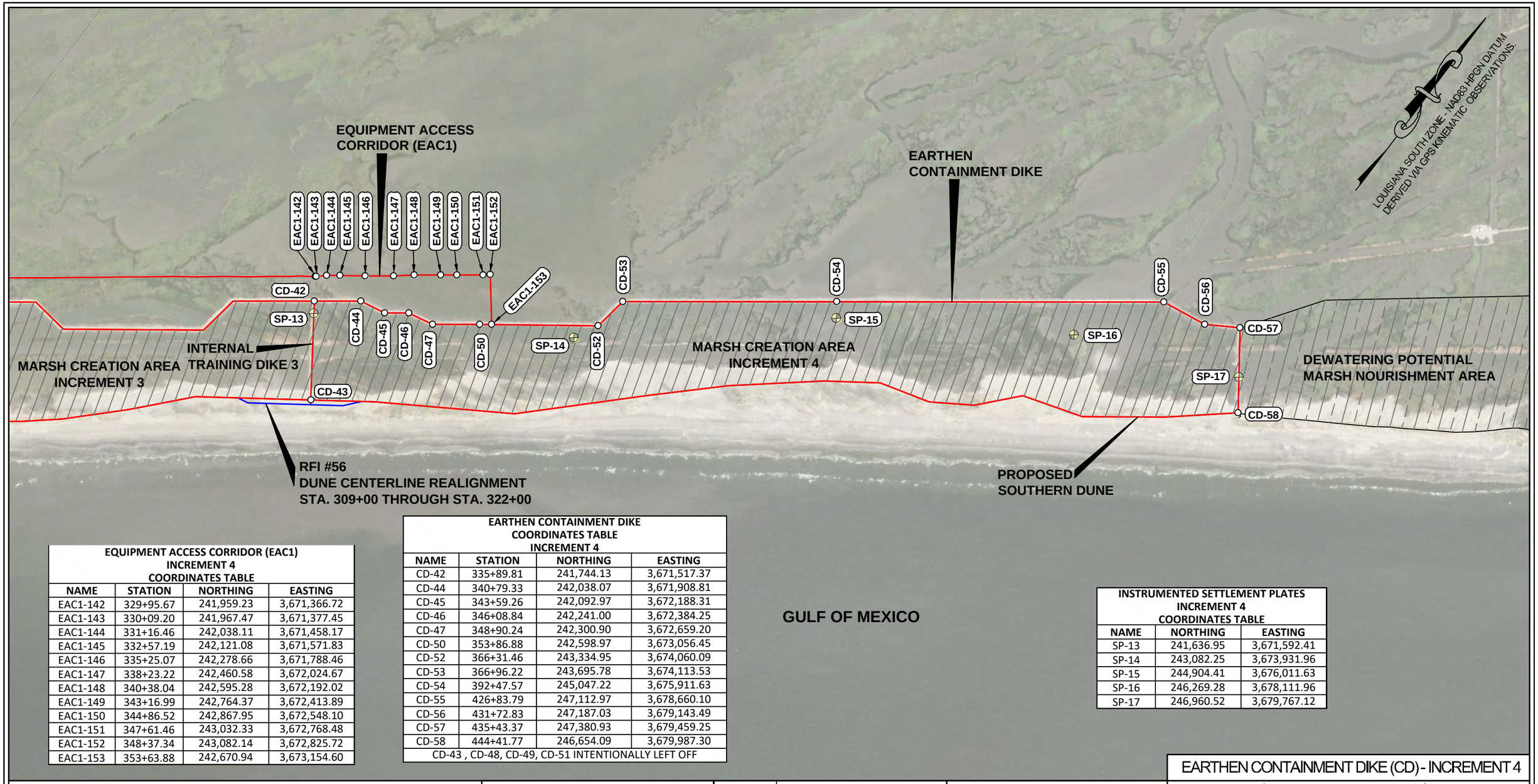
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 2 OF 29



EQUIPMENT ACCESS CORRIDOR (EAC1)
INCREMENT 4
COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-142	329+95.67	241,959.23	3,671,366.72
EAC1-143	330+09.20	241,967.47	3,671,377.45
EAC1-144	331+16.46	242,038.11	3,671,458.17
EAC1-145	332+57.19	242,121.08	3,671,571.83
EAC1-146	335+25.07	242,278.66	3,671,788.46
EAC1-147	338+23.22	242,460.58	3,672,024.67
EAC1-148	340+38.04	242,595.28	3,672,192.02
EAC1-149	343+16.99	242,764.37	3,672,413.89
EAC1-150	344+86.52	242,867.95	3,672,548.10
EAC1-151	347+61.46	243,032.33	3,672,768.48
EAC1-152	348+37.34	243,082.14	3,672,825.72
EAC1-153	353+63.88	242,670.94	3,673,154.60

EARTHEN CONTAINMENT DIKE
COORDINATES TABLE
INCREMENT 4

NAME	STATION	NORTHING	EASTING
CD-42	335+89.81	241,744.13	3,671,517.37
CD-44	340+79.33	242,038.07	3,671,908.81
CD-45	343+59.26	242,092.97	3,672,188.31
CD-46	346+08.84	242,241.00	3,672,384.25
CD-47	348+90.24	242,300.90	3,672,659.20
CD-50	353+86.88	242,598.97	3,673,056.45
CD-52	366+31.46	243,334.95	3,674,060.09
CD-53	366+96.22	243,695.78	3,674,113.53
CD-54	392+47.57	245,047.22	3,675,911.63
CD-55	426+83.79	247,112.97	3,678,660.10
CD-56	431+72.83	247,187.03	3,679,143.49
CD-57	435+43.37	247,380.93	3,679,459.25
CD-58	444+41.77	246,654.09	3,679,987.30

CD-43 , CD-48, CD-49, CD-51 INTENTIONALLY LEFT OFF

INSTRUMENTED SETTLEMENT PLATES
INCREMENT 4
COORDINATES TABLE

NAME	NORTHING	EASTING
SP-13	241,636.95	3,671,592.41
SP-14	243,082.25	3,673,931.96
SP-15	244,904.41	3,676,011.63
SP-16	246,269.28	3,678,111.96
SP-17	246,960.52	3,679,767.12

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

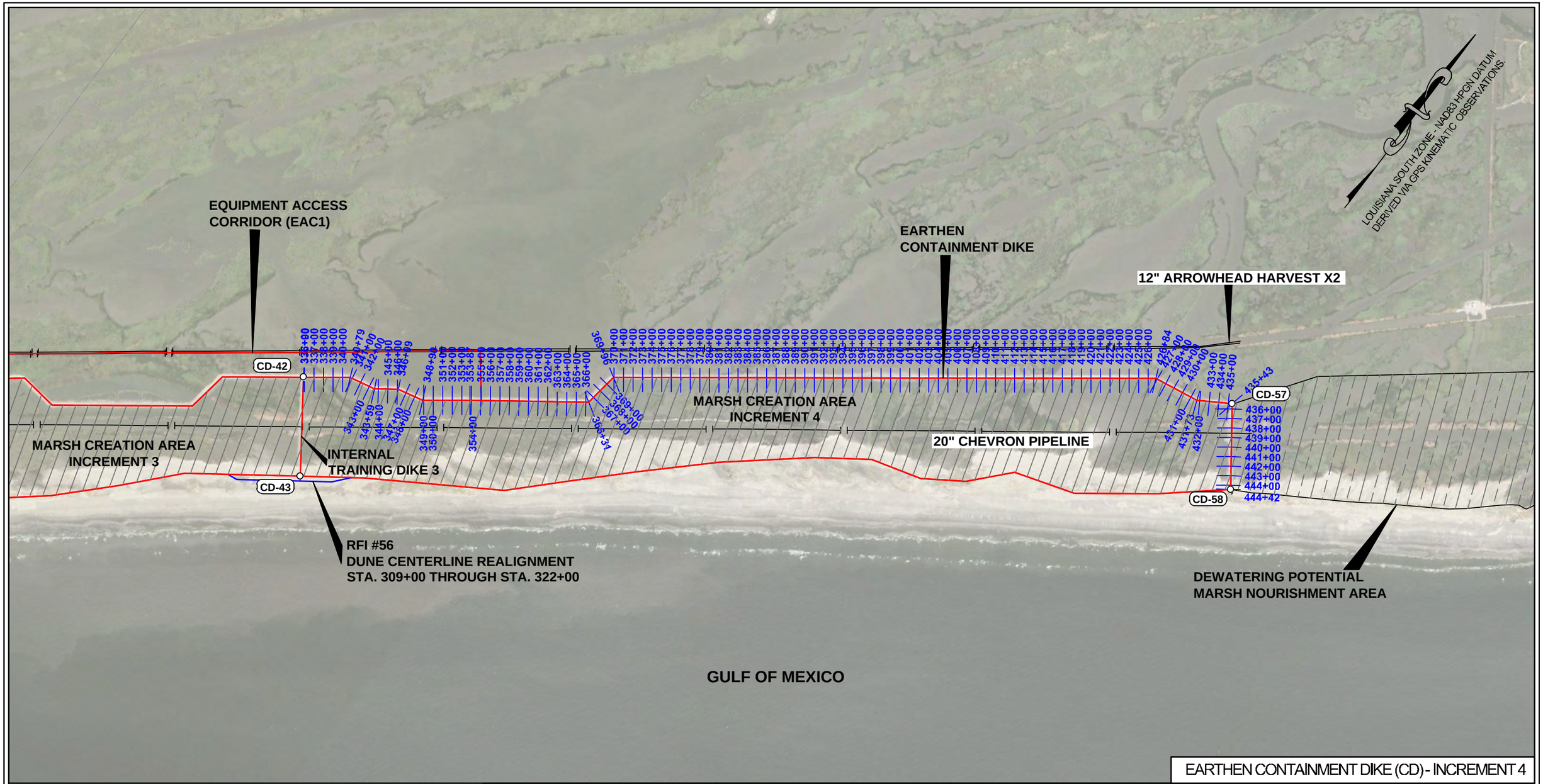
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/2022

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

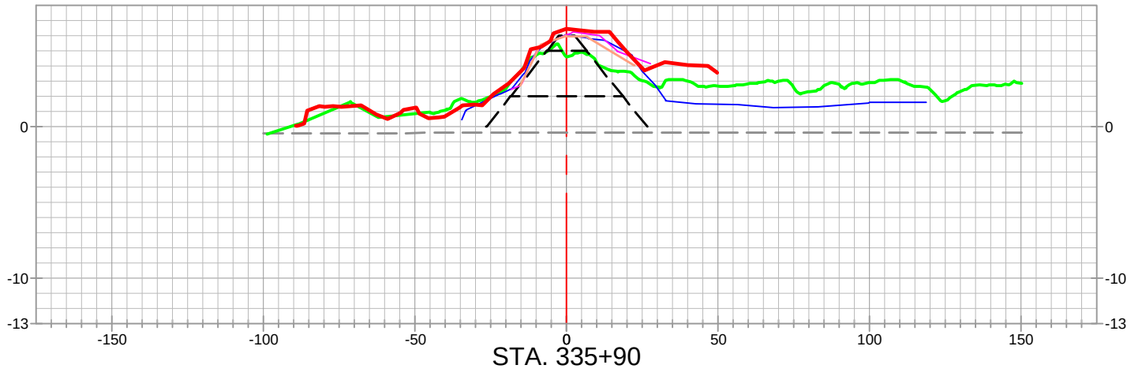
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg

SHEET: 4 OF 29



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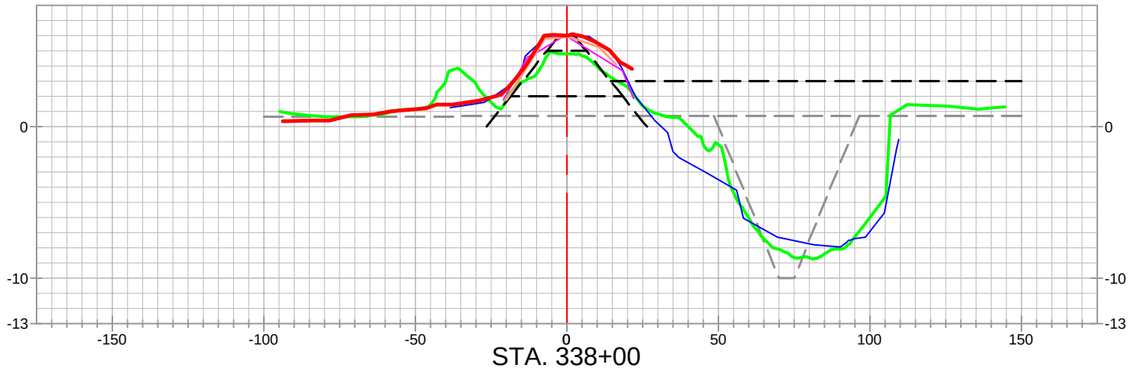

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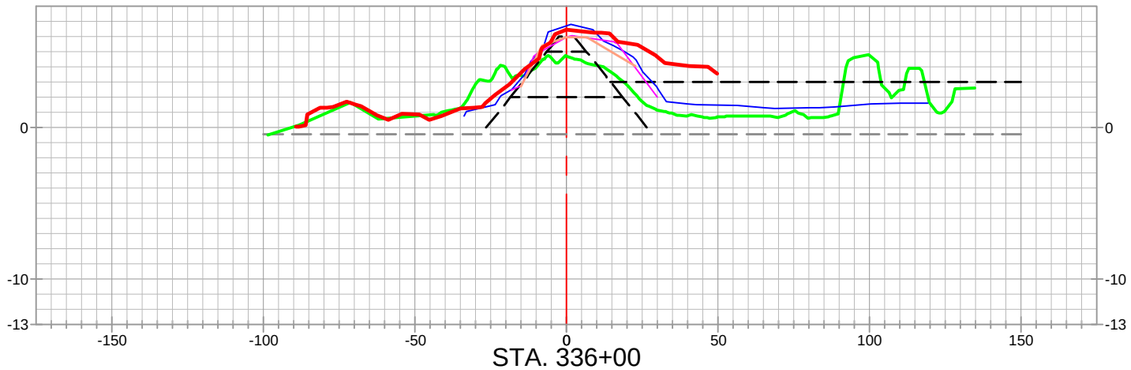

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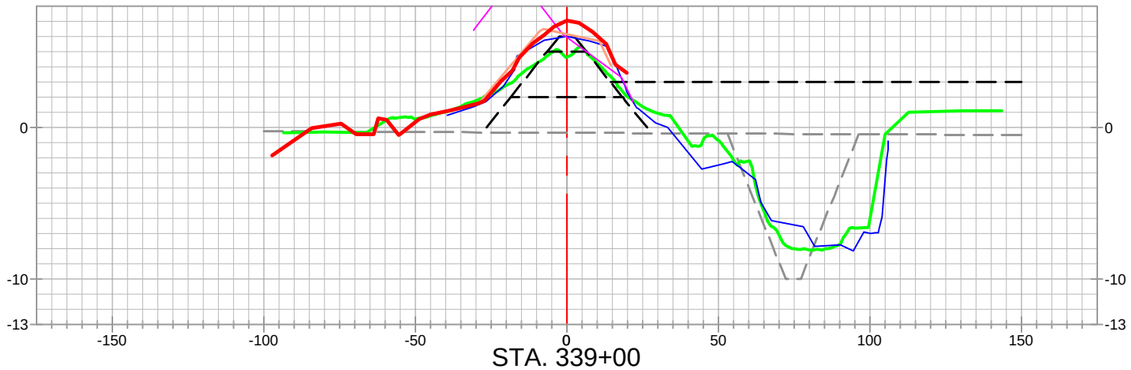

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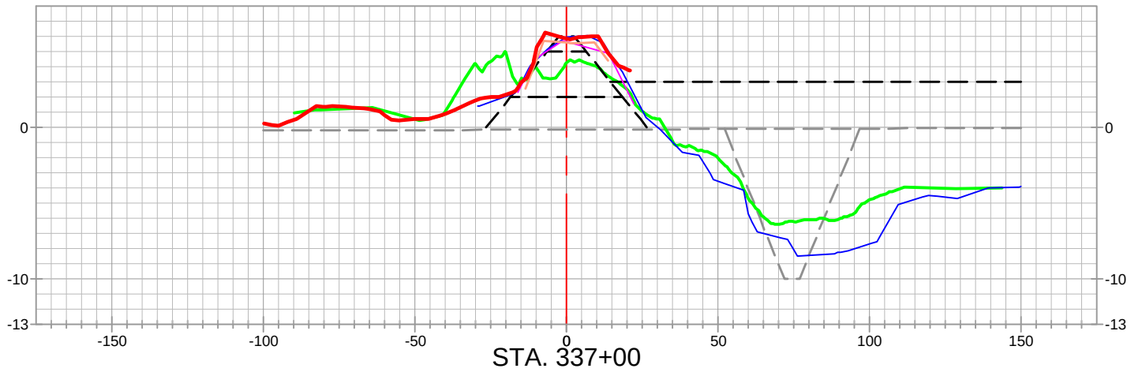

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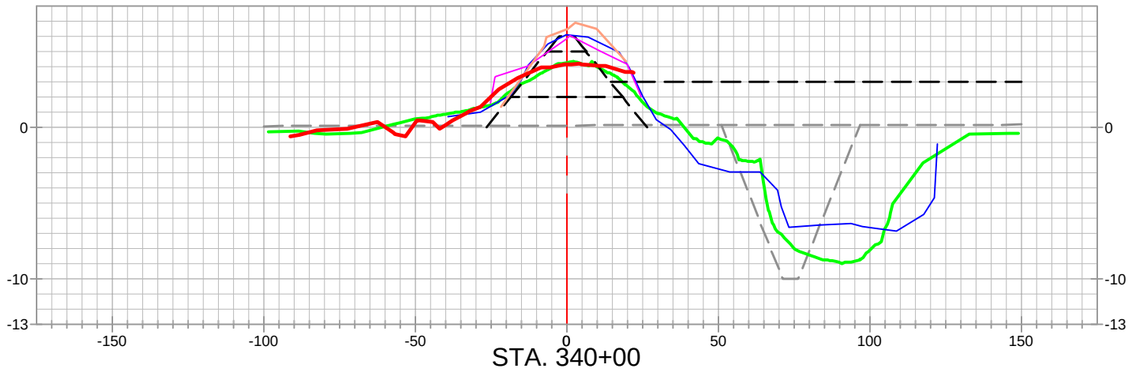


STA. 340+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY: DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

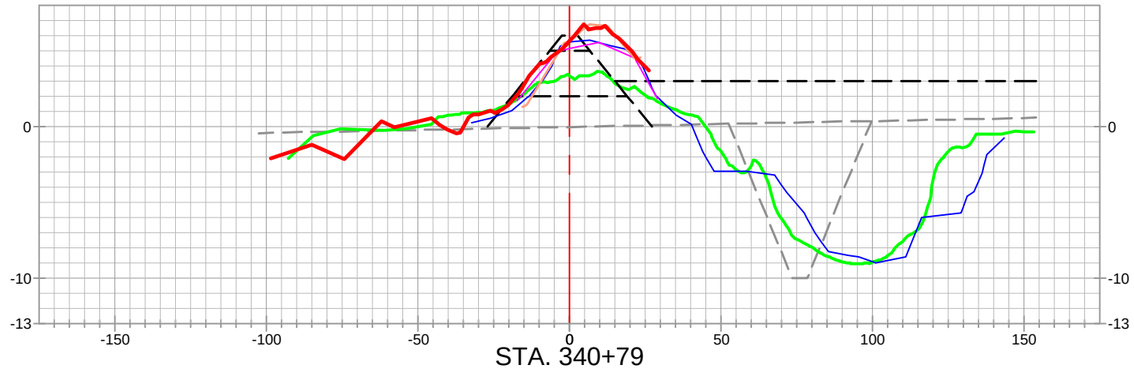
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg

SHEET: 5 OF 29



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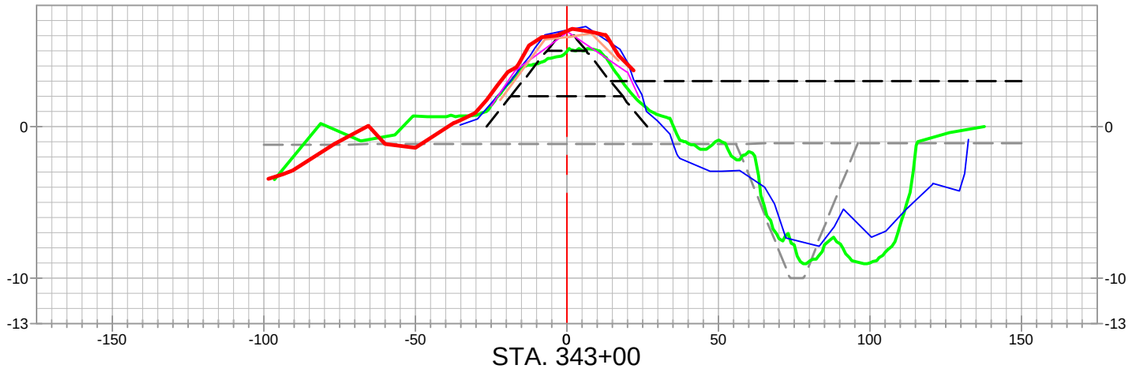

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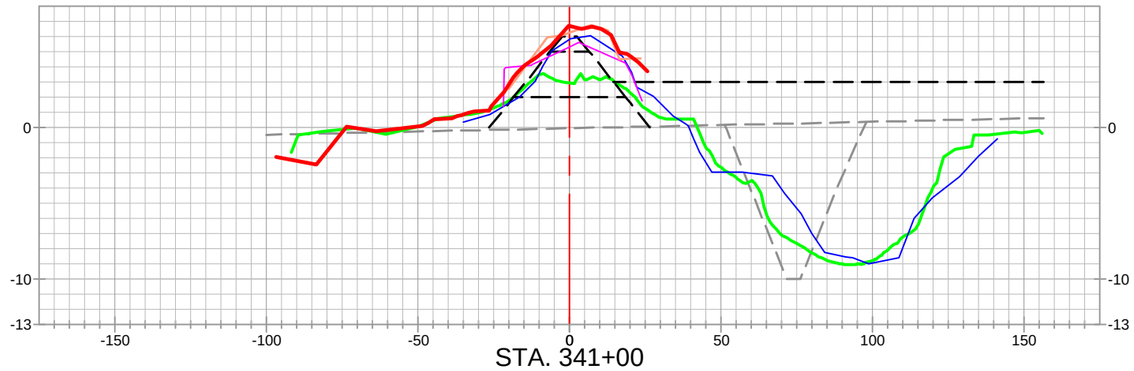

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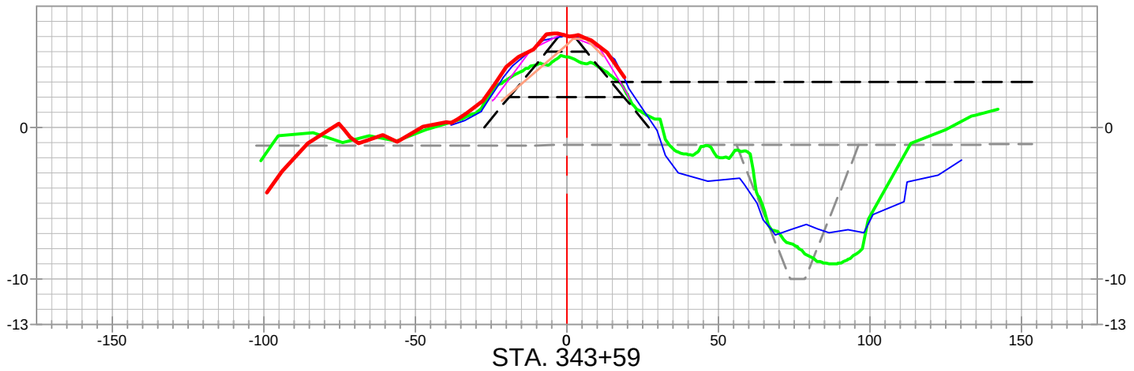

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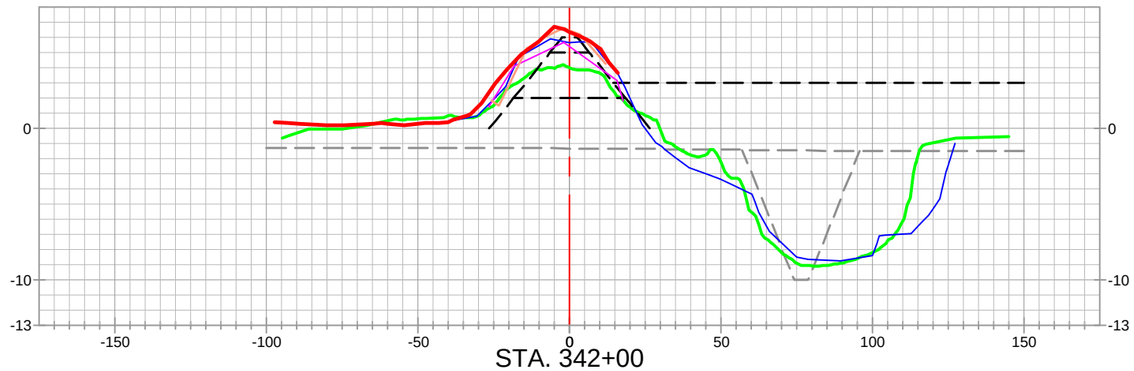

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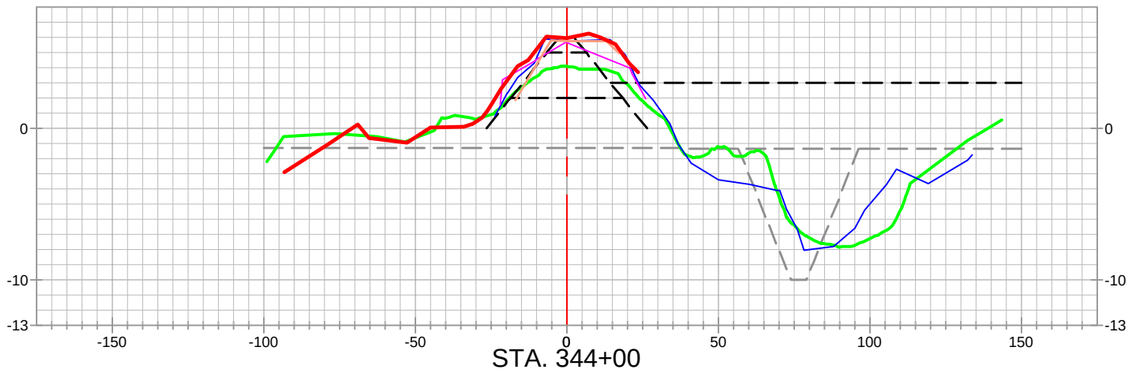


STA. 344+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY: DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

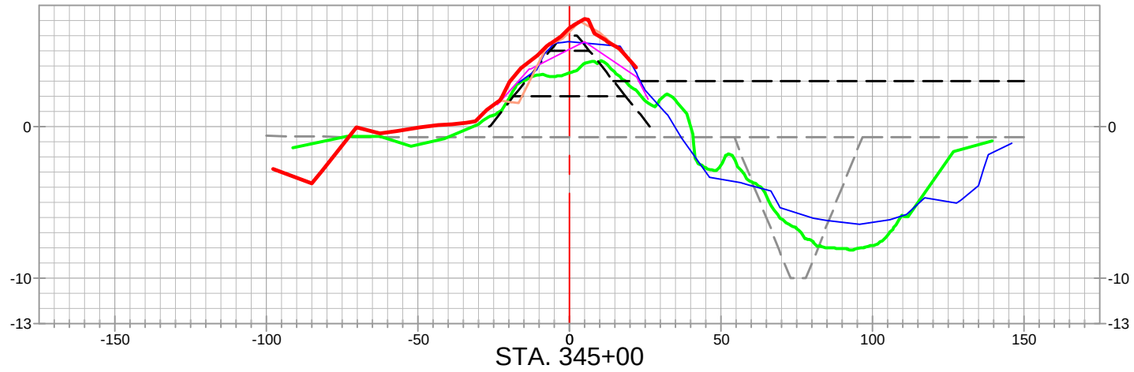
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg

SHEET: 6 OF 29



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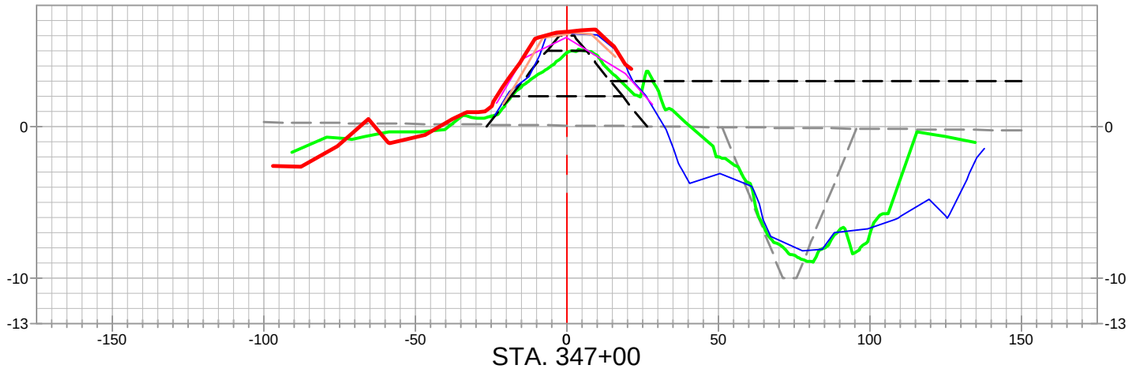

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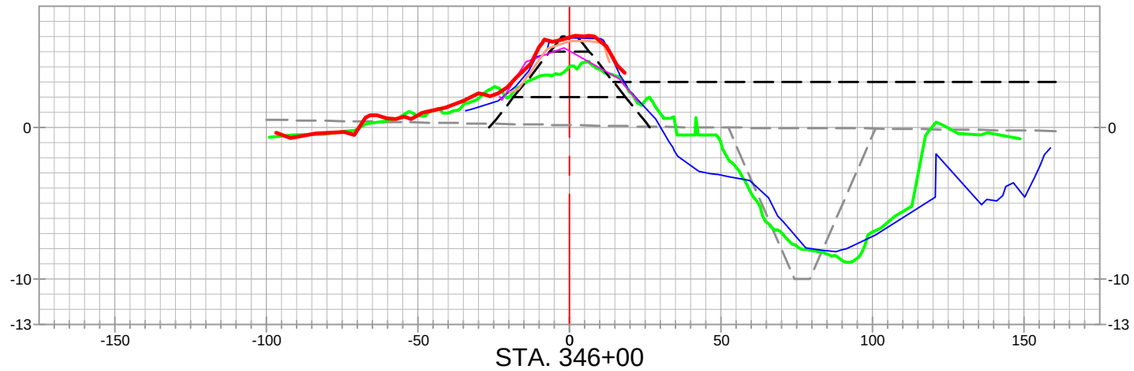
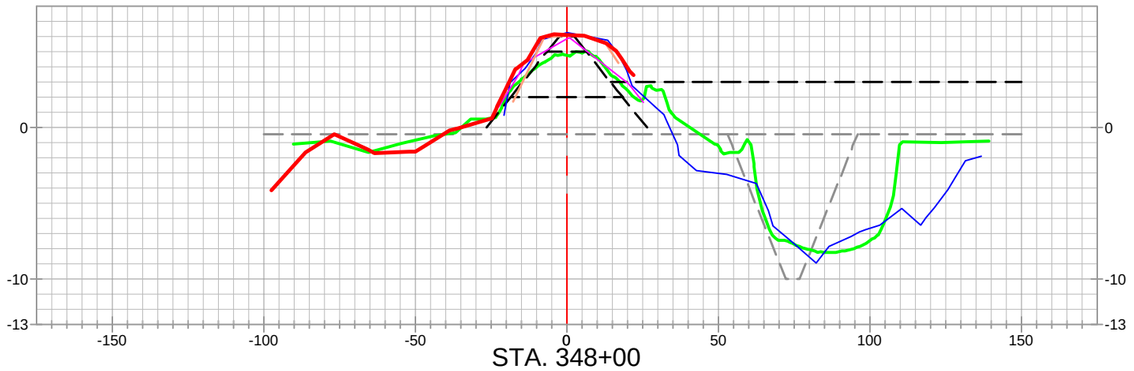
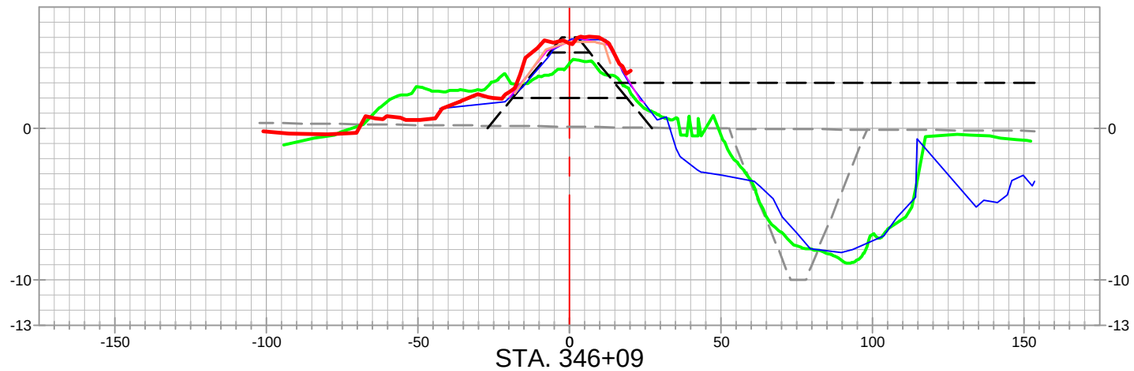


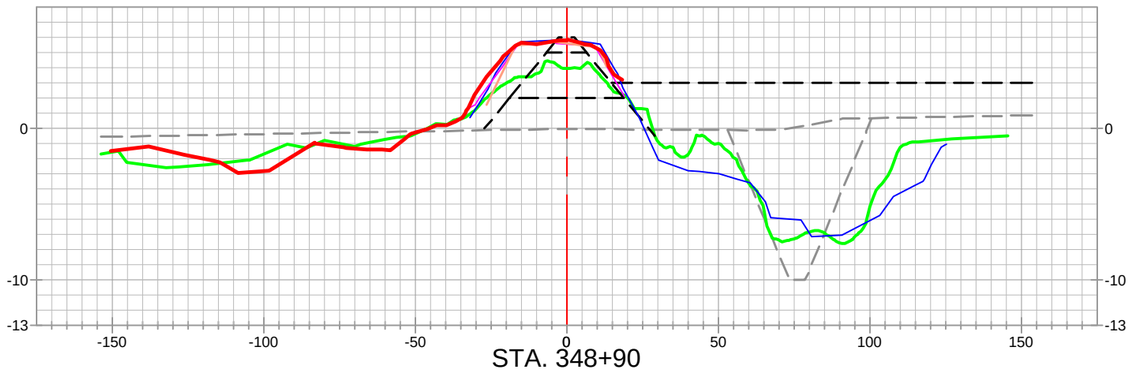
STA. 346+00



STA. 348+00



STA. 346+09



STA. 348+90

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

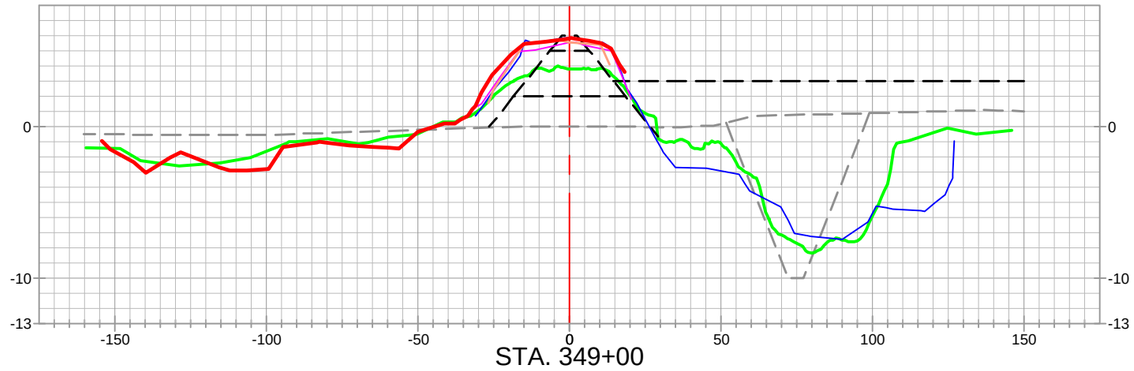
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

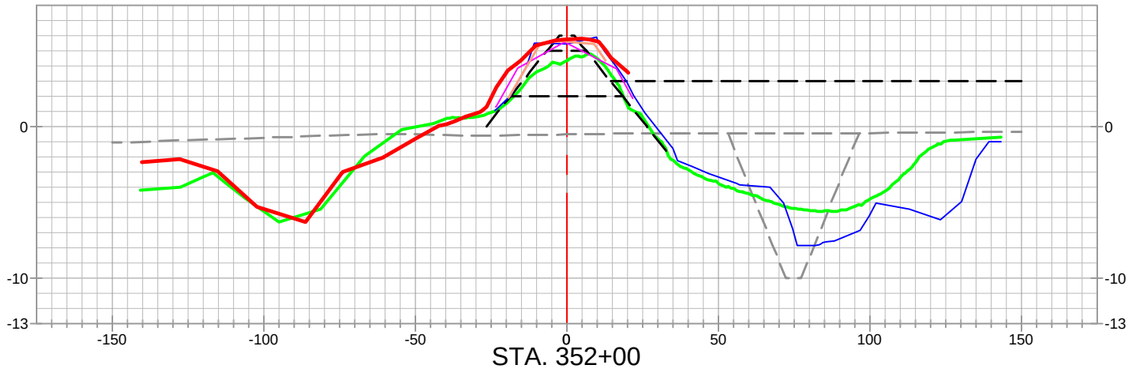
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

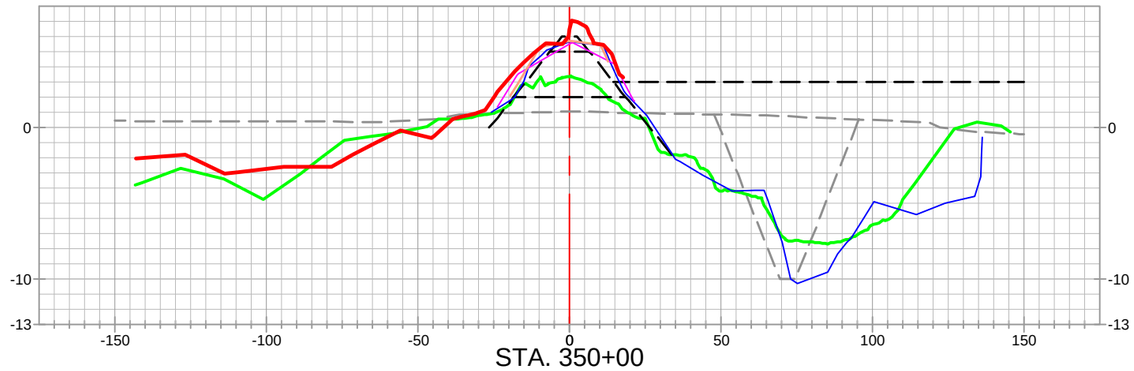
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 7 OF 29



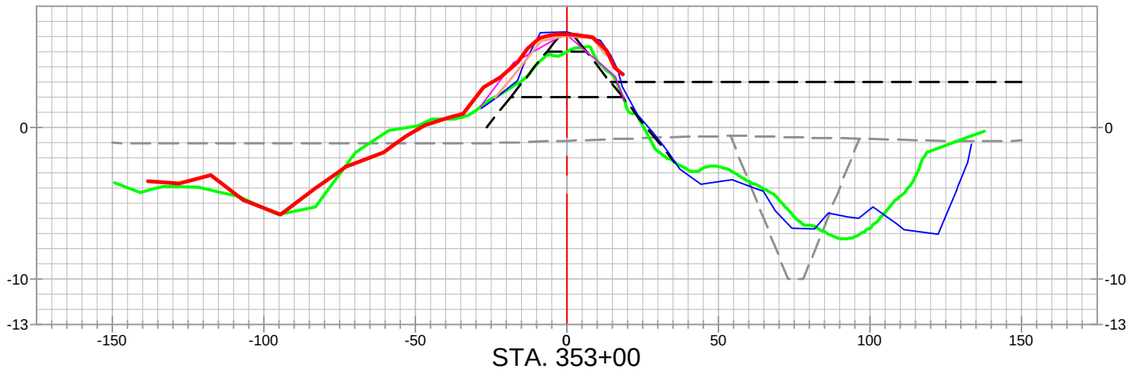
STA. 349+00



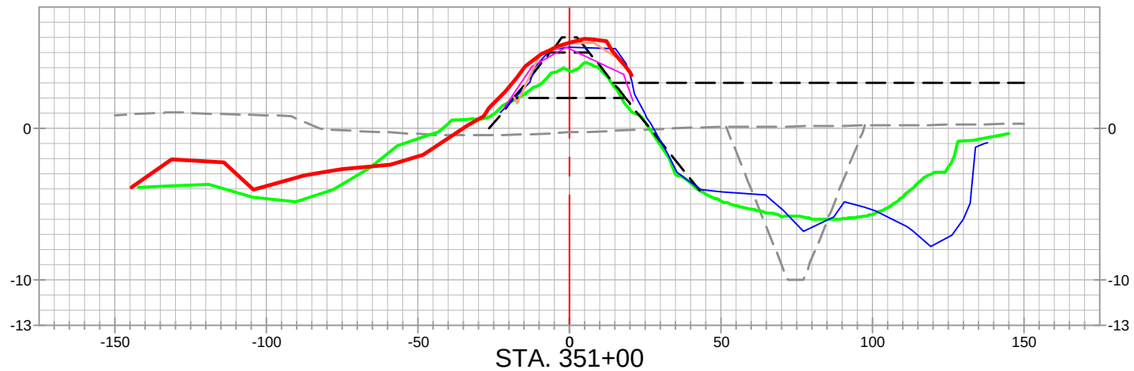
STA. 352+00



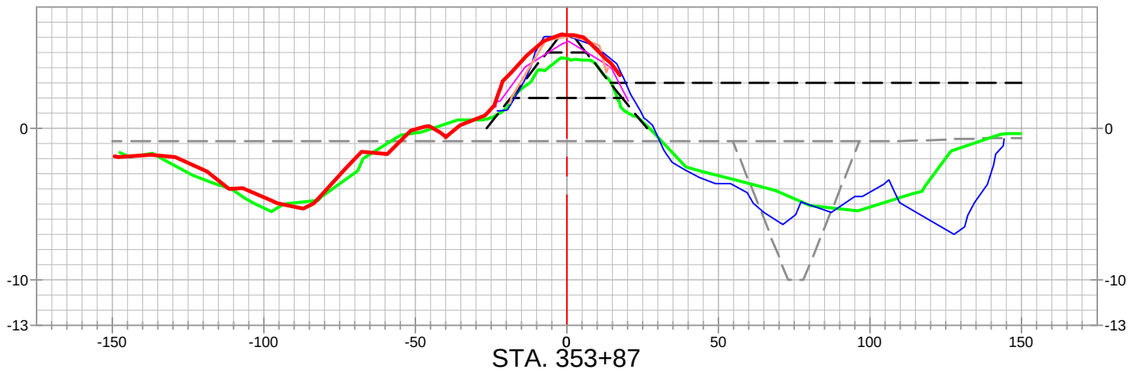
STA. 350+00



STA. 353+00



STA. 351+00



STA. 353+87

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

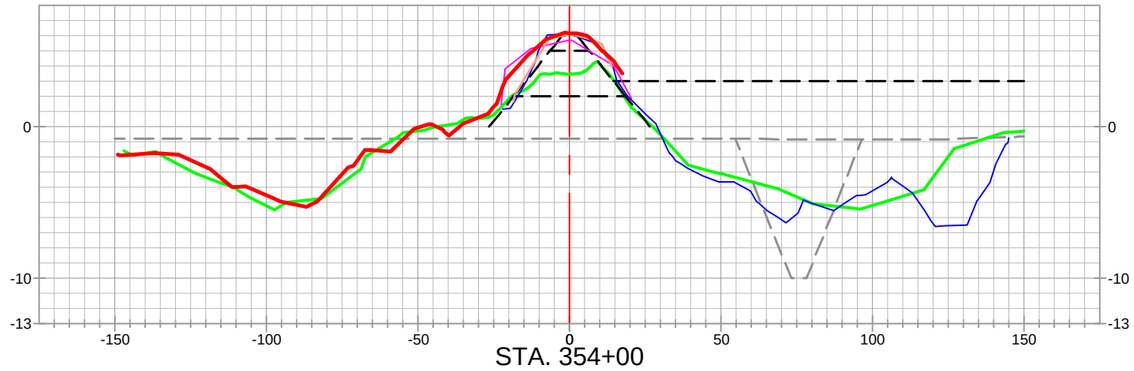
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

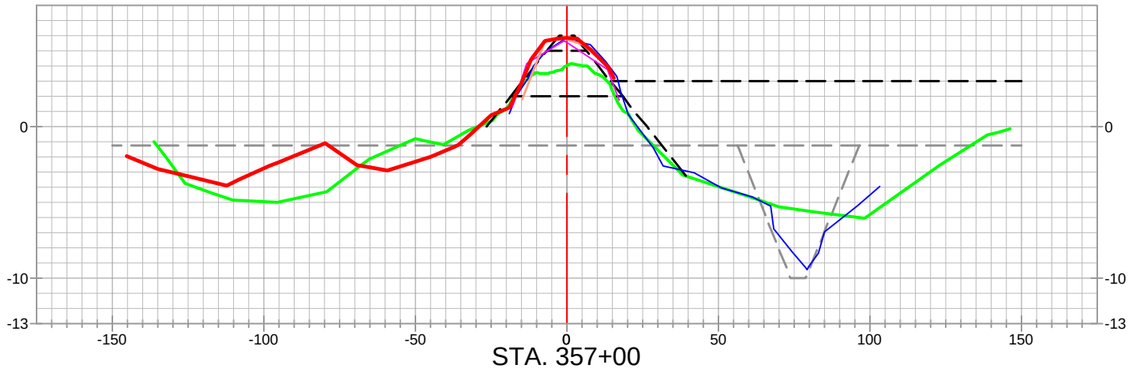
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 8 OF 29



STA. 354+00



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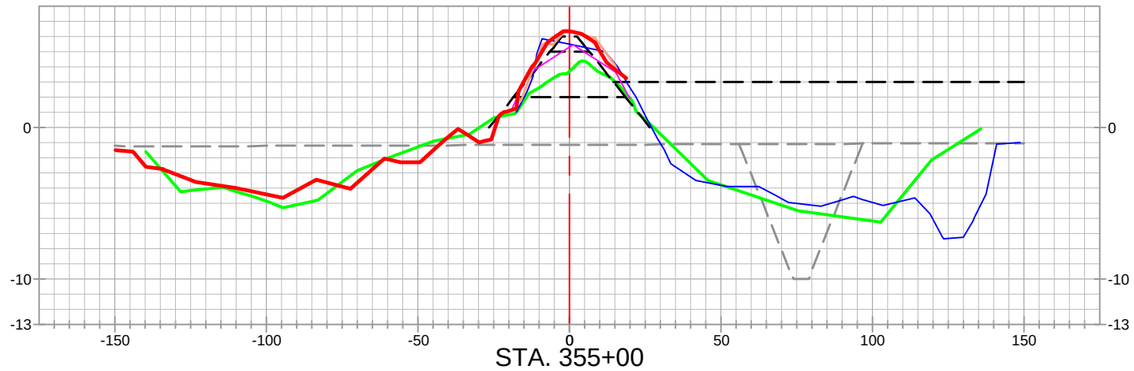
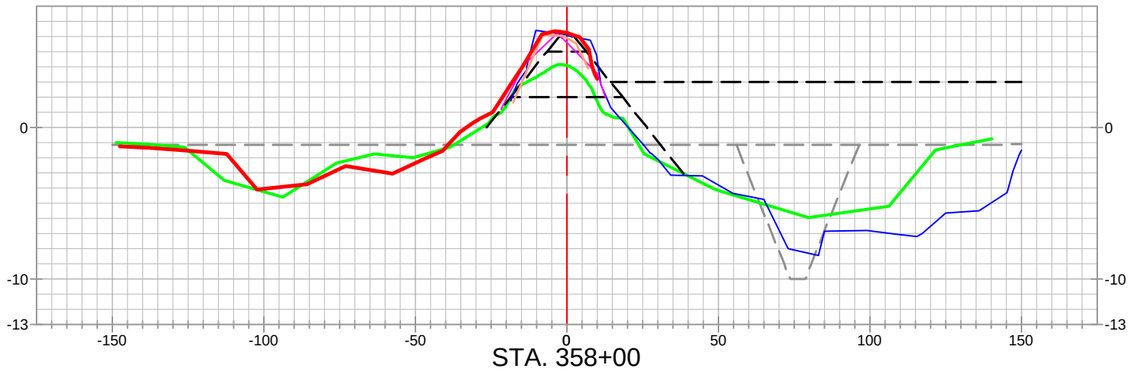


STA. 355+00



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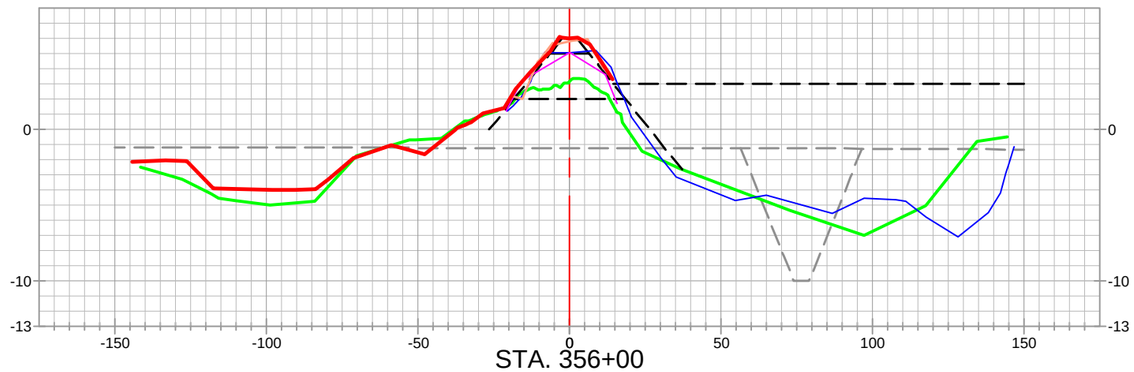
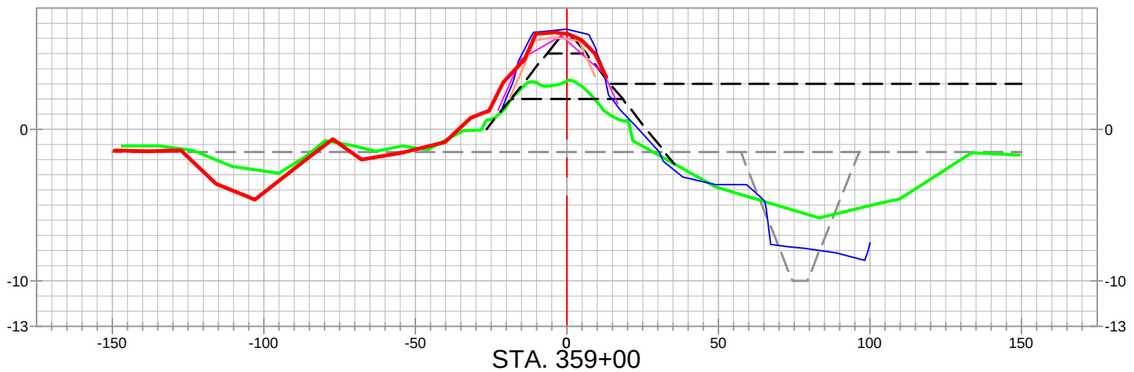


STA. 356+00



STA. 359+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

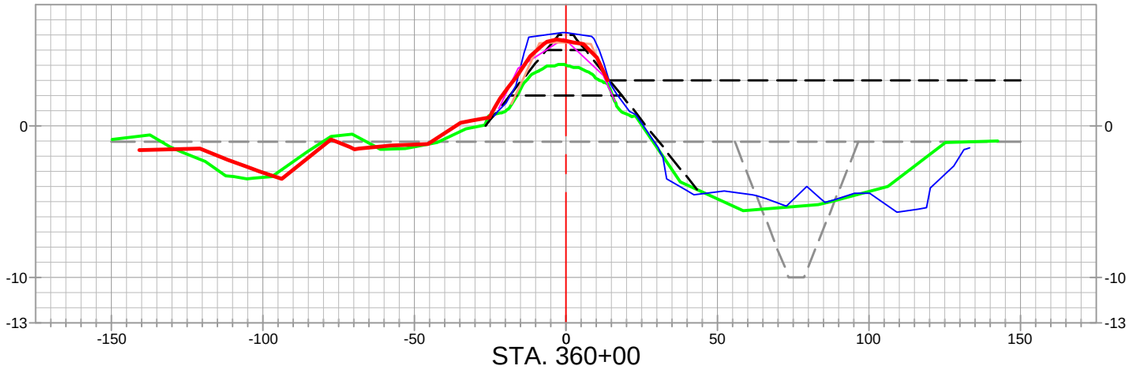
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

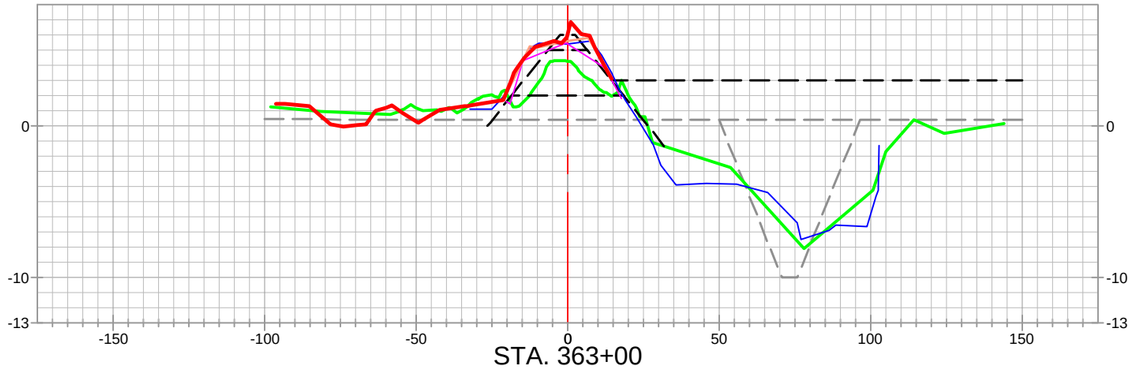
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

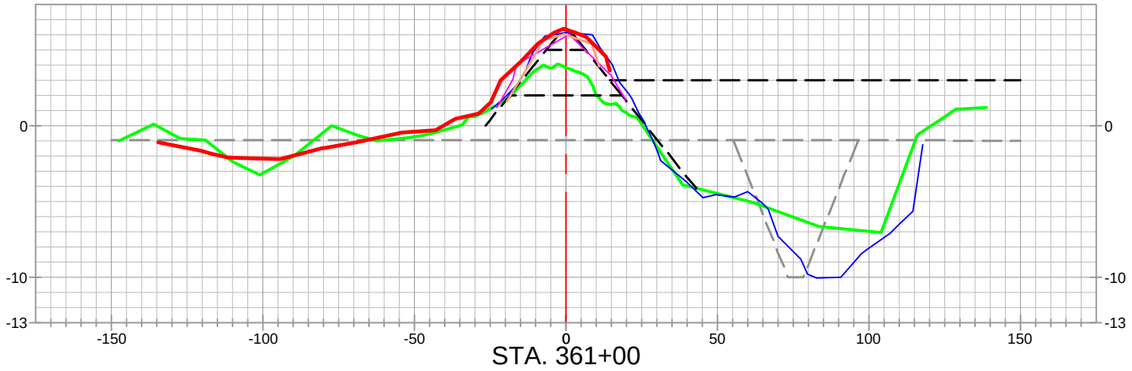
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg



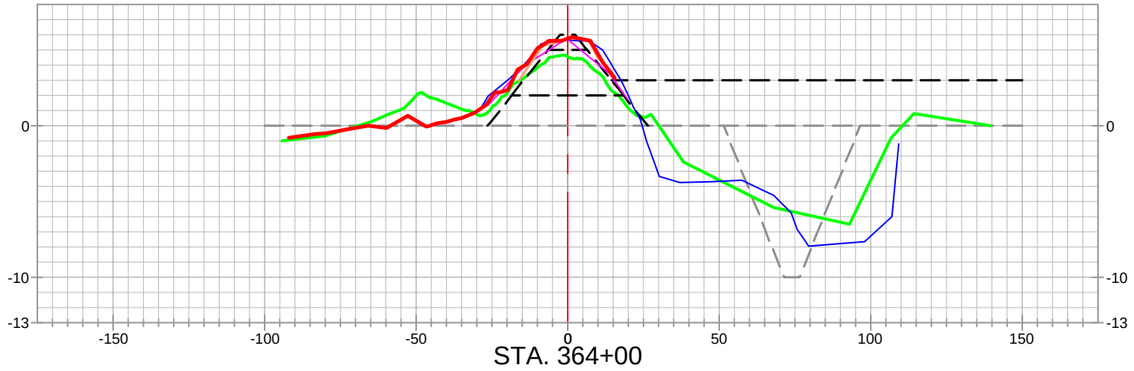
STA. 360+00



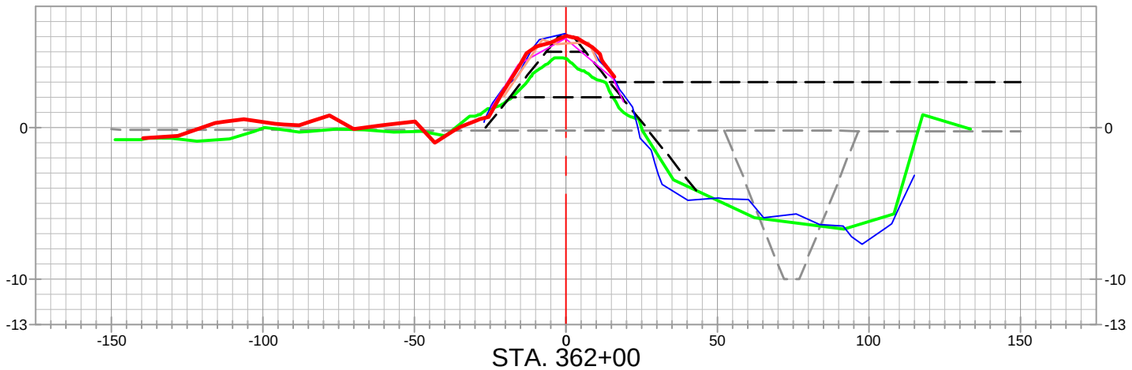
STA. 363+00



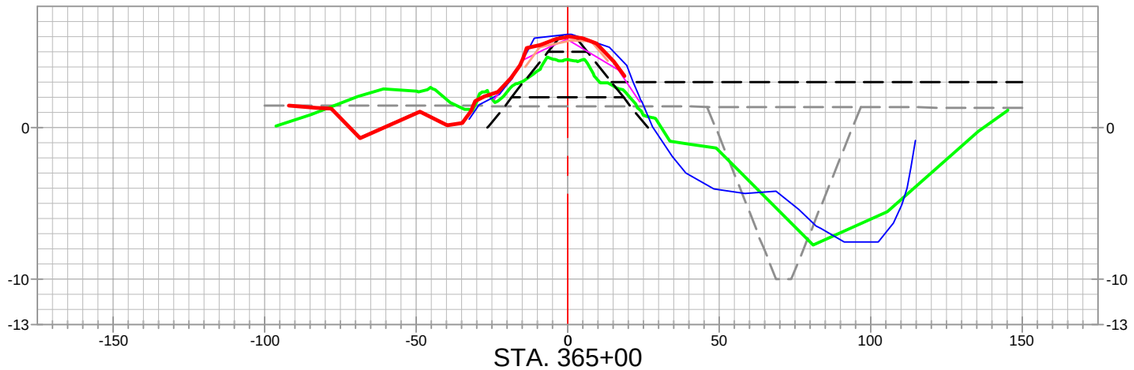
STA. 361+00



STA. 364+00



STA. 362+00



STA. 365+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/2022

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

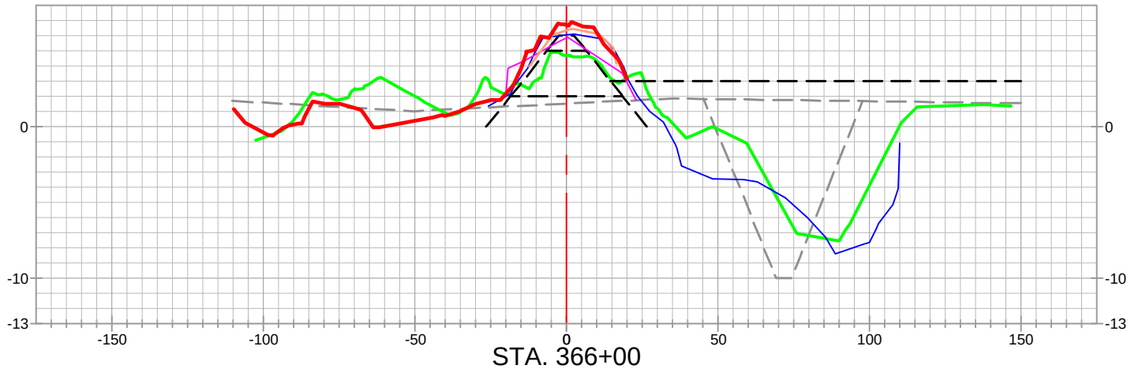
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

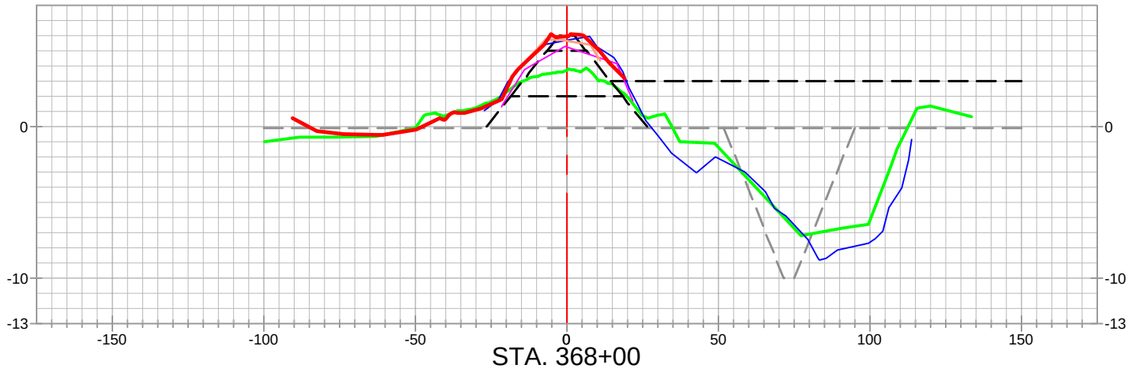
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

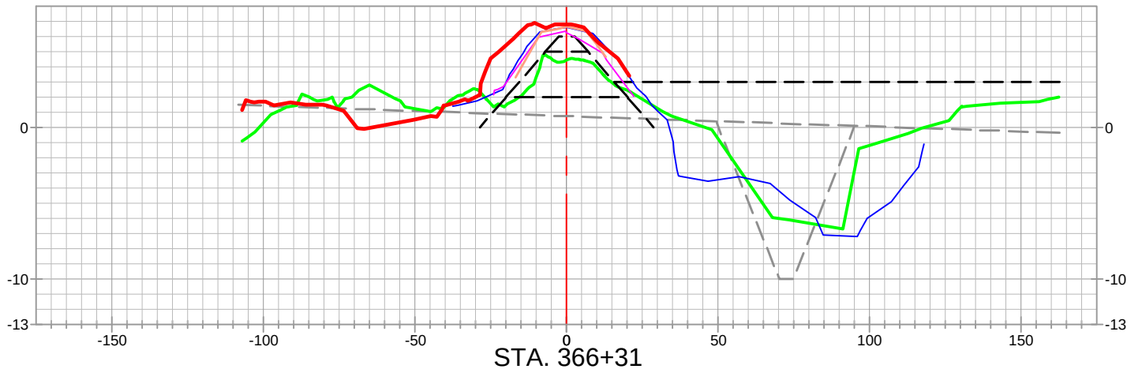
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg



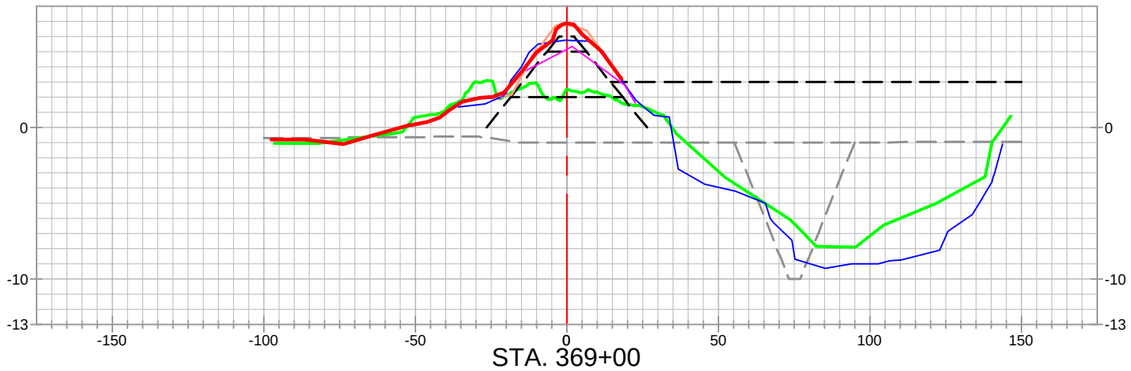
STA. 366+00



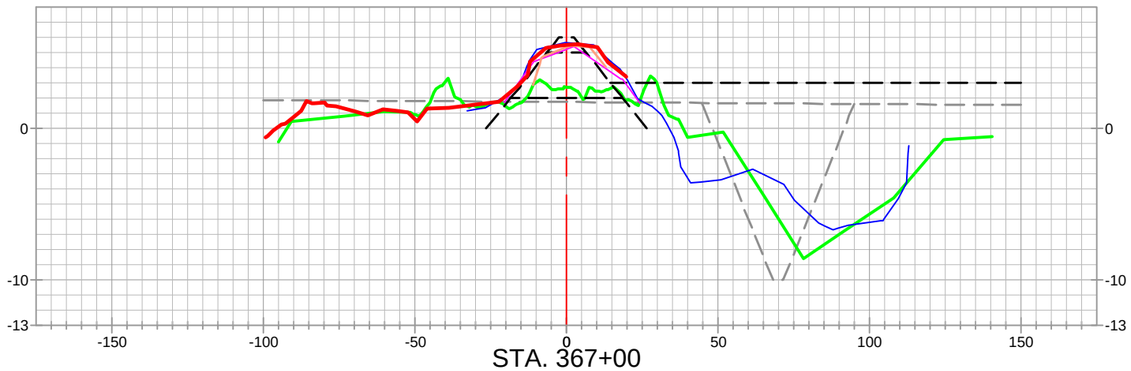
STA. 368+00



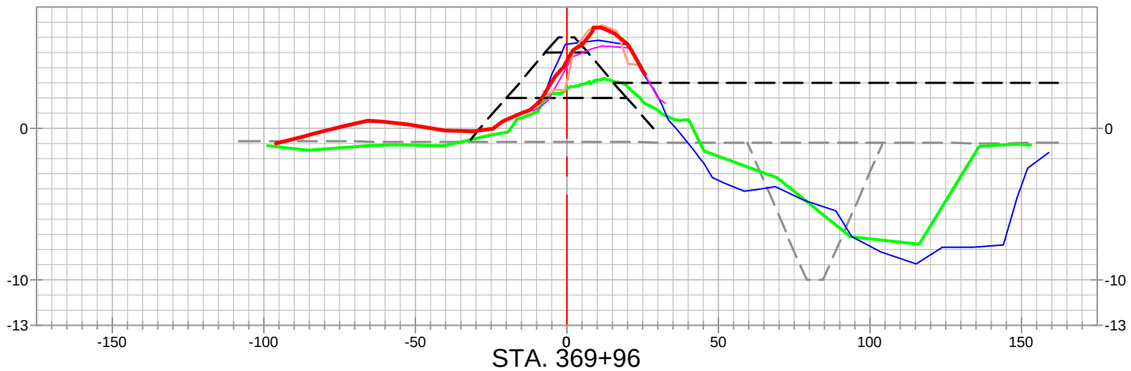
STA. 366+31



STA. 369+00



STA. 367+00



STA. 369+96

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

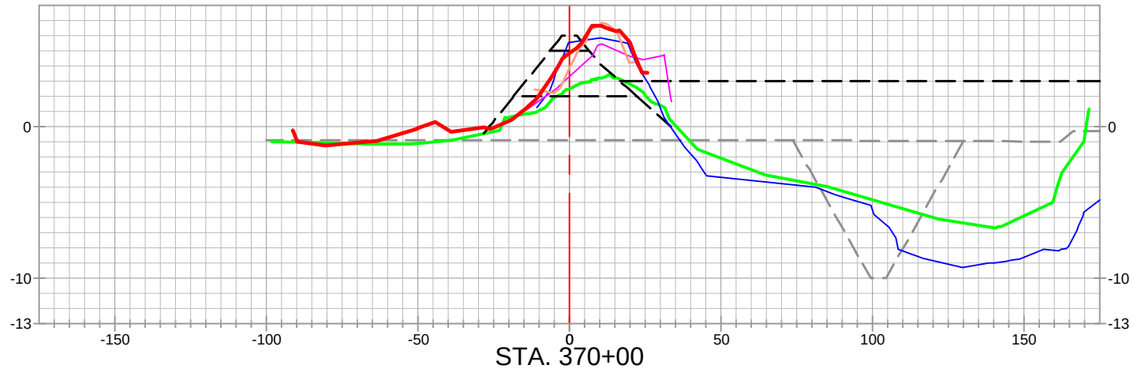
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

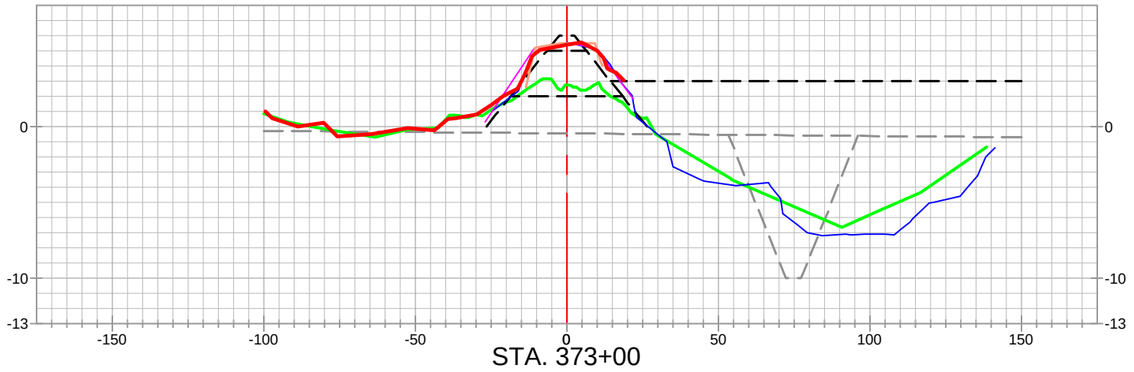
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

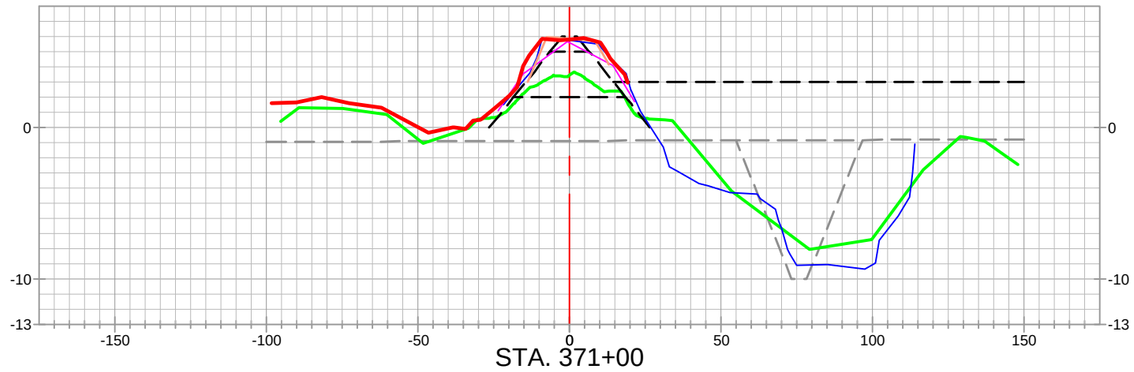
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 11 OF 29



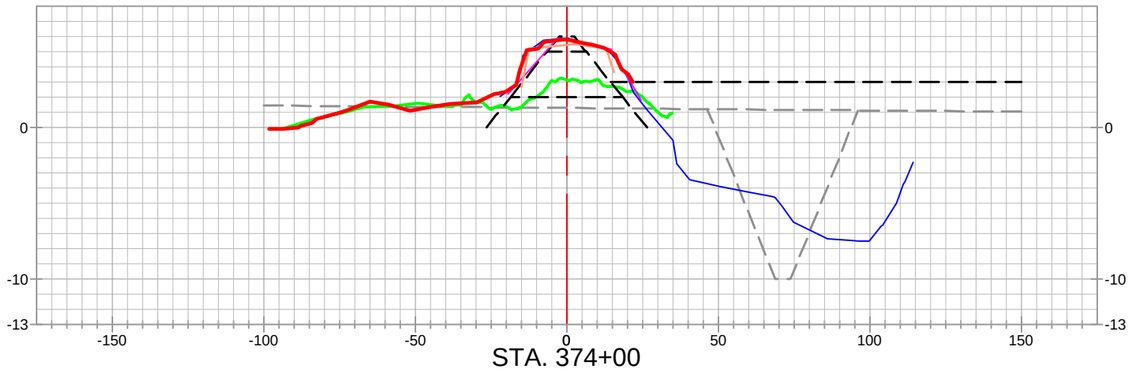
STA. 370+00



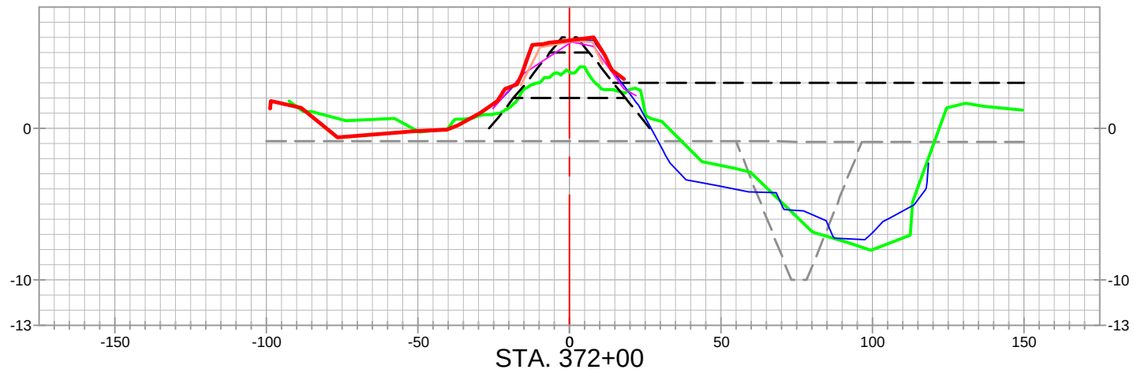
STA. 373+00



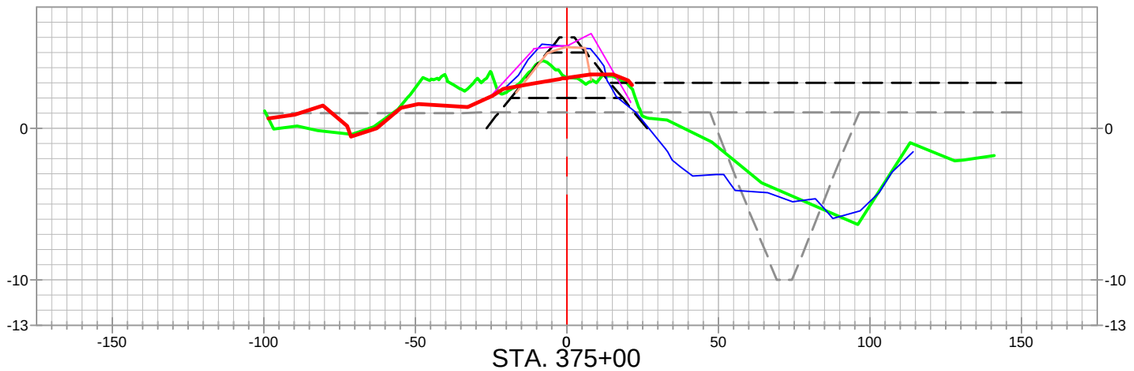
STA. 371+00



STA. 374+00



STA. 372+00



STA. 375+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

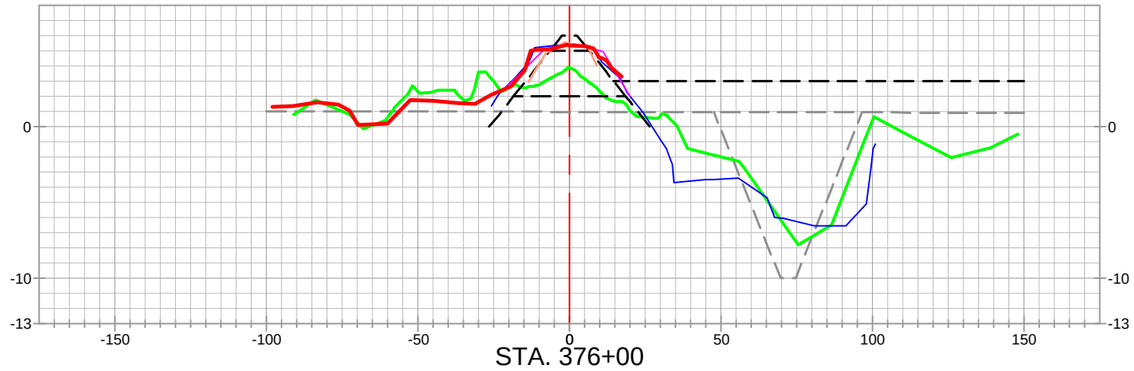
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

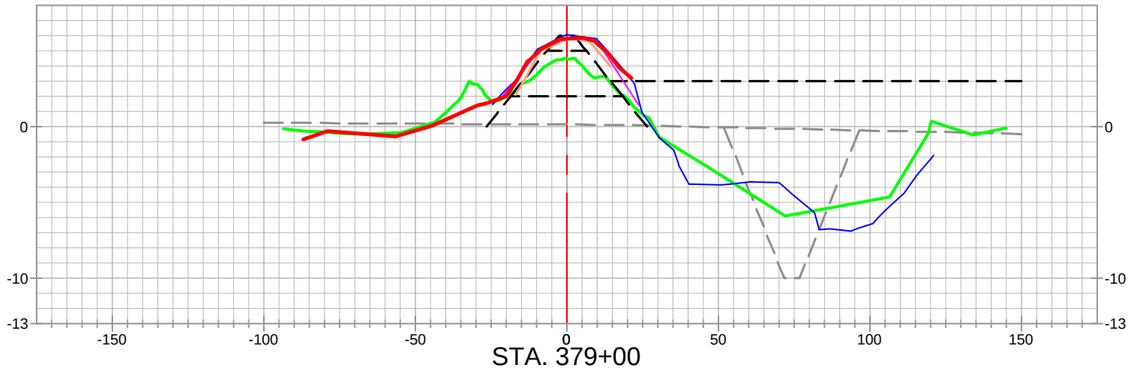
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

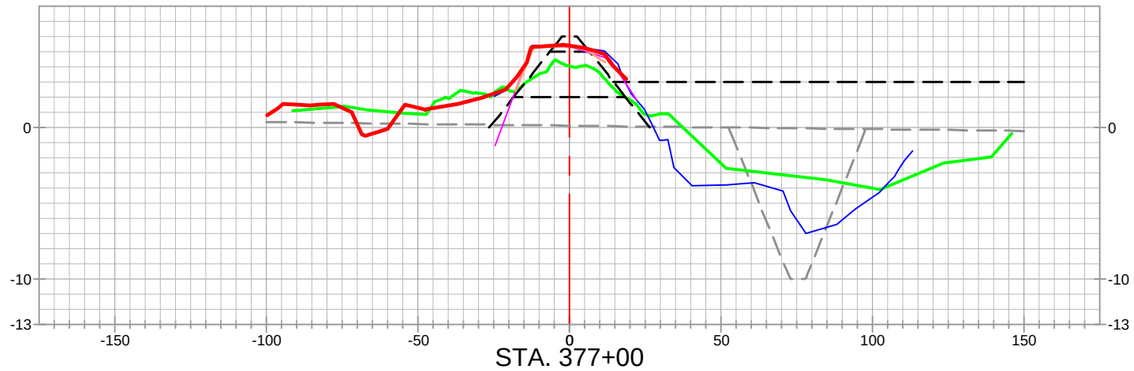
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg



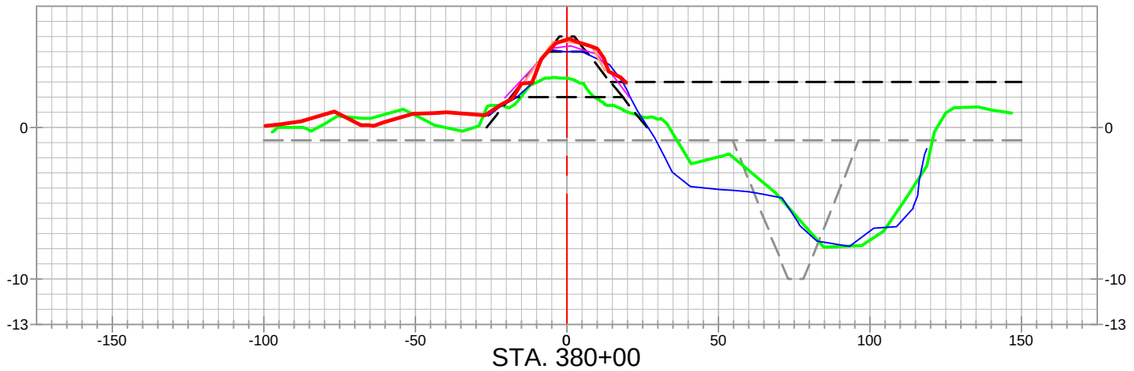
STA. 376+00



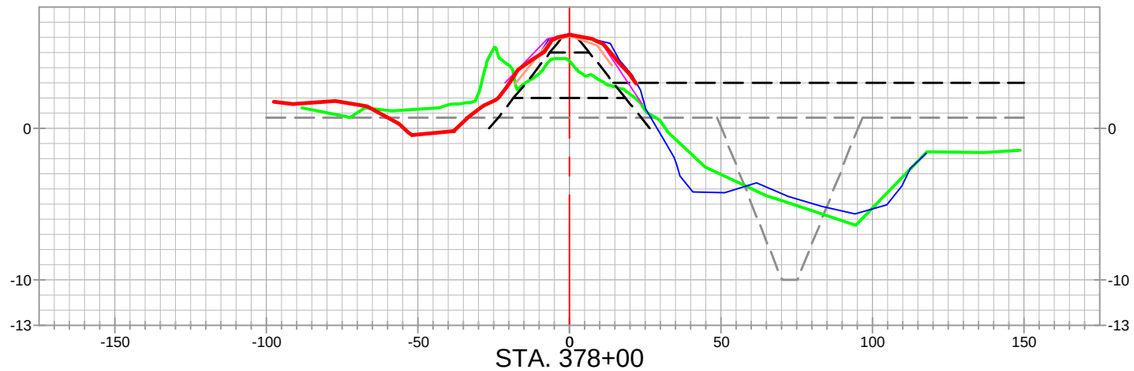
STA. 379+00



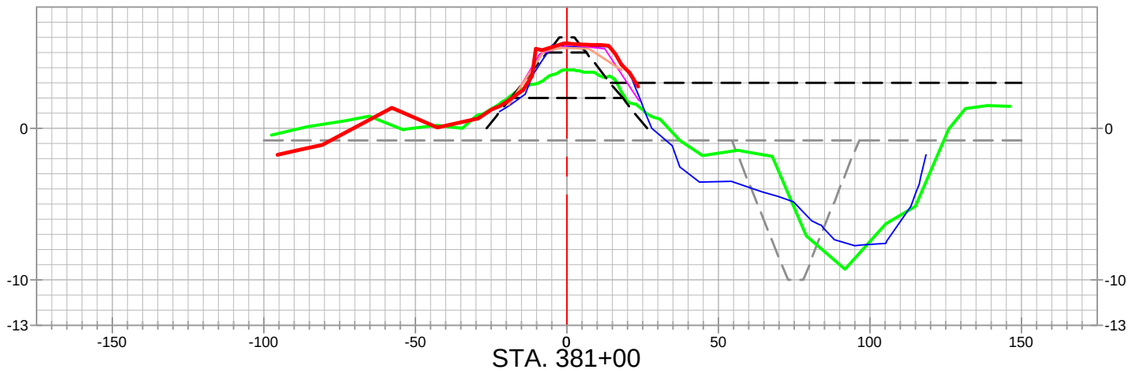
STA. 377+00



STA. 380+00



STA. 378+00



STA. 381+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

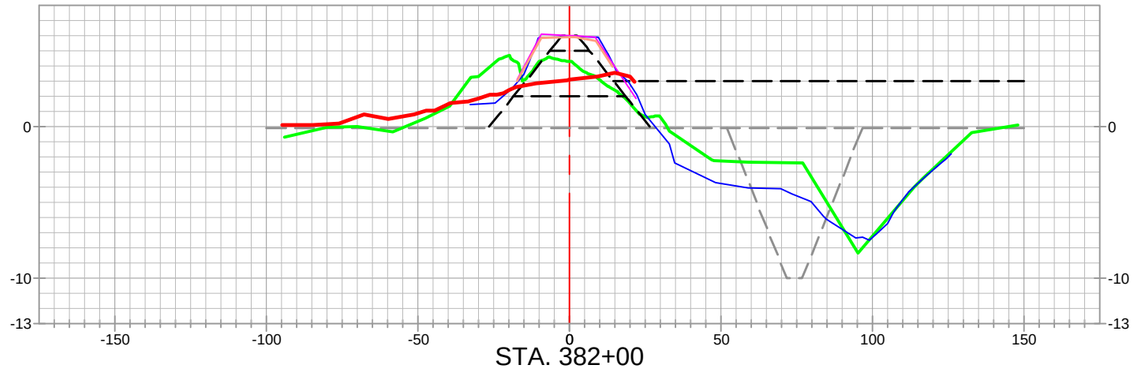
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

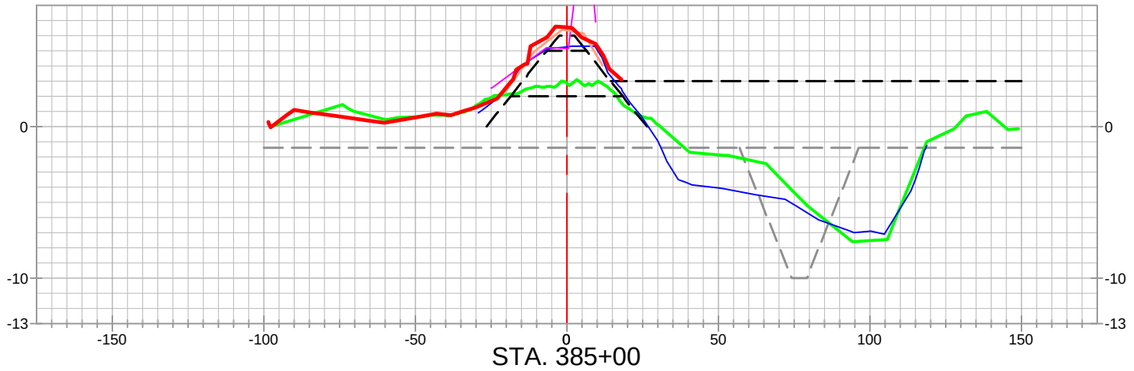
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

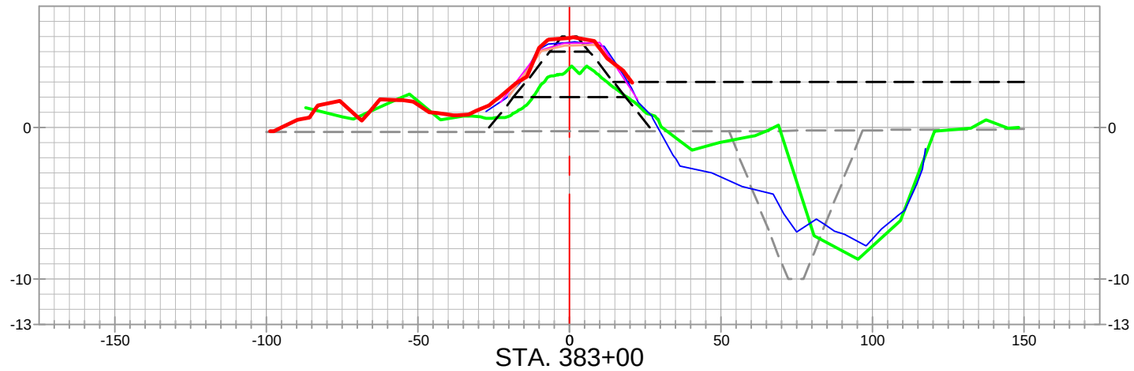
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 13 OF 29



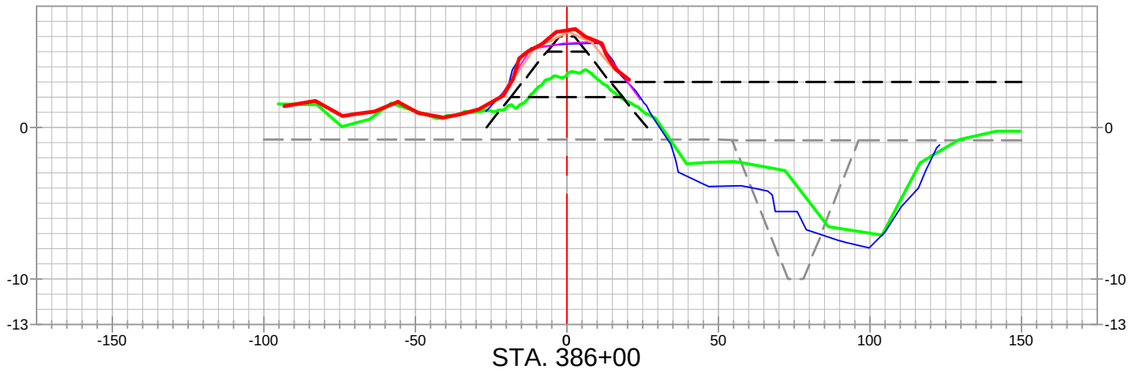
STA. 382+00



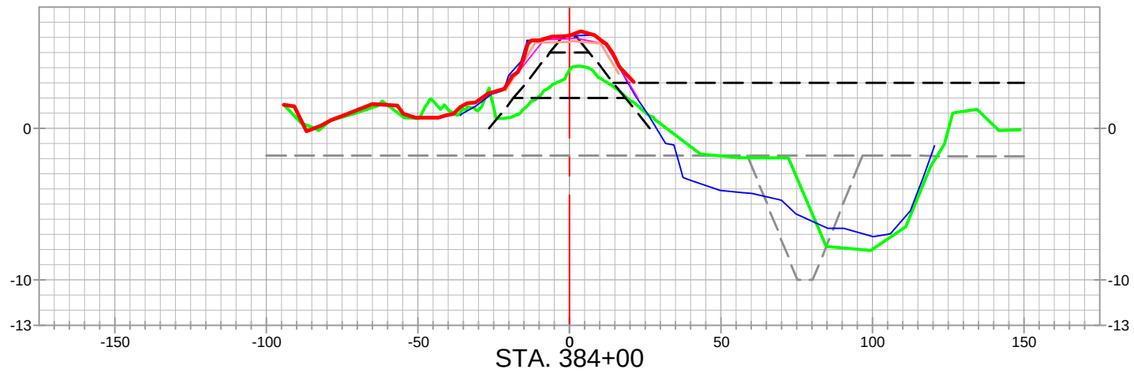
STA. 385+00



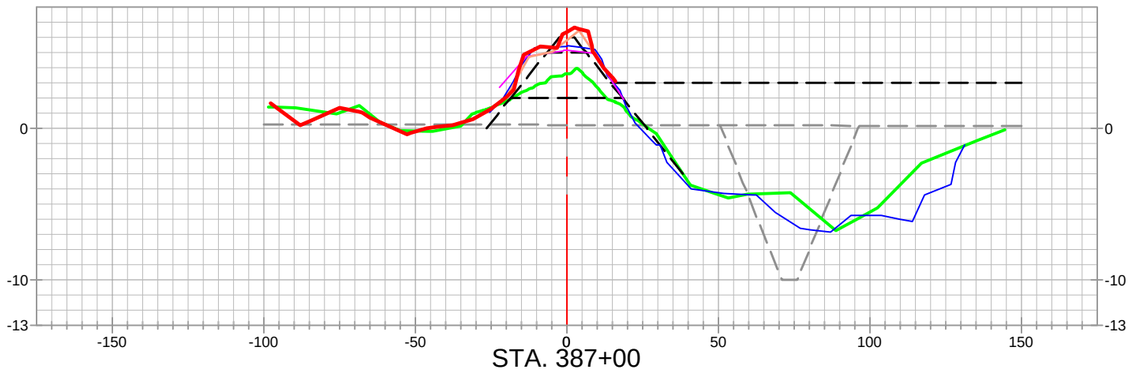
STA. 383+00



STA. 386+00



STA. 384+00



STA. 387+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

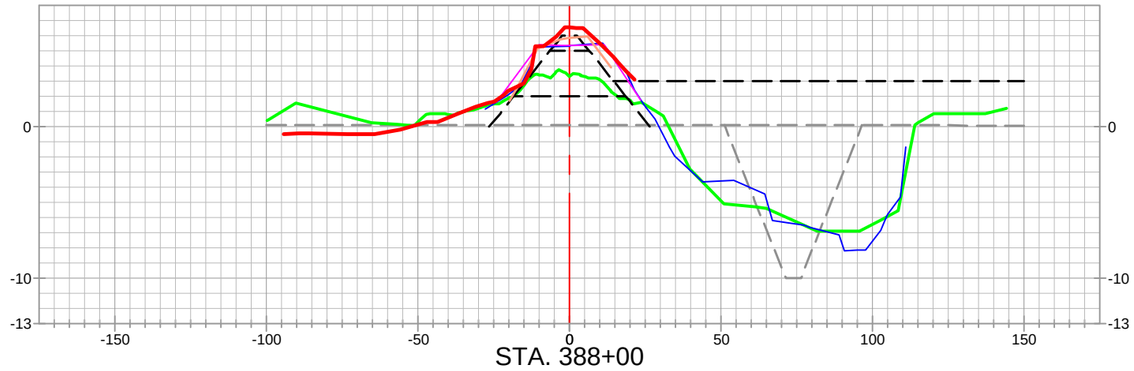
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

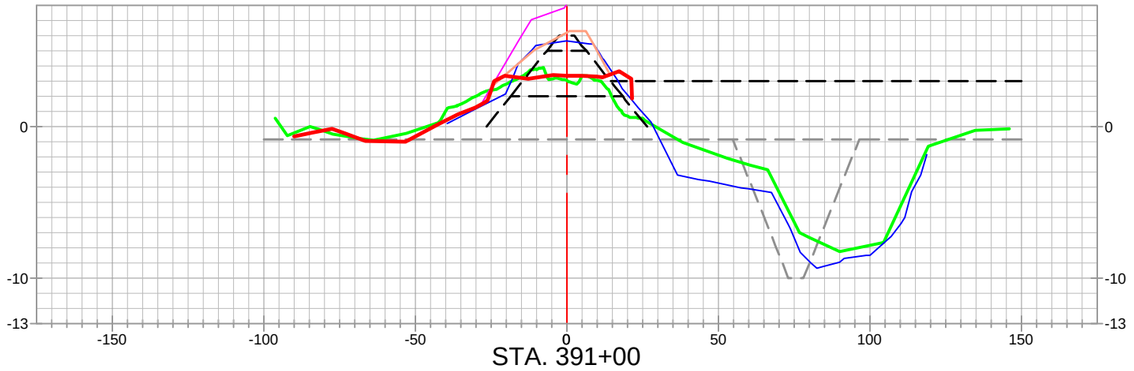
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

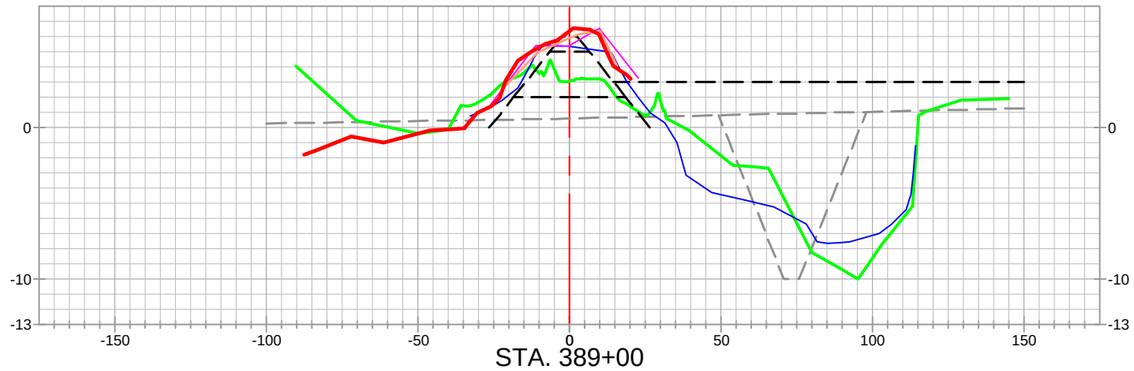
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 14 OF 29



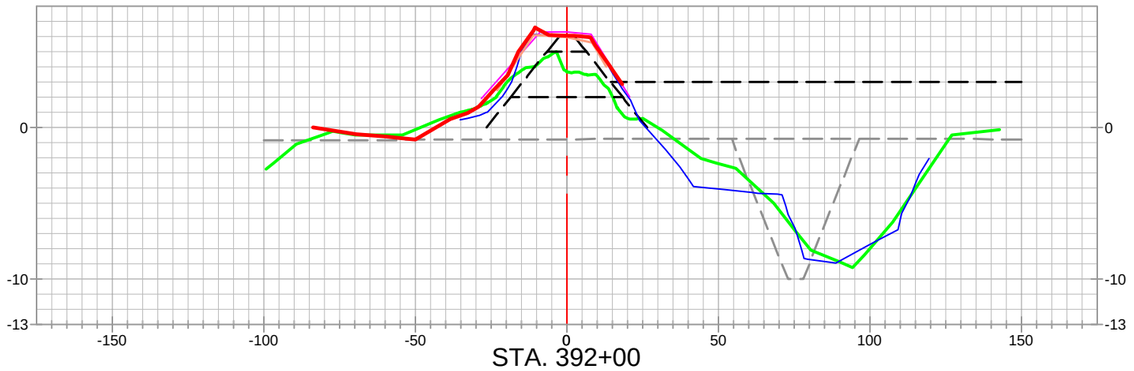
STA. 388+00



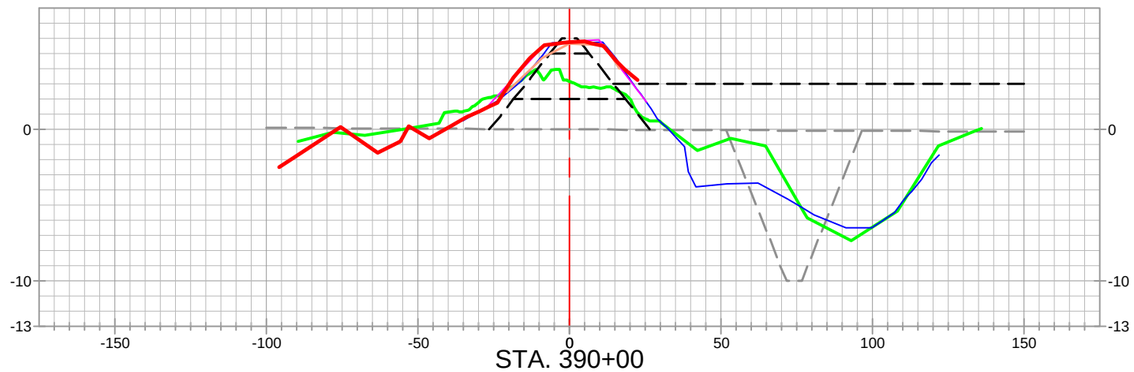
STA. 391+00



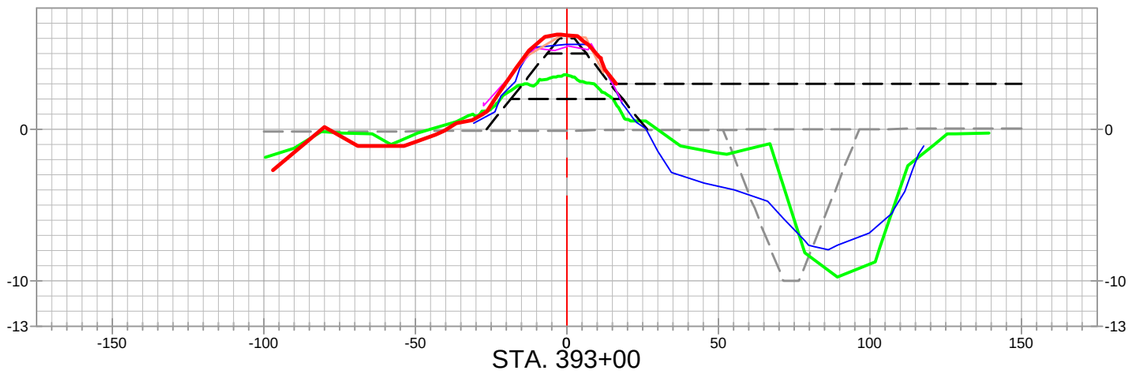
STA. 389+00



STA. 392+00



STA. 390+00



STA. 393+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

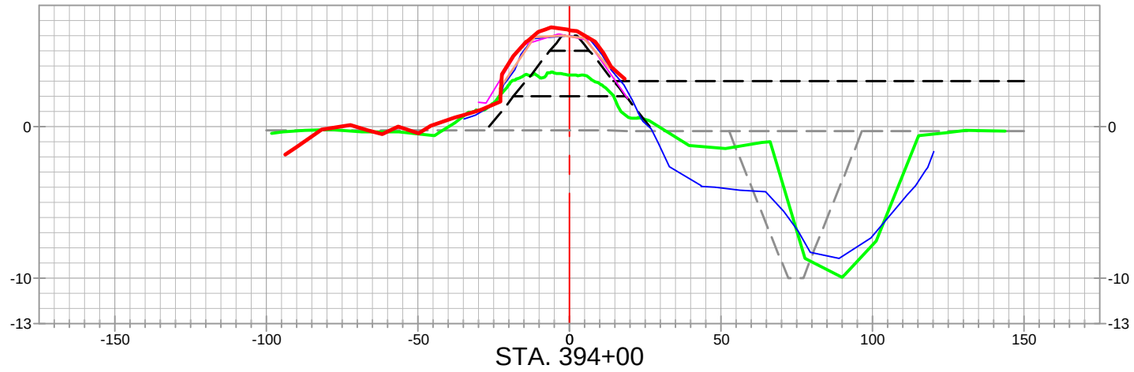
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

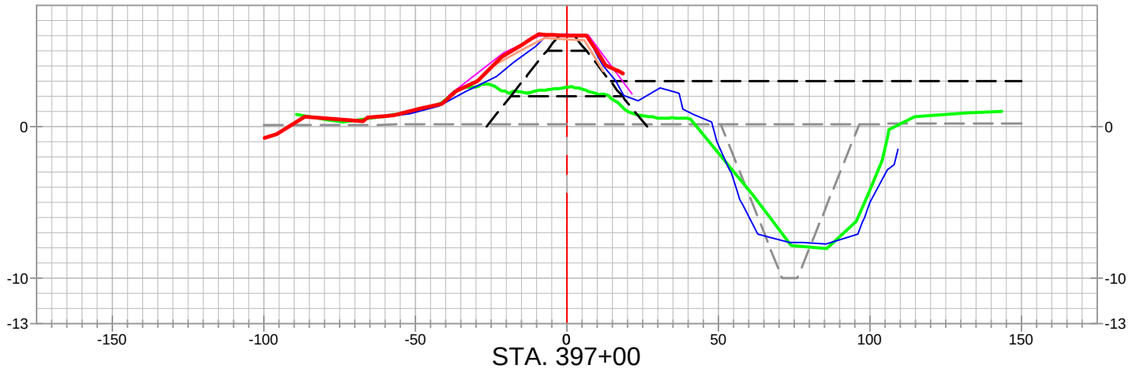
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 15 OF 29



STA. 394+00



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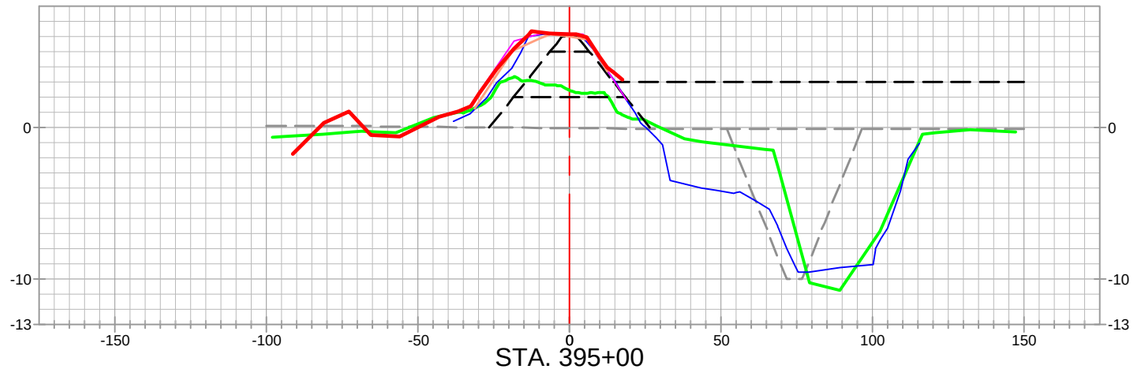
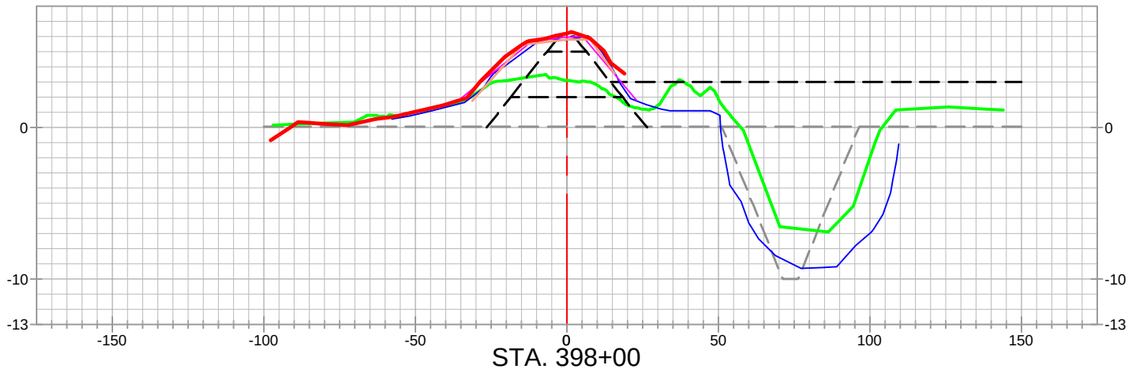
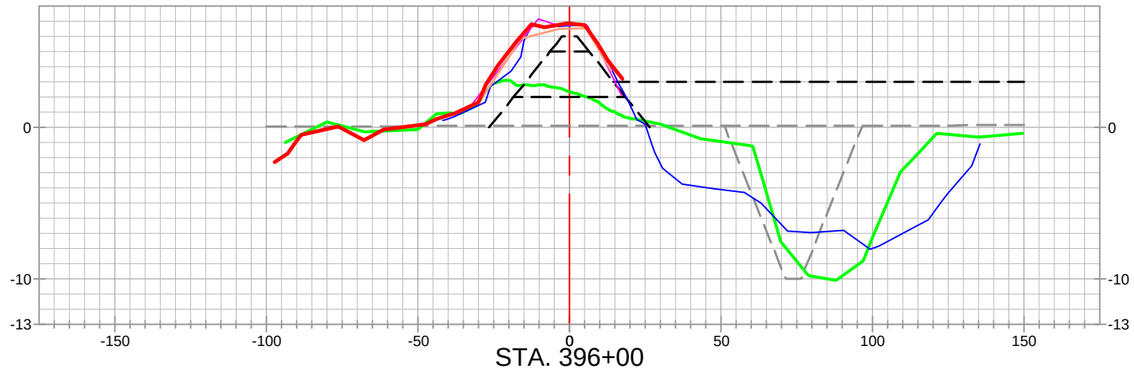


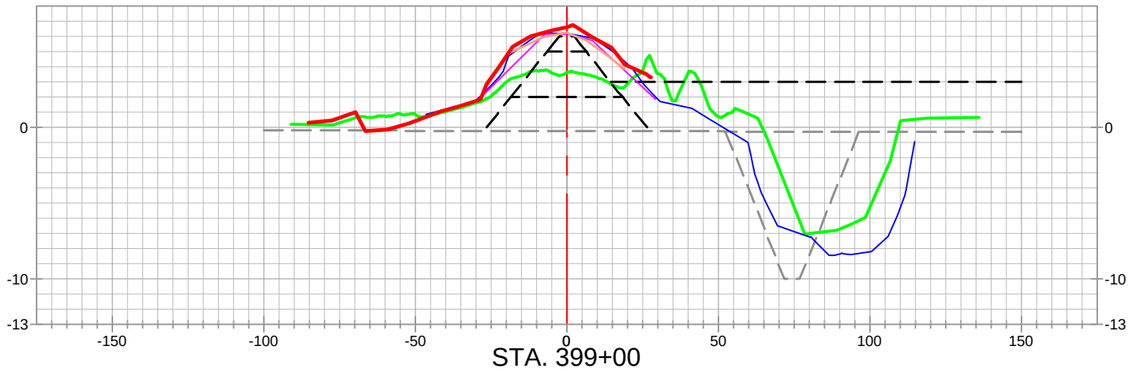
STA. 395+00



STA. 398+00



STA. 396+00



STA. 399+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

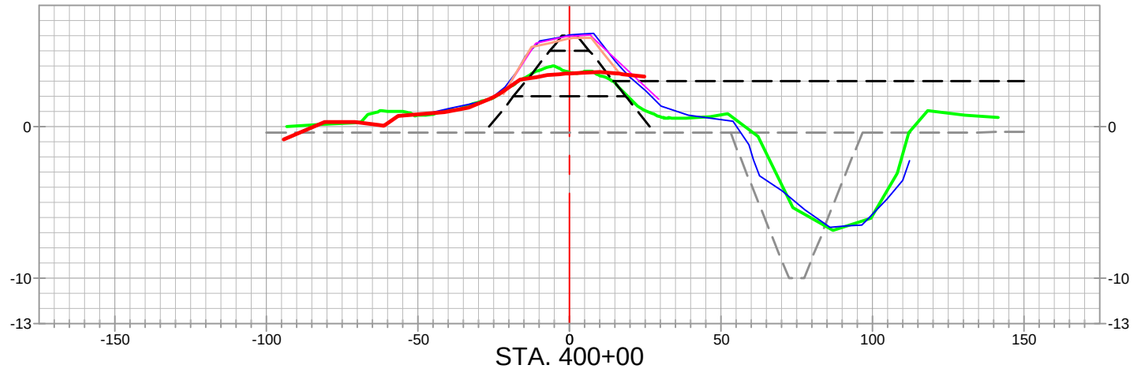
GREAT LAKES DREDGE & DOCK

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

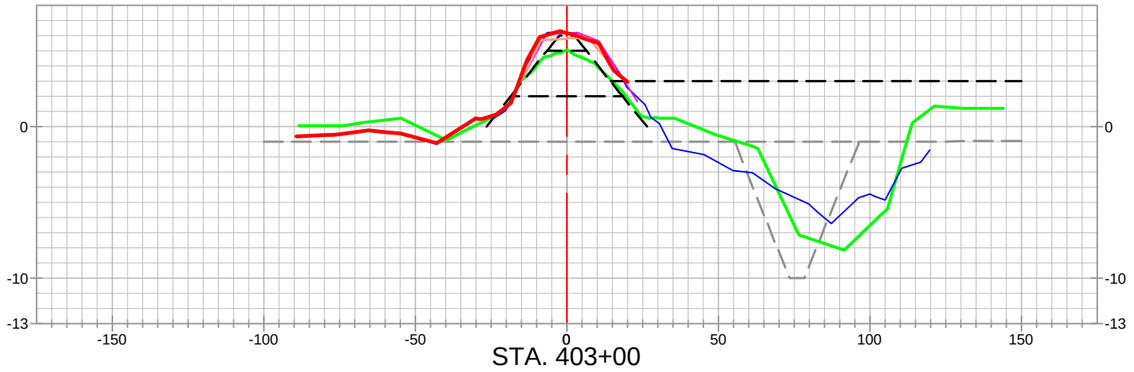
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

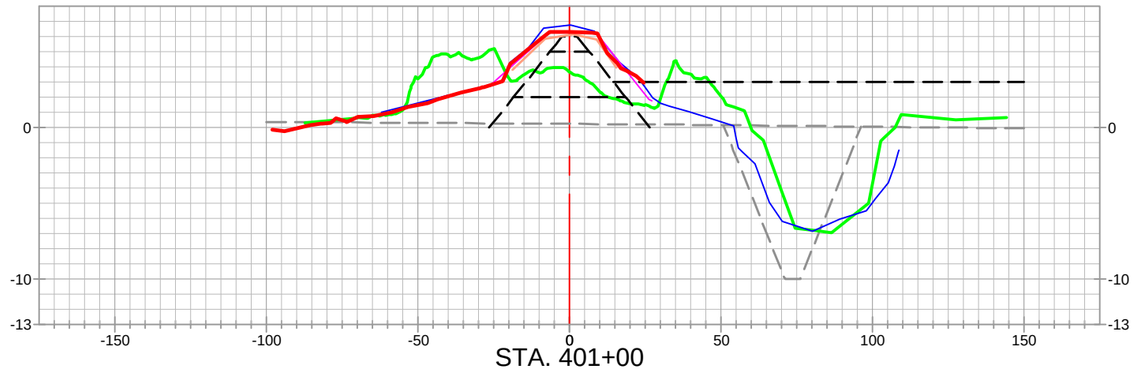
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 16 OF 29



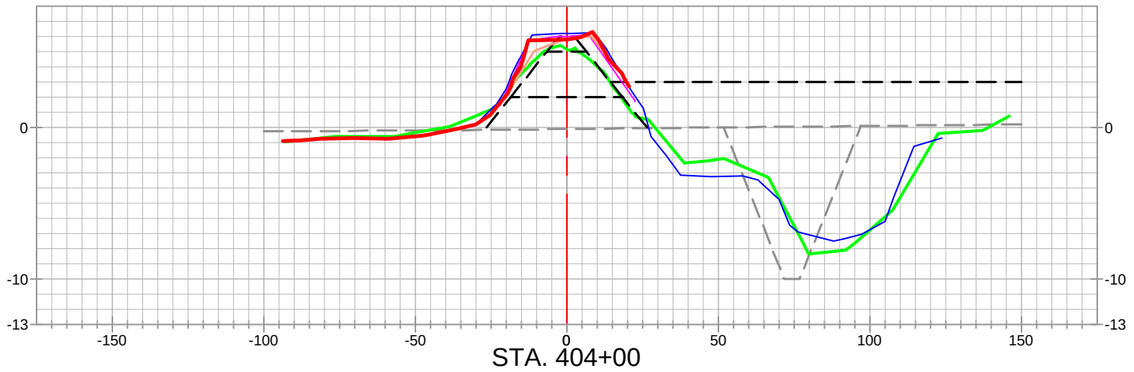
STA. 400+00



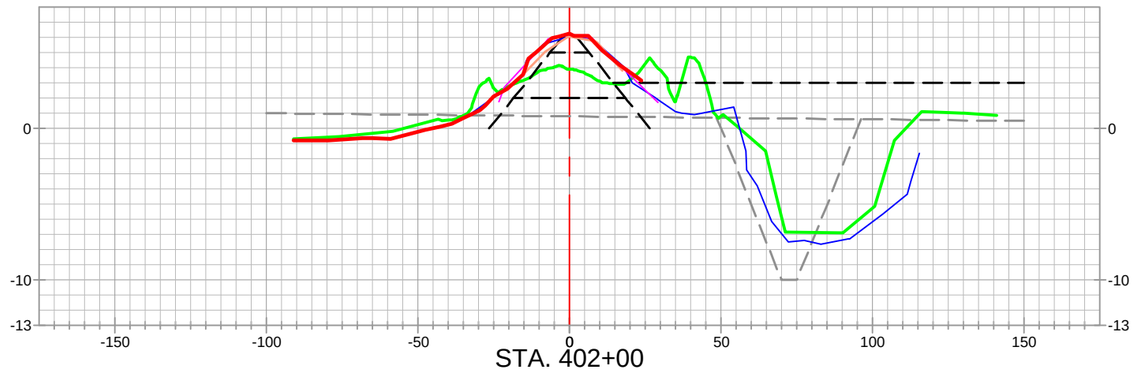
STA. 403+00



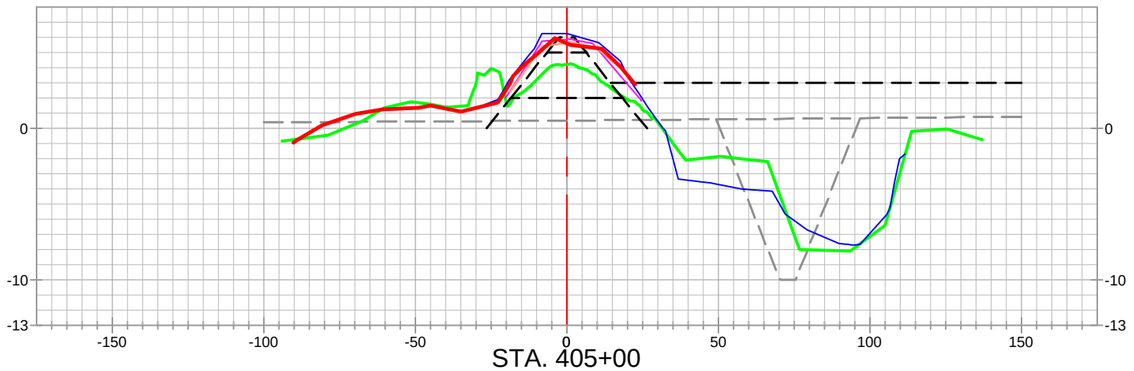
STA. 401+00



STA. 404+00



STA. 402+00



STA. 405+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

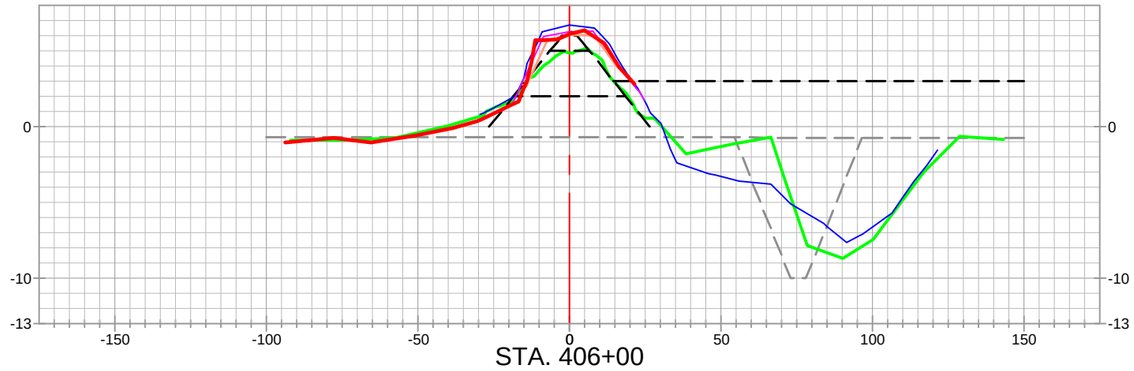
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

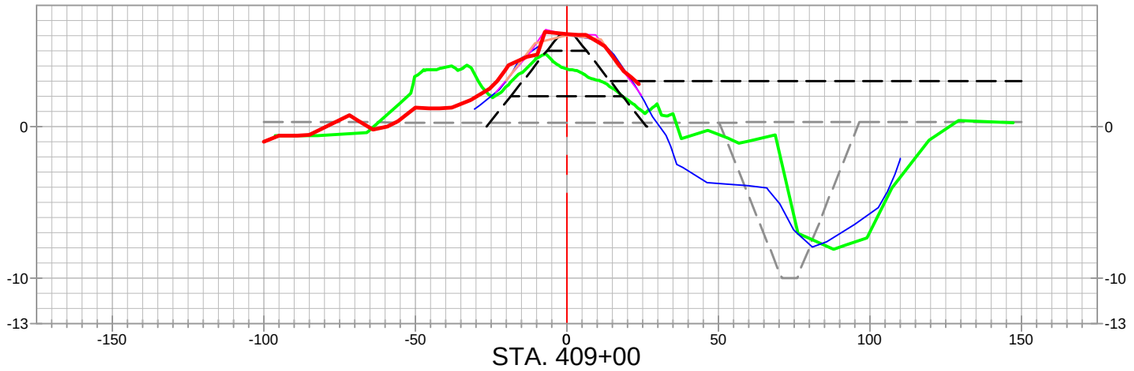
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

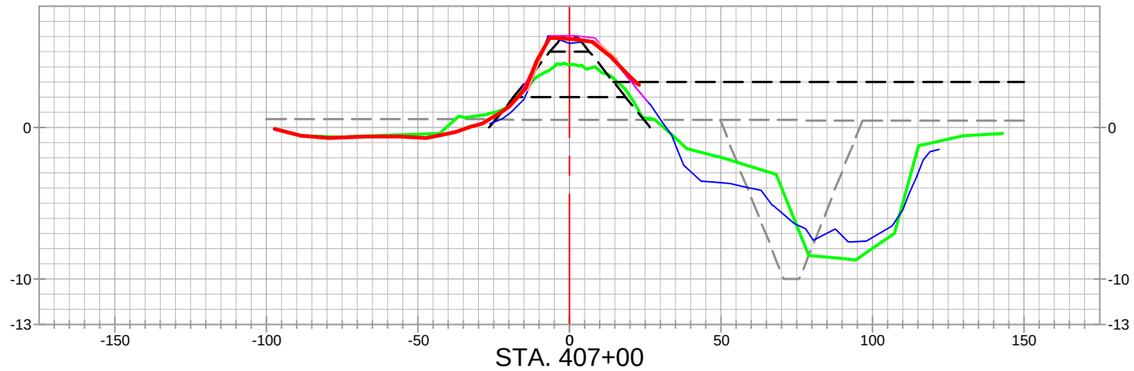
DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 17 OF 29



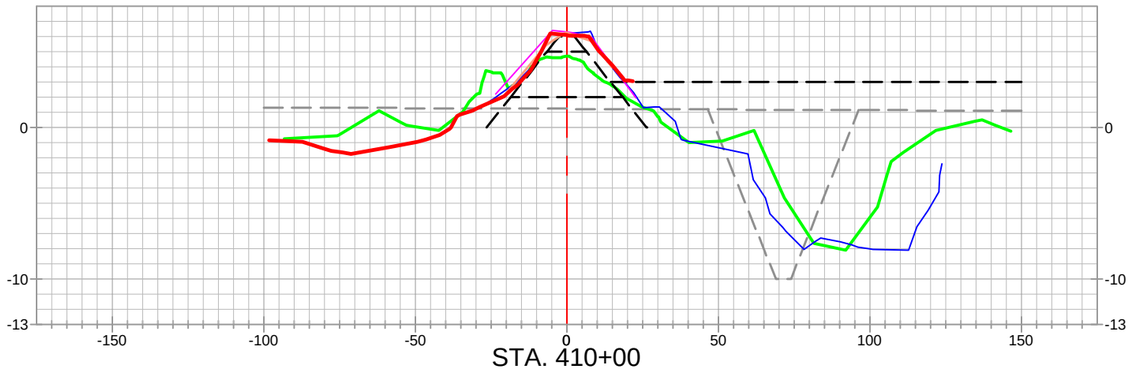
STA. 406+00



STA. 409+00



STA. 407+00



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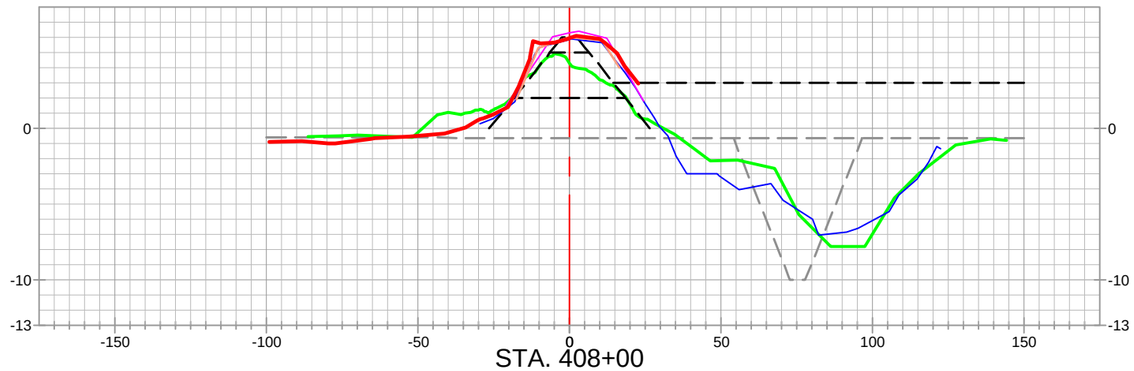
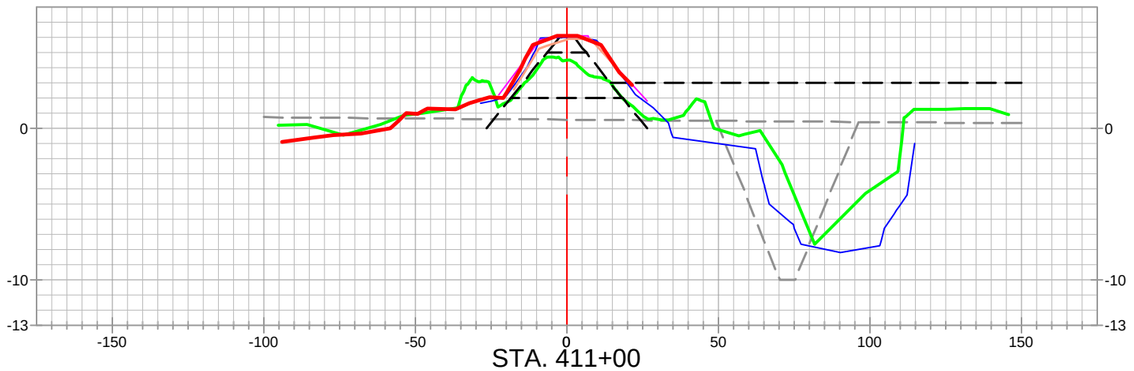


STA. 408+00



STA. 411+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

20" CHEVRON PIPELINE

4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES

ALIGNMENT / BASELINE

AS-BUILT SURVEY (12-09-22)
PREVIOUS PROGRESS SURVEYS
MONTHLY ECD SURVEY (09-17-22)
MONTHLY ECD SURVEY (10-15-22)
PRE-CONSTRUCTION SURVEY (2022)
PRE-CONSTRUCTION SURVEY (06-24-20)
TEMPLATE
BORROW TEMPLATE
20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

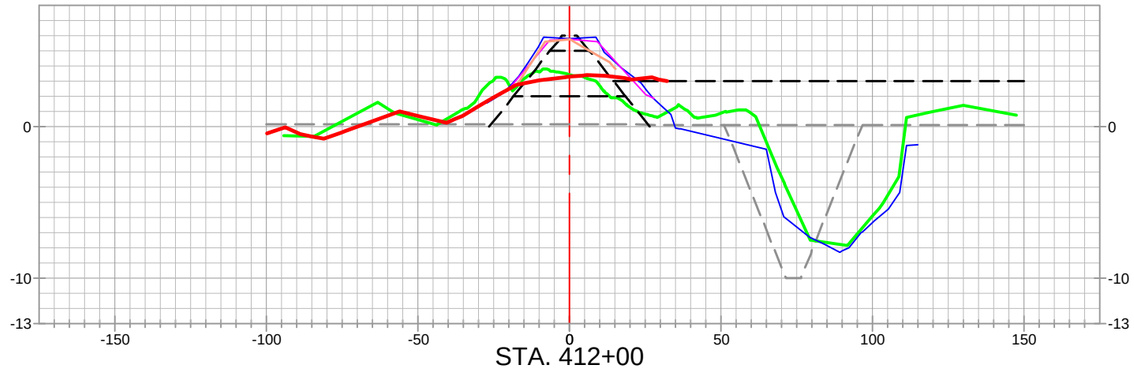
EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg



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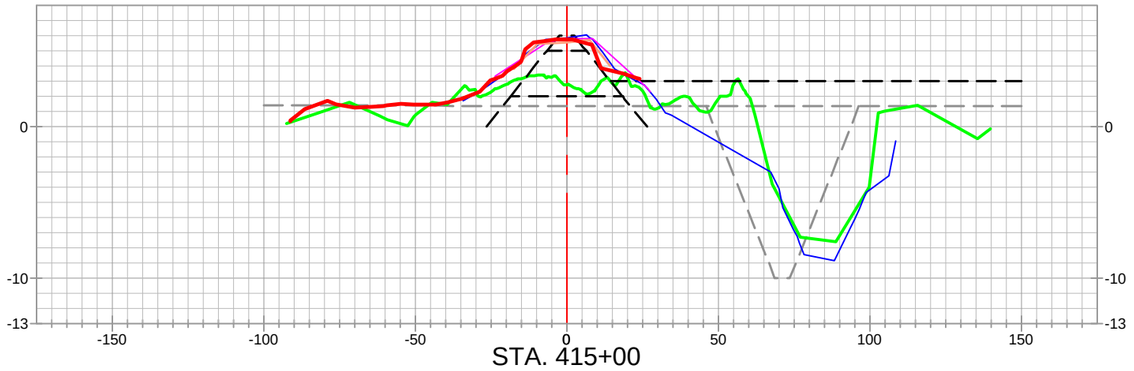

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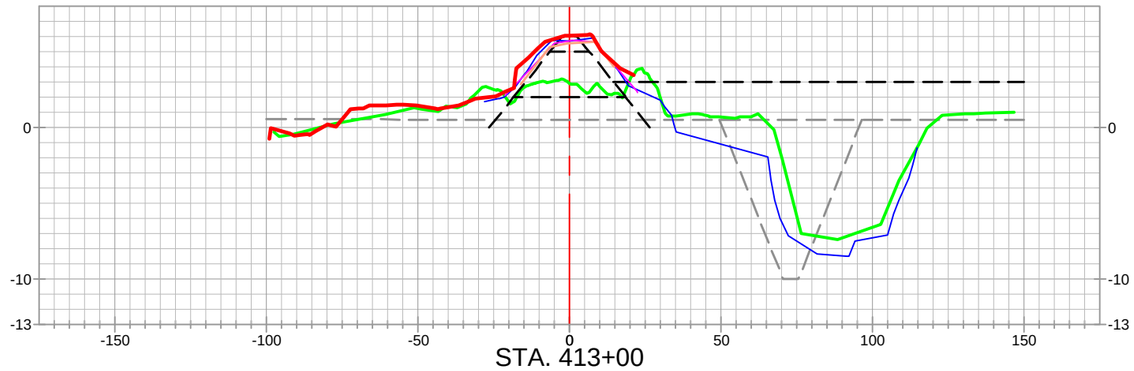

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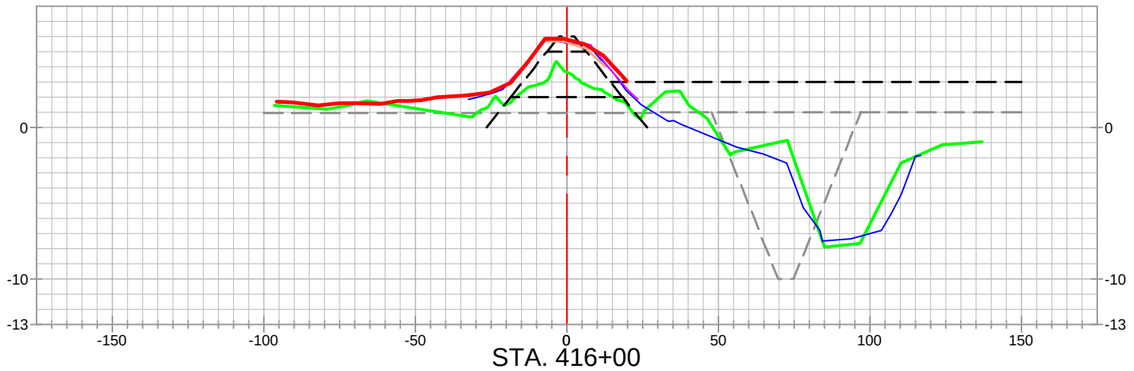

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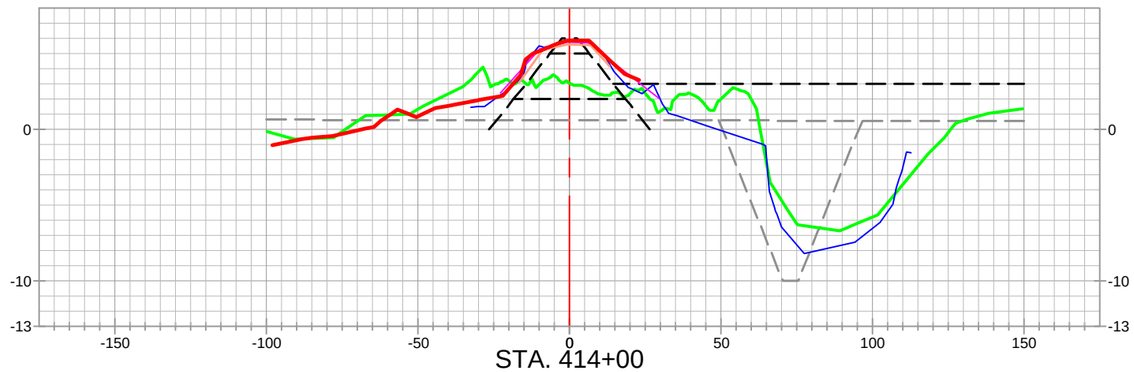

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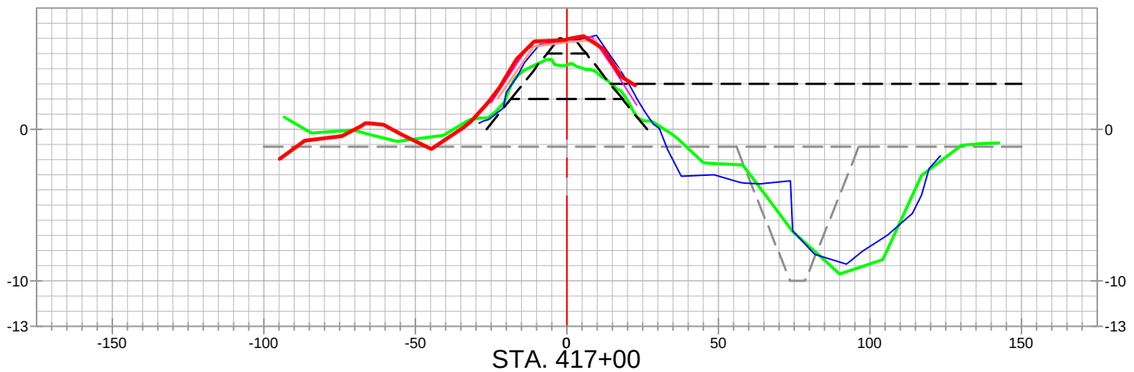


STA. 417+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

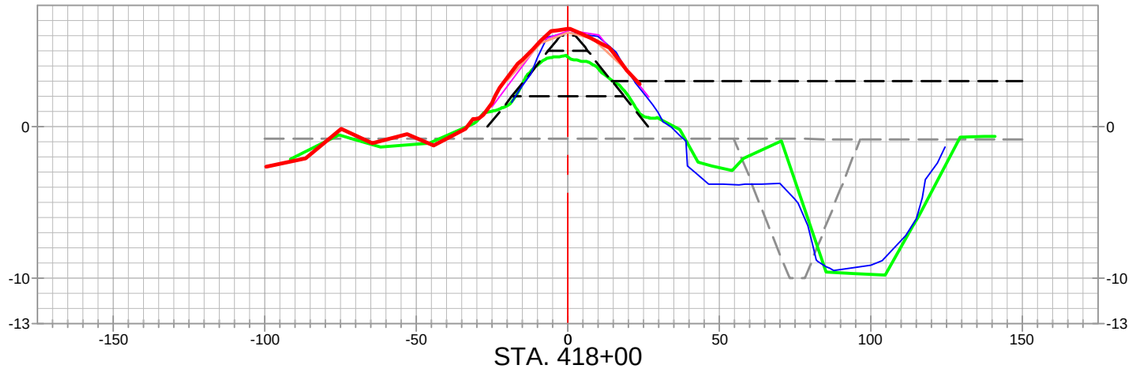
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 19 OF 29



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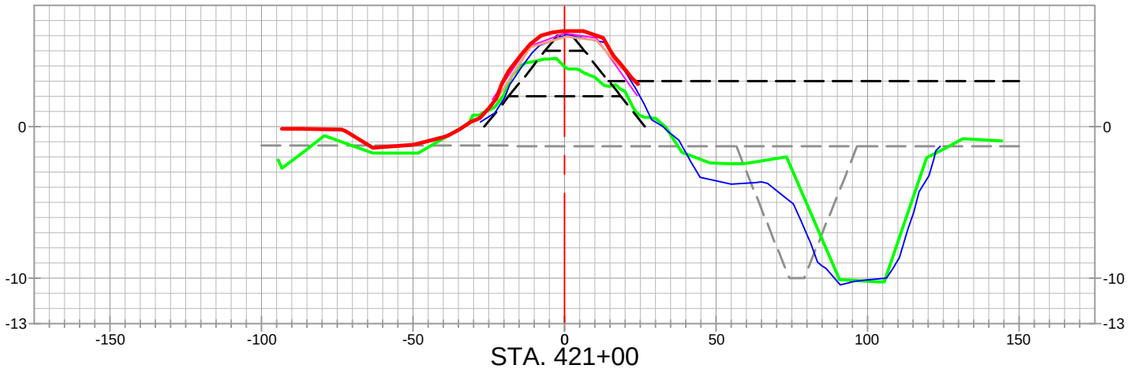

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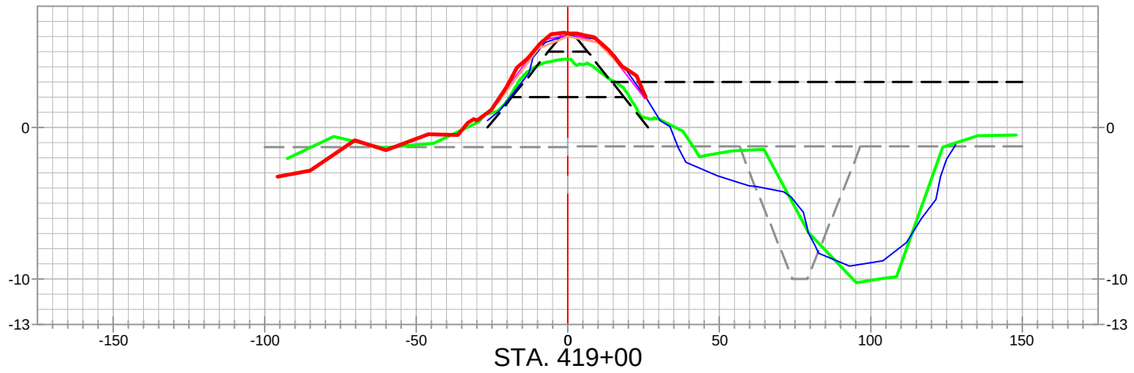

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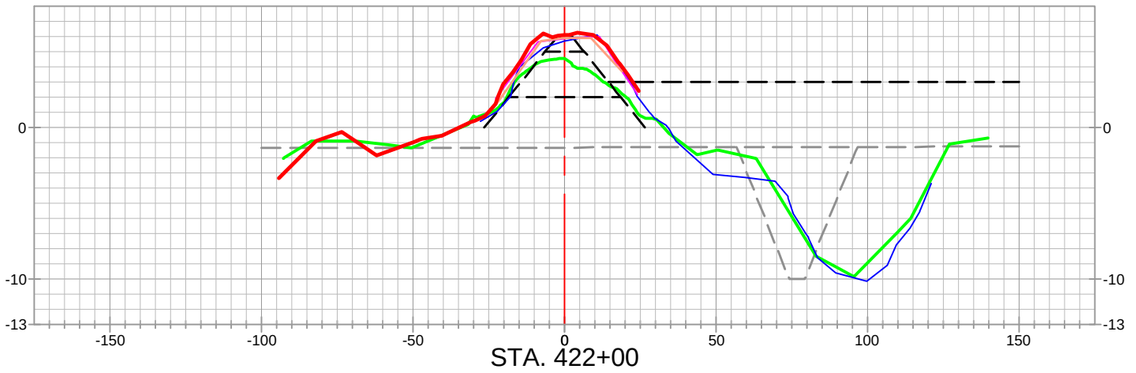

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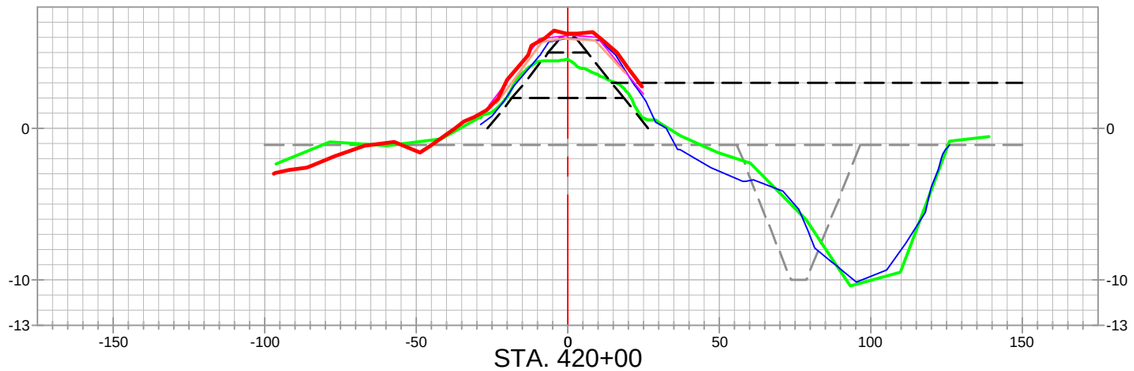

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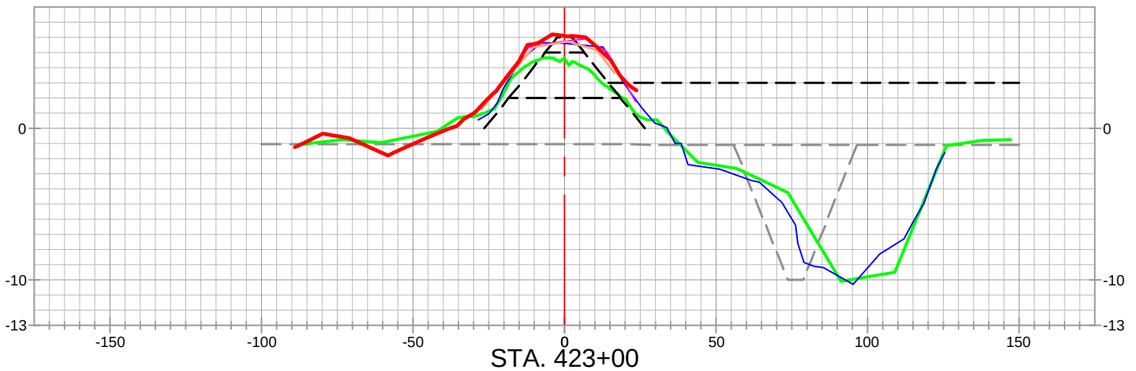


STA. 423+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

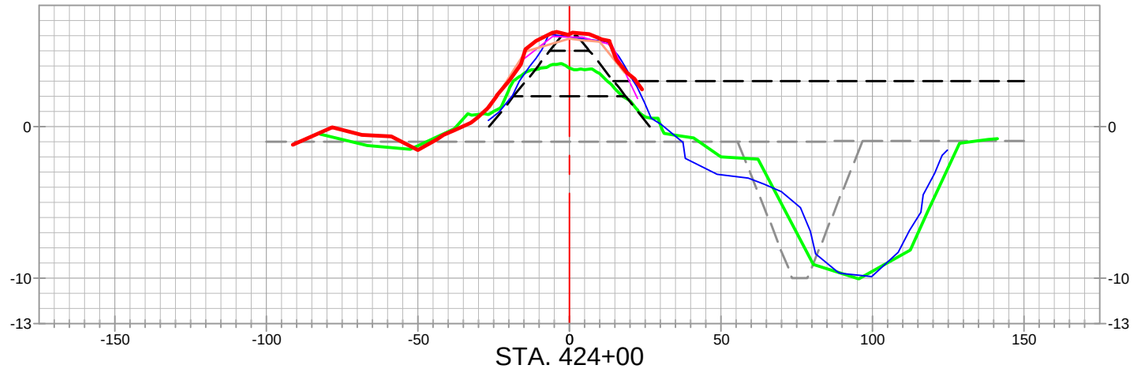
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 20 OF 29



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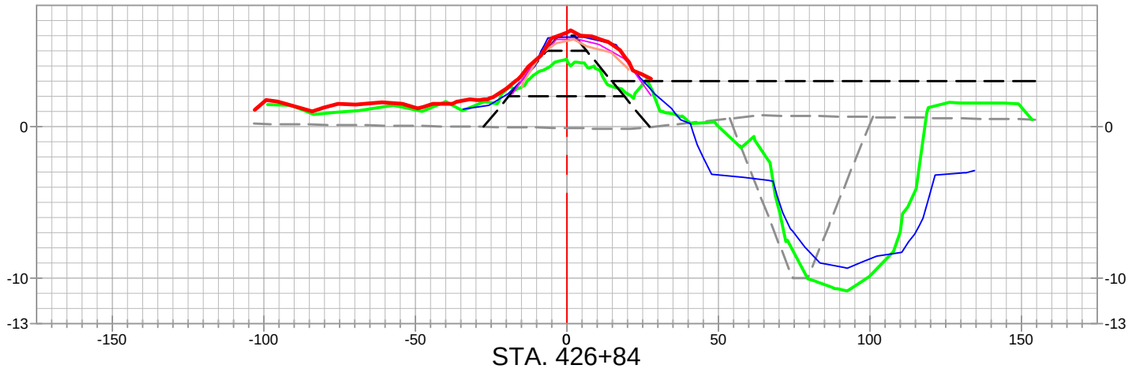

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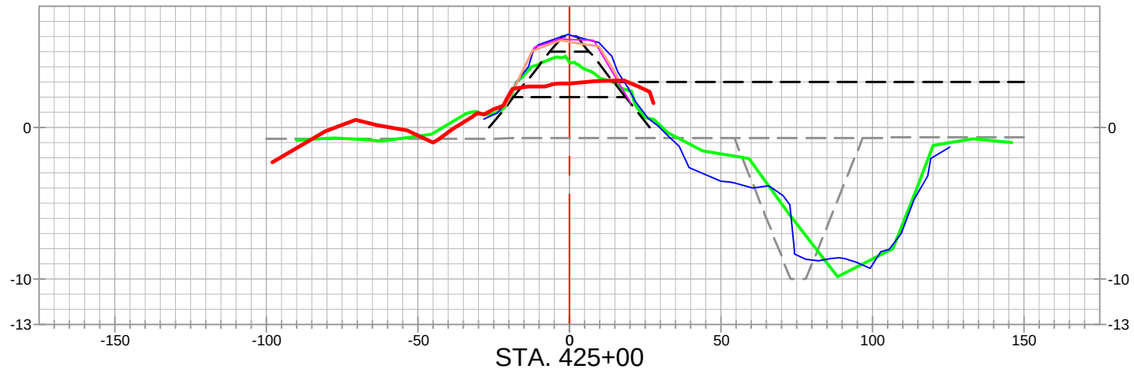

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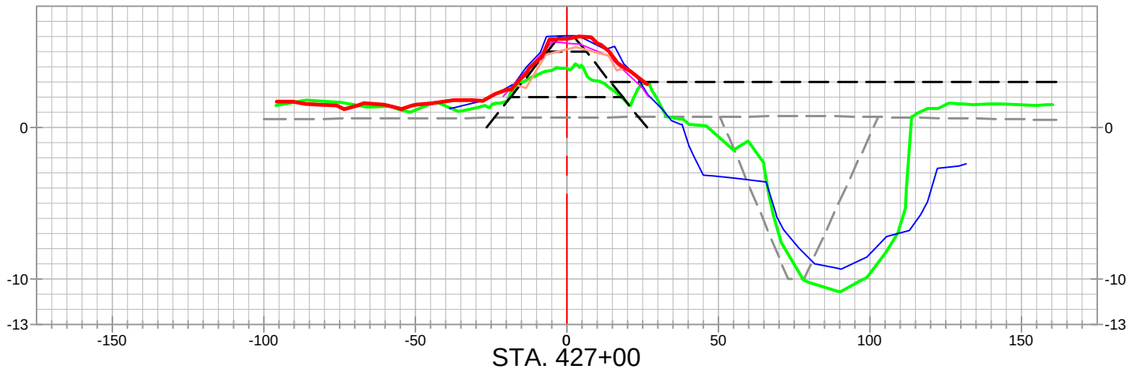

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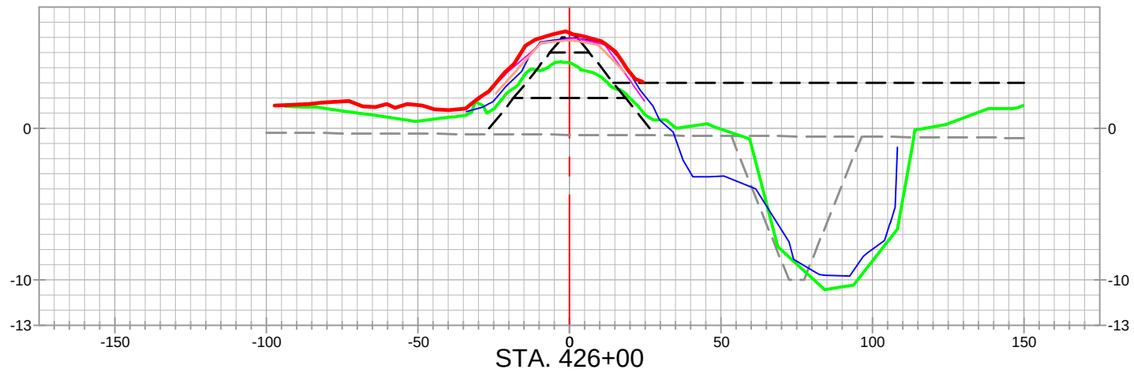

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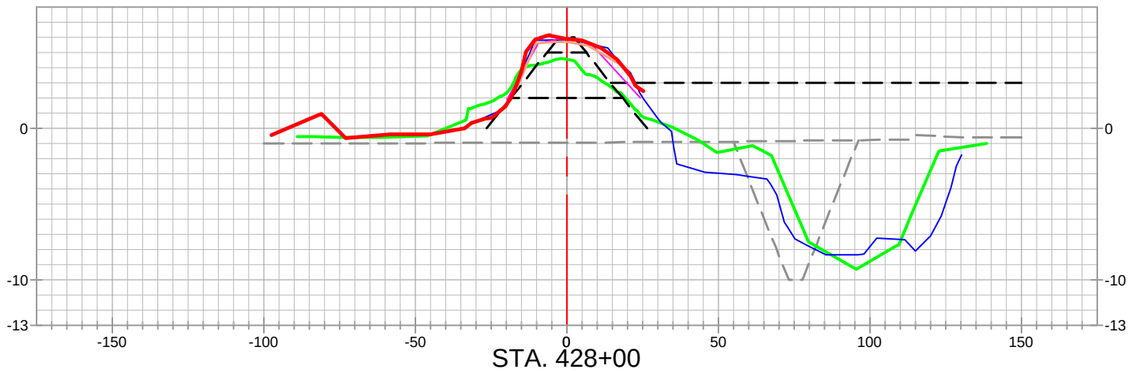


STA. 428+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

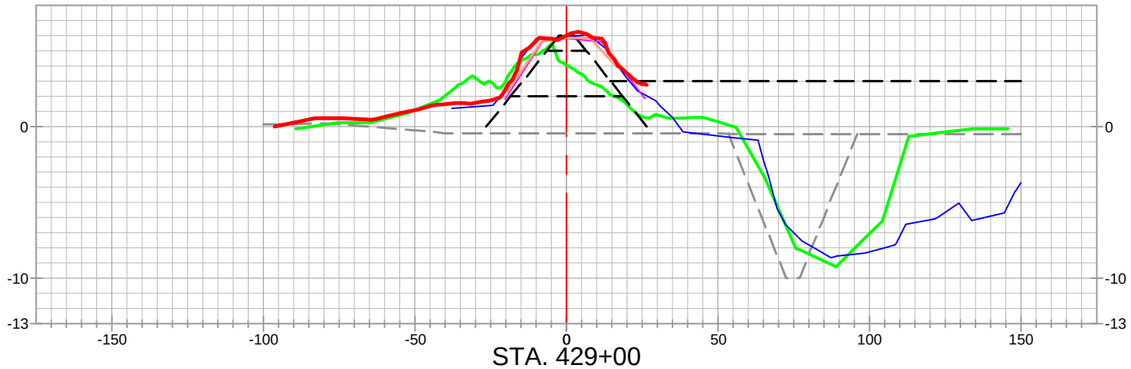
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 21 OF 29



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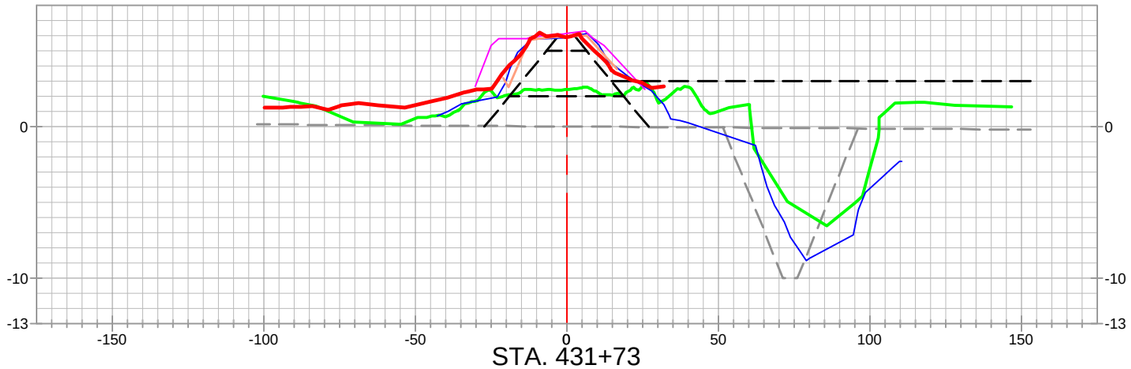

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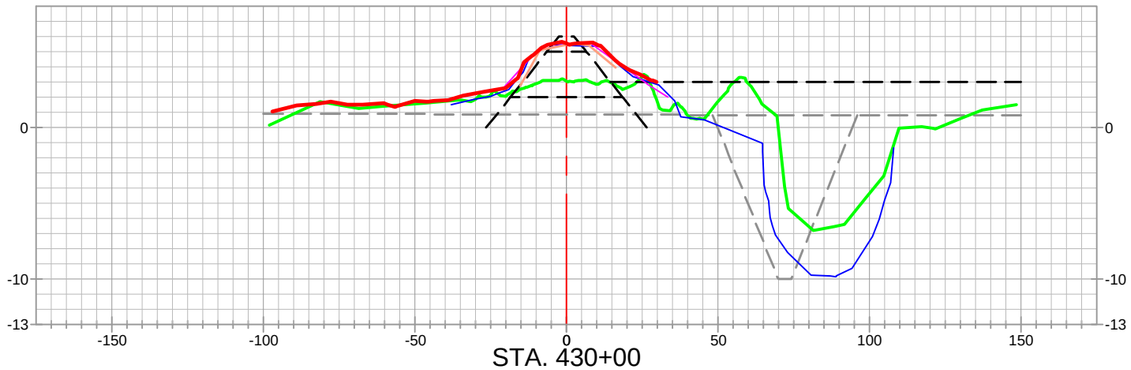

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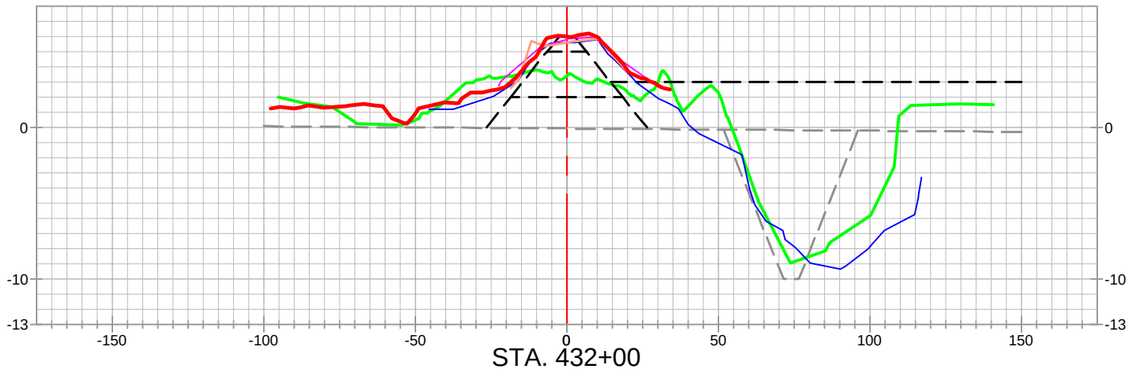

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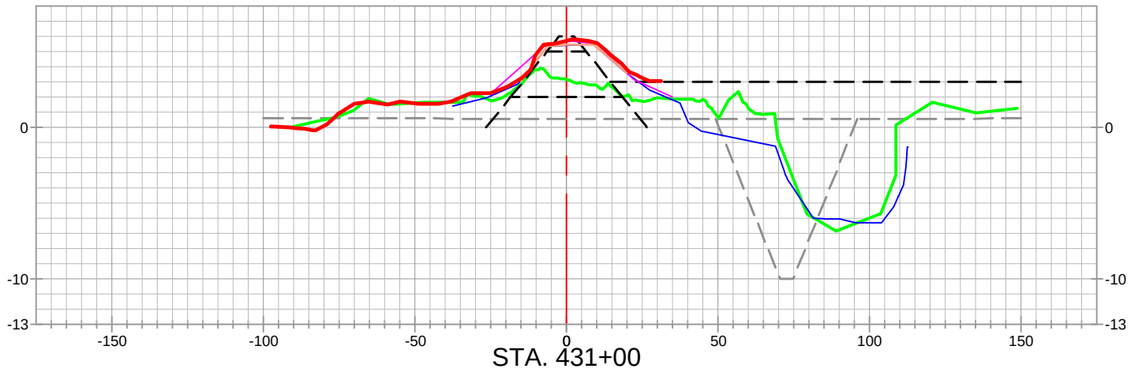

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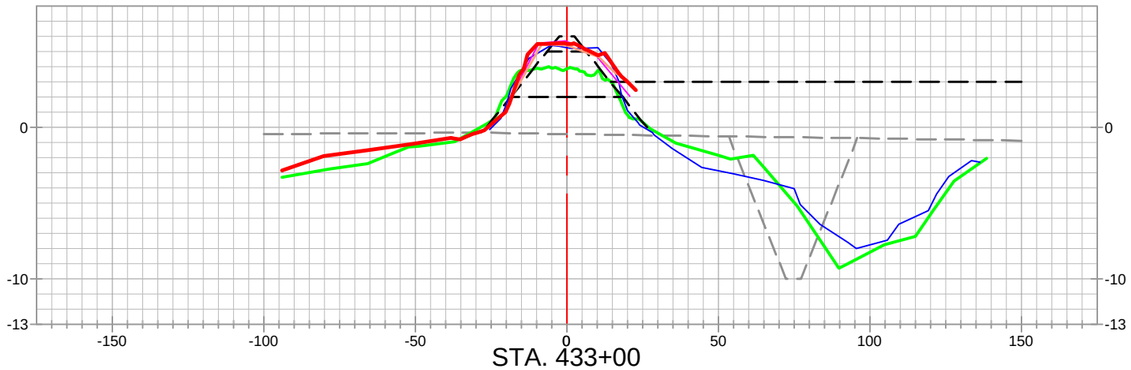


STA. 433+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

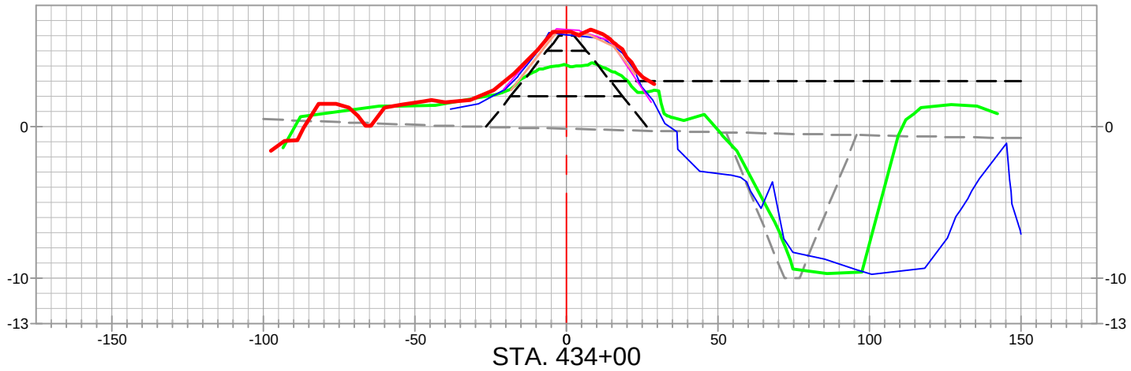
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 22 OF 29



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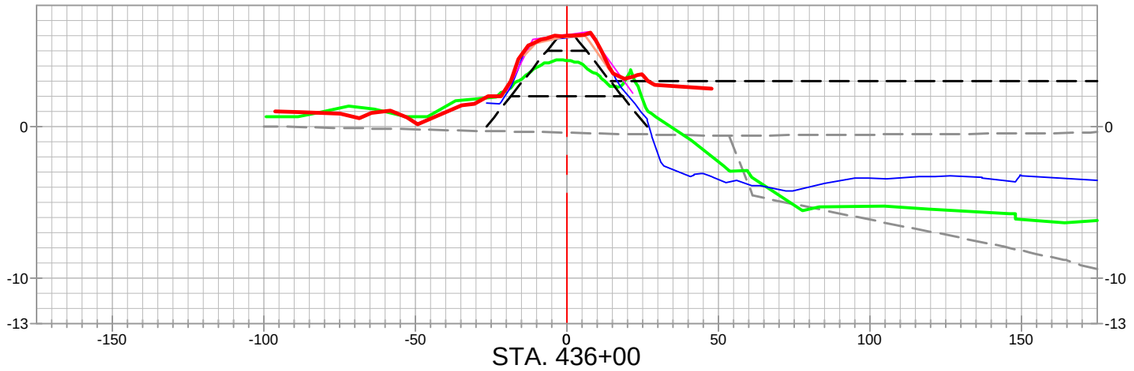

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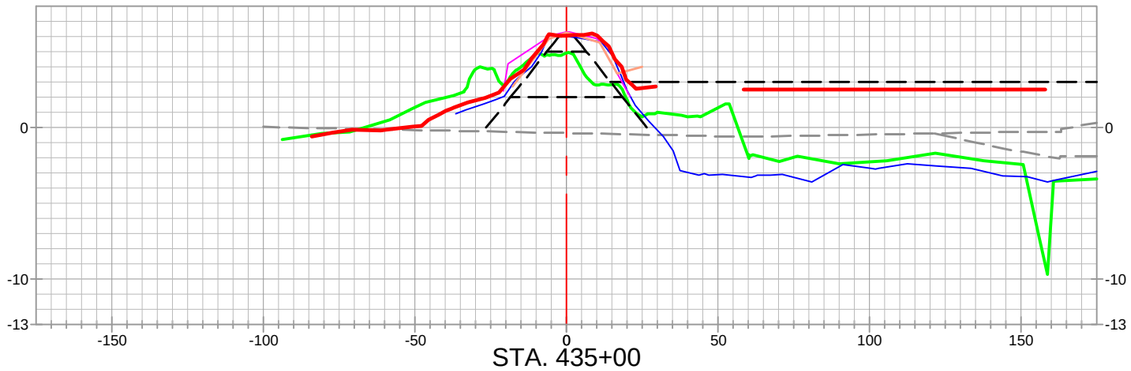

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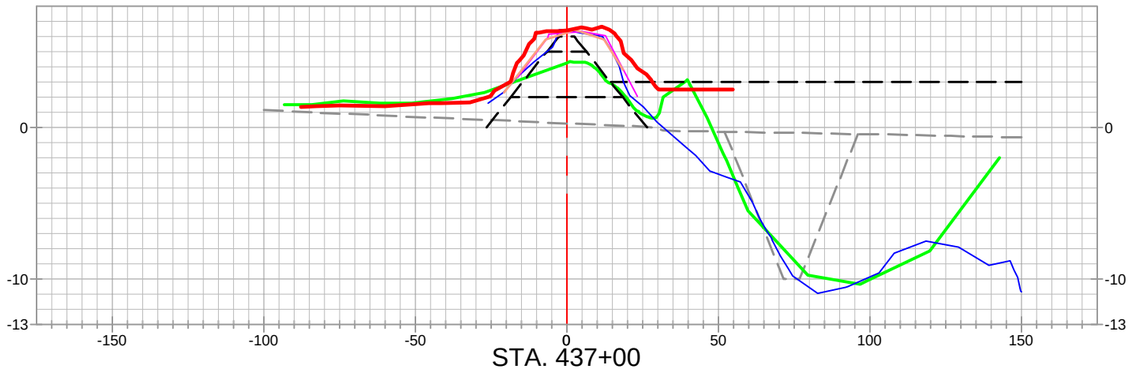

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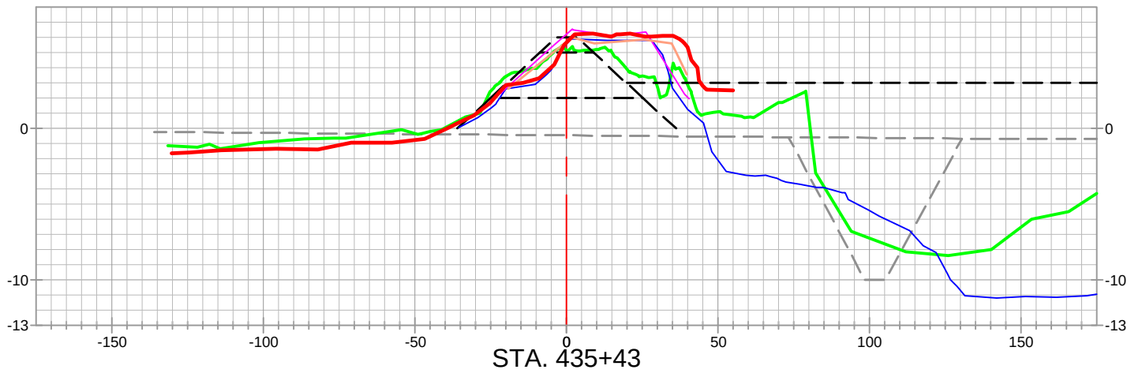

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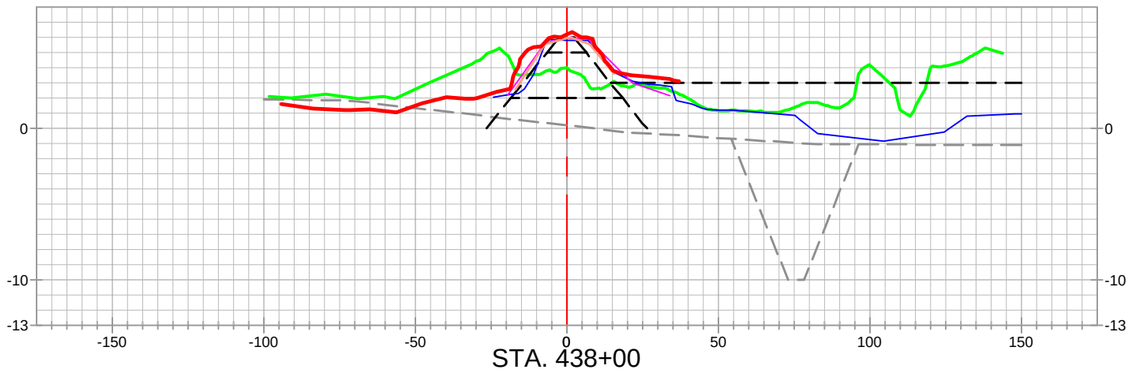


STA. 438+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

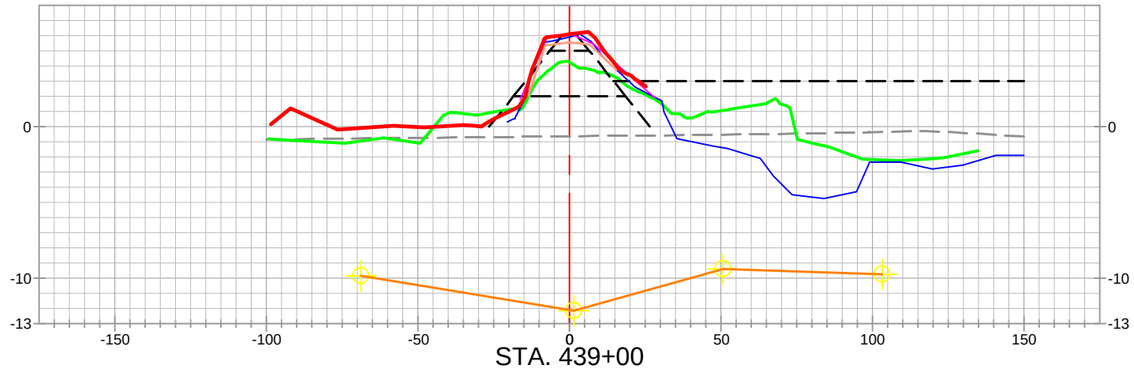
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

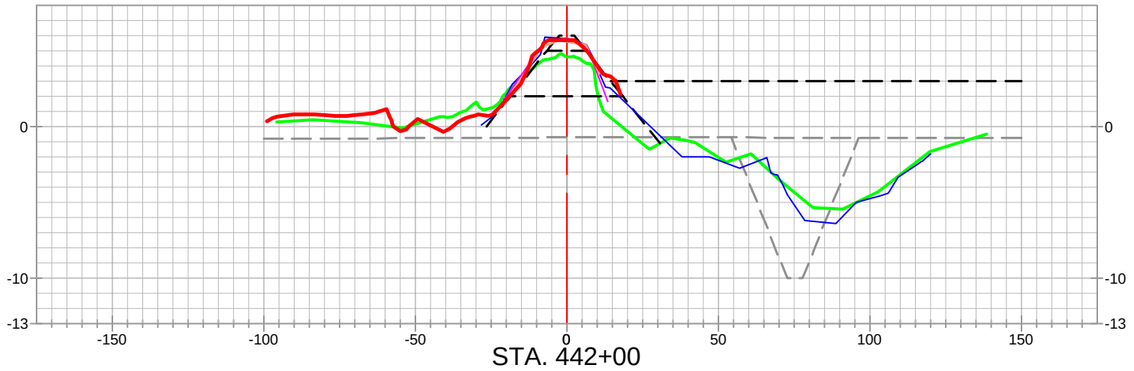
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg

SHEET: 23 OF 29



STA. 439+00



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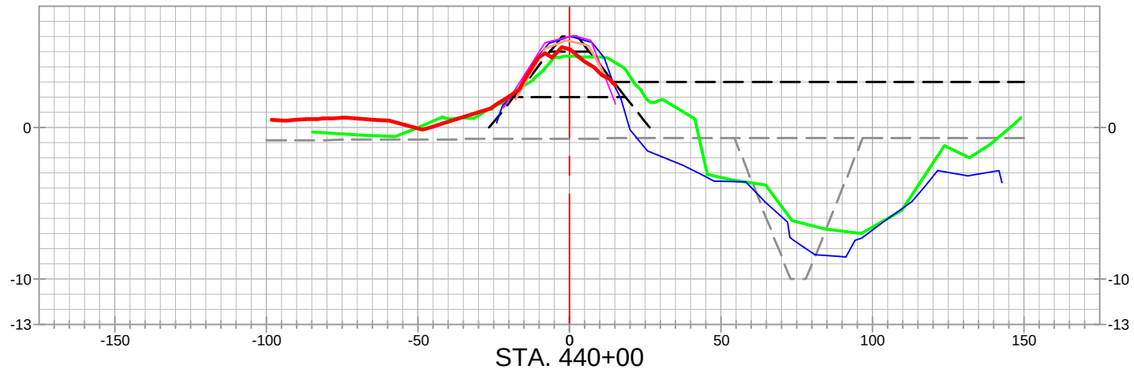

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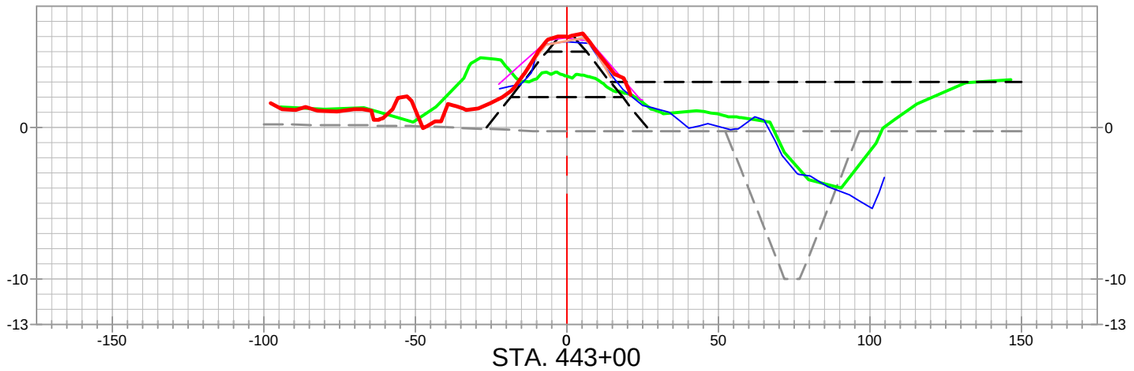
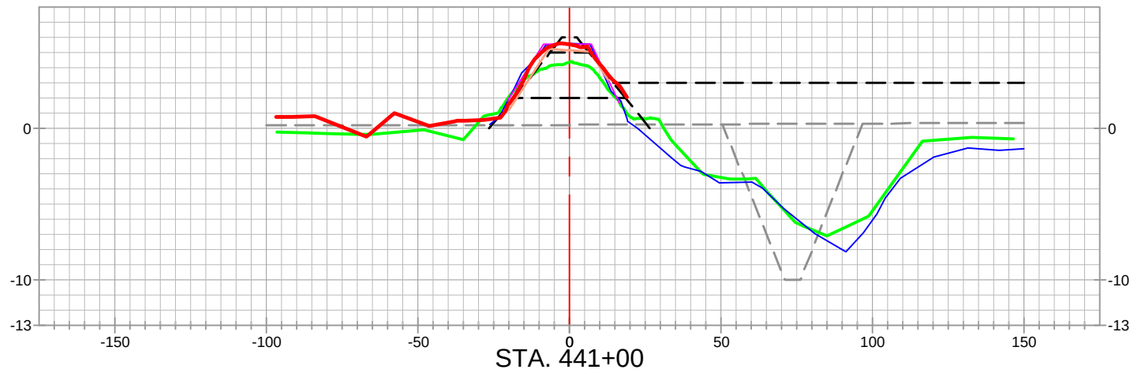


STA. 443+00



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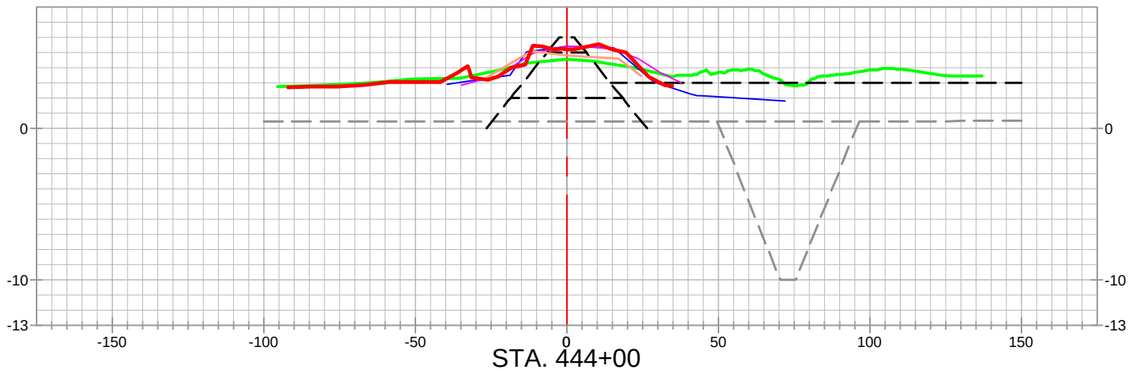


STA. 444+00

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/15/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

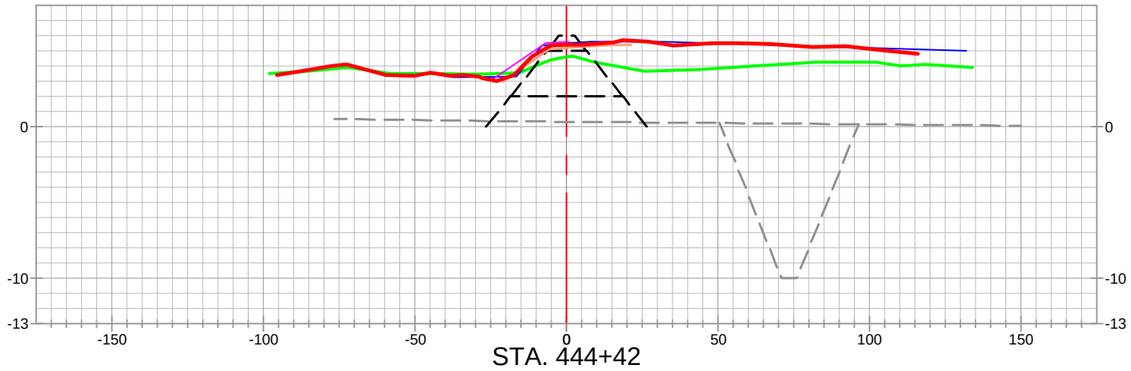
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg | SHEET: 24 OF 29



STA. 444+42

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND

- 20" CHEVRON PIPELINE
- 4" UNKNOWN PIPELINES / OR AS NOTED PIPELINES
- ALIGNMENT / BASELINE
- AS-BUILT SURVEY (12-09-22)
- PREVIOUS PROGRESS SURVEYS
- MONTHLY ECD SURVEY (09-17-22)
- MONTHLY ECD SURVEY (10-15-22)
- PRE-CONSTRUCTION SURVEY (2022)
- PRE-CONSTRUCTION SURVEY (06-24-20)
- TEMPLATE
- BORROW TEMPLATE
- 20" CHEVRON PIPELINE PROBED AND TIED IN TOP OF PIPE SURVEY POINTS PROJECTED TO CROSS-SECTION VIEW

REVISED BY:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

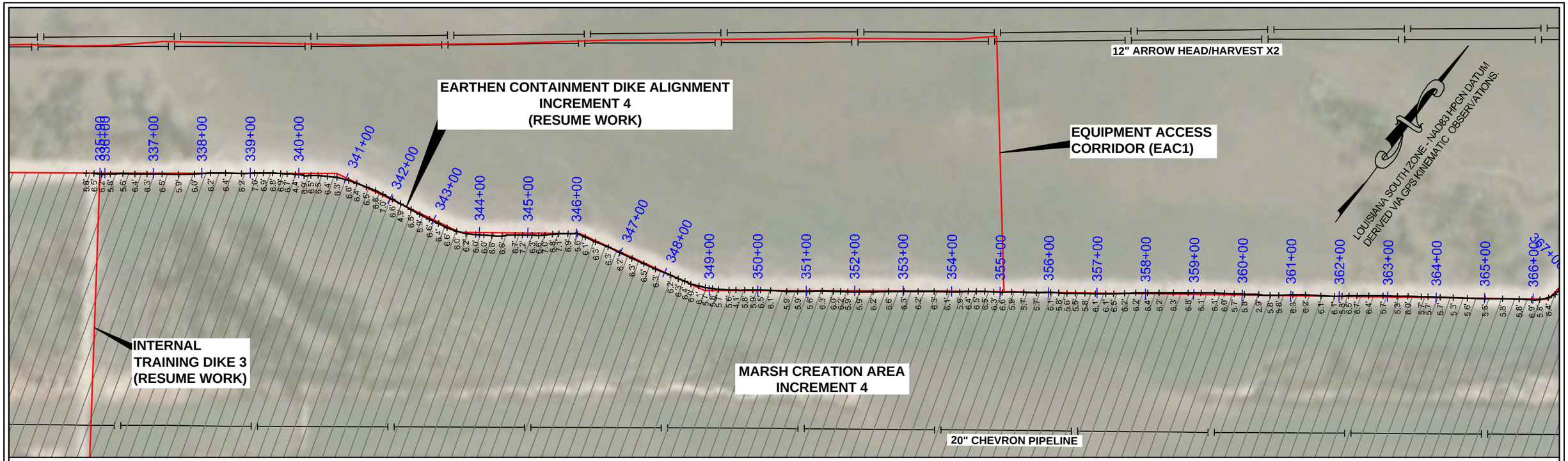
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

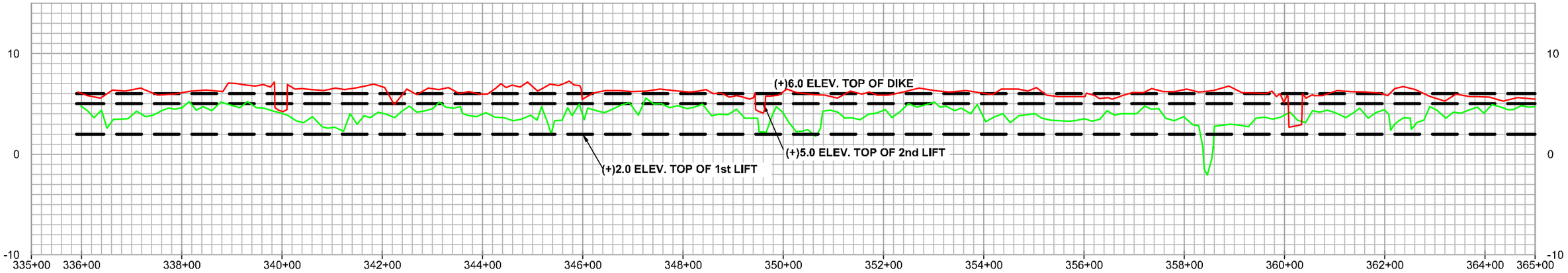
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC4_SECTIONS_REV 00.dwg

SHEET: 25 OF 29



ECD_INCREMENT 4_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

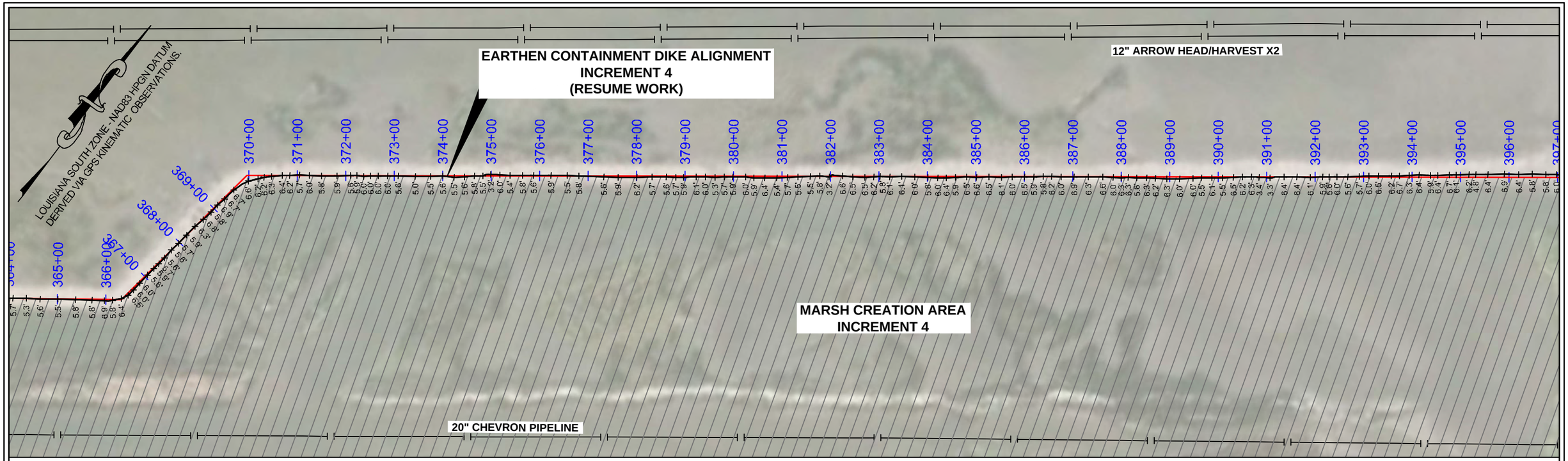
GREAT LAKES DREDGE & DOCK ENVIRONMENTAL IMPROVEMENTS

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

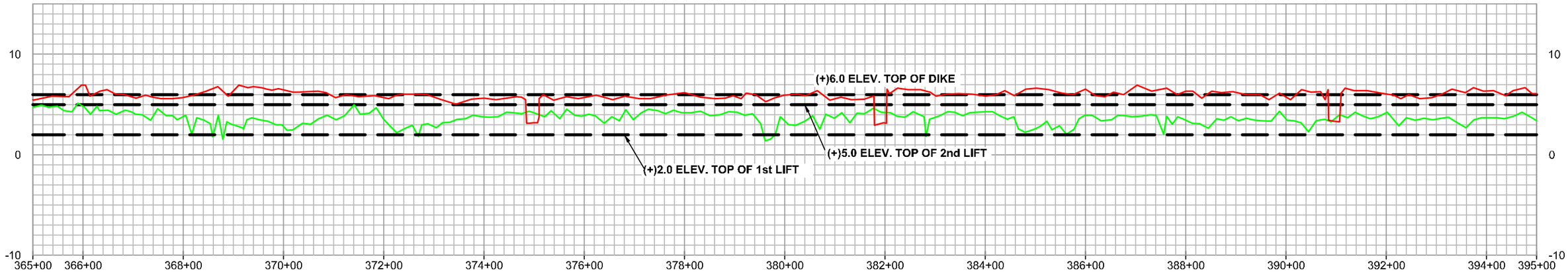
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 4_PROFILE_REV00.dwg | SHEET: 26 OF 29



ECD_INCREMENT 4_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE	
AS-BUILT PROFILE SURVEY (12-09-22)	
PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)	
TEMPLATE	

LEGEND—PLAN	
PROJECT ALIGNMENT/BASELINE	
TEMPLATE	
PIPELINE	
+3.0	ELEVATION IN FEET NAVD88

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

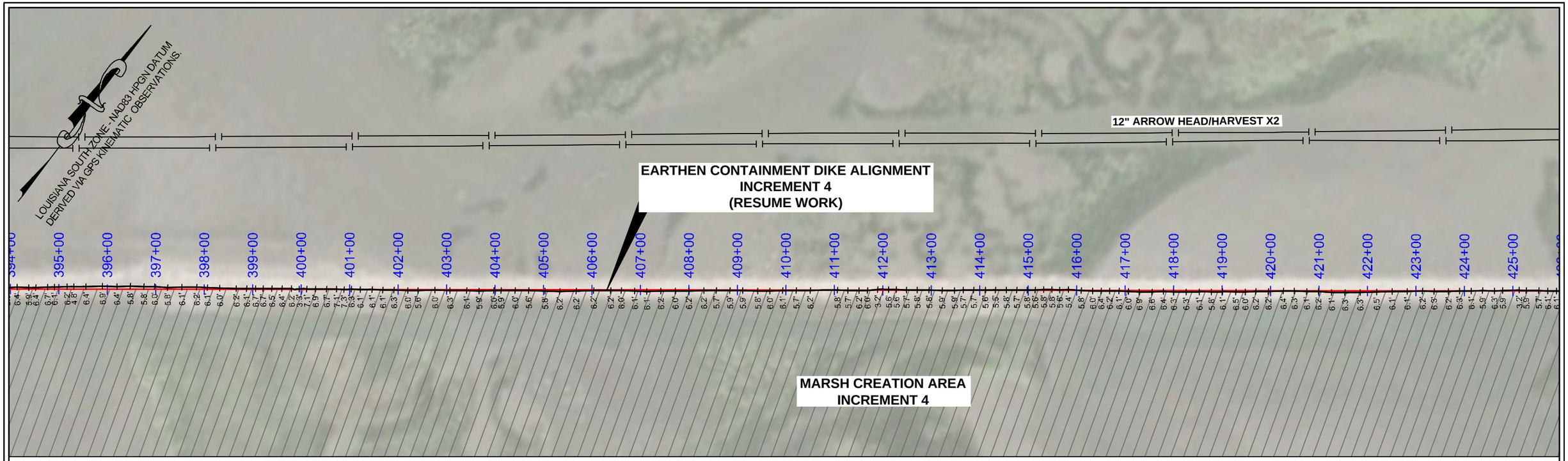
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

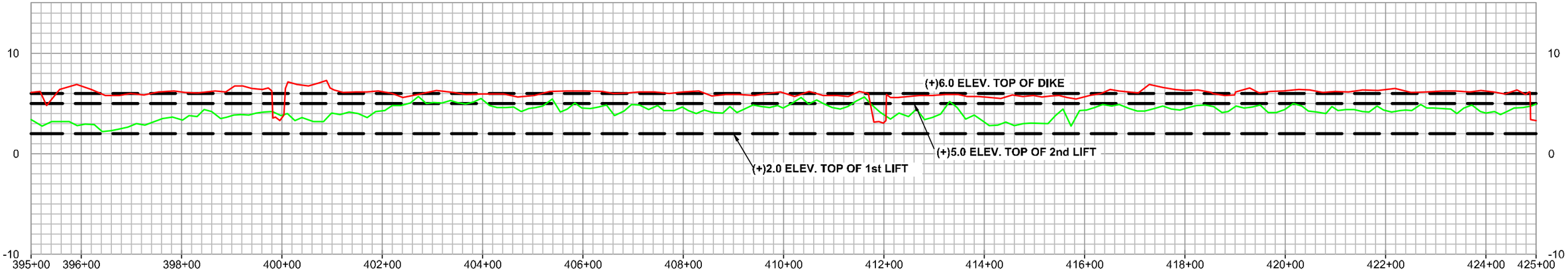
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 4_PROFILE_REV00.dwg | SHEET: 27 OF 29



ECD_INCREMENT 4_ALIGNMENT (RESUME WORK)



EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

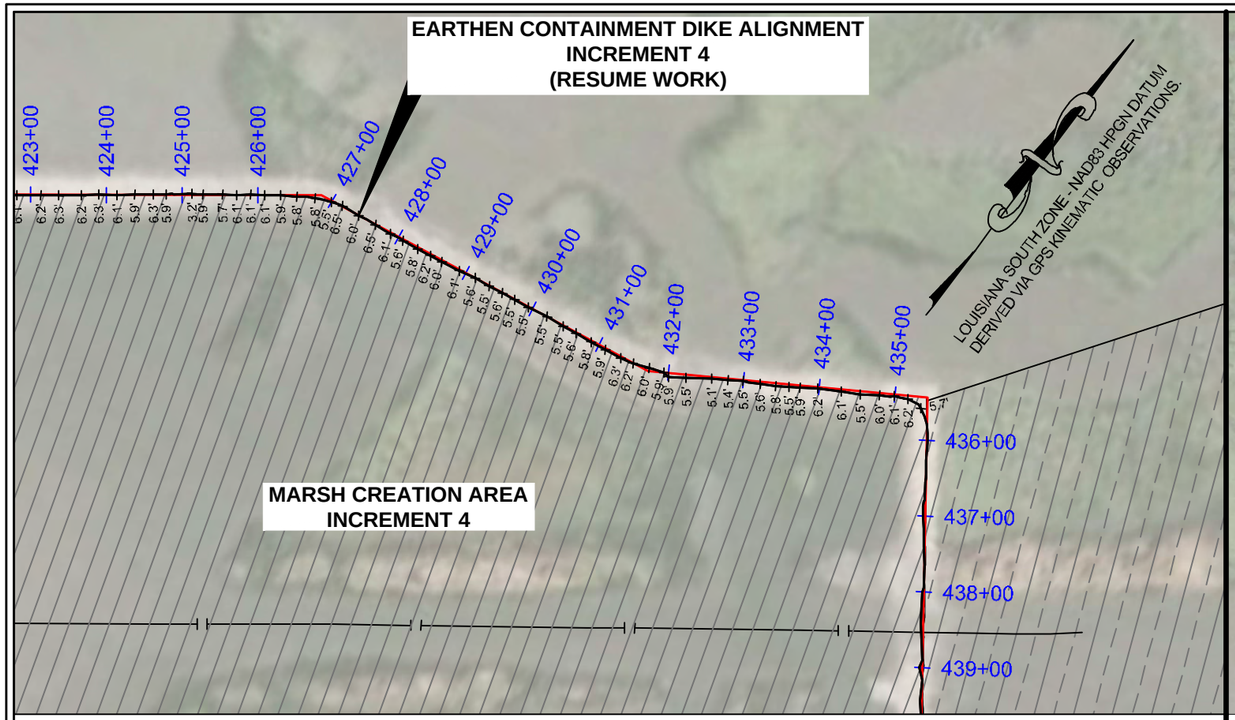
HYDROTERRA

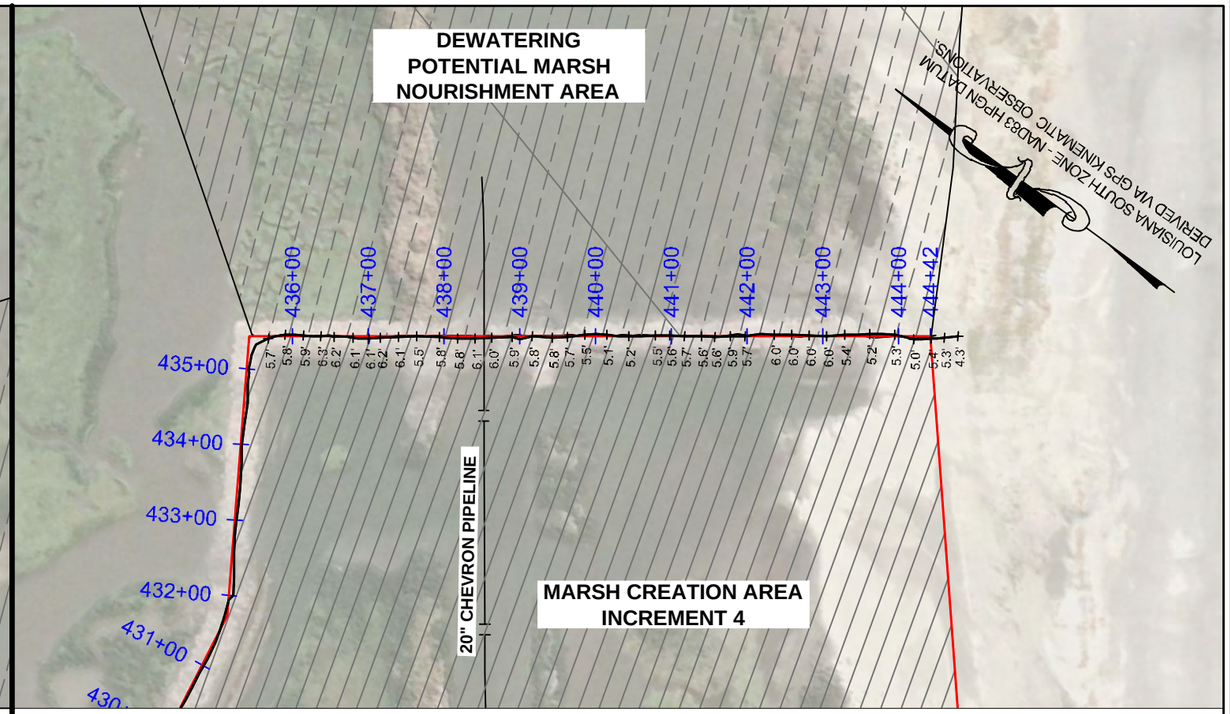
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

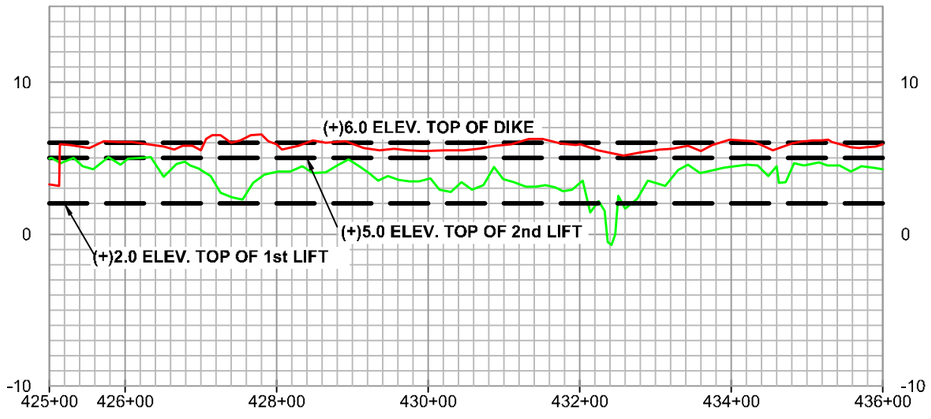
RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

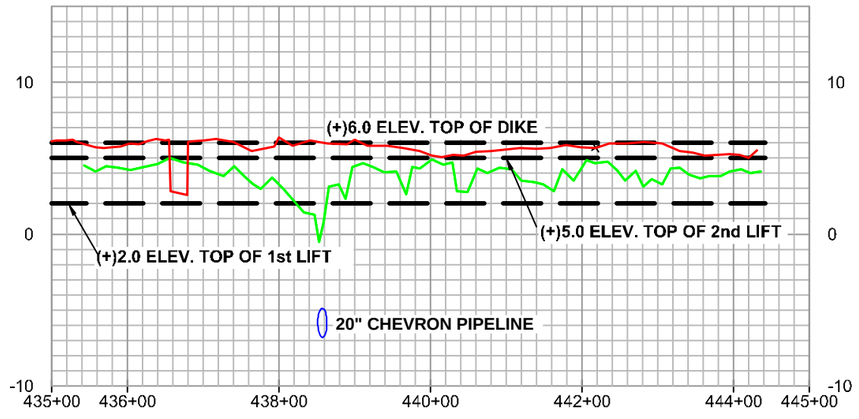
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 12/16/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 4_PROFILE_REV00.dwg | SHEET: 28 OF 29









STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
12/16/22

LEGEND—PROFILE

- AS-BUILT PROFILE SURVEY (12-09-22)
- PRE-CONSTRUCTION PROFILE SURVEY (FEB. 2022)
- TEMPLATE

LEGEND—PLAN

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- PIPELINE
- +3.0 ELEVATION IN FEET NAVD88

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 12/16/2022 | JOB# 2221011

HYDROTERRA

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-09-22)
EARTHEN CONTAINMENT DIKE
INCREMENT 4
PLAN / PROFILE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INC 4_PROFILE_REV00.dwg | SHEET: 29 OF 29

INDEX TO SHEETS

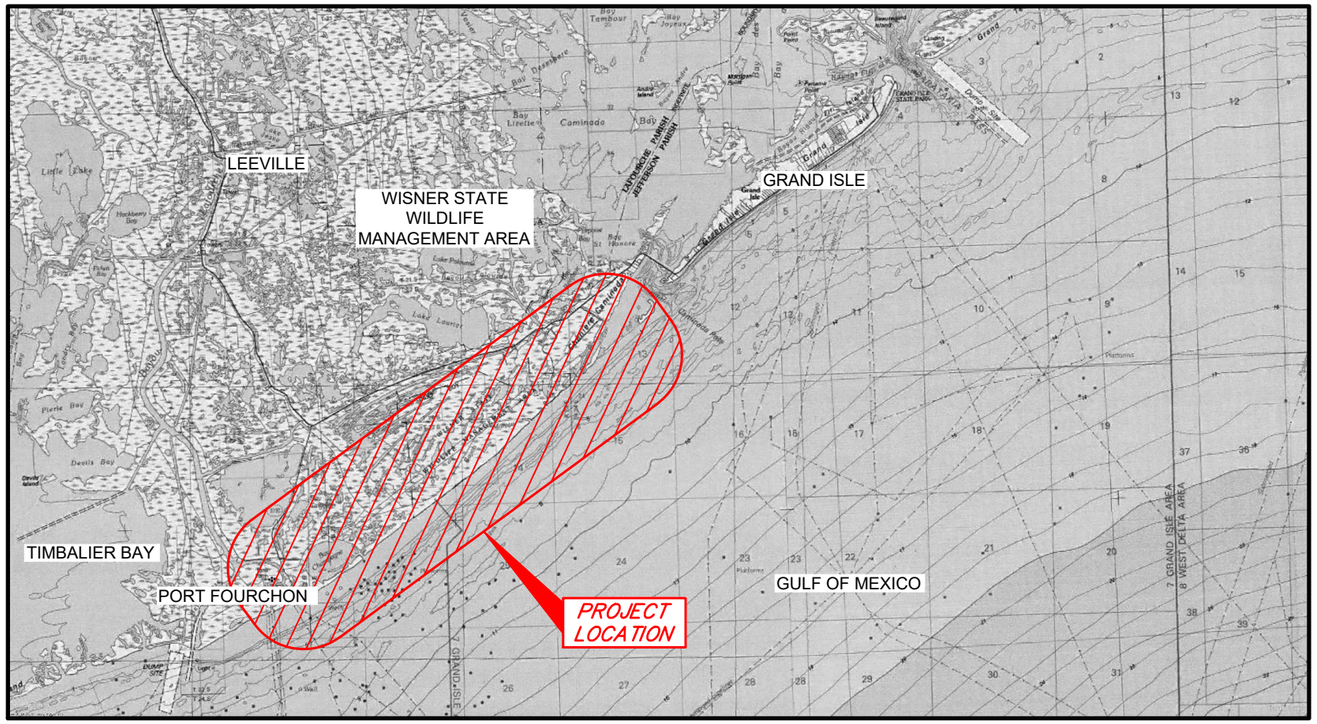
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3 - 8	MARSH CREATION AREA INCREMENT 1
9 - 14	MARSH CREATION AREA INCREMENT 2
15 - 20	MARSH CREATION AREA INCREMENT 3
21 - 26	MARSH CREATION AREA INCREMENT 4
27	GROSS VOLUME REMPORT
28 - 30	MARSH CREATION AREA M48 ALIGNMENT

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

AFTER DREDGE SURVEY (10-05-22) MARSH CREATION AREA INCREMENTS 1, 2, 3 AND 4

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 1 OF 30

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) .
3. HYDROGRAPHIC SURVEY DATA ACQUISITION PERFORMED WITH AN ODOM MKIII 24kHz TRANSDUCER INTEGRATED WITH RTK.
4. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
5. PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON DECEMBER 09, 2020.
6. AFTER DREDGE SURVEY DATA ACQUISITION FOR INCREMENT 1,2, AND 3 PROVIDED BY GREAT LAKES DREDGE & DOCK COMPANY, LLC DATED OCTOBER 01,03, & 04, 2022. ADDITIONAL SURVEY WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC OUTSIDE OF THE EARTHEN CONTAINMENT DIKES ON OCTOBER 04 AND 05, 2022.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

ALIGNMENT=M48
STATION=412+24.35
OFFSET=0.00
NORTHING=246985.72
EASTING=3679854.52

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL TRAINING DIKE 3

EARTHEN CONTAINMENT DIKE ALIGNMENT

BAYOU MOREAU

GULF OF MEXICO

50' BEACH AND DUNE CROSSING

EQUIPMENT ACCESS CORRIDOR (EA3)

INCREMENT 3

DREDGE PIPELINE CORRIDOR

EQUIPMENT ACCESS CORRIDOR (EA1)

INTERNAL TRAINING DIKE 2

EQUIPMENT ACCESS CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

BAYOU LAFOURCHE

PORT FOURCHON MARINA

50' BEACH AND DUNE CROSSING

DREDGE PIPELINE CORRIDOR

INCREMENT 1

DREDGE PIPELINE CORRIDOR

SW BORROW AREA

REVISED DUNE CONTAINMENT ALIGNMENT

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

CAILLOUET ROAD ALIGNMENT

ALIGNMENT=M48
STATION=0+00.00
OFFSET=0.00
NORTHING=222384.88
EASTING=3646775.15

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/13/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

HYDROTERRA

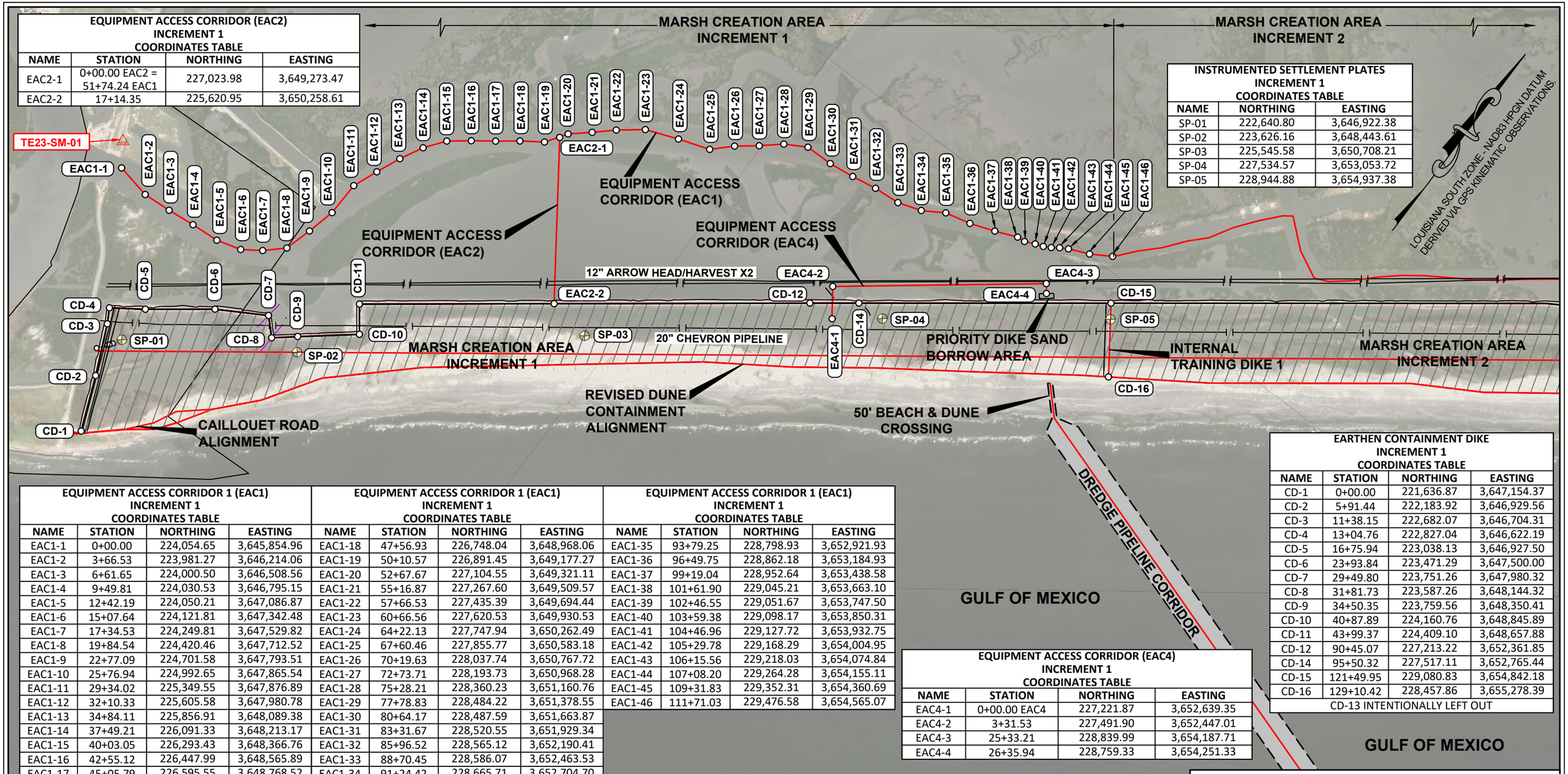
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 2 OF 30



**EQUIPMENT ACCESS CORRIDOR (EAC2)
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
EAC2-1	0+00.00 EAC2 = 51+74.24 EAC1	227,023.98	3,649,273.47
EAC2-2	17+14.35	225,620.95	3,650,258.61

**INSTRUMENTED SETTLEMENT PLATES
INCREMENT 1
COORDINATES TABLE**

NAME	NORTHING	EASTING
SP-01	222,640.80	3,646,922.38
SP-02	223,626.16	3,648,443.61
SP-03	225,545.58	3,650,708.21
SP-04	227,534.57	3,653,053.72
SP-05	228,944.88	3,654,937.38

**EQUIPMENT ACCESS CORRIDOR 1 (EAC1)
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
EAC1-1	0+00.00	224,054.65	3,645,854.96
EAC1-2	3+66.53	223,981.27	3,646,214.06
EAC1-3	6+61.65	224,000.50	3,646,508.56
EAC1-4	9+49.81	224,030.53	3,646,795.15
EAC1-5	12+42.19	224,050.21	3,647,086.87
EAC1-6	15+07.64	224,121.81	3,647,342.48
EAC1-7	17+34.53	224,249.81	3,647,529.82
EAC1-8	19+84.54	224,420.46	3,647,712.52
EAC1-9	22+77.09	224,701.58	3,647,793.51
EAC1-10	25+76.94	224,992.65	3,647,865.54
EAC1-11	29+34.02	225,349.55	3,647,876.89
EAC1-12	32+10.33	225,605.58	3,647,980.78
EAC1-13	34+84.11	225,856.91	3,648,089.38
EAC1-14	37+49.21	226,091.33	3,648,213.17
EAC1-15	40+03.05	226,293.43	3,648,366.76
EAC1-16	42+55.12	226,447.99	3,648,565.89
EAC1-17	45+05.79	226,595.55	3,648,768.52

**EQUIPMENT ACCESS CORRIDOR 1 (EAC1)
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
EAC1-18	47+56.93	226,748.04	3,648,968.06
EAC1-19	50+10.57	226,891.45	3,649,177.27
EAC1-20	52+67.67	227,104.55	3,649,321.11
EAC1-21	55+16.87	227,267.60	3,649,509.57
EAC1-22	57+66.53	227,435.39	3,649,694.44
EAC1-23	60+66.56	227,620.53	3,649,930.53
EAC1-24	64+22.13	227,747.94	3,650,262.49
EAC1-25	67+60.46	227,855.77	3,650,583.18
EAC1-26	70+19.63	228,037.74	3,650,767.72
EAC1-27	72+73.71	228,193.73	3,650,968.28
EAC1-28	75+28.21	228,360.23	3,651,160.76
EAC1-29	77+78.83	228,484.22	3,651,378.55
EAC1-30	80+64.17	228,487.59	3,651,663.87
EAC1-31	83+31.67	228,520.55	3,651,929.34
EAC1-32	85+96.52	228,565.12	3,652,190.41
EAC1-33	88+70.45	228,586.07	3,652,463.53
EAC1-34	91+24.42	228,665.71	3,652,704.70

**EQUIPMENT ACCESS CORRIDOR 1 (EAC1)
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
EAC1-35	93+79.25	228,798.93	3,652,921.93
EAC1-36	96+49.75	228,862.18	3,653,184.93
EAC1-37	99+19.04	228,952.64	3,653,438.58
EAC1-38	101+61.90	229,045.21	3,653,663.10
EAC1-39	102+46.55	229,051.67	3,653,747.50
EAC1-40	103+59.38	229,098.17	3,653,850.31
EAC1-41	104+46.96	229,127.72	3,653,932.75
EAC1-42	105+29.78	229,168.29	3,654,004.95
EAC1-43	106+15.56	229,218.03	3,654,074.84
EAC1-44	107+08.20	229,264.28	3,654,155.11
EAC1-45	109+31.83	229,352.31	3,654,360.69
EAC1-46	111+71.03	229,476.58	3,654,565.07

**EQUIPMENT ACCESS CORRIDOR (EAC4)
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
EAC4-1	0+00.00 EAC4	227,221.87	3,652,639.35
EAC4-2	3+31.53	227,491.90	3,652,447.01
EAC4-3	25+33.21	228,839.99	3,654,187.71
EAC4-4	26+35.94	228,759.33	3,654,251.33

**EARTHEN CONTAINMENT DIKE
INCREMENT 1
COORDINATES TABLE**

NAME	STATION	NORTHING	EASTING
CD-1	0+00.00	221,636.87	3,647,154.37
CD-2	5+91.44	222,183.92	3,646,929.56
CD-3	11+38.15	222,682.07	3,646,704.31
CD-4	13+04.76	222,827.04	3,646,622.19
CD-5	16+75.94	223,038.13	3,646,927.50
CD-6	23+93.84	223,471.29	3,647,500.00
CD-7	29+49.80	223,751.26	3,647,980.32
CD-8	31+81.73	223,587.26	3,648,144.32
CD-9	34+50.35	223,759.56	3,648,350.41
CD-10	40+87.89	224,160.76	3,648,845.89
CD-11	43+99.37	224,409.10	3,648,657.88
CD-12	90+45.07	227,213.22	3,652,361.85
CD-14	95+50.32	227,517.11	3,652,765.44
CD-15	121+49.95	229,080.83	3,654,842.18
CD-16	129+10.42	228,457.86	3,655,278.39
CD-13 INTENTIONALLY LEFT OUT			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE

PROJECT ALIGNMENT/BASELINE
TEMPLATE
EAC1-1 POINT NAME AND POINT
SP-01 SETTLEMENT PLATE
MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 1

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

SHEET: 3 OF 30

MARSH CREATION AREA
INCREMENT 1

EQUIPMENT ACCESS
CORRIDOR (EAC1)

EQUIPMENT ACCESS
CORRIDOR (EAC2)

EQUIPMENT ACCESS
CORRIDOR (EAC4)

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

TE23-SM-01

EAC1-1

EAC2-1

EAC2-2

EAC1-46

EAC4-4

EAC4-1

CD-15

SP-01

SP-02

SP-03

SP-04

SP-05

0+00

1+82

7+33

14+07

20+80

30+64

40+51

50+37

60+58

70+78

80+98

88+83

96+69

104+36

104+51

104+53

104+56

M48

M1

M2

M3

M4

M5

M6

M7

M8

M9

M10

M11

M12

MARSH CREATION AREA
INCREMENT 1

INTERNAL
TRAINING DIKE 1

CAILLOUET ROAD
ALIGNMENT

REVISED DUNE
CONTAINMENT
ALIGNMENT

50' BEACH & DUNE
CROSSING

DREDGE PIPELINE
CORRIDOR

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
10/12/22

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE

PROJECT ALIGNMENT/BASELINE
TEMPLATE
SURVEY CROSS-SECTION
EAC1-1 POINT NAME AND POINT
SP-01 SETTLEMENT PLATE
MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 700'
700' 0' 350' 700'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

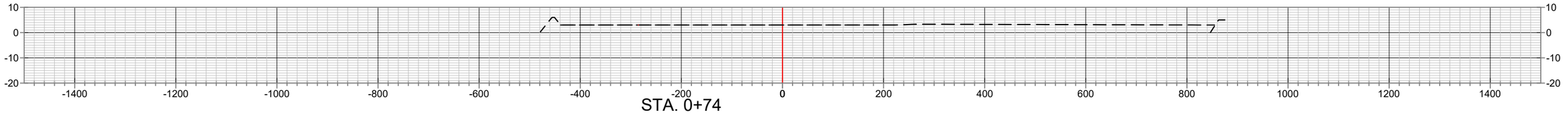
SHEET: 4 OF 30

MARSH CREATION AREA - INCREMENT 1

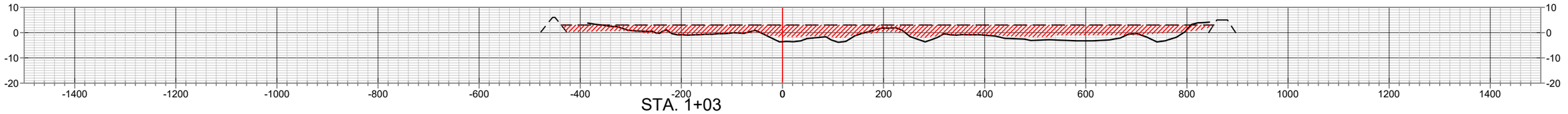
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

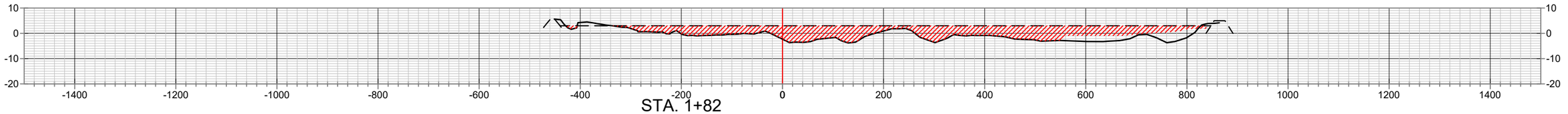
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.



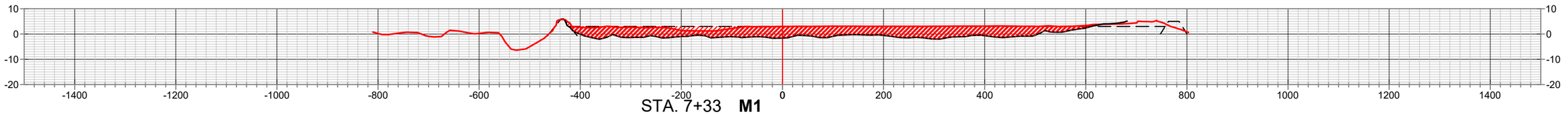
STA. 0+74



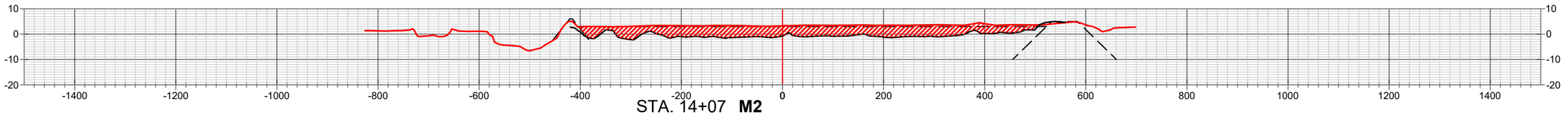
STA. 1+03



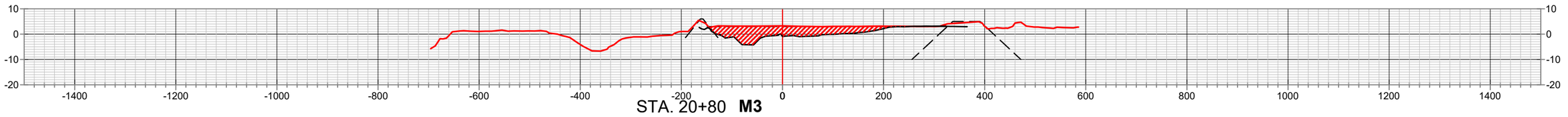
STA. 1+82



STA. 7+33 **M1**



STA. 14+07 **M2**



STA. 20+80 **M3**

MARSH CREATION AREA - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/5/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 1+03, 104+36 AND 104+51 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

HYDROTERRA

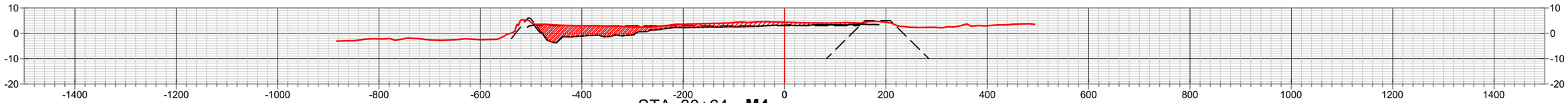
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

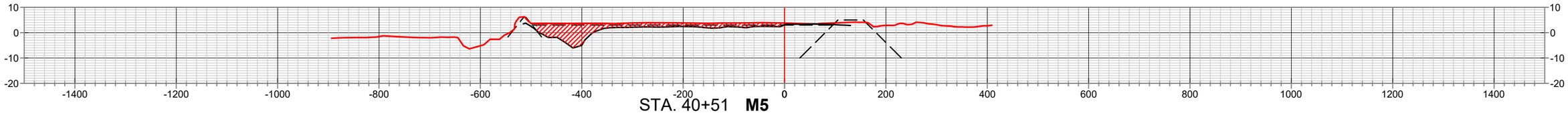
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

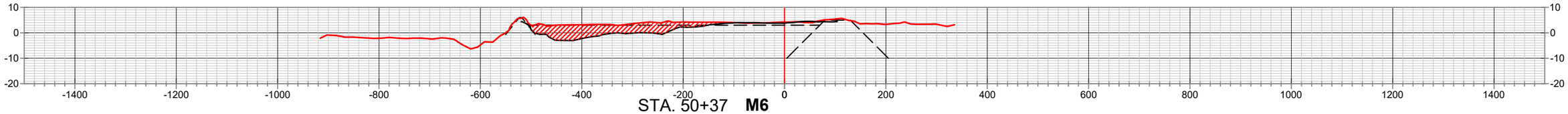
DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 5 OF 30



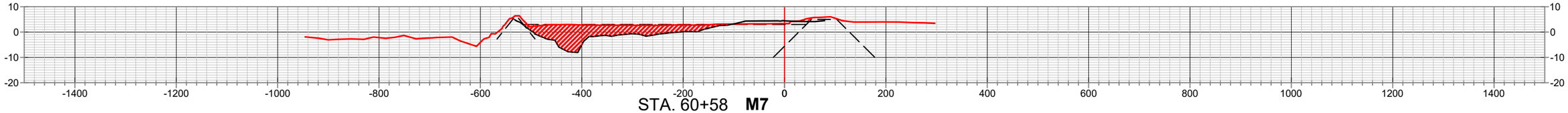
STA. 30+64 **M4**



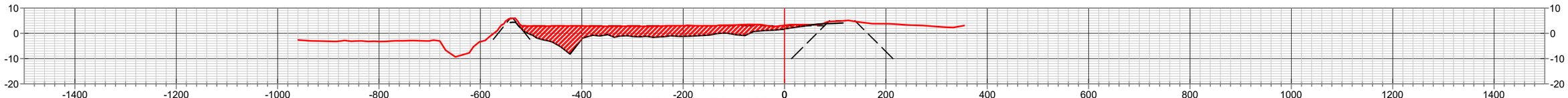
STA. 40+51 **M5**



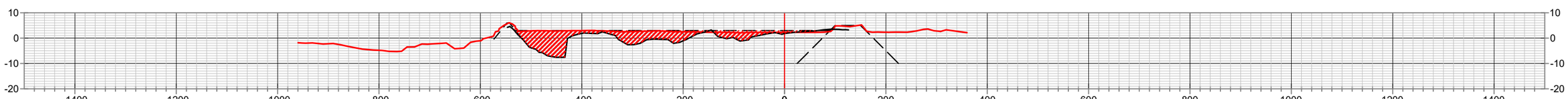
STA. 50+37 **M6**



STA. 60+58 **M7**



STA. 70+78 **M8**



STA. 80+98 **M9**

MARSH CREATION AREA - INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 1+03, 104+36 AND 104+51 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

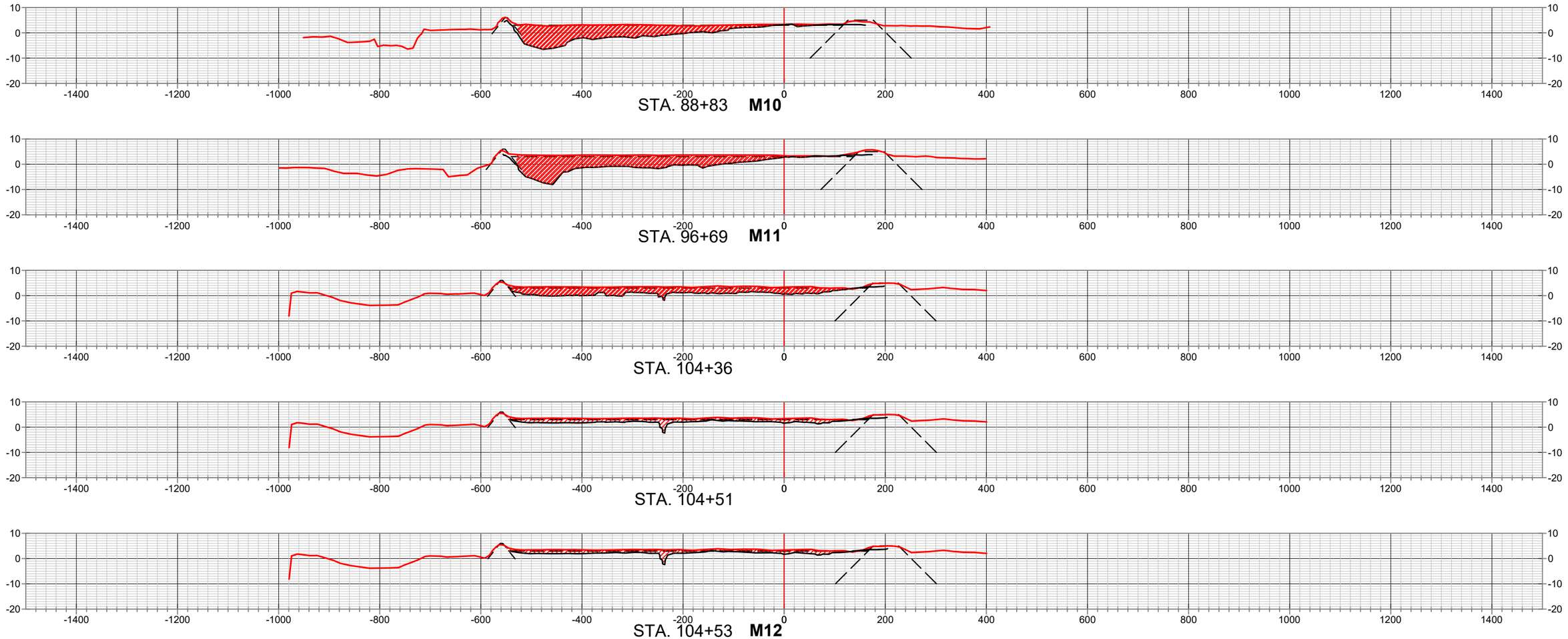
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg



STA. 88+83 **M10**

STA. 96+69 **M11**

STA. 104+36

STA. 104+51

STA. 104+53 **M12**

MARSH CREATION AREA - INCREMENT 1

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 1+03, 104+36 AND 104+51 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

MCA_INC-1 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
0+74.10	0.00	0.00	0.00
1+02.76	4607.26	2445.14	2445.14
1+82.20	4438.62	13306.90	15752.04
7+33.13	3889.53	84968.22	100720.25
14+06.78	3194.23	88369.47	189089.72
20+79.71	1249.88	55381.33	244471.06
30+64.48	1035.46	41676.33	286147.39
40+50.61	961.69	36471.28	322618.67
50+36.74	1155.84	38669.68	361288.35
60+57.69	1752.08	54978.46	416266.80
70+78.46	2229.79	75270.46	491537.26
80+98.07	1931.19	78566.17	570103.43
88+83.38	2171.57	59665.65	629769.08
96+68.69	2269.13	64580.21	694349.30
104+36.03	1433.08	52608.49	746957.79
104+50.83	0.00	392.64	747350.43
104+53.04	0.00	0.00	747350.43
104+55.53	0.00	0.00	747350.43
104+70.05	0.00	0.00	747350.43
105+03.06	0.00	0.00	747350.43
113+65.12	0.00	0.00	747350.43
122+77.20	0.00	0.00	747350.43
131+88.16	0.00	0.00	747350.43

MCA_INC-1 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
140+20.54	0.00	0.00	747350.43
148+53.94	0.00	0.00	747350.43
156+87.34	0.00	0.00	747350.43
165+96.44	0.00	0.00	747350.43
175+06.66	0.00	0.00	747350.43
184+16.88	0.00	0.00	747350.43
191+58.42	0.00	0.00	747350.43
198+99.97	0.00	0.00	747350.43
206+30.60	0.00	0.00	747350.43
206+38.10	0.00	0.00	747350.43
206+40.61	0.00	0.00	747350.43
206+43.11	0.00	0.00	747350.43
206+50.61	0.00	0.00	747350.43
206+90.62	0.00	0.00	747350.43
216+42.99	0.00	0.00	747350.43
226+45.37	0.00	0.00	747350.43
236+46.52	0.00	0.00	747350.43
245+60.07	0.00	0.00	747350.43
254+73.61	0.00	0.00	747350.43
263+86.03	0.00	0.00	747350.43
273+02.59	0.00	0.00	747350.43
282+19.15	0.00	0.00	747350.43
291+34.58	0.00	0.00	747350.43

MCA_INC-1 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
298+83.93	0.00	0.00	747350.43
306+34.20	0.00	0.00	747350.43
313+67.46	0.00	0.00	747350.43
313+82.10	0.00	0.00	747350.43
313+84.40	0.00	0.00	747350.43
313+86.97	0.00	0.00	747350.43
314+01.47	0.00	0.00	747350.43
314+34.49	0.00	0.00	747350.43
323+00.37	0.00	0.00	747350.43
332+16.26	0.00	0.00	747350.43
341+31.03	0.00	0.00	747350.43
350+46.89	0.00	0.00	747350.43
359+63.88	0.00	0.00	747350.43
368+80.86	0.00	0.00	747350.43
377+16.00	0.00	0.00	747350.43
385+51.13	0.00	0.00	747350.43
393+85.24	0.00	0.00	747350.43
399+69.34	0.00	0.00	747350.43
405+50.00	0.00	0.00	747350.43
410+26.85	0.00	0.00	747350.43
410+76.86	0.00	0.00	747350.43
411+22.42	0.00	0.00	747350.43
411+34.34	0.00	0.00	747350.43

THEORETICAL
AUTOCAD TIN VOLUME
751,364 CU. YDS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

REVISED BY:	DATE:

HYDROTERRA

MARSH CREATION AREA - INCREMENT 1

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

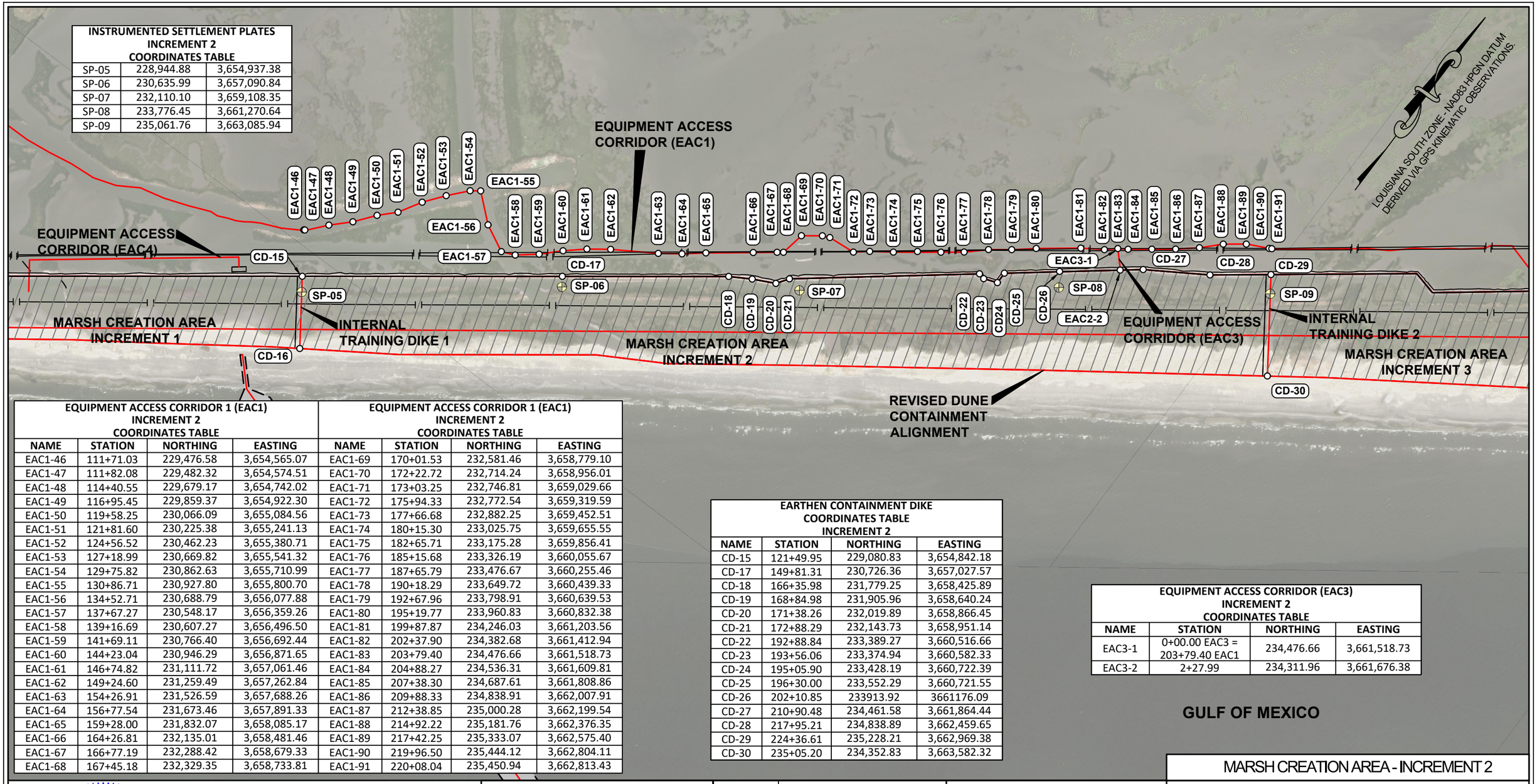
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

VOLUME REPORTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 8 OF 30

INSTRUMENTED SETTLEMENT PLATES INCREMENT 2 COORDINATES TABLE		
SP-05	228,944.88	3,654,937.38
SP-06	230,635.99	3,657,090.84
SP-07	232,110.10	3,659,108.35
SP-08	233,776.45	3,661,270.64
SP-09	235,061.76	3,663,085.94



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE				EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 2 COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING	NAME	STATION	NORTHING	EASTING
EAC1-46	111+71.03	229,476.58	3,654,565.07	EAC1-69	170+01.53	232,581.46	3,658,779.10
EAC1-47	111+82.08	229,482.32	3,654,574.51	EAC1-70	172+22.72	232,714.24	3,658,956.01
EAC1-48	114+40.55	229,679.17	3,654,742.02	EAC1-71	173+03.25	232,746.81	3,659,029.66
EAC1-49	116+95.45	229,859.37	3,654,922.30	EAC1-72	175+94.33	232,772.54	3,659,319.59
EAC1-50	119+58.25	230,066.09	3,655,084.56	EAC1-73	177+66.68	232,882.25	3,659,452.51
EAC1-51	121+81.60	230,225.38	3,655,241.13	EAC1-74	180+15.30	233,025.75	3,659,655.55
EAC1-52	124+56.52	230,462.23	3,655,380.71	EAC1-75	182+65.71	233,175.28	3,659,856.41
EAC1-53	127+18.99	230,669.82	3,655,541.32	EAC1-76	185+15.68	233,326.19	3,660,055.67
EAC1-54	129+75.82	230,862.63	3,655,710.99	EAC1-77	187+65.79	233,476.67	3,660,255.46
EAC1-55	130+86.71	230,927.80	3,655,800.70	EAC1-78	190+18.29	233,649.72	3,660,439.33
EAC1-56	134+52.71	230,688.79	3,656,077.88	EAC1-79	192+67.96	233,798.91	3,660,639.53
EAC1-57	137+67.27	230,548.17	3,656,359.26	EAC1-80	195+19.77	233,960.83	3,660,832.38
EAC1-58	139+16.69	230,607.27	3,656,496.50	EAC1-81	199+87.87	234,246.03	3,661,203.56
EAC1-59	141+69.11	230,766.40	3,656,692.44	EAC1-82	202+37.90	234,382.68	3,661,412.94
EAC1-60	144+23.04	230,946.29	3,656,871.65	EAC1-83	203+79.40	234,476.66	3,661,518.73
EAC1-61	146+74.82	231,111.72	3,657,061.46	EAC1-84	204+88.27	234,536.31	3,661,609.81
EAC1-62	149+24.60	231,259.49	3,657,262.84	EAC1-85	207+38.30	234,687.61	3,661,808.86
EAC1-63	154+26.91	231,526.59	3,657,688.26	EAC1-86	209+88.33	234,838.91	3,662,007.91
EAC1-64	156+77.54	231,673.46	3,657,891.33	EAC1-87	212+38.85	235,000.28	3,662,199.54
EAC1-65	159+28.00	231,832.07	3,658,085.17	EAC1-88	214+92.22	235,181.76	3,662,376.35
EAC1-66	164+26.81	232,135.01	3,658,481.46	EAC1-89	217+42.25	235,333.07	3,662,575.40
EAC1-67	166+77.19	232,288.42	3,658,679.33	EAC1-90	219+96.50	235,444.12	3,662,804.11
EAC1-68	167+45.18	232,329.35	3,658,733.81	EAC1-91	220+08.04	235,450.94	3,662,813.43

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 2			
NAME	STATION	NORTHING	EASTING
CD-15	121+49.95	229,080.83	3,654,842.18
CD-17	149+81.31	230,726.36	3,657,027.57
CD-18	166+35.98	231,779.25	3,658,425.89
CD-19	168+84.98	231,905.96	3,658,640.24
CD-20	171+38.26	232,019.89	3,658,866.45
CD-21	172+88.29	232,143.73	3,658,951.14
CD-22	192+88.84	233,389.27	3,660,516.66
CD-23	193+56.06	233,374.94	3,660,582.33
CD-24	195+05.90	233,428.19	3,660,722.39
CD-25	196+30.00	233,552.29	3,660,721.55
CD-26	202+10.85	233913.92	3661176.09
CD-27	210+90.48	234,461.58	3,661,864.44
CD-28	217+95.21	234,838.89	3,662,459.65
CD-29	224+36.61	235,228.21	3,662,969.38
CD-30	235+05.20	234,352.83	3,663,582.32

EQUIPMENT ACCESS CORRIDOR (EAC3) INCREMENT 2 COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING
EAC3-1	0+00.00 EAC3 = 203+79.40 EAC1	234,476.66	3,661,518.73
EAC3-2	2+27.99	234,311.96	3,661,676.38

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 — SETTLEMENT PLATE POINT AND NAME
- CD-15 — CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 — EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 — EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 2

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

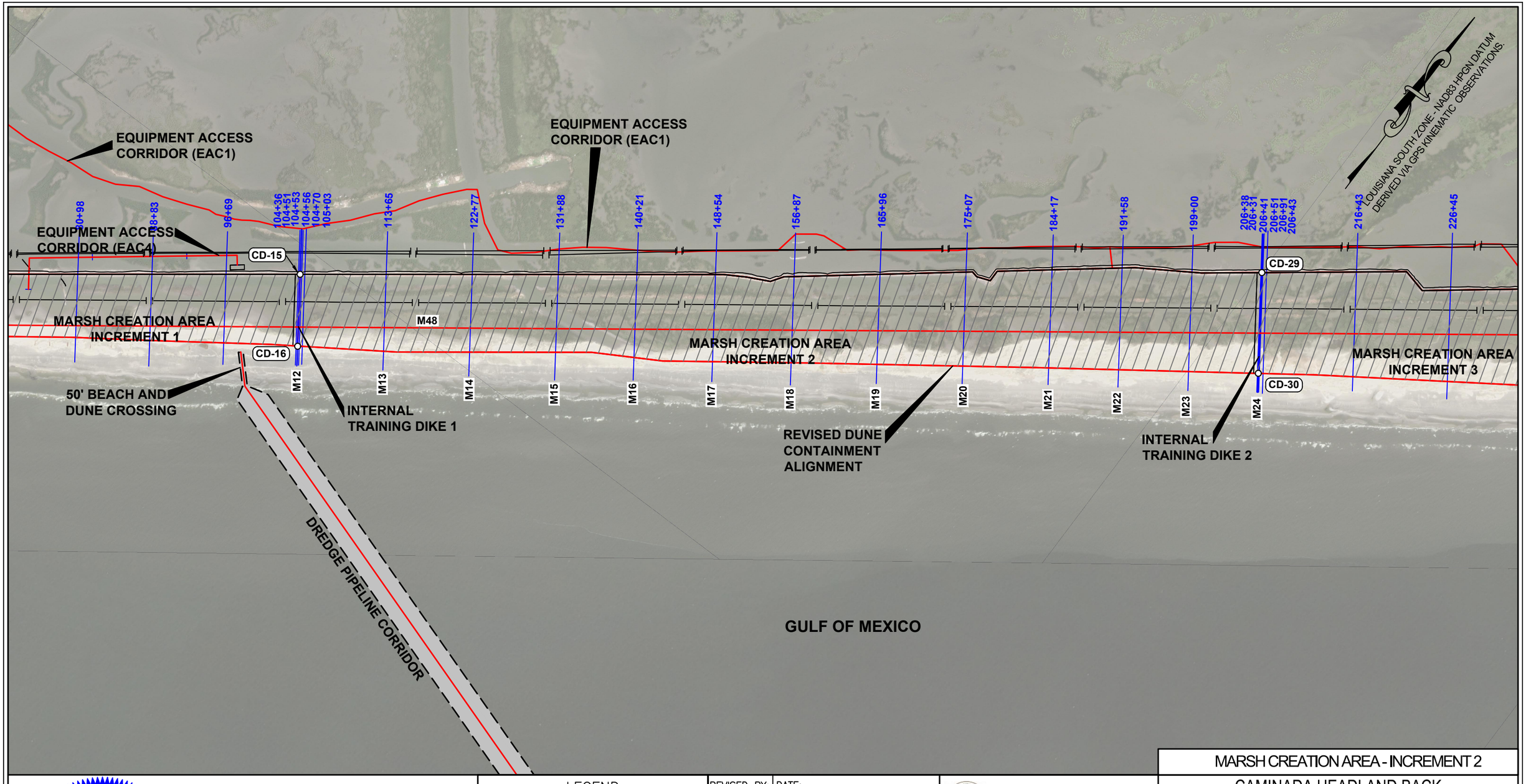
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

SHEET: 9 OF 30



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 2

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

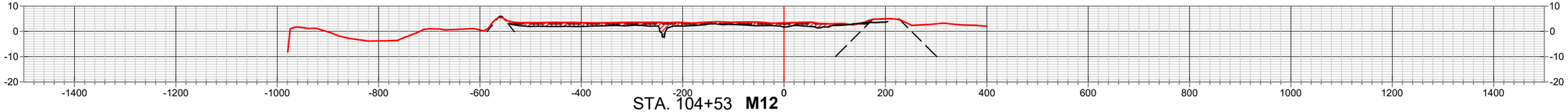
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

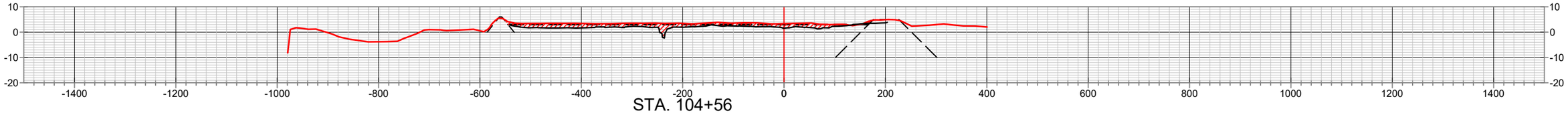
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

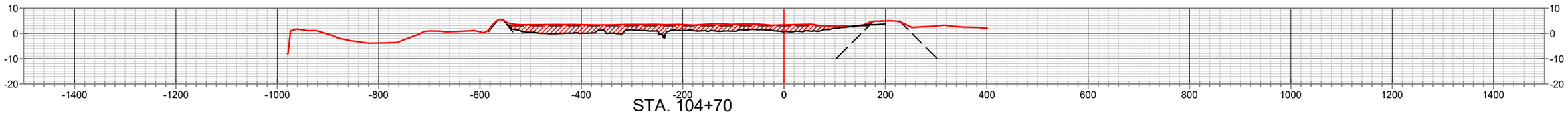
SHEET: 10 OF 30



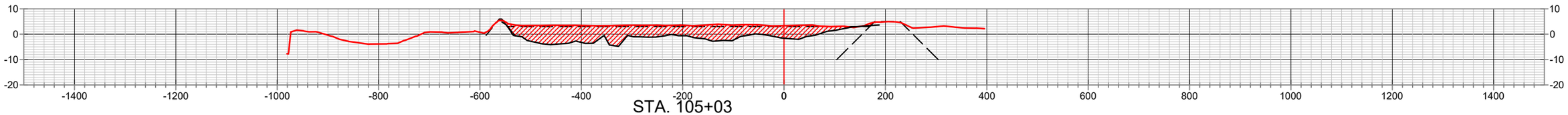
STA. 104+53 **M12**



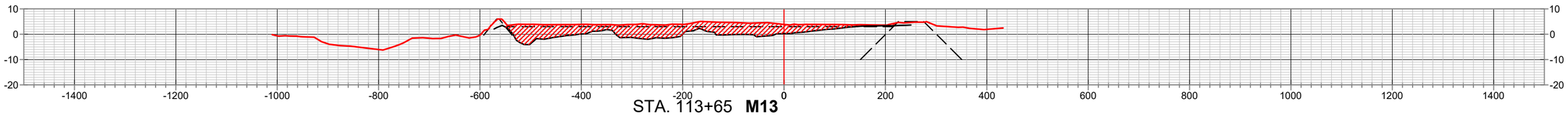
STA. 104+56



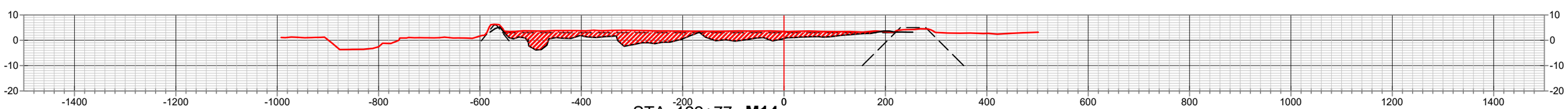
STA. 104+70



STA. 105+03



STA. 113+65 **M13**



STA. 122+77 **M14**

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 104+56, 104+70, 206+31 AND 206+38 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE

200' 0' 100' 200'

VERTICAL SCALE

40' 0' 20' 40'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 2

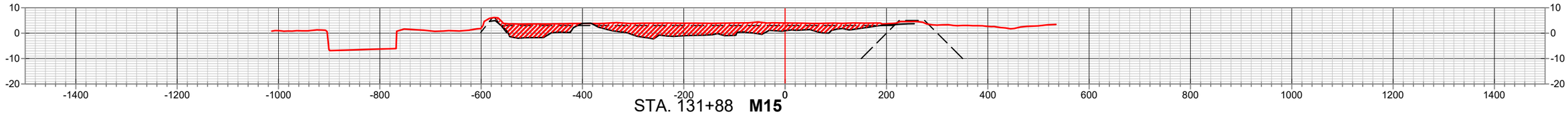
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

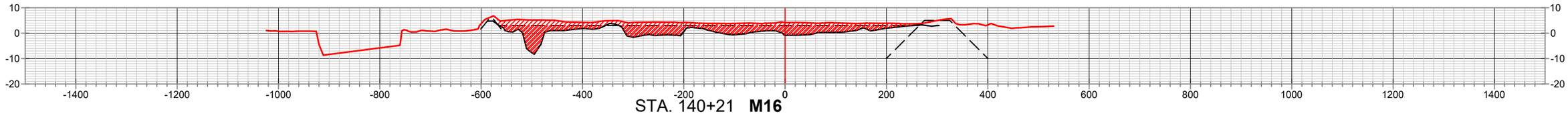
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

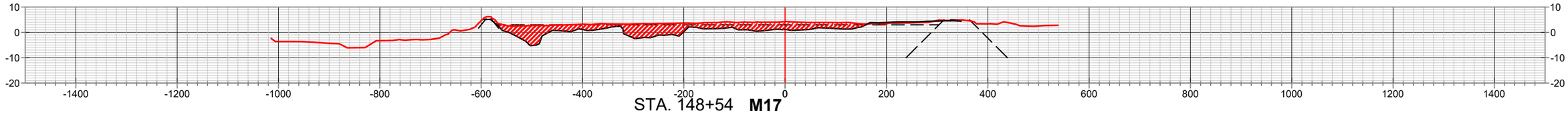
FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg



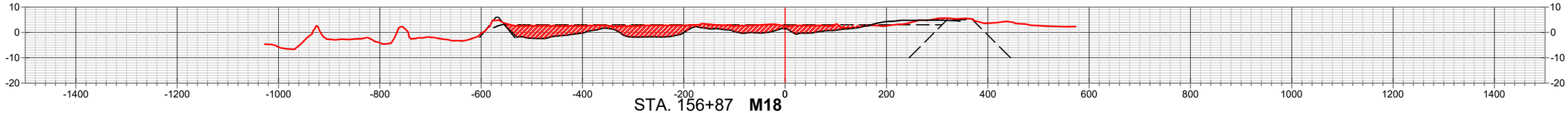
STA. 131+88 **M15**



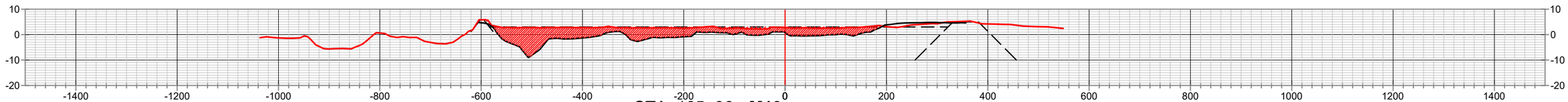
STA. 140+21 **M16**



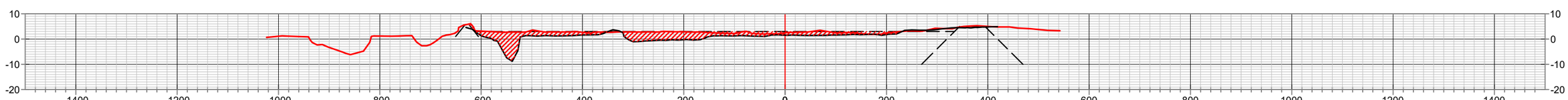
STA. 148+54 **M17**



STA. 156+87 **M18**



STA. 165+96 **M19**



STA. 175+07 **M20**

MARSH CREATION AREA - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 104+56, 104+70, 206+31 AND 206+38 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

HYDROTERRA

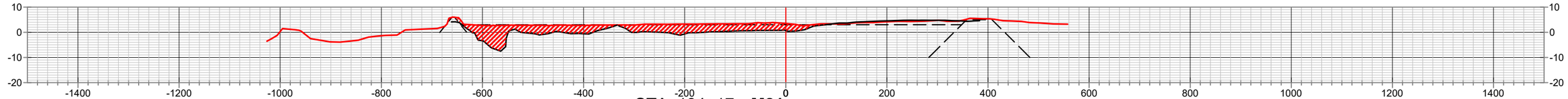
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

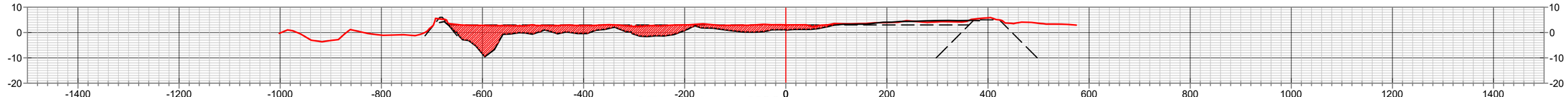
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

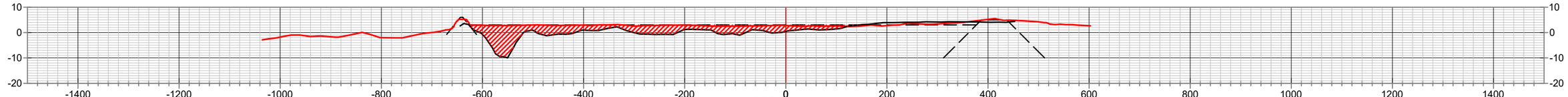
DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 12 OF 30



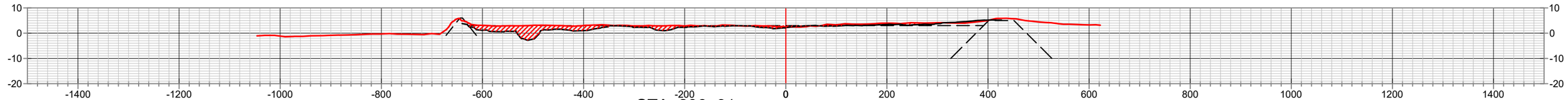
STA. 184+17 **M21**



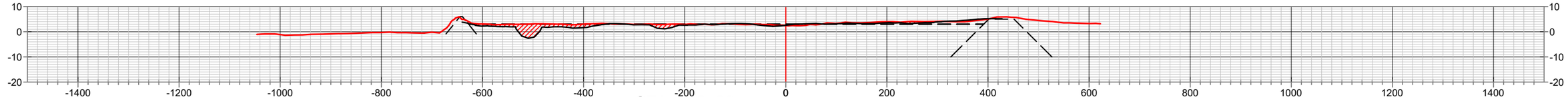
STA. 191+58 **M22**



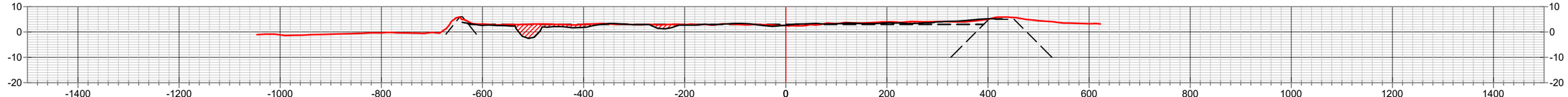
STA. 199+00 **M23**



STA. 206+31



STA. 206+38



STA. 206+41 **M24**

MARSH CREATION AREA - INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 104+56, 104+70, 206+31 AND 206+38 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 13 OF 30

MCA_INC-2 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
0+74.10	0.00	0.00	0.00
1+02.76	0.00	0.00	0.00
1+82.20	0.00	0.00	0.00
7+33.13	0.00	0.00	0.00
14+06.78	0.00	0.00	0.00
20+79.71	0.00	0.00	0.00
30+64.48	0.00	0.00	0.00
40+50.61	0.00	0.00	0.00
50+36.74	0.00	0.00	0.00
60+57.69	0.00	0.00	0.00
70+78.46	0.00	0.00	0.00
80+98.07	0.00	0.00	0.00
88+83.38	0.00	0.00	0.00
96+68.69	0.00	0.00	0.00
104+36.03	0.00	0.00	0.00
104+50.83	0.00	0.00	0.00
104+53.04	0.00	0.00	0.00
104+55.53	0.00	0.00	0.00
104+70.05	0.00	0.00	0.00
105+03.06	0.00	0.00	0.00
113+65.12	2121.63	33869.84	33869.84
122+77.20	1774.25	65802.81	99672.65
131+88.16	2052.30	64552.54	164225.19

MCA_INC-2 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
140+20.54	2110.25	64163.31	228388.49
148+53.94	1874.23	61493.90	289882.40
156+87.34	2177.62	62533.64	352416.04
165+96.44	2925.29	85908.76	438324.79
175+06.66	1875.03	80913.70	519238.50
184+16.88	2196.16	68623.54	587862.03
191+58.42	2410.91	63265.93	651127.97
198+99.97	2444.73	66679.30	717807.27
206+30.60	864.76	44778.08	762585.35
206+38.10	0.00	120.15	762705.50
206+40.61	0.00	0.00	762705.50
206+43.11	0.00	0.00	762705.50
206+50.61	0.00	0.00	762705.50
206+90.62	0.00	0.00	762705.50
216+42.99	0.00	0.00	762705.50
226+45.37	0.00	0.00	762705.50
236+46.52	0.00	0.00	762705.50
245+60.07	0.00	0.00	762705.50
254+73.61	0.00	0.00	762705.50
263+86.03	0.00	0.00	762705.50
273+02.59	0.00	0.00	762705.50
282+19.15	0.00	0.00	762705.50
291+34.58	0.00	0.00	762705.50

MCA_INC-2 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
298+83.93	0.00	0.00	762705.50
306+34.20	0.00	0.00	762705.50
313+67.46	0.00	0.00	762705.50
313+82.10	0.00	0.00	762705.50
313+84.40	0.00	0.00	762705.50
313+86.97	0.00	0.00	762705.50
314+01.47	0.00	0.00	762705.50
314+34.49	0.00	0.00	762705.50
323+00.37	0.00	0.00	762705.50
332+16.26	0.00	0.00	762705.50
341+31.03	0.00	0.00	762705.50
350+46.89	0.00	0.00	762705.50
359+63.88	0.00	0.00	762705.50
368+80.86	0.00	0.00	762705.50
377+16.00	0.00	0.00	762705.50
385+51.13	0.00	0.00	762705.50
393+85.24	0.00	0.00	762705.50
399+69.34	0.00	0.00	762705.50
405+50.00	0.00	0.00	762705.50
410+26.85	0.00	0.00	762705.50
410+76.86	0.00	0.00	762705.50
411+22.42	0.00	0.00	762705.50
411+34.34	0.00	0.00	762705.50

THEORETICAL
AUTOCAD TIN VOLUME
826,342 CU. YDS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
10/10/22

REVISED BY:	DATE:

HYDROTERRA

MARSH CREATION AREA - INCREMENT 2

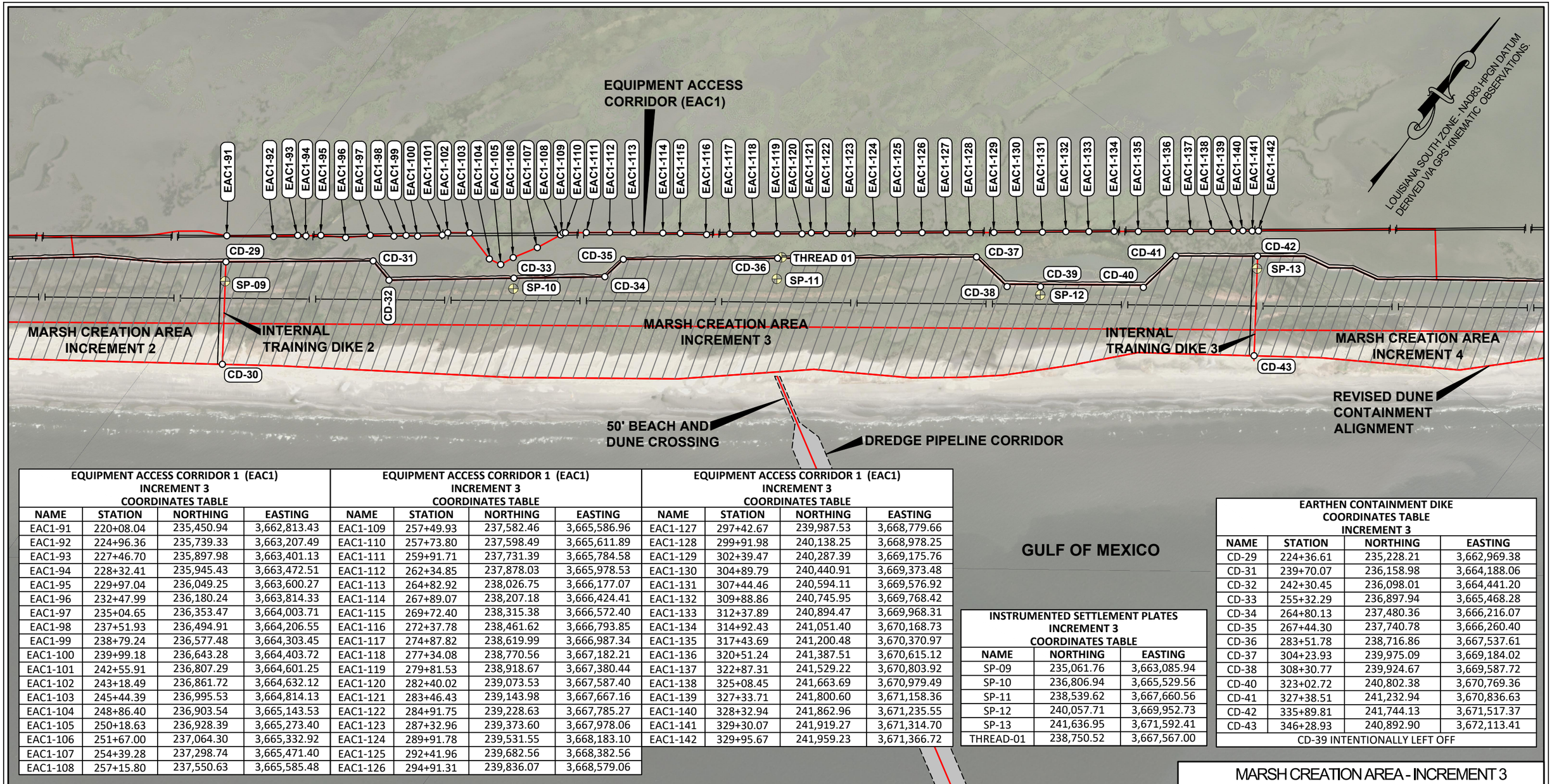
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

VOLUME REPORTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 14 OF 30



EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-91	220+08.04	235,450.94	3,662,813.43
EAC1-92	224+96.36	235,739.33	3,663,207.49
EAC1-93	227+46.70	235,897.98	3,663,401.13
EAC1-94	228+32.41	235,945.43	3,663,472.51
EAC1-95	229+97.04	236,049.25	3,663,600.27
EAC1-96	232+47.99	236,180.24	3,663,814.33
EAC1-97	235+04.65	236,353.47	3,664,003.71
EAC1-98	237+51.93	236,494.91	3,664,206.55
EAC1-99	238+79.24	236,577.48	3,664,303.45
EAC1-100	239+99.18	236,643.28	3,664,403.72
EAC1-101	242+55.91	236,807.29	3,664,601.25
EAC1-102	243+18.49	236,861.72	3,664,632.12
EAC1-103	245+44.39	236,995.53	3,664,814.13
EAC1-104	248+86.40	236,903.54	3,665,143.53
EAC1-105	250+18.63	236,928.39	3,665,273.40
EAC1-106	251+67.00	237,064.30	3,665,332.92
EAC1-107	254+39.28	237,298.74	3,665,471.40
EAC1-108	257+15.80	237,550.63	3,665,585.48

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-109	257+49.93	237,582.46	3,665,586.96
EAC1-110	257+73.80	237,598.49	3,665,611.89
EAC1-111	259+91.71	237,731.39	3,665,784.58
EAC1-112	262+34.85	237,878.03	3,665,978.53
EAC1-113	264+82.92	238,026.75	3,666,177.07
EAC1-114	267+89.07	238,207.18	3,666,424.41
EAC1-115	269+72.40	238,315.38	3,666,572.40
EAC1-116	272+37.78	238,461.62	3,666,793.85
EAC1-117	274+87.82	238,619.99	3,666,987.34
EAC1-118	277+34.08	238,770.56	3,667,182.21
EAC1-119	279+81.53	238,918.67	3,667,380.44
EAC1-120	282+40.02	239,073.53	3,667,587.40
EAC1-121	283+46.43	239,143.98	3,667,667.16
EAC1-122	284+91.75	239,228.63	3,667,785.27
EAC1-123	287+32.96	239,373.60	3,667,978.06
EAC1-124	289+91.78	239,531.55	3,668,183.10
EAC1-125	292+41.96	239,682.56	3,668,382.56
EAC1-126	294+91.31	239,836.07	3,668,579.06

EQUIPMENT ACCESS CORRIDOR 1 (EAC1) INCREMENT 3 COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-127	297+42.67	239,987.53	3,668,779.66
EAC1-128	299+91.98	240,138.25	3,668,978.25
EAC1-129	302+39.47	240,287.39	3,669,175.76
EAC1-130	304+89.79	240,440.91	3,669,373.48
EAC1-131	307+44.46	240,594.11	3,669,576.92
EAC1-132	309+88.86	240,745.95	3,669,768.42
EAC1-133	312+37.89	240,894.47	3,669,968.31
EAC1-134	314+92.43	241,051.40	3,670,168.73
EAC1-135	317+43.69	241,200.48	3,670,370.97
EAC1-136	320+51.24	241,387.51	3,670,615.12
EAC1-137	322+87.31	241,529.22	3,670,803.92
EAC1-138	325+08.45	241,663.69	3,670,979.49
EAC1-139	327+33.71	241,800.60	3,671,158.36
EAC1-140	328+32.94	241,862.96	3,671,235.55
EAC1-141	329+30.07	241,919.27	3,671,314.70
EAC1-142	329+95.67	241,959.23	3,671,366.72

INSTRUMENTED SETTLEMENT PLATES INCREMENT 3 COORDINATES TABLE

NAME	NORTHING	EASTING
SP-09	235,061.76	3,663,085.94
SP-10	236,806.94	3,665,529.56
SP-11	238,539.62	3,667,660.56
SP-12	240,057.71	3,669,952.73
SP-13	241,636.95	3,671,592.41
THREAD-01	238,750.52	3,667,567.00

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 3

NAME	STATION	NORTHING	EASTING
CD-29	224+36.61	235,228.21	3,662,969.38
CD-31	239+70.07	236,158.98	3,664,188.06
CD-32	242+30.45	236,098.01	3,664,441.20
CD-33	255+32.29	236,897.94	3,665,468.28
CD-34	264+80.13	237,480.36	3,666,216.07
CD-35	267+44.30	237,740.78	3,666,260.40
CD-36	283+51.78	238,716.86	3,667,537.61
CD-37	304+23.93	239,975.09	3,669,184.02
CD-38	308+30.77	239,924.67	3,669,587.72
CD-40	323+02.72	240,802.38	3,670,769.36
CD-41	327+38.51	241,232.94	3,670,836.63
CD-42	335+89.81	241,744.13	3,671,517.37
CD-43	346+28.93	240,892.90	3,672,113.41
CD-39 INTENTIONALLY LEFT OFF			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 SETTLEMENT PLATE POINT AND NAME
- CD-15 CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 3

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

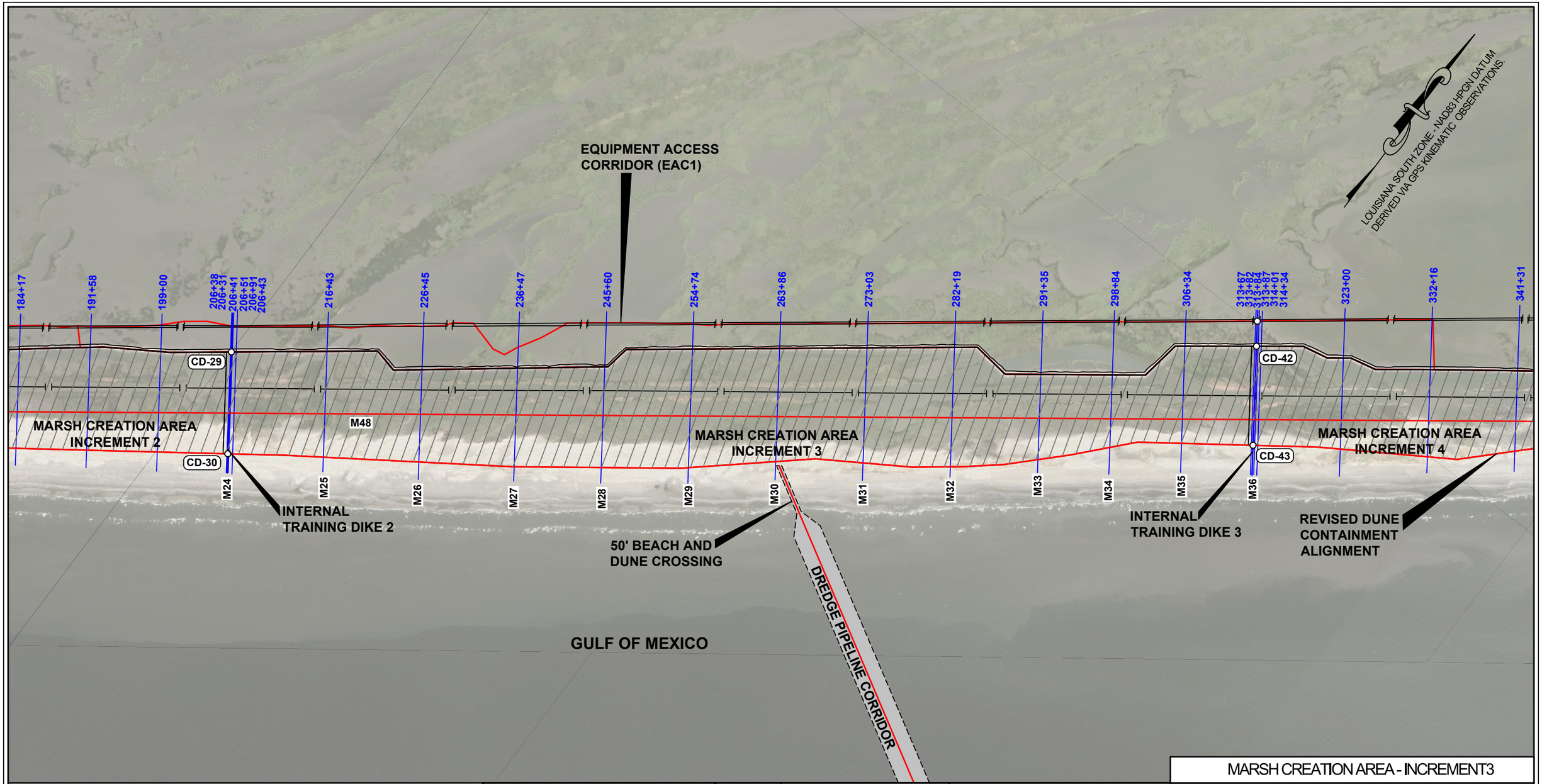
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

SHEET: 15 OF 30



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED
PROFESSIONAL
LAND SURVEYOR
10/10/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

HYDROTERRA

MARSH CREATION AREA - INCREMENT3

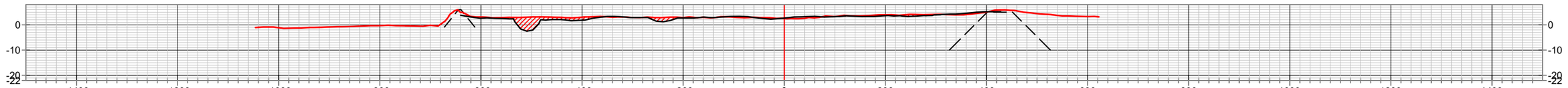
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

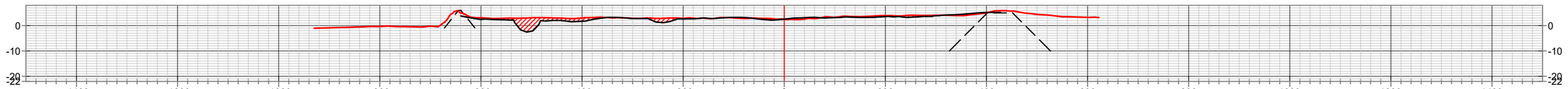
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

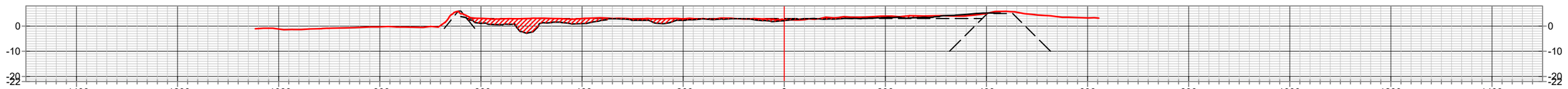
DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 16 OF 30



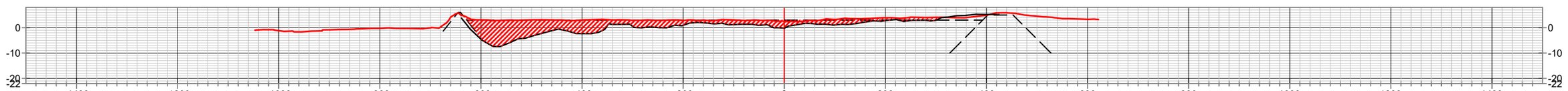
STA. 206+41 **M24**



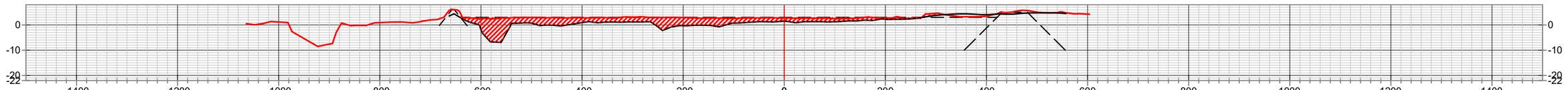
STA. 206+43



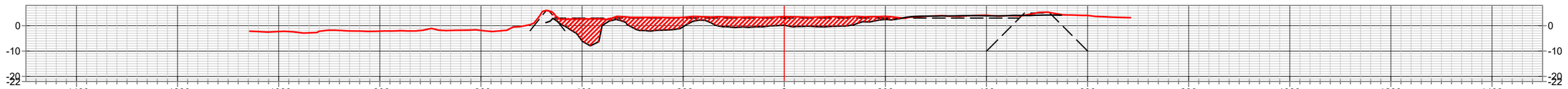
STA. 206+51



STA. 206+91



STA. 216+43 **M25**



STA. 226+45 **M26**

MARSH CREATION AREA - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 206+43, 206+51, 282+19, 313+67 AND 313+82 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

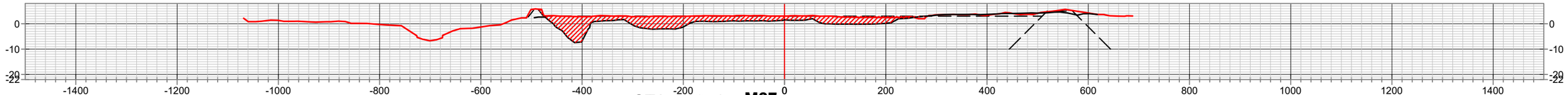
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

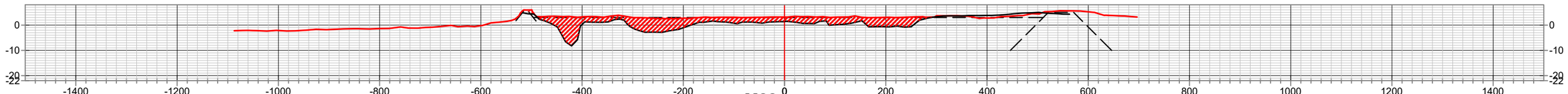
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

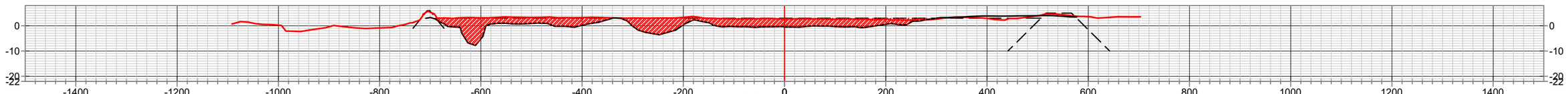
FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg



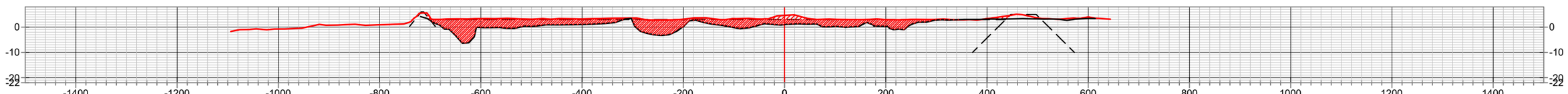
STA. 236+47 **M27**



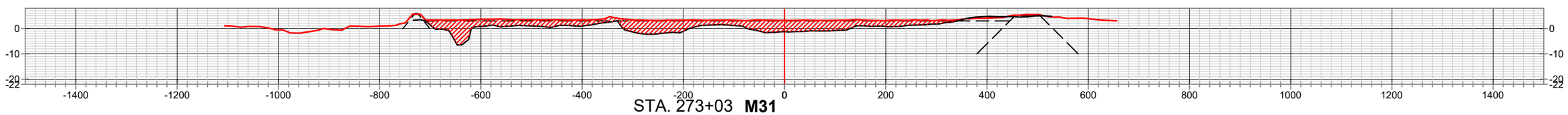
STA. 245+60 **M28**



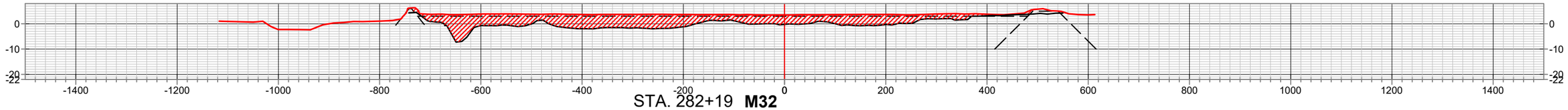
STA. 254+74 **M29**



STA. 263+86 **M30**



STA. 273+03 **M31**



STA. 282+19 **M32**

MARSH CREATION AREA - INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/5/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 206+43, 206+51, 282+19, 313+67 AND 313+82 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

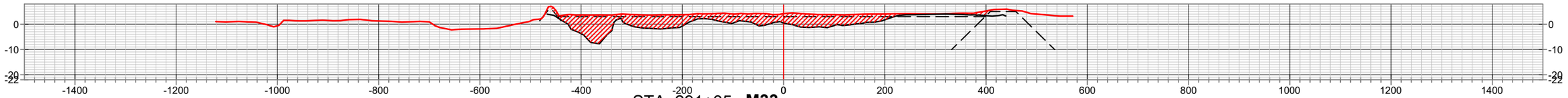
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

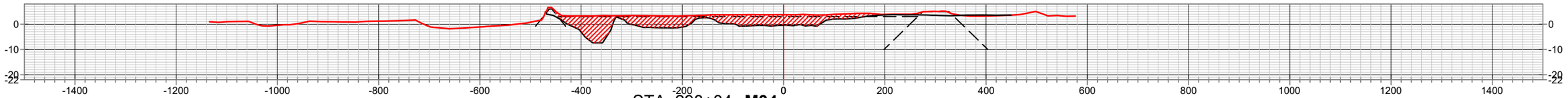
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

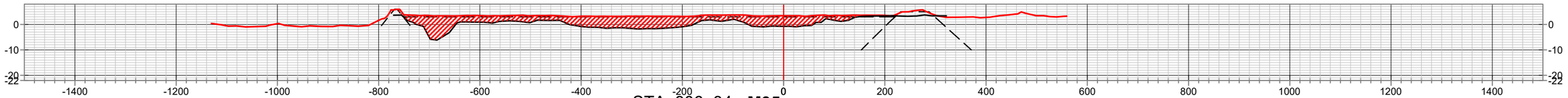
FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg



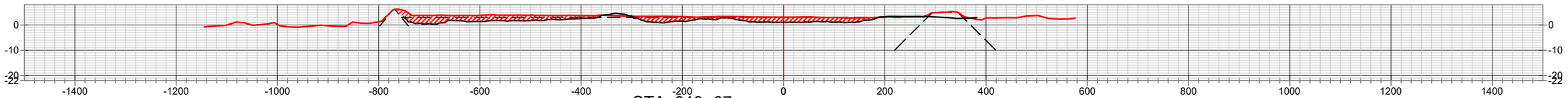
STA. 291+35 **M33**



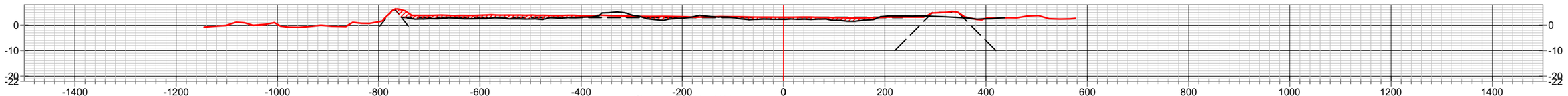
STA. 298+84 **M34**



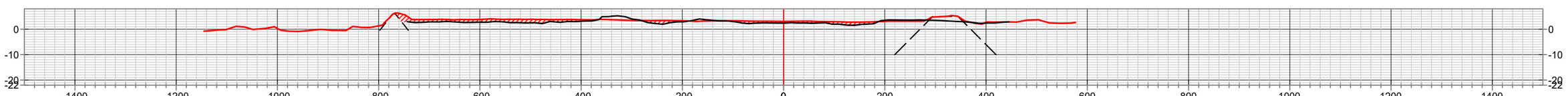
STA. 306+34 **M35**



STA. 313+67



STA. 313+82



STA. 313+84 **M36**

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4786
REGISTERED PROFESSIONAL LAND SURVEYOR
10-10-22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 206+43, 206+51, 282+19, 313+67 AND 313+82 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 3

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

MCA_INC-3 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
0+74.10	0.00	0.00	0.00
1+02.76	0.00	0.00	0.00
1+82.20	0.00	0.00	0.00
7+33.13	0.00	0.00	0.00
14+06.78	0.00	0.00	0.00
20+79.71	0.00	0.00	0.00
30+64.48	0.00	0.00	0.00
40+50.61	0.00	0.00	0.00
50+36.74	0.00	0.00	0.00
60+57.69	0.00	0.00	0.00
70+78.46	0.00	0.00	0.00
80+98.07	0.00	0.00	0.00
88+83.38	0.00	0.00	0.00
96+68.69	0.00	0.00	0.00
104+36.03	0.00	0.00	0.00
104+50.83	0.00	0.00	0.00
104+53.04	0.00	0.00	0.00
104+55.53	0.00	0.00	0.00
104+70.05	0.00	0.00	0.00
105+03.06	0.00	0.00	0.00
113+65.12	0.00	0.00	0.00
122+77.20	0.00	0.00	0.00
131+88.16	0.00	0.00	0.00

MCA_INC-3 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
140+20.54	0.00	0.00	0.00
148+53.94	0.00	0.00	0.00
156+87.34	0.00	0.00	0.00
165+96.44	0.00	0.00	0.00
175+06.66	0.00	0.00	0.00
184+16.88	0.00	0.00	0.00
191+58.42	0.00	0.00	0.00
198+99.97	0.00	0.00	0.00
206+30.60	0.00	0.00	0.00
206+38.10	0.00	0.00	0.00
206+40.61	0.00	0.00	0.00
206+43.11	0.00	0.00	0.00
206+50.61	865.42	120.25	120.25
206+90.62	2690.85	2635.13	2755.38
216+42.99	2283.17	87723.75	90479.12
226+45.37	2262.90	84386.94	174866.06
236+46.52	2222.13	83151.85	258017.91
245+60.07	2300.23	76506.71	334524.62
254+73.61	3057.31	90635.95	425160.57
263+86.03	2794.82	98881.79	524042.36
273+02.59	2965.30	97768.25	621810.62
282+19.15	3691.21	112982.94	734793.56
291+34.58	2328.73	102053.07	836846.63

MCA_INC-3 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
298+83.93	2037.61	60591.19	897437.82
306+34.20	2770.72	66806.43	964244.25
313+67.46	1212.41	54086.18	1018330.42
313+82.10	0.00	328.63	1018659.06
313+84.40	0.00	0.00	1018659.06
313+86.97	0.00	0.00	1018659.06
314+01.47	0.00	0.00	1018659.06
314+34.49	0.00	0.00	1018659.06
323+00.37	0.00	0.00	1018659.06
332+16.26	0.00	0.00	1018659.06
341+31.03	0.00	0.00	1018659.06
350+46.89	0.00	0.00	1018659.06
359+63.88	0.00	0.00	1018659.06
368+80.86	0.00	0.00	1018659.06
377+16.00	0.00	0.00	1018659.06
385+51.13	0.00	0.00	1018659.06
393+85.24	0.00	0.00	1018659.06
399+69.34	0.00	0.00	1018659.06
405+50.00	0.00	0.00	1018659.06
410+26.85	0.00	0.00	1018659.06
410+76.86	0.00	0.00	1018659.06
411+22.42	0.00	0.00	1018659.06
411+34.34	0.00	0.00	1018659.06

THEORETICAL
AUTOCAD TIN VOLUME
1,014,840 CU. YDS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4760
REGISTERED
PROFESSIONAL
LAND SURVEYOR
10/5/22

REVISED BY:	DATE:

MARSH CREATION AREA - INCREMENT 3

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

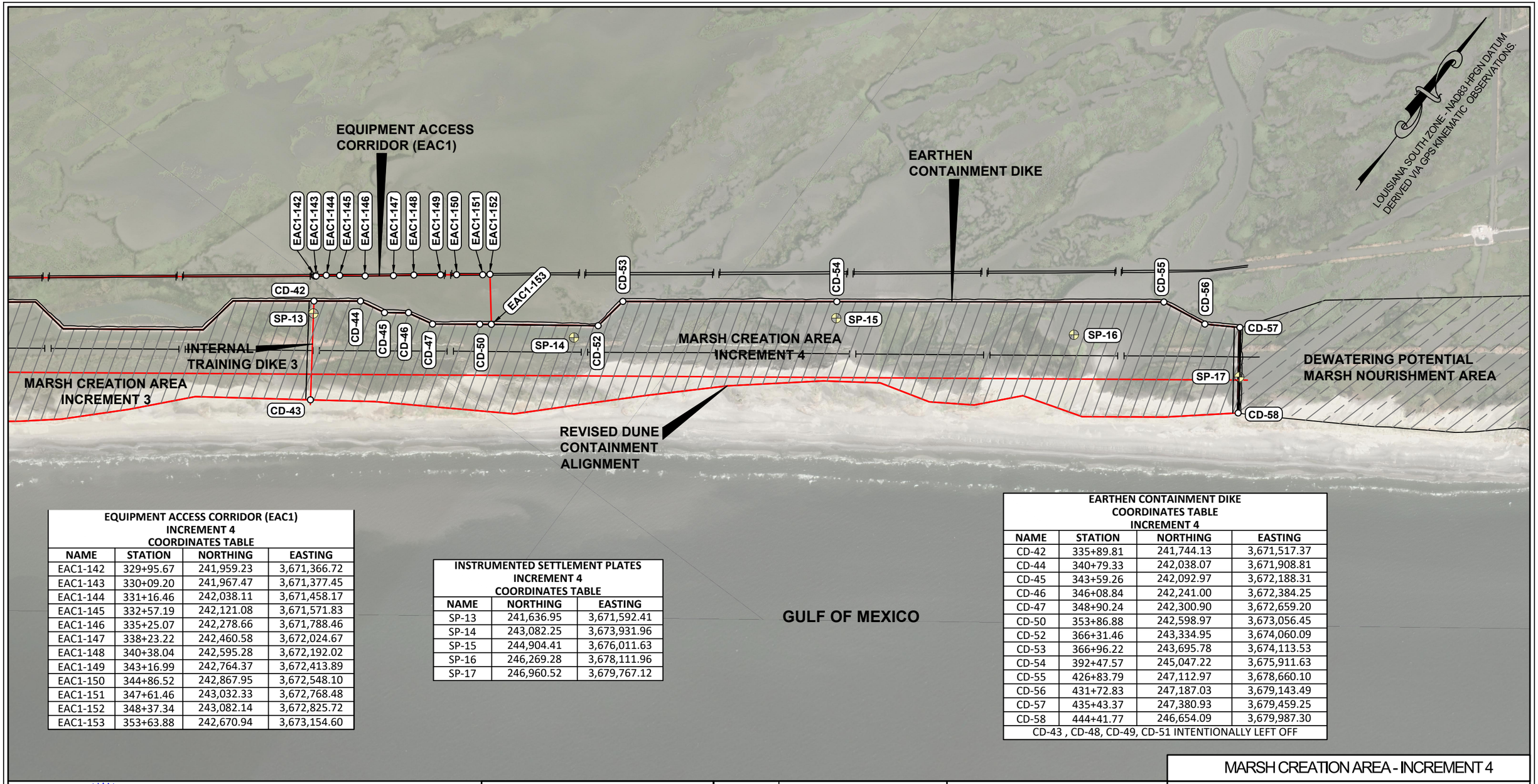
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

VOLUME REPORTS
LAFOURCHE & JEFFERSON PARISHES, LA.

HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 20 OF 30



EQUIPMENT ACCESS CORRIDOR (EAC1)
INCREMENT 4
COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
EAC1-142	329+95.67	241,959.23	3,671,366.72
EAC1-143	330+09.20	241,967.47	3,671,377.45
EAC1-144	331+16.46	242,038.11	3,671,458.17
EAC1-145	332+57.19	242,121.08	3,671,571.83
EAC1-146	335+25.07	242,278.66	3,671,788.46
EAC1-147	338+23.22	242,460.58	3,672,024.67
EAC1-148	340+38.04	242,595.28	3,672,192.02
EAC1-149	343+16.99	242,764.37	3,672,413.89
EAC1-150	344+86.52	242,867.95	3,672,548.10
EAC1-151	347+61.46	243,032.33	3,672,768.48
EAC1-152	348+37.34	243,082.14	3,672,825.72
EAC1-153	353+63.88	242,670.94	3,673,154.60

INSTRUMENTED SETTLEMENT PLATES
INCREMENT 4
COORDINATES TABLE

NAME	NORTHING	EASTING
SP-13	241,636.95	3,671,592.41
SP-14	243,082.25	3,673,931.96
SP-15	244,904.41	3,676,011.63
SP-16	246,269.28	3,678,111.96
SP-17	246,960.52	3,679,767.12

EARTHEN CONTAINMENT DIKE
COORDINATES TABLE
INCREMENT 4

NAME	STATION	NORTHING	EASTING
CD-42	335+89.81	241,744.13	3,671,517.37
CD-44	340+79.33	242,038.07	3,671,908.81
CD-45	343+59.26	242,092.97	3,672,188.31
CD-46	346+08.84	242,241.00	3,672,384.25
CD-47	348+90.24	242,300.90	3,672,659.20
CD-50	353+86.88	242,598.97	3,673,056.45
CD-52	366+31.46	243,334.95	3,674,060.09
CD-53	366+96.22	243,695.78	3,674,113.53
CD-54	392+47.57	245,047.22	3,675,911.63
CD-55	426+83.79	247,112.97	3,678,660.10
CD-56	431+72.83	247,187.03	3,679,143.49
CD-57	435+43.37	247,380.93	3,679,459.25
CD-58	444+41.77	246,654.09	3,679,987.30
CD-43 , CD-48, CD-49, CD-51 INTENTIONALLY LEFT OFF			

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/5/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- SP-07 SETTLEMENT PLATE POINT AND NAME
- CD-15 CONTAINMENT DIKE PI POINT AND NAME
- EAC1-46 EQUIPMENT ACCESS CORRIDOR 1 POINT AND NAME
- EAC3-1 EQUIPMENT ACCESS CORRIDOR 3 POINT AND NAME

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

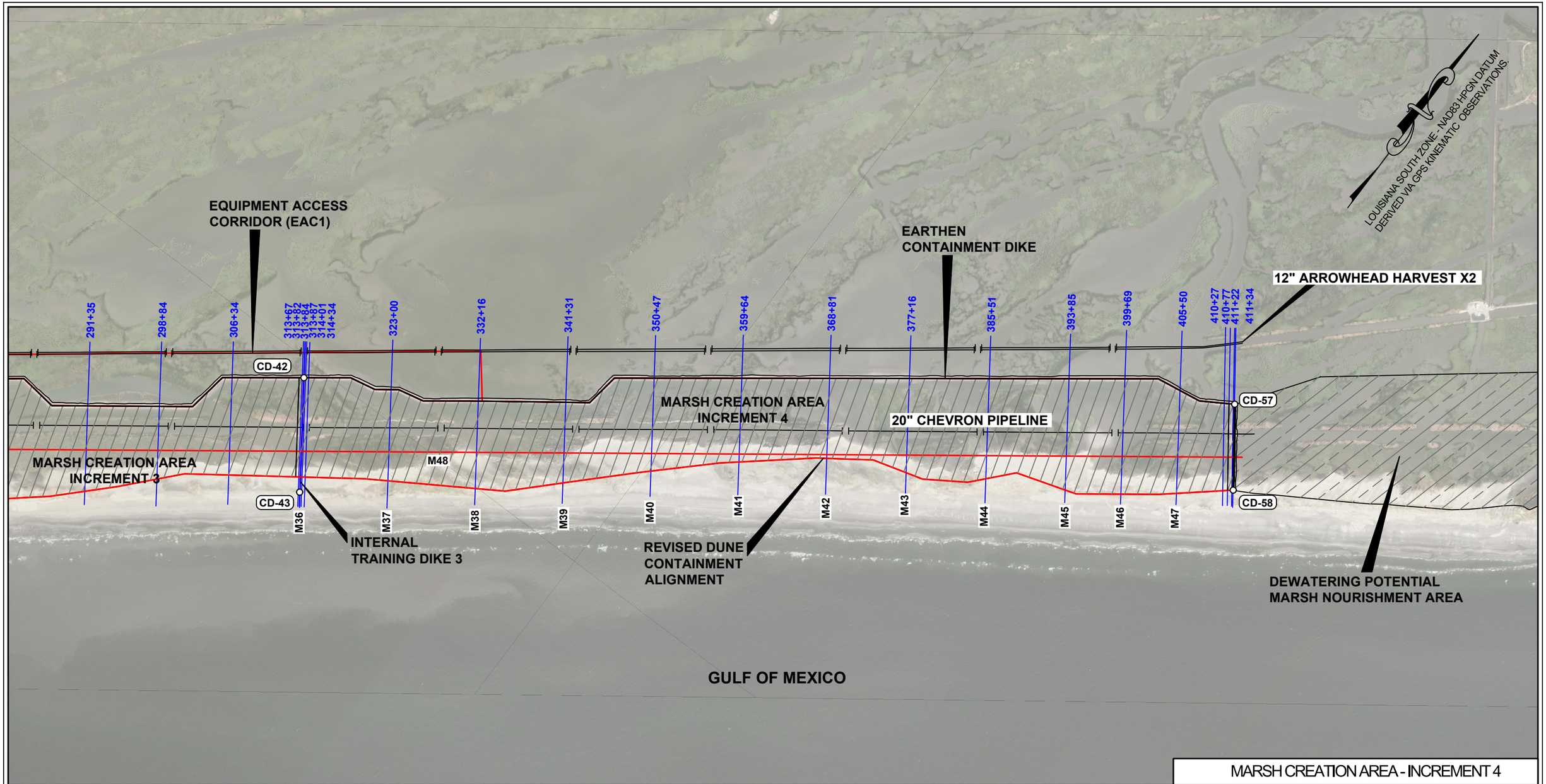
FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 21 OF 30

MARSH CREATION AREA - INCREMENT 4

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED
PROFESSIONAL
LAND SURVEYOR
10/10/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- MARSH CREATION AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - INCREMENT 4

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

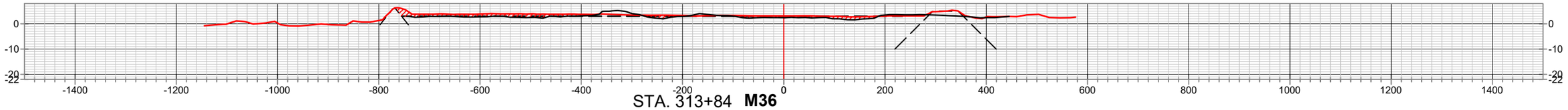
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

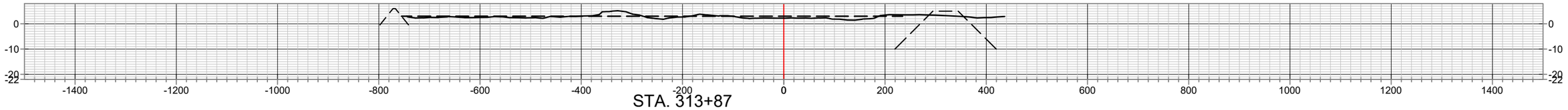
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

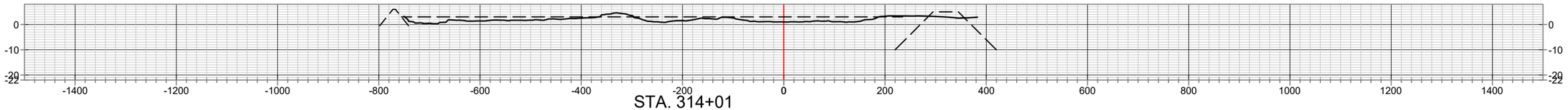
SHEET: 22 OF 30



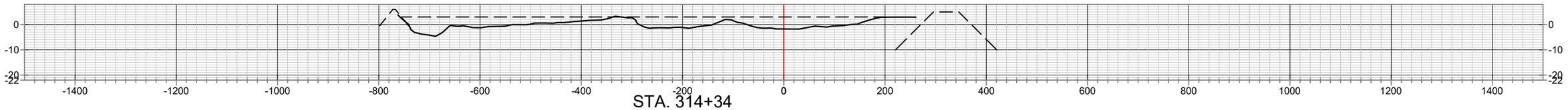
STA. 313+84 **M36**



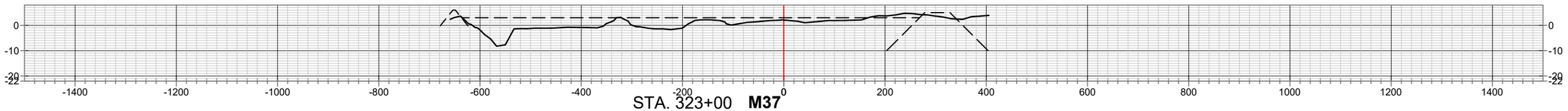
STA. 313+87



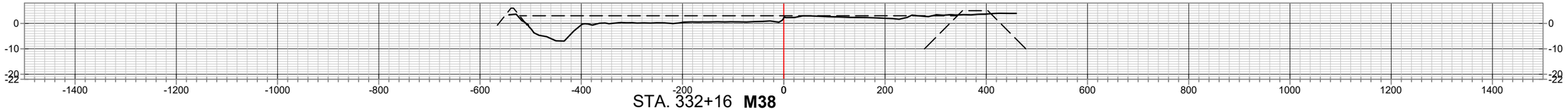
STA. 314+01



STA. 314+34



STA. 323+00 **M37**



STA. 332+16 **M38**

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/19/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 313+87, 314+01, 410+77 AND 411+22 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

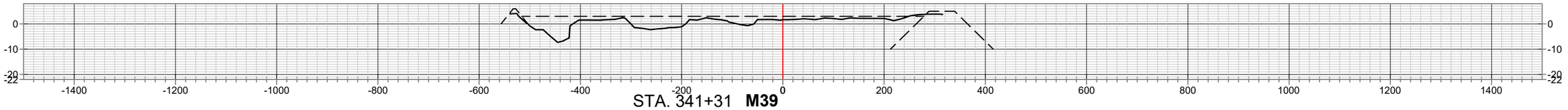
SHEET: 23 OF 30

MARSH CREATION AREA - INCREMENT 4

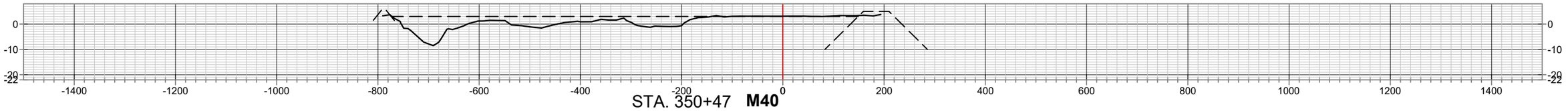
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

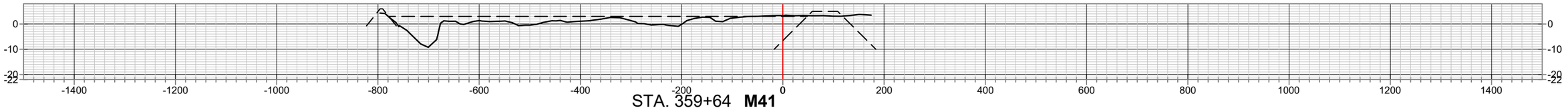
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.



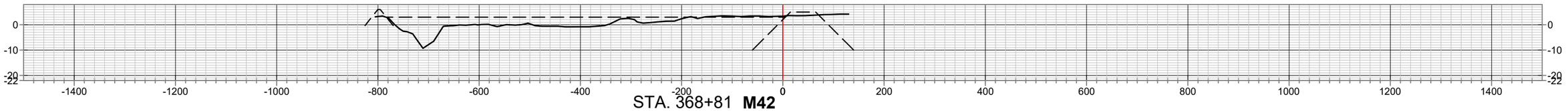
STA. 341+31 **M39**



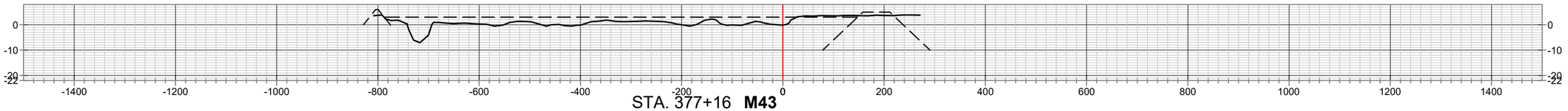
STA. 350+47 **M40**



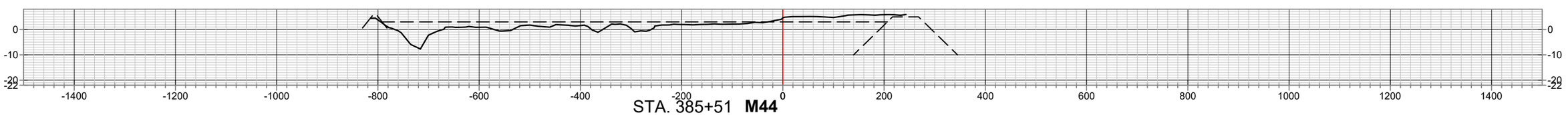
STA. 359+64 **M41**



STA. 368+81 **M42**



STA. 377+16 **M43**



STA. 385+51 **M44**

MARSH CREATION AREA - INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 313+87, 314+01, 410+77 AND 411+22 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE

200' 0' 100' 200'

VERTICAL SCALE

40' 0' 20' 40'

HYDROTERRA

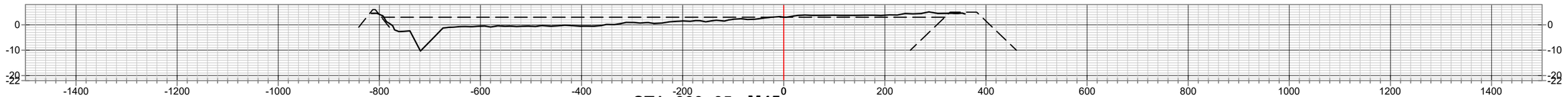
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

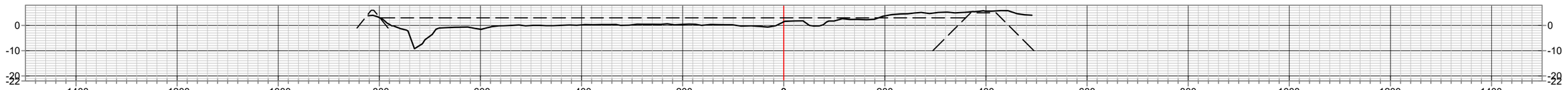
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

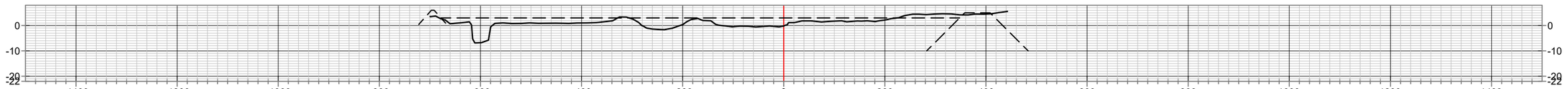
DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 24 OF 30



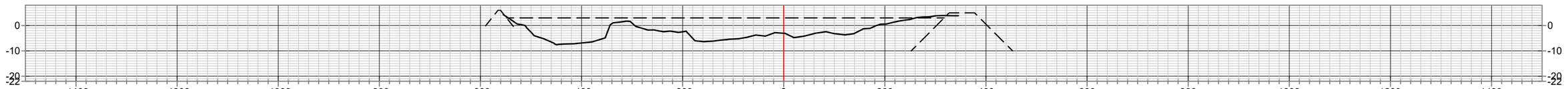
STA. 393+85 **M45**



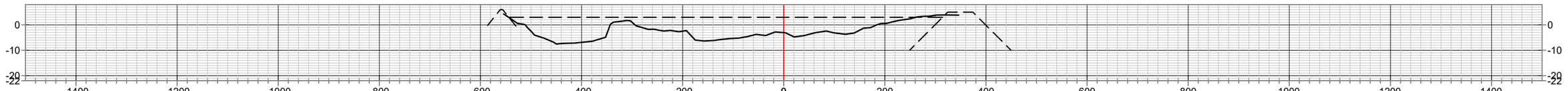
STA. 399+69 **M46**



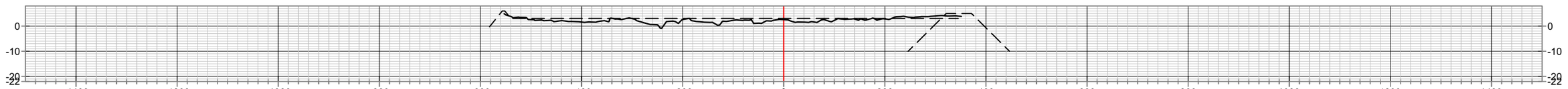
STA. 405+50 **M47**



STA. 410+27



STA. 410+77



STA. 411+22

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/12/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 313+87, 314+01, 410+77 AND 411+22 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE

200' 0' 100' 200'

VERTICAL SCALE

40' 0' 20' 40'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK IMPROVEMENTS

MARSH CREATION AREA - INCREMENT 4

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

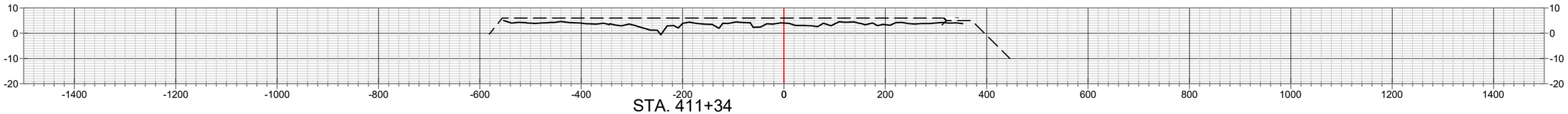
AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

SHEET: 25 OF 30



STA. 411+34

MCA_INC-4 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
0+74.10	0.00	0.00	0.00
1+02.76	0.00	0.00	0.00
1+82.20	0.00	0.00	0.00
7+33.13	0.00	0.00	0.00
14+06.78	0.00	0.00	0.00
20+79.71	0.00	0.00	0.00
30+64.48	0.00	0.00	0.00
40+50.61	0.00	0.00	0.00
50+36.74	0.00	0.00	0.00
60+57.69	0.00	0.00	0.00
70+78.46	0.00	0.00	0.00
80+98.07	0.00	0.00	0.00
88+83.38	0.00	0.00	0.00
96+68.69	0.00	0.00	0.00
104+36.03	0.00	0.00	0.00
104+50.83	0.00	0.00	0.00
104+53.04	0.00	0.00	0.00
104+55.53	0.00	0.00	0.00
104+70.05	0.00	0.00	0.00
105+03.06	0.00	0.00	0.00
113+65.12	0.00	0.00	0.00
122+77.20	0.00	0.00	0.00
131+88.16	0.00	0.00	0.00

MCA_INC-4 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
140+20.54	0.00	0.00	0.00
148+53.94	0.00	0.00	0.00
156+87.34	0.00	0.00	0.00
165+96.44	0.00	0.00	0.00
175+06.66	0.00	0.00	0.00
184+16.88	0.00	0.00	0.00
191+58.42	0.00	0.00	0.00
198+99.97	0.00	0.00	0.00
206+30.60	0.00	0.00	0.00
206+38.10	0.00	0.00	0.00
206+40.61	0.00	0.00	0.00
206+43.11	0.00	0.00	0.00
206+50.61	0.00	0.00	0.00
206+90.62	0.00	0.00	0.00
216+42.99	0.00	0.00	0.00
226+45.37	0.00	0.00	0.00
236+46.52	0.00	0.00	0.00
245+60.07	0.00	0.00	0.00
254+73.61	0.00	0.00	0.00
263+86.03	0.00	0.00	0.00
273+02.59	0.00	0.00	0.00
282+19.15	0.00	0.00	0.00
291+34.58	0.00	0.00	0.00

MCA_INC-4 VOLUME WITHIN TEMPLATE			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
298+83.93	0.00	0.00	0.00
306+34.20	0.00	0.00	0.00
313+67.46	0.00	0.00	0.00
313+82.10	0.00	0.00	0.00
313+84.40	0.00	0.00	0.00
313+86.97	0.00	0.00	0.00
314+01.47	0.00	0.00	0.00
314+34.49	0.00	0.00	0.00
323+00.37	0.00	0.00	0.00
332+16.26	0.00	0.00	0.00
341+31.03	0.00	0.00	0.00
350+46.89	0.00	0.00	0.00
359+63.88	0.00	0.00	0.00
368+80.86	0.00	0.00	0.00
377+16.00	0.00	0.00	0.00
385+51.13	0.00	0.00	0.00
393+85.24	0.00	0.00	0.00
399+69.34	0.00	0.00	0.00
405+50.00	0.00	0.00	0.00
410+26.85	0.00	0.00	0.00
410+76.86	0.00	0.00	0.00
411+22.42	0.00	0.00	0.00
411+34.34	0.00	0.00	0.00

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4786
REGISTERED PROFESSIONAL LAND SURVEYOR
10/5/22

NOTES

1.) RESUMING WORK PRE-CONSTRUCTION STATIONS 313+87, 314+01, 410+77 AND 411+22 WERE INTERPOLATED FOR USE IN VOLUME CALCULATIONS.

LEGEND

- PRE-CONSTRUCTION SURVEY TEMPLATE
- ALIGNMENT M48
- AFTER DREDGE SURVEY
- MCA FILL AREA MATERIAL

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
40' 0' 20' 40'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK ENVIRONMENTAL, INC. MARSH & HABITAT IMPROVEMENTS

MARSH CREATION AREA - INCREMENT 4

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

CROSS-SECTION VIEWS & VOLUME REPORTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg

AD SURVEY FOR MCA_TRANSECTS (10-05-22) GROSS VOLUME			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
0+74.10	0.00	0.00	0.00
1+02.76	0.00	0.00	0.00
1+82.20	0.00	0.00	0.00
7+33.13	3692.68	37674.71	37674.71
14+06.78	3570.63	90609.30	128284.01
20+79.71	1310.55	60827.89	189111.90
30+64.48	1386.27	49180.27	238292.18
40+50.61	1365.50	50252.02	288544.19
50+36.74	1411.27	50708.61	339252.80
60+57.69	1675.81	58365.72	397618.52
70+78.46	2242.60	74070.79	471689.31
80+98.07	1714.96	74725.08	546414.39
88+83.38	2237.65	57481.88	603896.27
96+68.69	2615.52	70578.53	674474.80
104+36.03	1746.53	61984.72	736459.53
104+50.83	999.75	752.43	737211.96
104+53.04	885.66	77.23	737289.19
104+55.53	1014.40	87.51	737376.69
104+70.05	1755.71	744.85	738121.54
105+03.06	3378.96	3139.07	741260.62

AD SURVEY FOR MCA_TRANSECTS (10-05-22) GROSS VOLUME			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
113+65.12	2860.37	99604.78	840865.39
122+77.20	2250.26	86320.09	927185.49
131+88.16	2723.92	83912.47	1011097.96
140+20.54	3137.16	90345.14	1101443.10
148+53.94	2269.73	83446.37	1184889.47
156+87.34	1987.48	65702.98	1250592.45
165+96.44	2735.85	79518.49	1330110.94
175+06.66	1626.17	73525.86	1403636.80
184+16.88	2274.94	65756.79	1469393.59
191+58.42	2362.29	63680.05	1533073.64
198+99.97	2285.73	63828.25	1596901.89
206+30.60	971.25	44067.82	1640969.71
206+38.10	652.13	225.56	1641195.27
206+40.61	552.76	55.83	1641251.09
206+43.11	610.55	53.86	1641304.95
206+50.61	974.23	220.20	1641525.15
206+90.62	2830.29	2819.08	1644344.23
216+42.99	2129.08	87465.47	1731809.70
226+45.37	2497.25	85876.86	1817686.56
236+46.52	2202.40	87131.09	1904817.65

AD SURVEY FOR MCA_TRANSECTS (10-05-22) GROSS VOLUME			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
245+60.07	2423.11	78251.83	1983069.48
254+73.61	3018.83	92063.58	2075133.06
263+86.03	3127.21	103847.72	2178980.79
273+02.59	3395.75	110716.20	2289696.98
282+19.15	4557.26	134988.88	2424685.87
291+34.58	3059.66	129125.84	2553811.71
298+83.93	2466.10	76680.16	2630491.87
306+34.20	3168.18	78282.00	2708773.87
313+67.46	1660.79	65571.80	2774345.67
313+82.10	856.98	682.46	2775028.13
313+84.40	740.21	68.02	2775096.15
313+86.97	0.00	35.25	2775131.40
314+01.47	0.00	0.00	2775131.40
314+34.49	0.00	0.00	2775131.40
323+00.37	0.00	0.00	2775131.40
332+16.26	0.00	0.00	2775131.40
341+31.03	0.00	0.00	2775131.40
350+46.89	0.00	0.00	2775131.40
359+63.88	0.00	0.00	2775131.40
368+80.86	0.00	0.00	2775131.40

AD SURVEY FOR MCA_TRANSECTS (10-05-22) GROSS VOLUME			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
377+16.00	0.00	0.00	2775131.40
385+51.13	0.00	0.00	2775131.40
393+85.24	0.00	0.00	2775131.40
399+69.34	0.00	0.00	2775131.40
405+50.00	0.00	0.00	2775131.40
410+26.85	0.00	0.00	2775131.40
410+76.86	0.00	0.00	2775131.40
411+22.42	0.00	0.00	2775131.40
411+34.34	0.00	0.00	2775131.40

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4786
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

REVISED BY:	DATE:

HYDROTERRA

MARSH CREATION AREA - INCREMENT 1

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

VOLUME REPORTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 27 OF 30



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
10/13/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 10/10/2022 | JOB# 2221011

HYDROTERRA

MARSH CREATION AREA - M48 ALIGNMENT

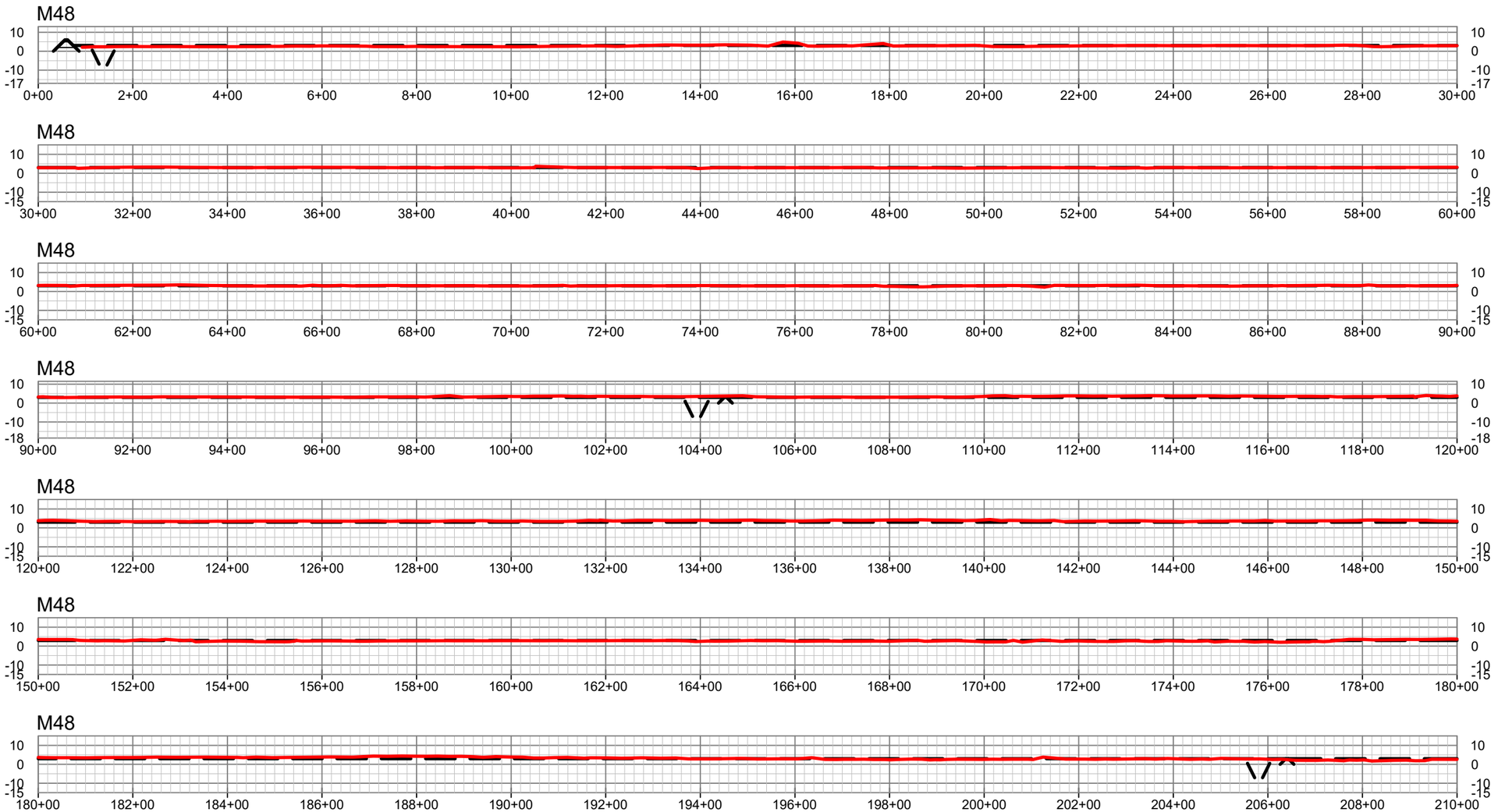
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 28 OF 30



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

NOTES

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- RESUMING WORK PRE-CONSTRUCTION SURVEY

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
50' 0' 25' 50'

DATE: 10/10/2022 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK IMPROVEMENTS

MARSH CREATION AREA - M48 ALIGNMENT

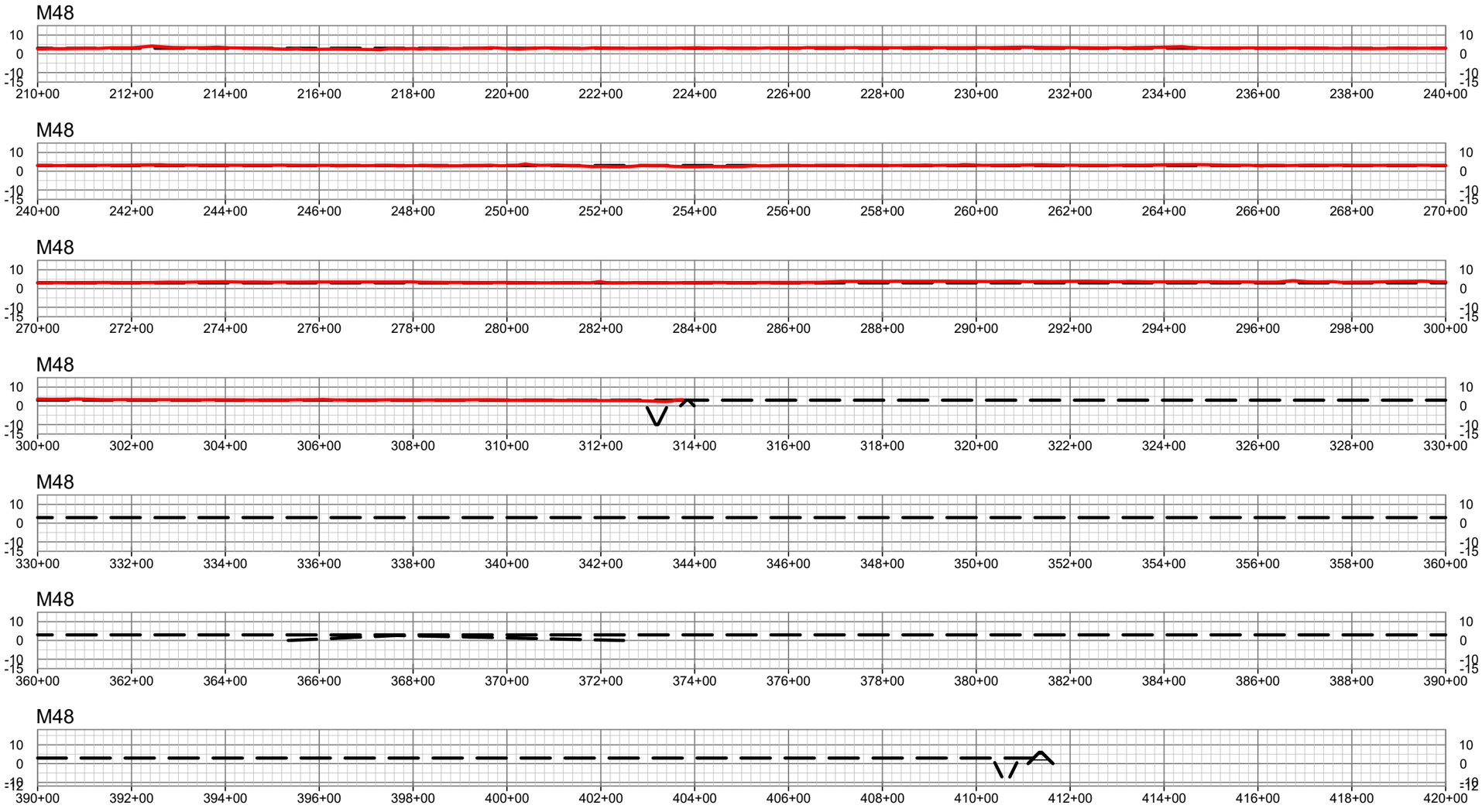
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg



MARSH CREATION AREA - M48 ALIGNMENT

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
10/10/22

NOTES

LEGEND

- PRE-CONSTRUCTION SURVEY
- TEMPLATE
- AFTER DREDGE SURVEY

REVISED BY:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
50' 0' 25' 50'

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

AFTER DREDGE SURVEY (10-05-22)
MARSH CREATION AREA
INCREMENTS 1, 2, 3 AND 4

PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 10/10/2022 | JOB# 2221011 | FILE: Caminada_AD_SURVEY_MCA_TRANSECTS_(10-05-22).dwg | SHEET: 30 OF 30

INDEX TO SHEETS

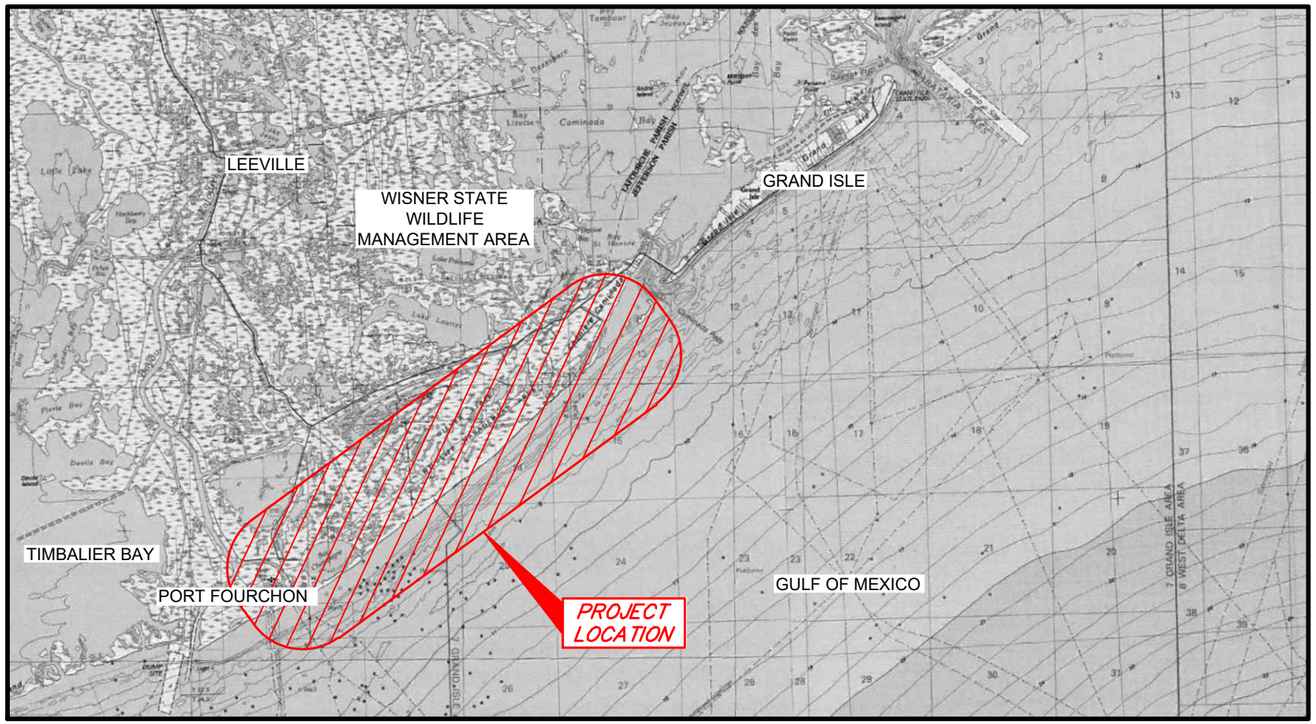
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 12	WEST DREDGE PIPELINE CORRIDOR
13 - 19	EAST DREDGE PIPELINE CORRIDOR

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK AS-BUILT SURVEY (12-13-22) EAST & WEST DREDGE PIPELINE CORRIDORS

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISION NO:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 01/09/2023 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg | SHEET: 1 OF 19

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) .
3. HYDROGRAPHIC SURVEY DATA ACQUISITION PERFORMED WITH AN ODOM MKIII 24kHz TRANSDUCER INTEGRATED WITH RTK.
4. PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON 03-03-22, 03-10-22, 04-13-22, 06-01-22, 06-04-22, 07-07-22, 07-08-22, 07-11-22 AND 07-12-22.
5. AS-BUILT SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHOLOGIES, LLC ON 11-17-22, 11-23-22, 12-12-22, 12-13-22 AND 12-22-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL TRAINING DIKE 3

EARTHEN CONTAINMENT DIKE ALIGNMENT

BAYOU MOREAU

GULF OF MEXICO

INCREMENT 3

50' BEACH AND DUNE CROSSING

EQUIPMENT ACCESS CORRIDOR (EA3)

EAST DREDGE PIPELINE CORRIDOR

EQUIPMENT ACCESS CORRIDOR (EA1)

INTERNAL TRAINING DIKE 2

INCREMENT 2

EQUIPMENT ACCESS CORRIDOR (EA4)

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

50' BEACH AND DUNE CROSSING

DREDGE PIPELINE CORRIDOR

BAYOU LAFOURCHE

PORT FOURCHON MARINA

INCREMENT 1

SW BORROW AREA

WEST DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 01/09/2023 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg | SHEET: 2 OF 19

EQUIPMENT ACCESS CORRIDOR (EAC1)

MARSH CREATION AREA INCREMENT 2

MARSH CREATION AREA INCREMENT 3

MARSH CREATION AREA INCREMENT 4

DPC-1A
DPC-1
DPC-2
DPC-3
DPC-4
DPC-5
DPC-6A
DPC-6
DPC-7
DPC-8

DREDGE PIPELINE CORRIDOR SOUTH

DREDGE PIPELINE CORRIDOR NORTH

SOUTHWEST BORROW AREA

DPC

NORTHEAST BORROW AREA

GULF OF MEXICO

GULF OF MEXICO

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

WEST DREDGE PIPELINE CORRIDOR COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
DPC-1A	-0+91.46	228,111.16	3,654,771.77
DPC-1	0+00.00	228,045.31	3,654,835.25
DPC-2	3+65.37	227,782.25	3,655,088.82
DPC-3	61+43.53	225,993.62	3,660,583.17
DPC-4	86+69.09	224,697.08	3,662,750.53
DPC-5	133+33.85	225,183.19	3,667,389.89

EAST DREDGE PIPELINE CORRIDOR COORDINATES TABLE

NAME	STATION	NORTHING	EASTING
DPC-6A	-0+49.20	237,756.16	3,668,232.33
DPC-6	0+00.00	237,731.57	3,668,274.94
DPC-7	5+30.86	237,466.17	3,668,734.70
DPC-8	93+68.63	233,048.71	3,676,389.25

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4788
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1
EAC2	EQUIPMENT ACCESS CORRIDOR 2
EAC3	EQUIPMENT ACCESS CORRIDOR 3
CD	CONTAINMENT DIKE
SP	SETTLEMENT PLATE
	PROJECT ALIGNMENT/BASELINE
	TEMPLATE
DPC-1	POINT NAME AND POINT
—x—	FENCE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 2000'
2000' 0' 1000' 2000'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

DREDGE PIPELINE CORRIDORS

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 3 OF 19

EQUIPMENT ACCESS CORRIDOR (EAC1)

MARSH CREATION AREA INCREMENT 2

MARSH CREATION AREA INCREMENT 3

MARSH CREATION AREA INCREMENT 4

PL-1 PL-2 PL-3

PL-4 15+92

PL-5 25+92

PL-6 35+92

PL-7 45+92

PL-8 55+92

PL-9 65+90

PL-10 75+90

PL-11 85+90

PL-12 95+90

PL-13 105+90

PL-14 115+90

PL-15 125+90

PL-15A 133+34

WEST DREDGE PIPELINE CORRIDOR

PL-16 PL-17 PL-18 PL-19

6+30

PL-20 16+30

PL-21 26+30

PL-22 36+30

PL-23 46+30

PL-24 56+30

PL-25 66+30

PL-26 76+30

PL-27 86+30

EAST DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

SOUTHWEST BORROW AREA

DPC

NORTHEAST BORROW AREA

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

LEGEND

EAC1	EQUIPMENT ACCESS CORRIDOR 1		PROJECT ALIGNMENT/BASELINE
EAC2	EQUIPMENT ACCESS CORRIDOR 2		TEMPLATE
EAC3	EQUIPMENT ACCESS CORRIDOR 3	x	FENCE
CD	CONTAINMENT DIKE		SURVEY TRANSECT
SP	SETTLEMENT PLATE	PL-4	SURVEY TRANSECT POINT NAME AND POINT
			MARSH CREATION AREA

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 2000'
2000' 0' 1000' 2000'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

DREDGE PIPELINE CORRIDORS

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

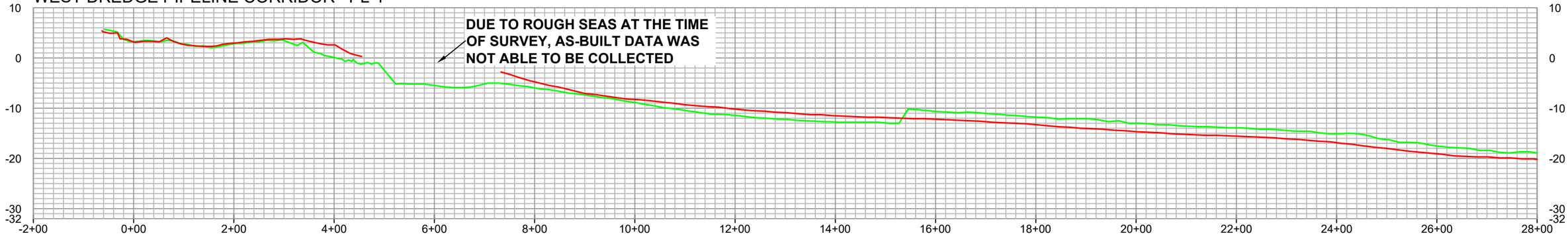
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

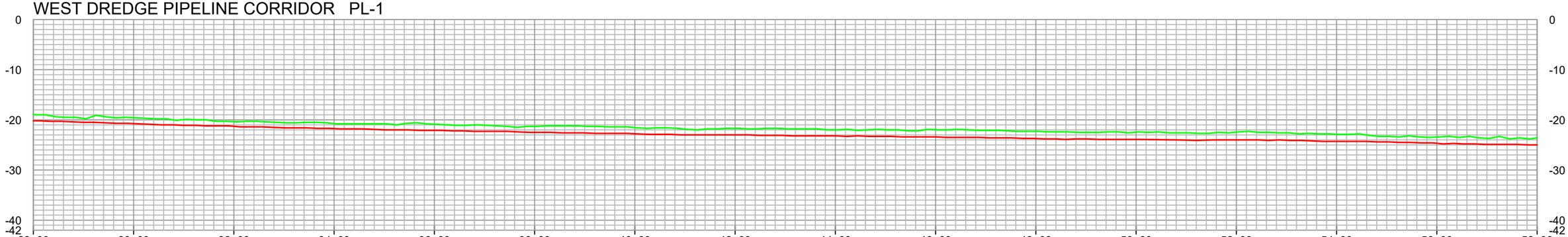
FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 4 OF 19

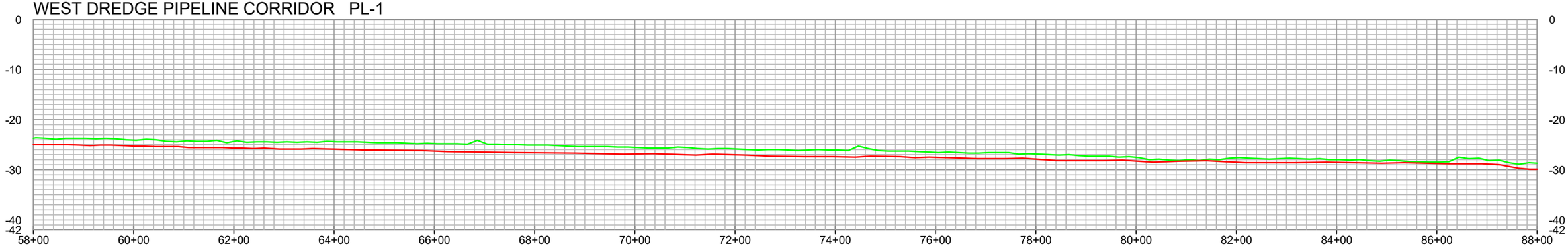
WEST DREDGE PIPELINE CORRIDOR PL-1



WEST DREDGE PIPELINE CORRIDOR PL-1



WEST DREDGE PIPELINE CORRIDOR PL-1



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. P.L.S. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

HYDROTERRA

GREAT LAKES DREDGE & DOCK ENVIRONMENTAL IMPROVEMENTS

WEST DREDGE PIPELINE CORRIDOR

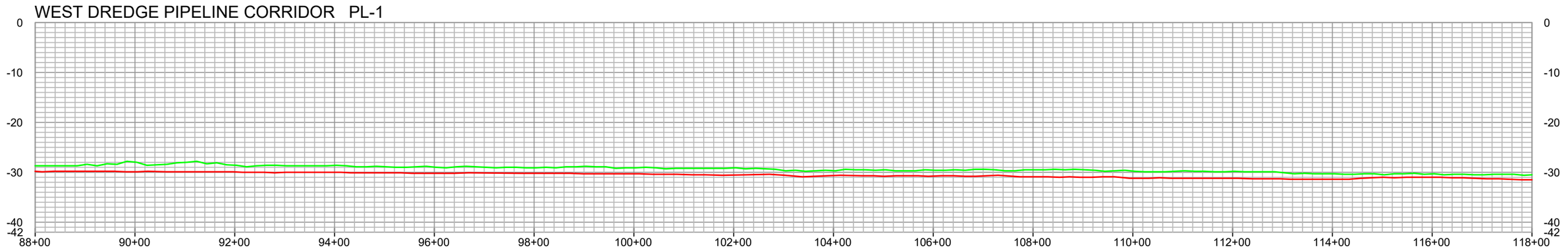
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

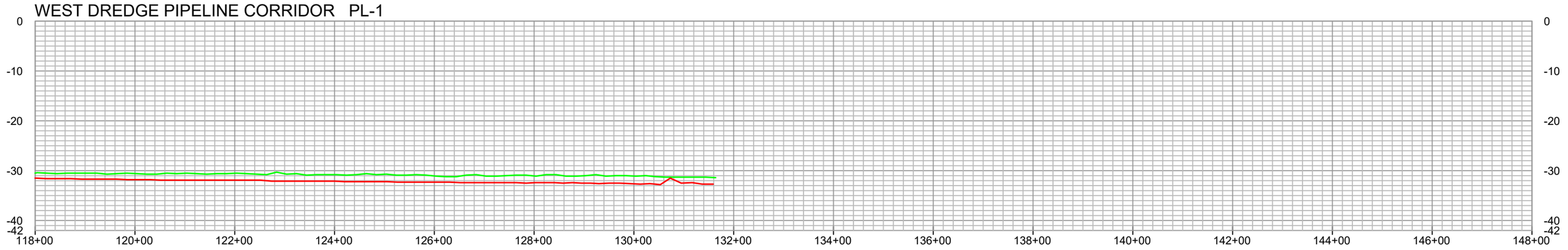
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 01/09/2023 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg | SHEET: 5 OF 19





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

WEST DREDGE PIPELINE CORRIDOR

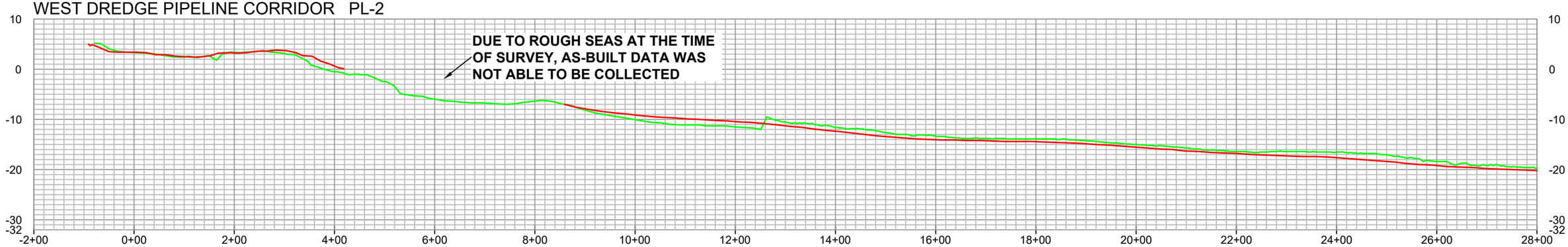
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

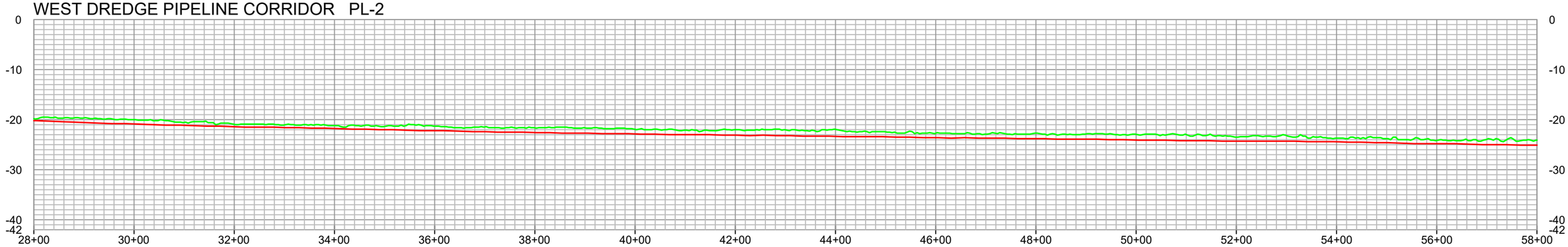
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

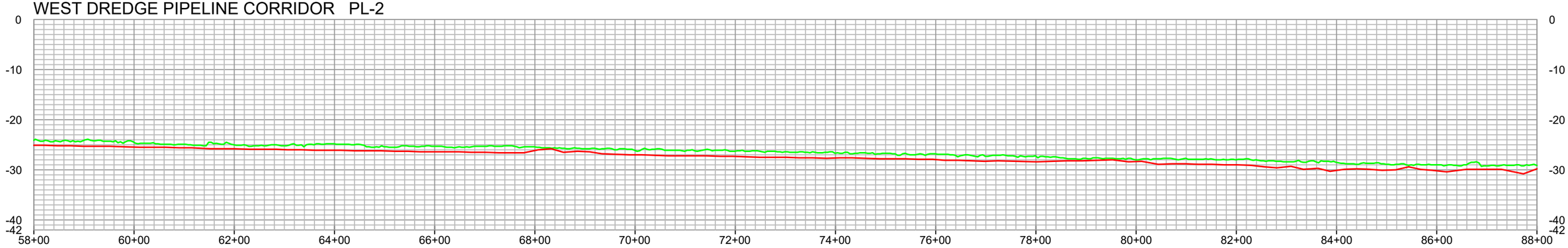
WEST DREDGE PIPELINE CORRIDOR PL-2



WEST DREDGE PIPELINE CORRIDOR PL-2



WEST DREDGE PIPELINE CORRIDOR PL-2



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

WEST DREDGE PIPELINE CORRIDOR

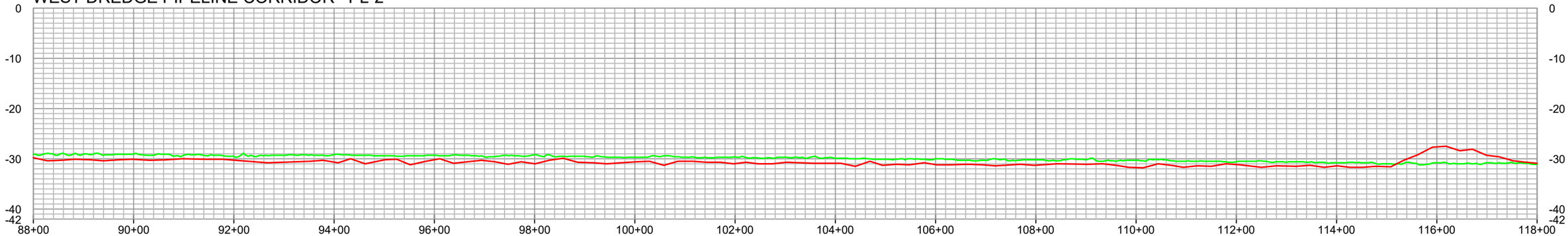
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

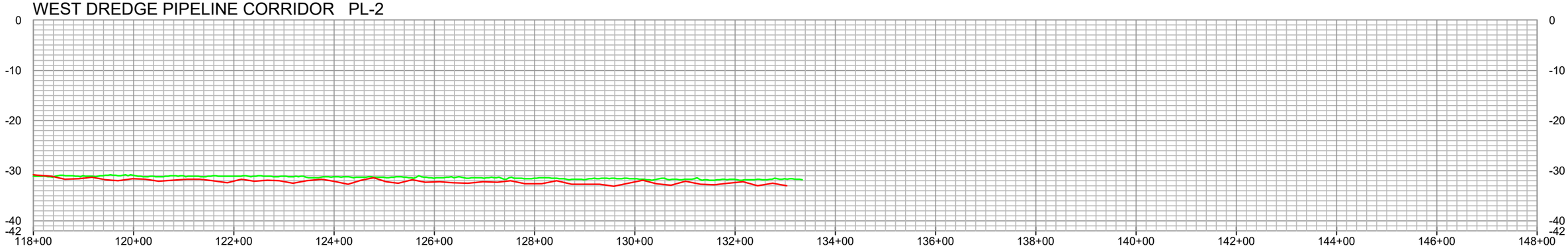
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 7 OF 19





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 | JOB# 2221011

HYDROTERRA

WEST DREDGE PIPELINE CORRIDOR

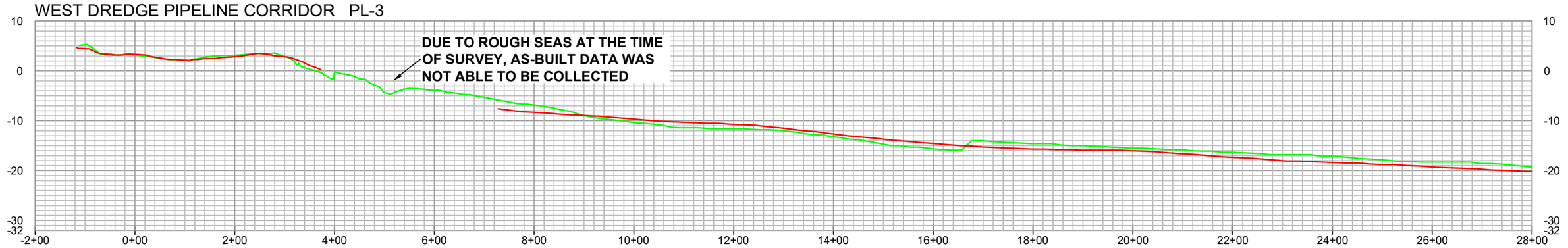
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

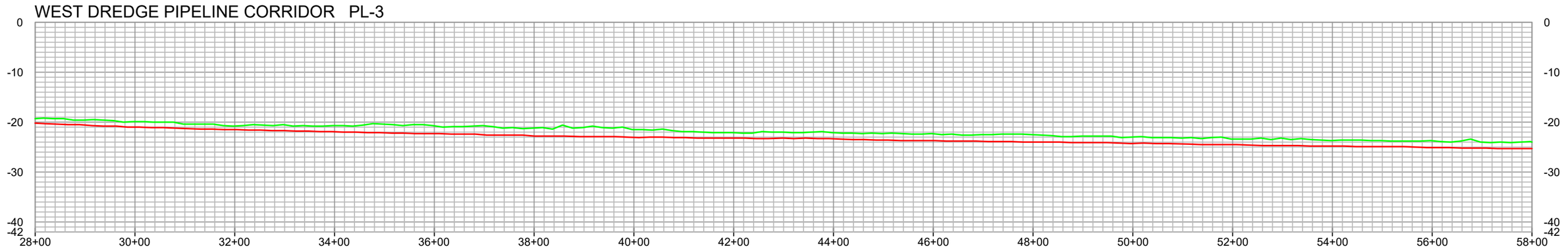
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

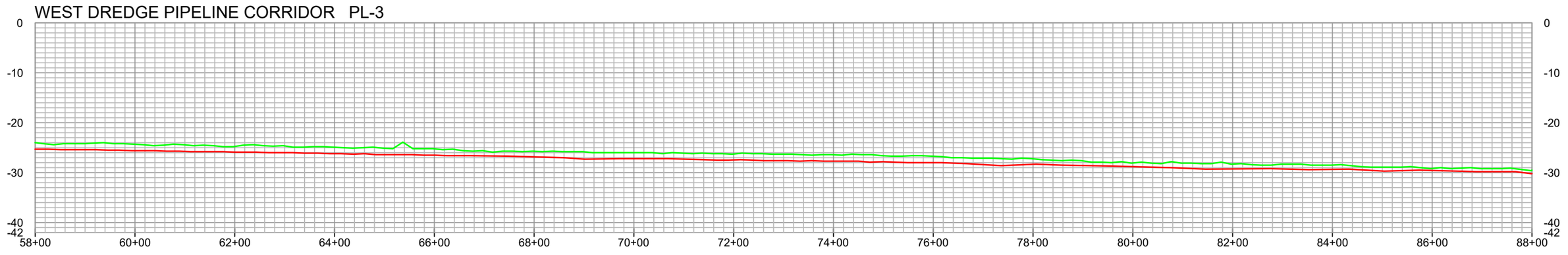
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg







STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

WEST DREDGE PIPELINE CORRIDOR

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

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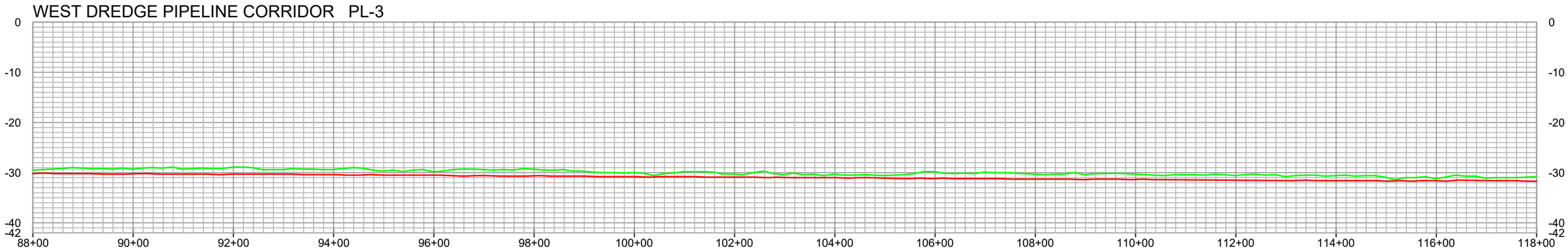
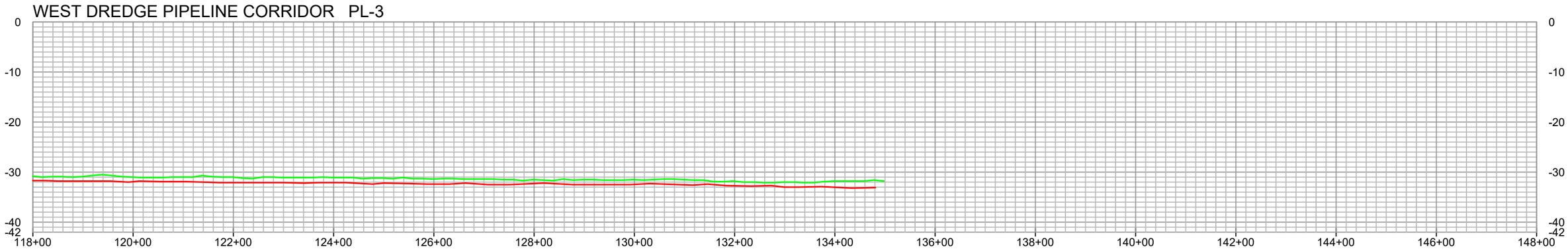




STATE OF LOUISIANA
KEITH J. [illegible]
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK IMPROVEMENTS

WEST DREDGE PIPELINE CORRIDOR

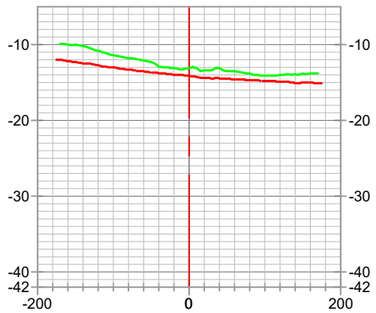
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

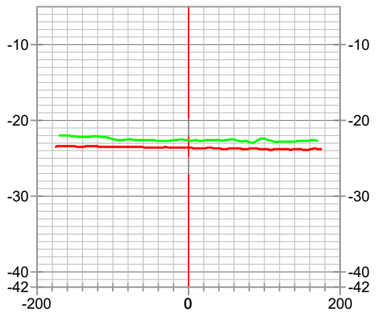
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 10 OF 19



STA. 15+92 **PL4**



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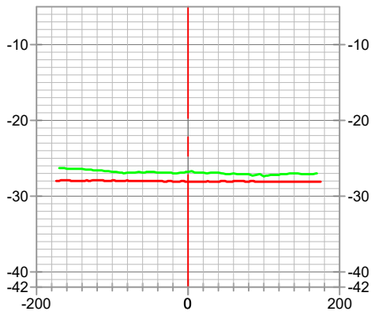

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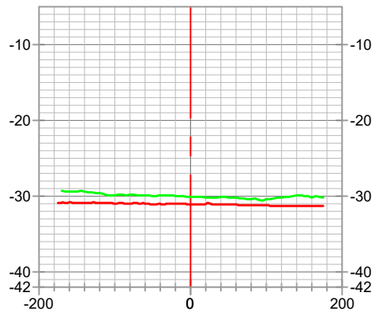

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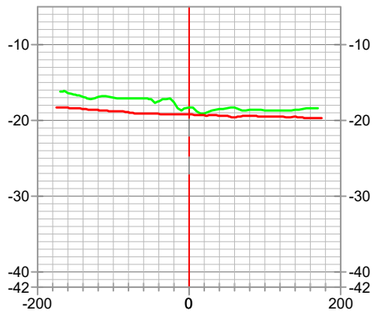
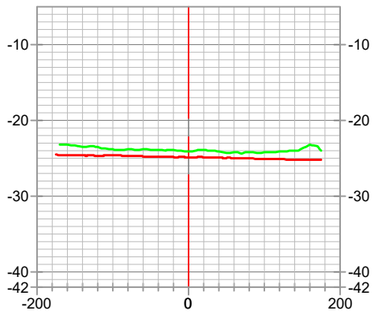


STA. 25+92 **PL5**



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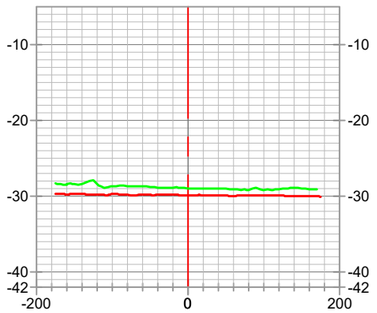

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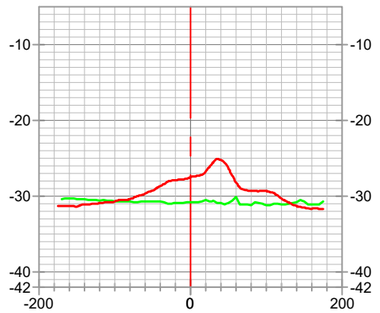
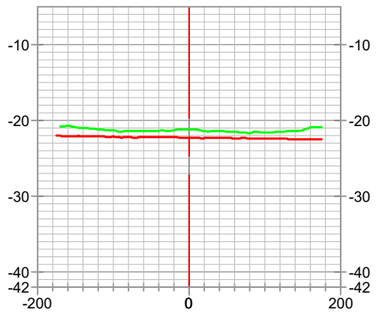
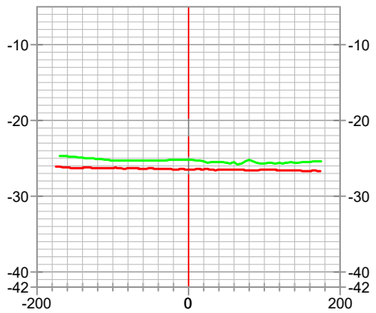


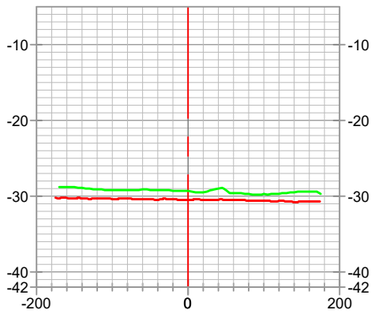
STA. 115+90 **PL14**



STA. 35+92 **PL6**



STA. 65+90 **PL9**



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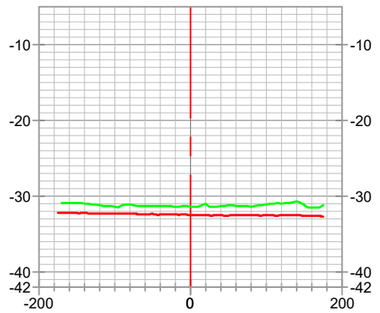


STA. 125+90 **PL15**

WEST DREDGE PIPELINE CORRIDOR

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5178
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

HYDROTERRA

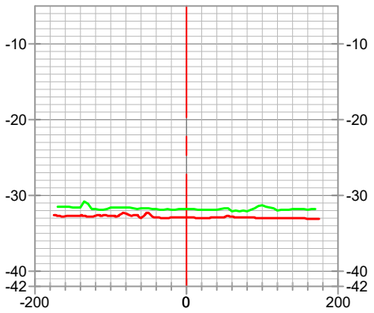
GREAT LAKES DREDGE & DOCK ENVIRONMENTAL, INC. IMPROVEMENTS

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 01/09/2023 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg | SHEET: 11 OF 19



STA. 133+34 **PL15A**

WEST DREDGE PIPELINE CORRIDOR

NOTES	LEGEND
	AS-BUILT SURVEY (12-22-22)
	PRE-CONSTRUCTION SURVEY

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5178
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
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DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

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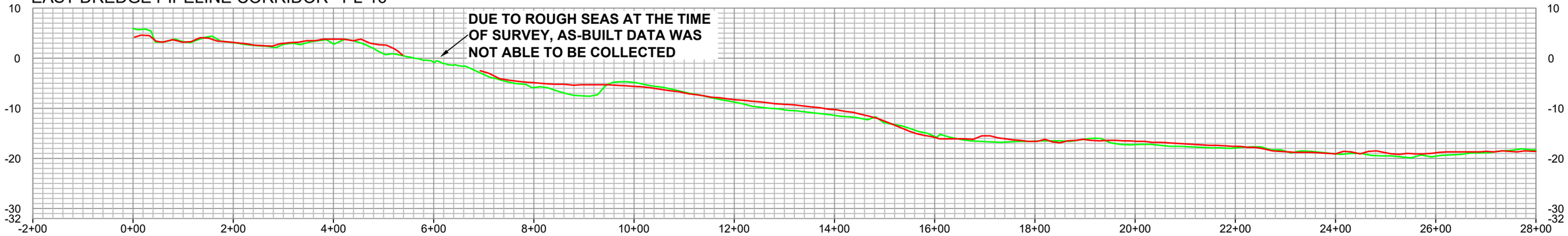
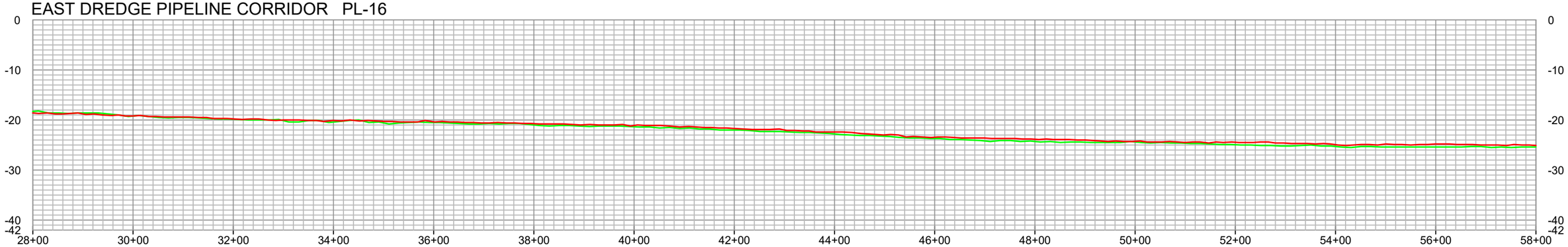
FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

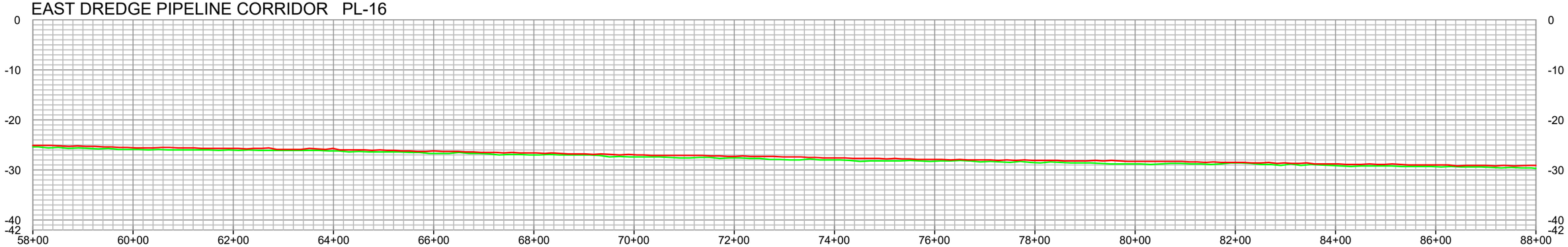
EAST DREDGE PIPELINE CORRIDOR PL-16



EAST DREDGE PIPELINE CORRIDOR PL-16



EAST DREDGE PIPELINE CORRIDOR PL-16



STATE OF LOUISIANA
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01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
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HYDROTERRA

EAST DREDGE PIPELINE CORRIDOR

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
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LAFOURCHE & JEFFERSON PARISHES, LA.

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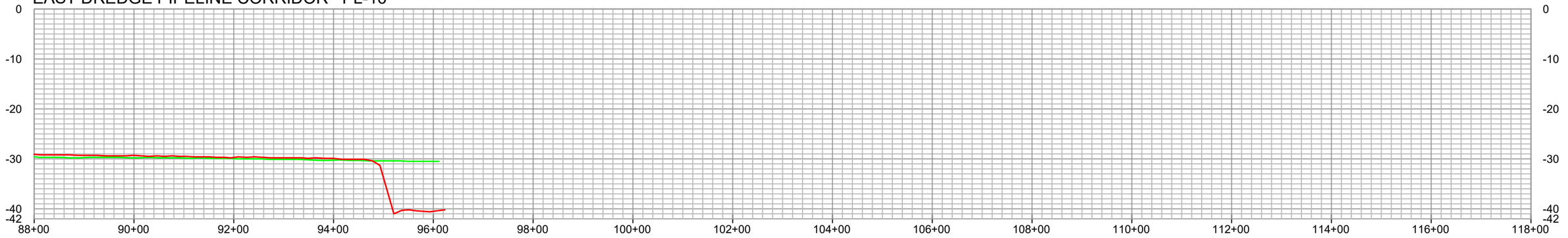
SHEET: 13 OF 19

EAST DREDGE PIPELINE CORRIDOR PL-16



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5178
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
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HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK ENVIRONMENTAL, INC. IMPROVEMENTS

EAST DREDGE PIPELINE CORRIDOR

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

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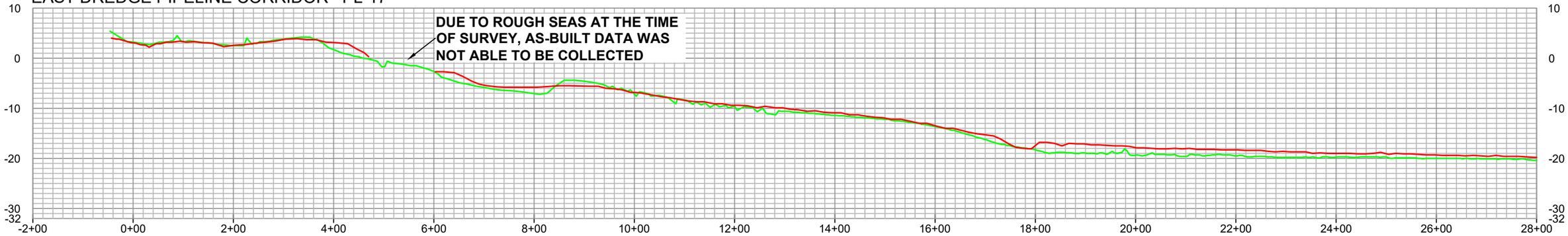
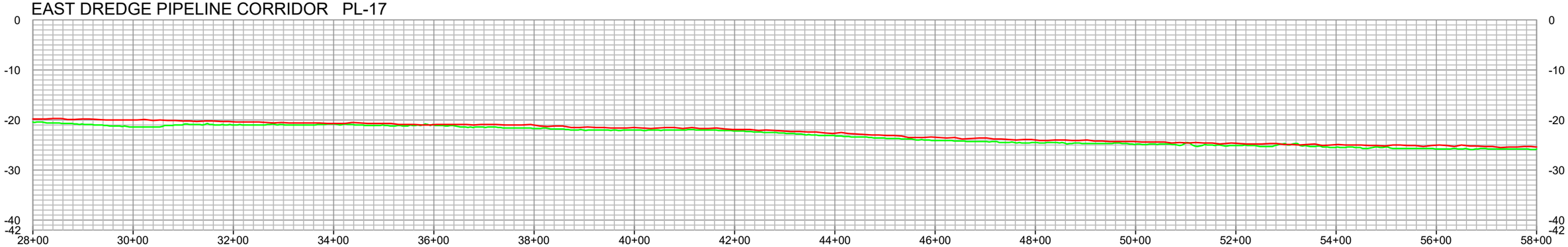
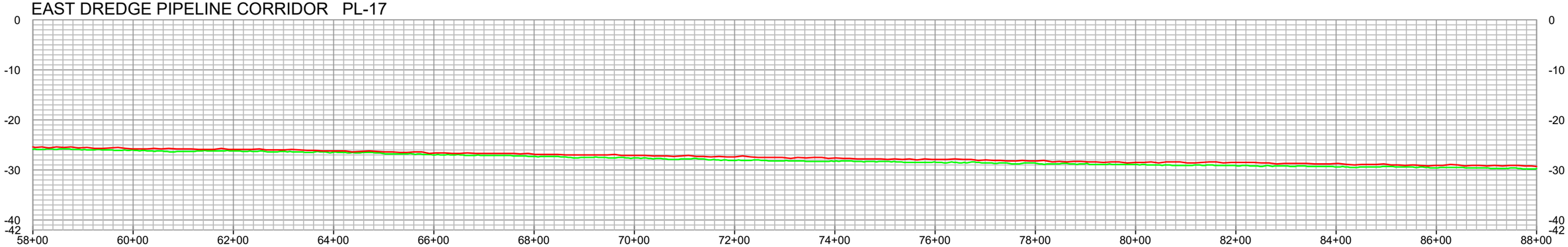
EAST DREDGE PIPELINE CORRIDOR PL-17



EAST DREDGE PIPELINE CORRIDOR PL-17



EAST DREDGE PIPELINE CORRIDOR PL-17



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

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LEGEND

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- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

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VERTICAL SCALE
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HYDROTERRA

EAST DREDGE PIPELINE CORRIDOR

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

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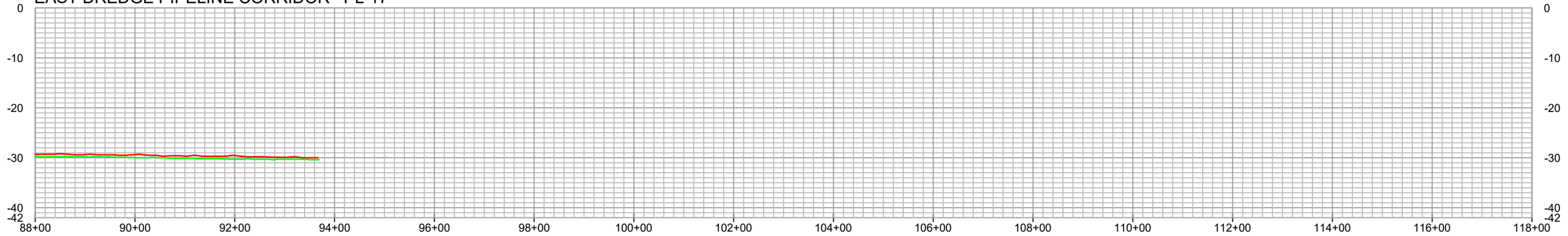
FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 15 OF 19

EAST DREDGE PIPELINE CORRIDOR PL-17



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5178
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

AS-BUILT SURVEY (12-22-22)

PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE

200' 0' 100' 200'

VERTICAL SCALE

20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK ENVIRONMENTAL, INC. IMPROVEMENTS

EAST DREDGE PIPELINE CORRIDOR

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
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LAFOURCHE & JEFFERSON PARISHES, LA.

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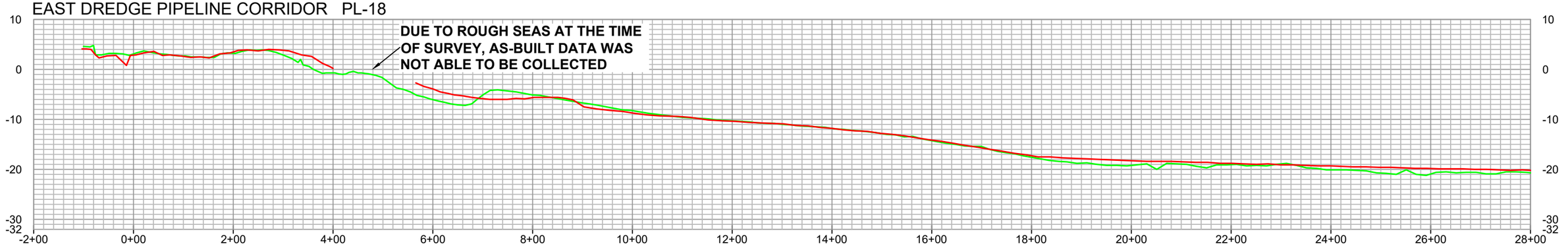

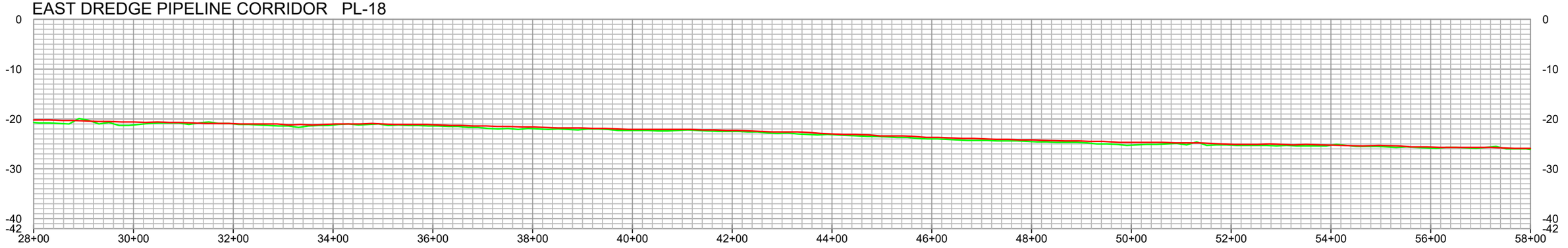

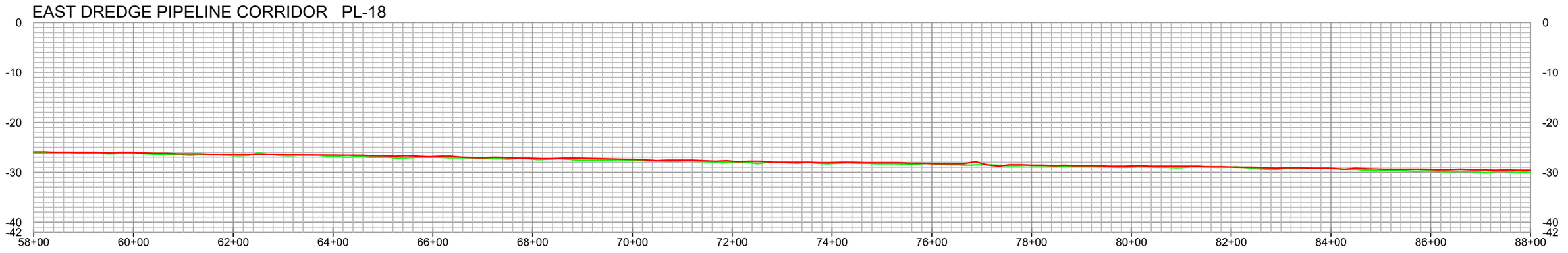

EAST DREDGE PIPELINE CORRIDOR

STATE OF LOUISIANA
KEITH J. [illegible] PLS
REG. NO. [illegible]
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

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200' 0' 100' 200'

VERTICAL SCALE
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DATE: 01/09/2023 JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
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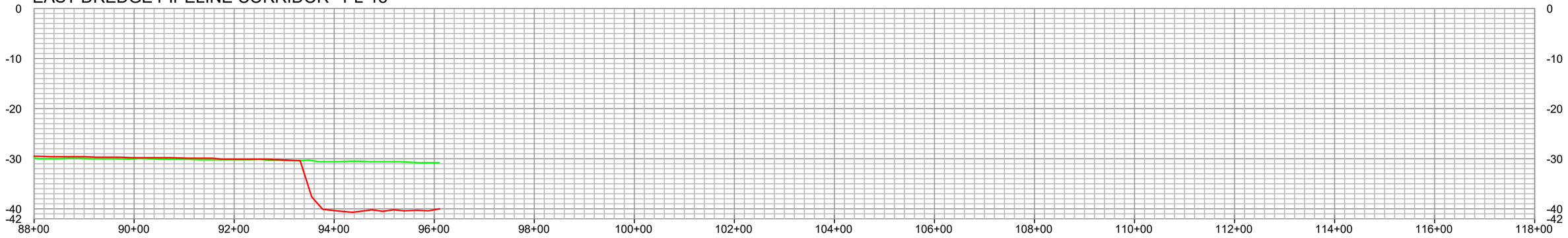
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

EAST DREDGE PIPELINE CORRIDOR PL-18



EAST DREDGE PIPELINE CORRIDOR

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 5178
REGISTERED PROFESSIONAL LAND SURVEYOR
01/09/23

NOTES

LEGEND

AS-BUILT SURVEY (12-22-22)

PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE
200' 0' 100' 200'

VERTICAL SCALE
20' 0' 10' 20'

DATE: 01/09/2023 JOB# 2221011

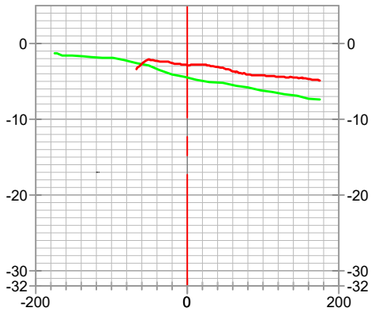
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS
SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

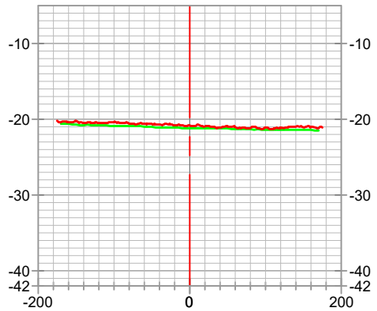
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg

SHEET: 18 OF 19



STA. 6+30 **PL19**



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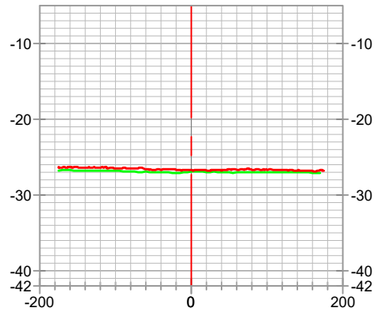
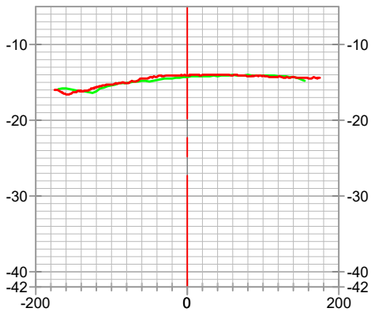
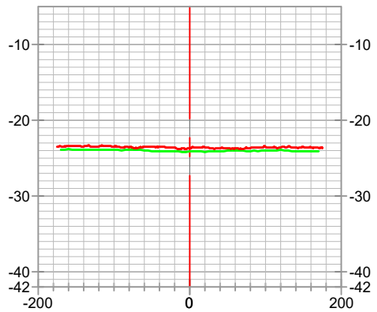


STA. 66+30 **PL25**



STA. 16+30 **PL20**



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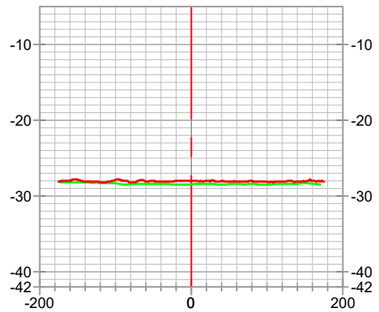
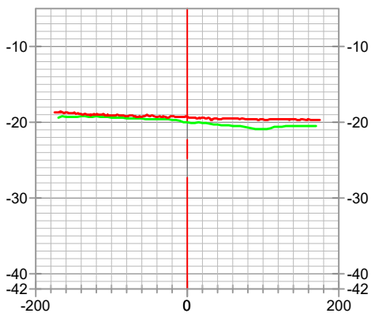
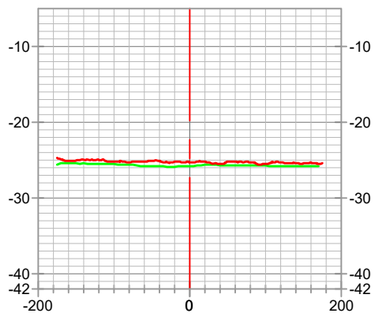


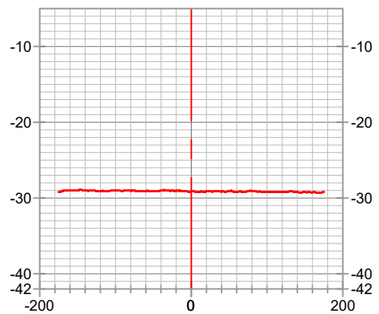
STA. 76+30 **PL26**



STA. 26+30 **PL21**



STA. 56+30 **PL24**



STA. 86+30 **PL27**

EAST DREDGE PIPELINE CORRIDOR



NOTES

LEGEND

- AS-BUILT SURVEY (12-22-22)
- PRE-CONSTRUCTION SURVEY

REVISION NO:	DATE:

HORIZONTAL SCALE

200' 0' 100' 200'

VERTICAL SCALE

20' 0' 10' 20'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

RESUME WORK
AS-BUILT SURVEY (12-22-22)
EAST & WEST DREDGE PIPELINE CORRIDORS

SURVEY TRANSECTS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 01/09/2023 | JOB# 2221011 | FILE: Caminada_RESUME WORK_AS-BUILT_DPC_REV 00.dwg | SHEET: 19 OF 19

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	PLAN VIEW
4 - 5	SURVEY PLAN VIEW

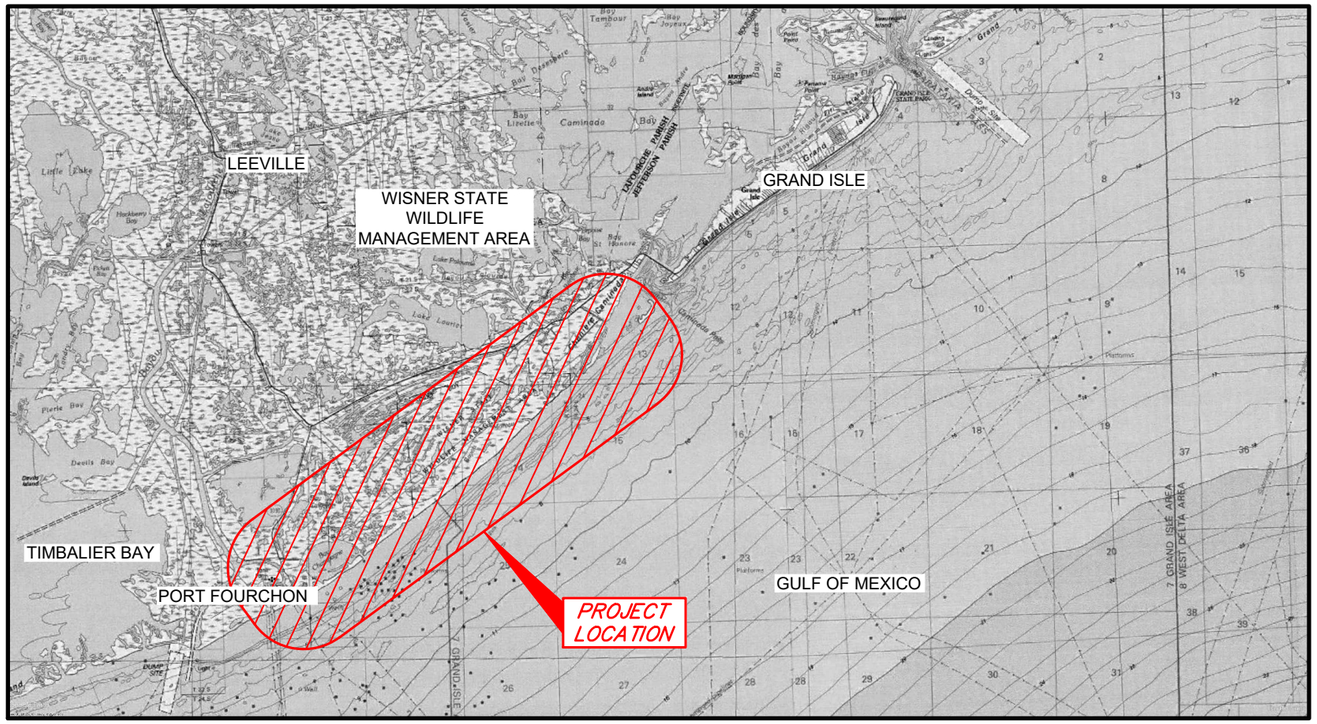
GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

POST HURRICANE IDA LIDAR SURVEY (09-25-21)

PRIMARY AND SECONDARY DEWATERING WEIR BOXES

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL
LAND SURVEYOR
11/10/21

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISION NO:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 11/10/2021 | JOB# 2201045 | FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 1 OF 22

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) .
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. INITIAL SURVEY DATA ACQUISITION WAS PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC ON JUNE 04, 2021.
5. POST HURRICANE IDA LIDAR SURVEY WAS PERFORMED BY SURVTECH SOLUTIONS ON SEPT. 25, 2021.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

PRIMARY DEWATERING WEIRS

INCREMENT 4

INTERNAL TRAINING DIKE 3

EARTHEN CONTAINMENT DIKE ALIGNMENT

BAYOU MOREAU

GULF OF MEXICO

INCREMENT 3

50' BEACH AND DUNE CROSSING

EQUIPMENT ACCESS CORRIDOR (EA3)

DREDGE PIPELINE CORRIDOR NORTH

EQUIPMENT ACCESS CORRIDOR (EA1)

INTERNAL TRAINING DIKE 2

INCREMENT 2

EQUIPMENT ACCESS CORRIDOR (EA4)

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

50' BEACH AND DUNE CROSSING

PORT FOURCHON MARINA

BAYOU LAFOURCHE

INCREMENT 1

SW BORROW AREA

DREDGE PIPELINE CORRIDOR SOUTH

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA
- PRIMARY DEWATERING WEIRS
- SECONDARY DEWATERING WEIRS

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 11/10/2021 JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

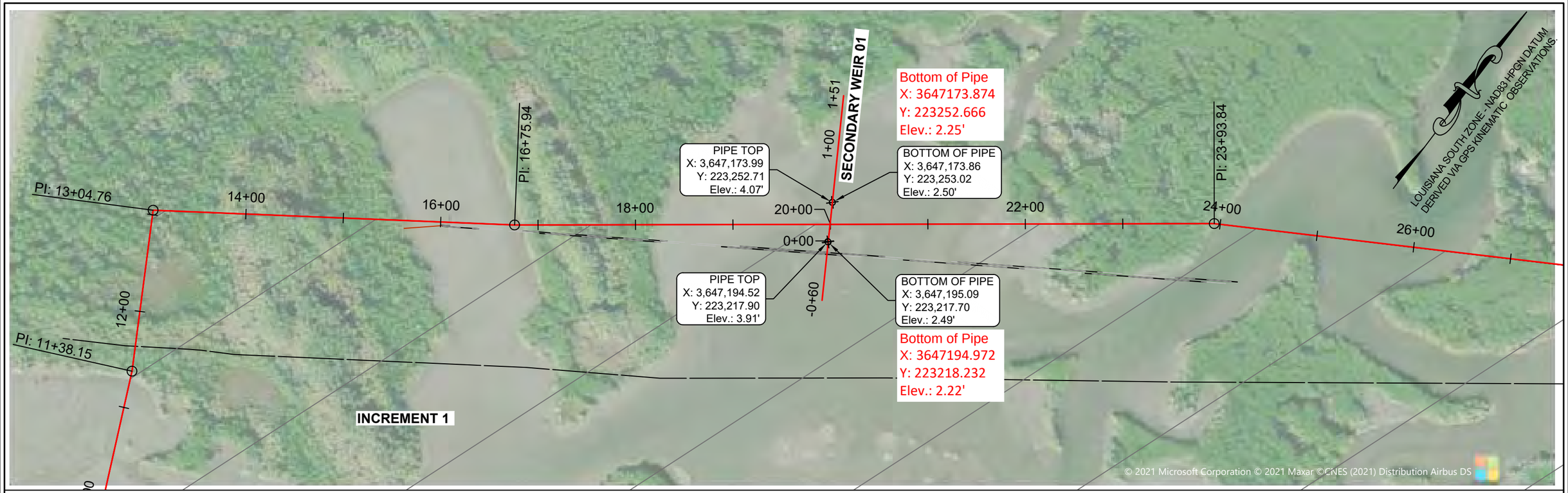
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

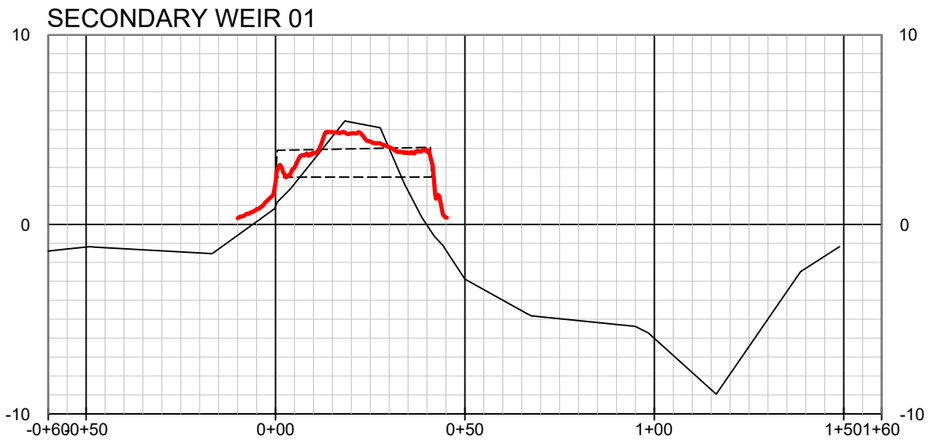
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 2 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

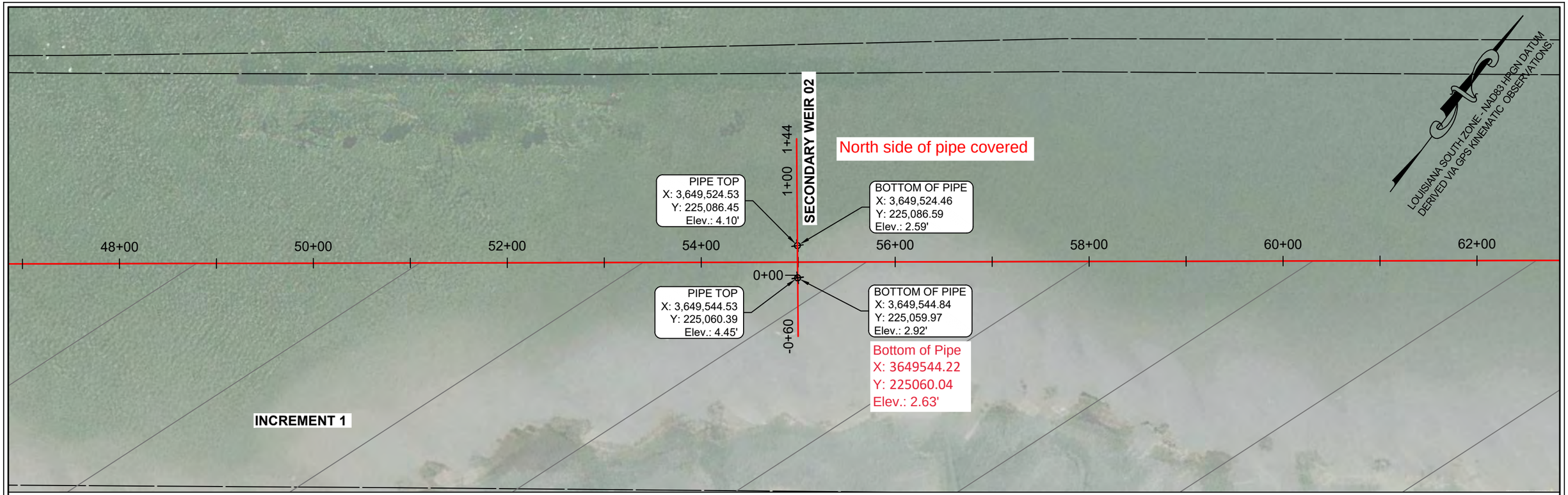
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

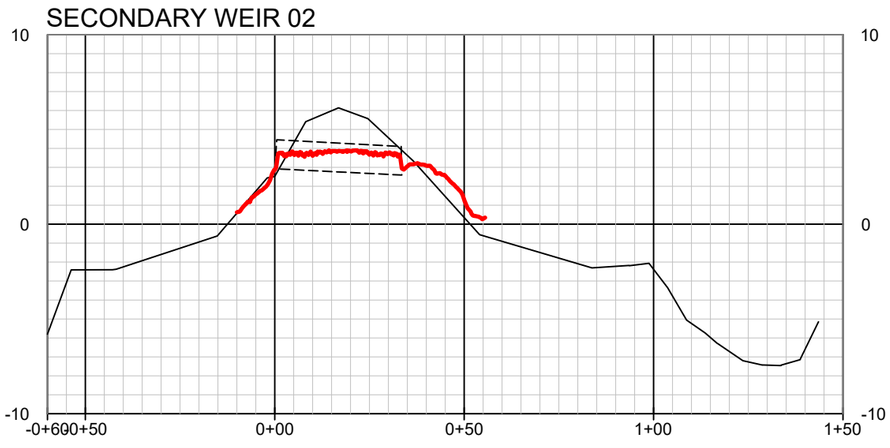
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 01 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

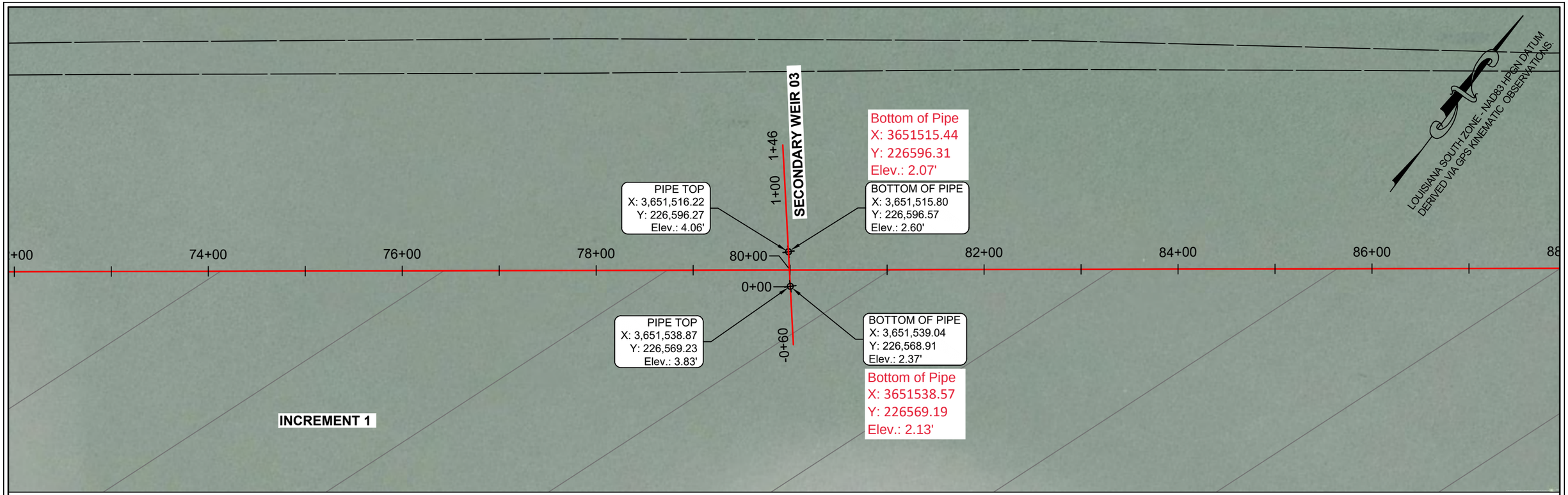
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

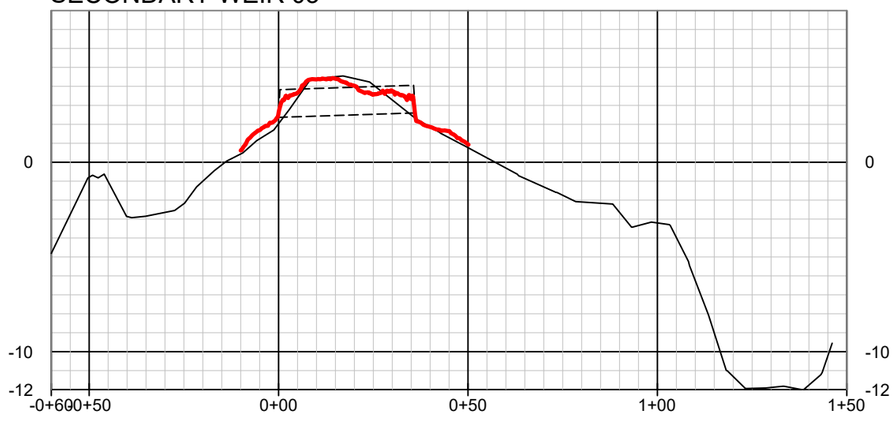
SECONDARY WEIR 02 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg



SECONDARY WEIR 03



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

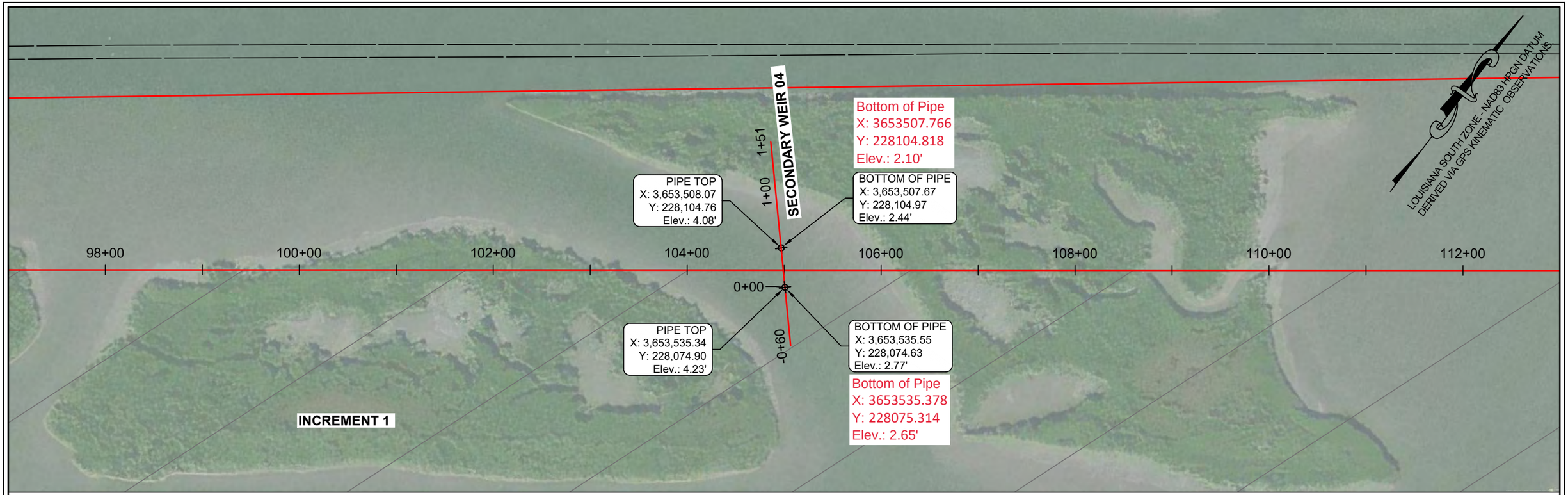
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

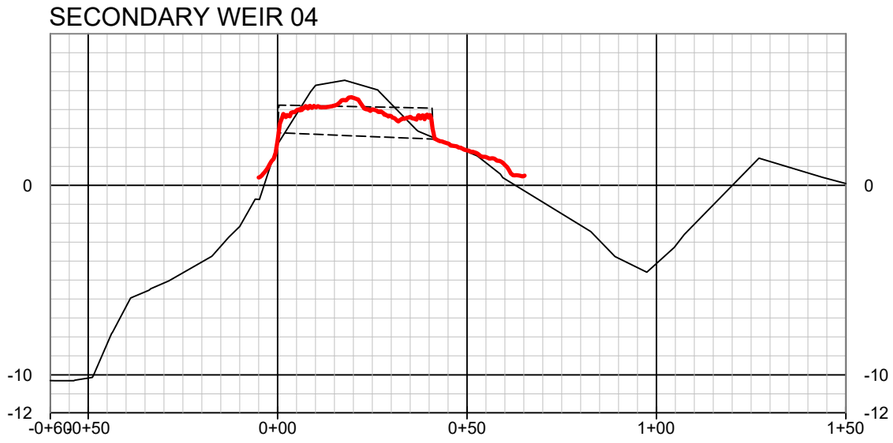
SECONDARY WEIR 03 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 5 OF 22







LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

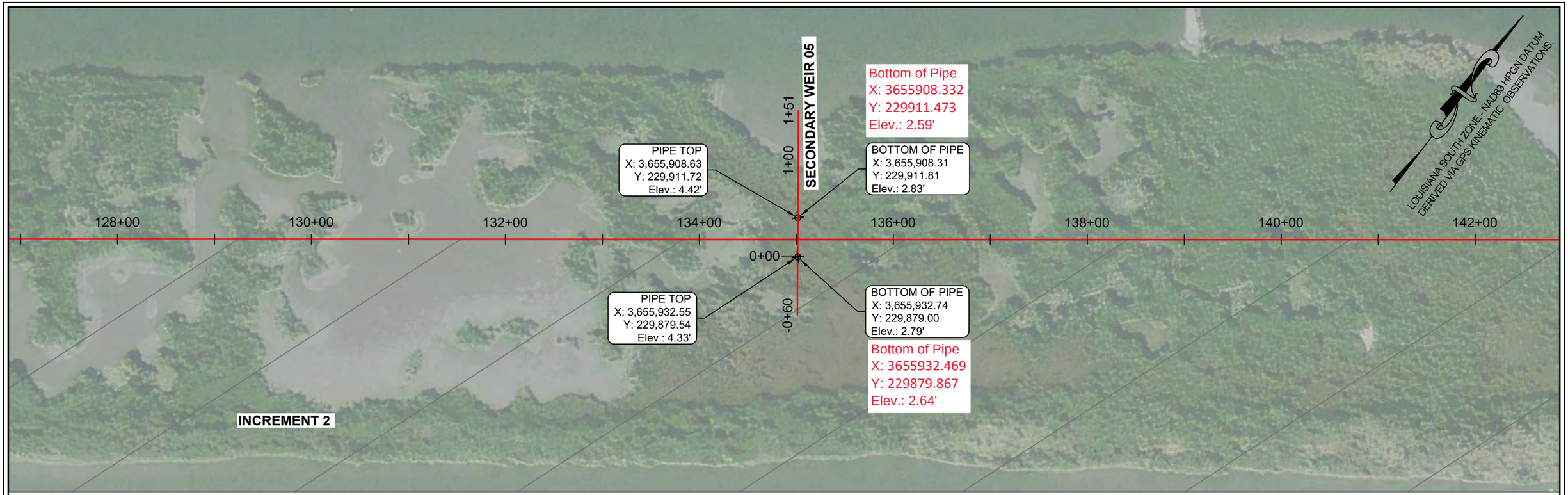
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

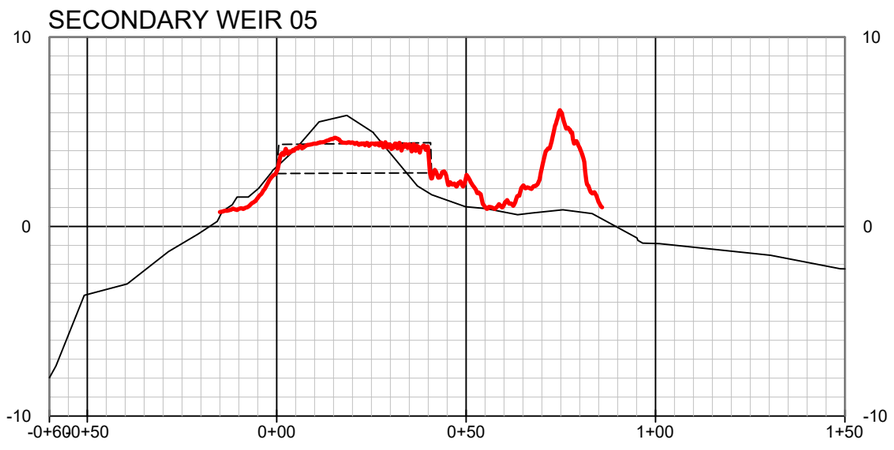
SECONDARY WEIR 04 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 6 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

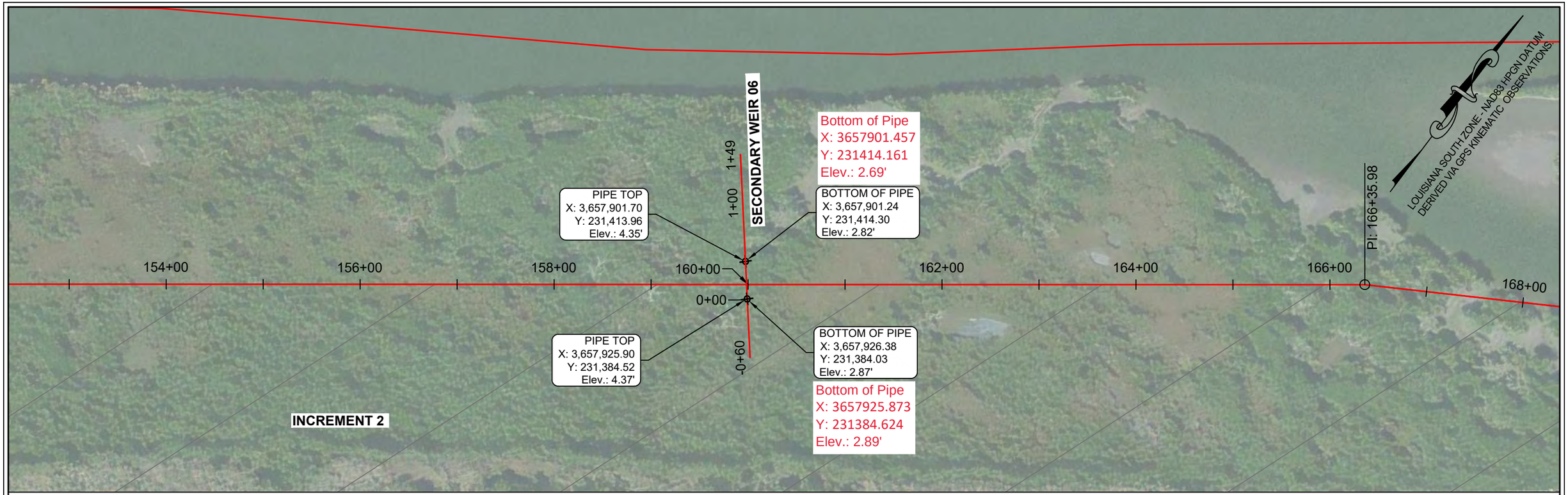
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

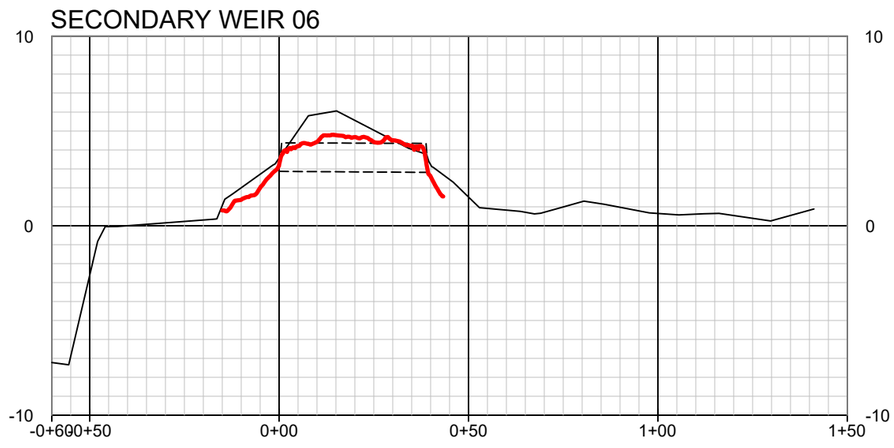
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 05 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 7 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 JOB# 2201045

HYDROTERRA

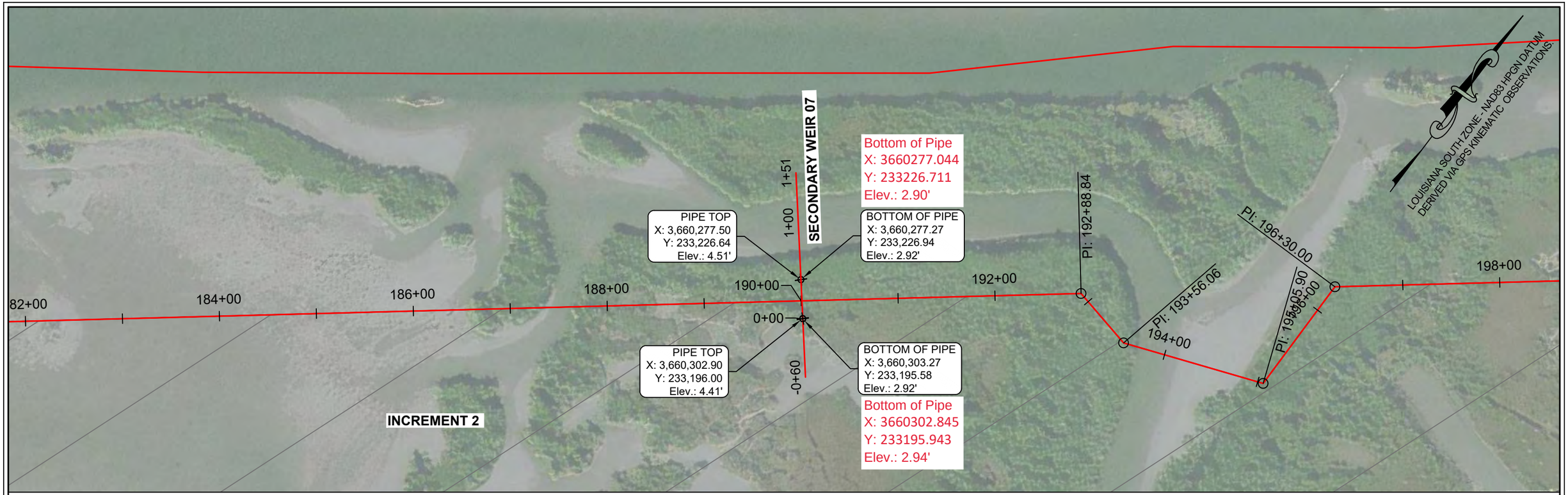
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)

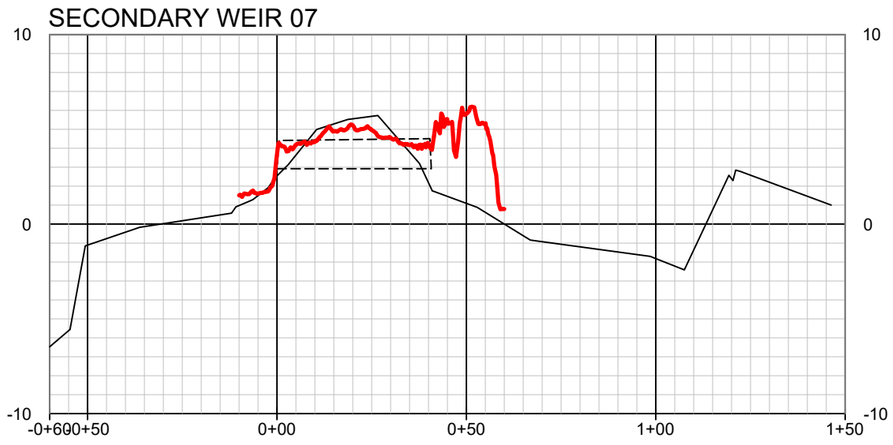
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 06 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg







LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

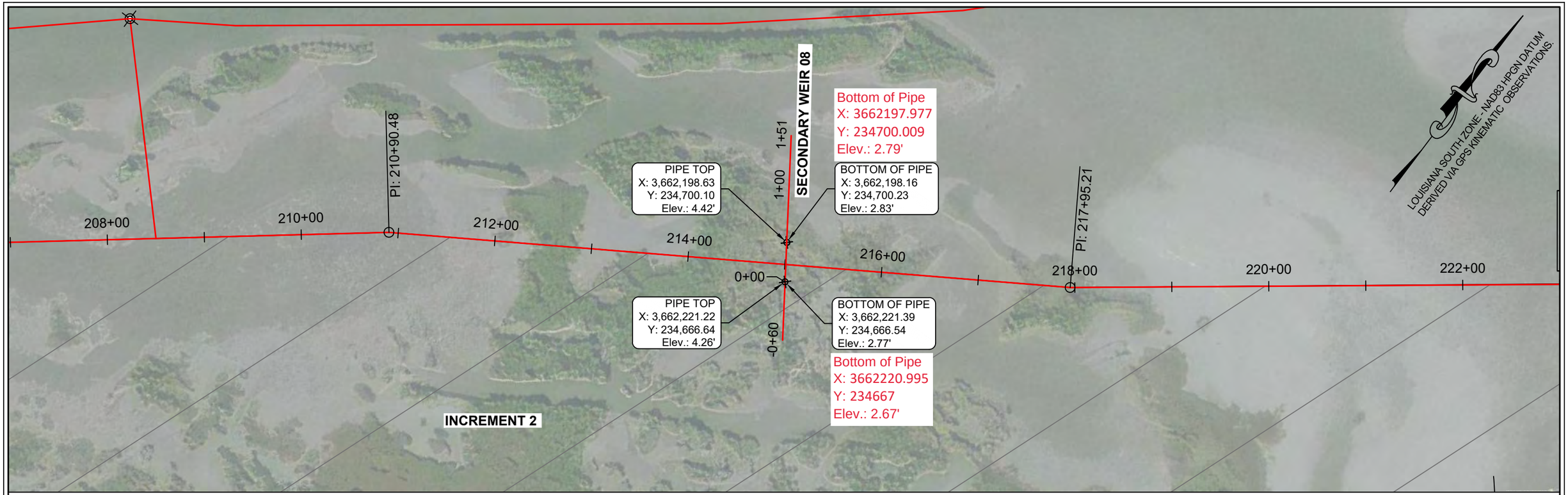
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

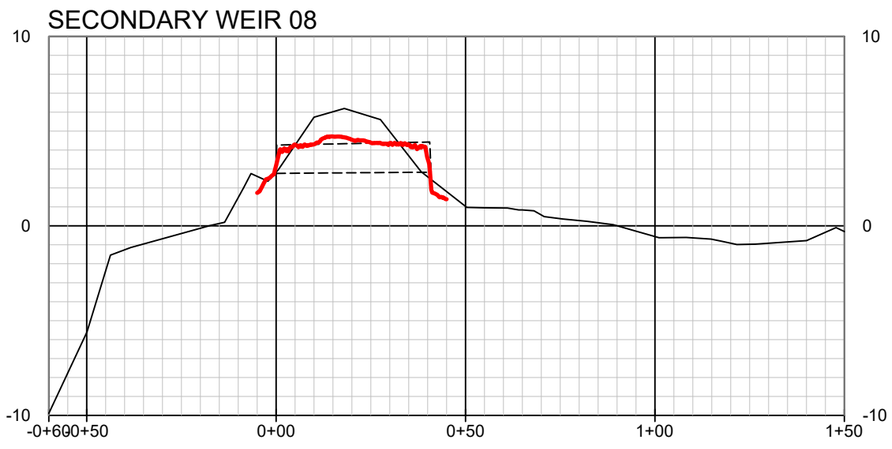
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 07 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg





KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF LOUISIANA
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

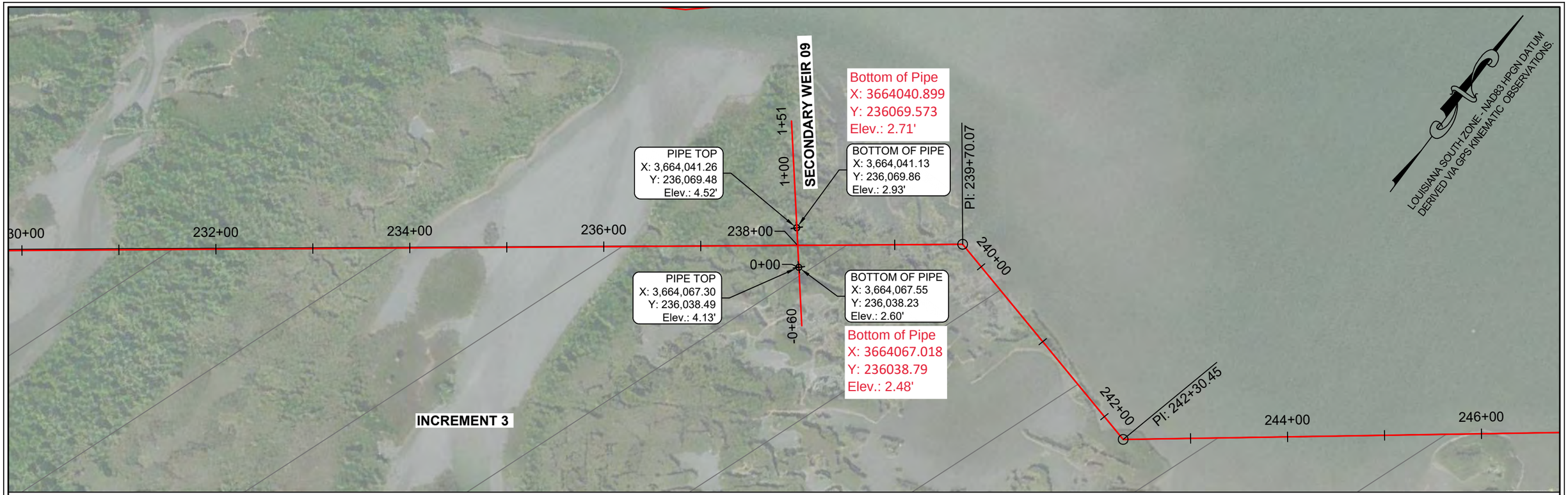
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

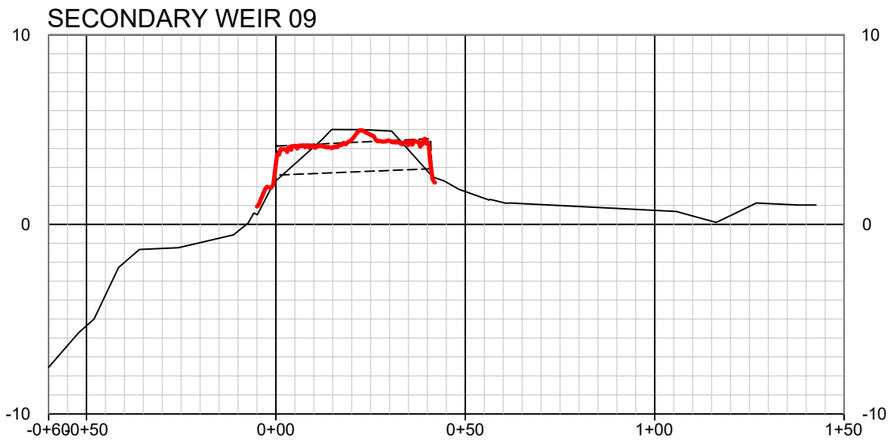
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 08 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 10 OF 22





KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF LOUISIANA
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

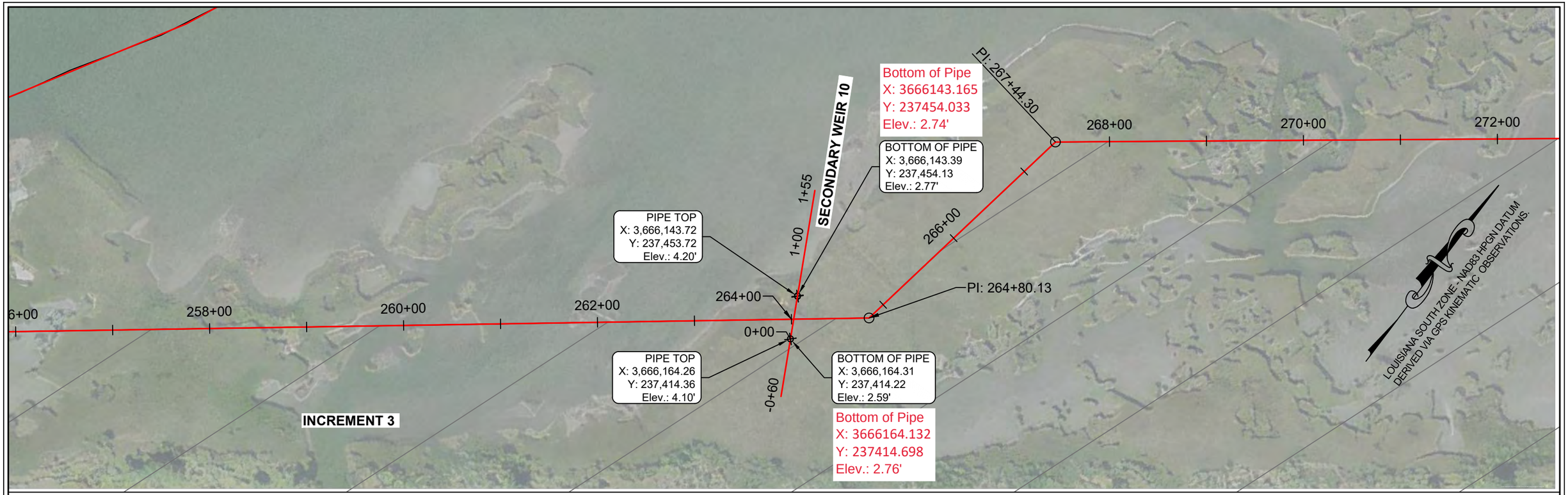
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

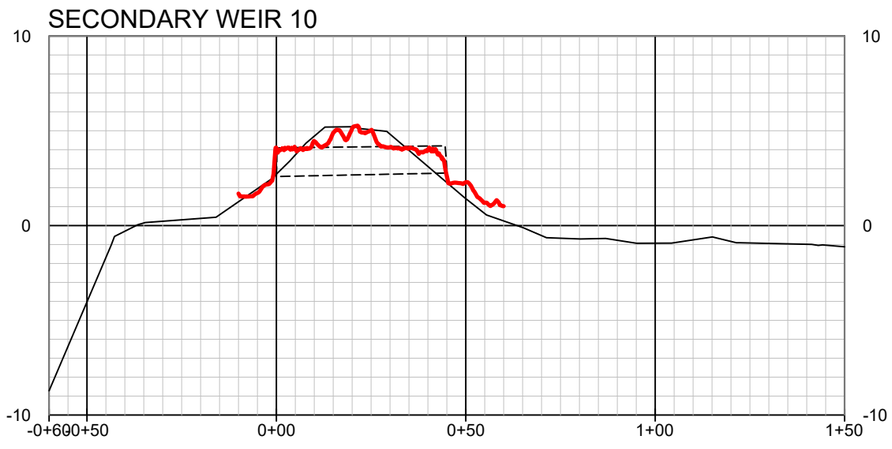
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 09 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 11 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. N0. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

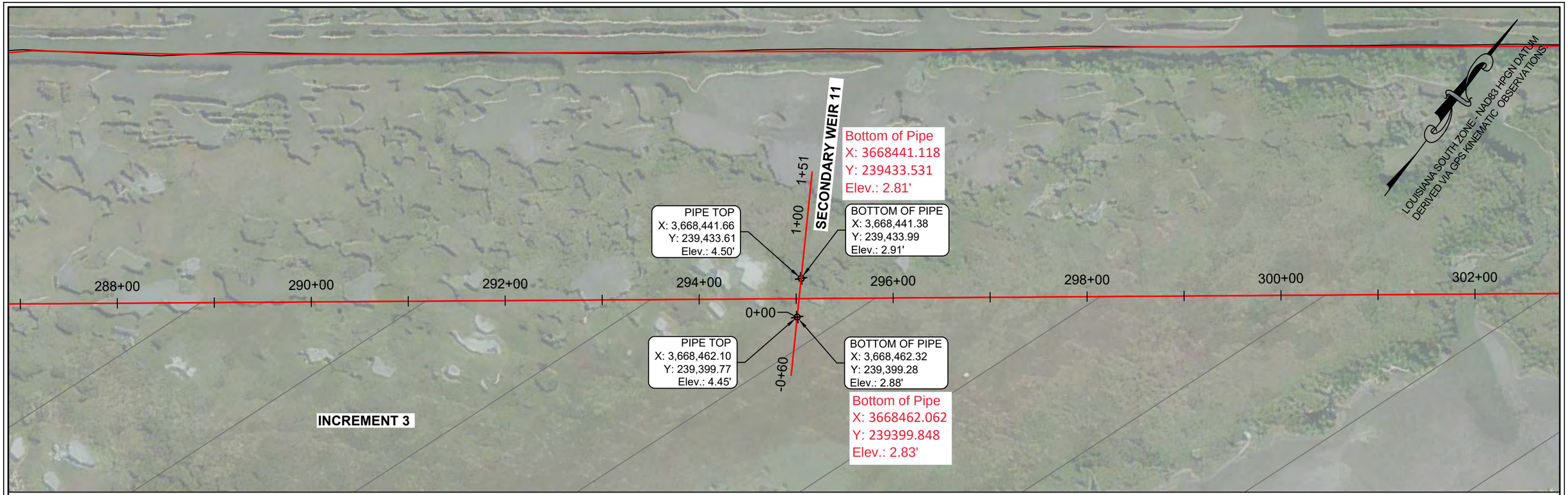
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

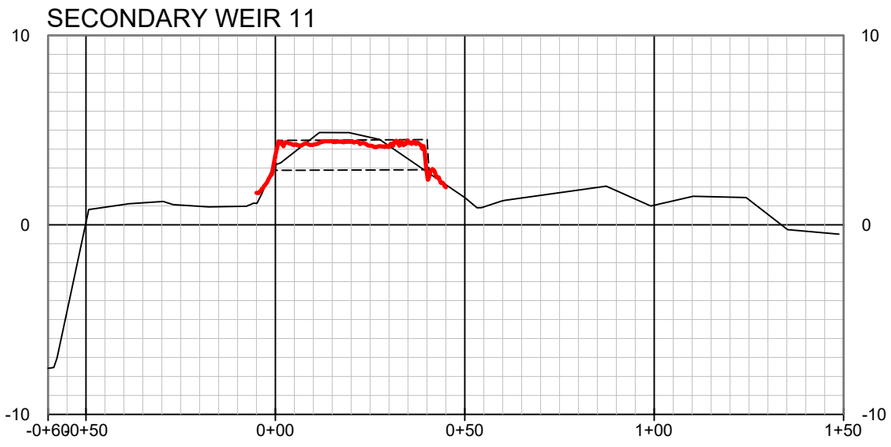
FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 12 OF 22

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 10 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 11 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

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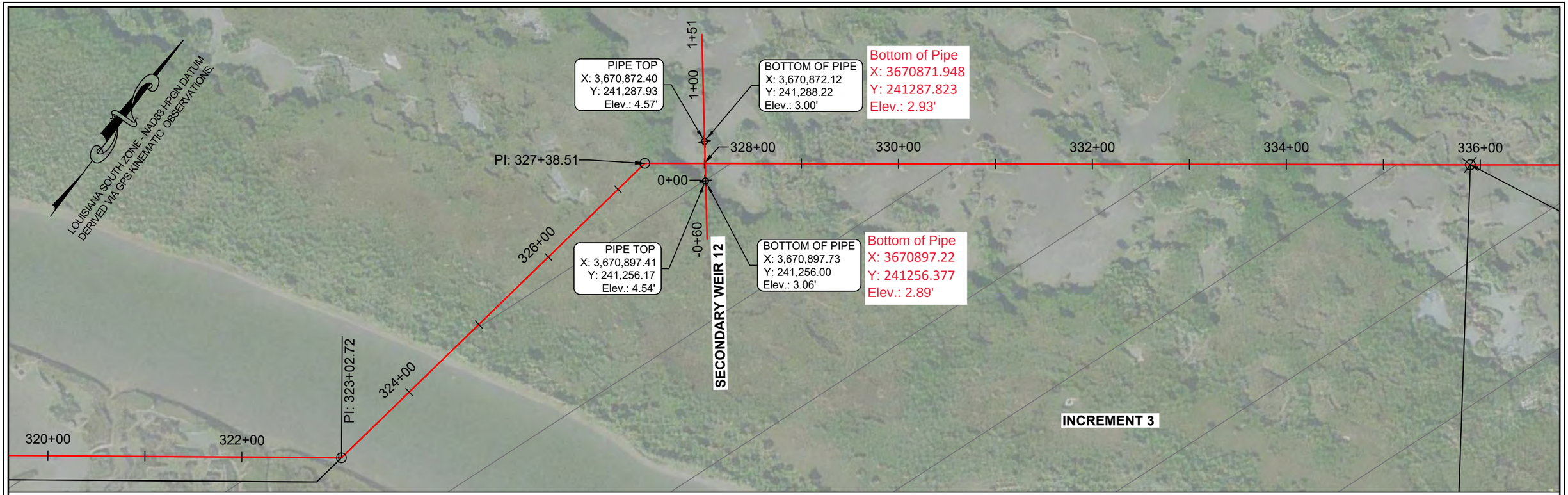
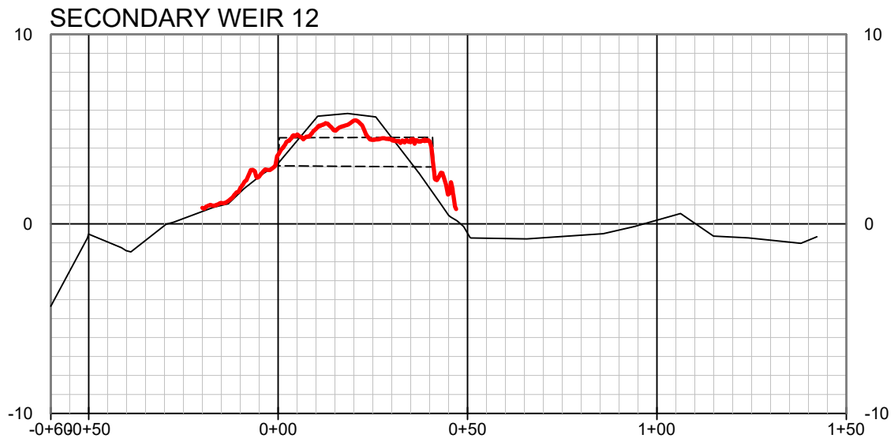
FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 13 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

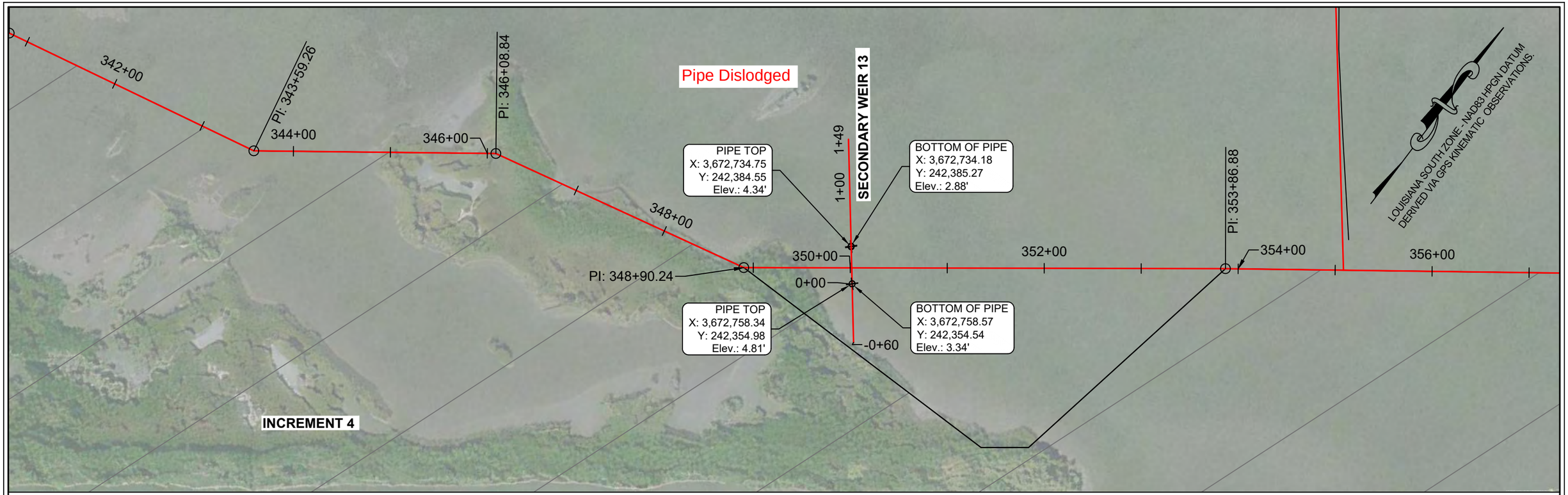
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

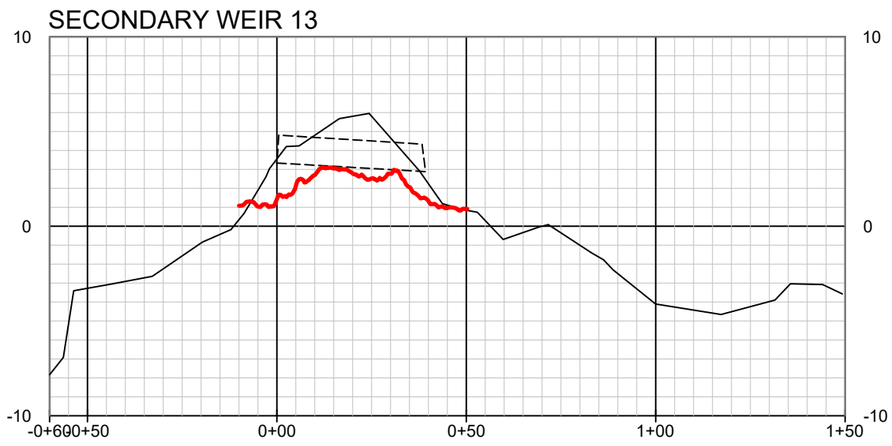
SECONDARY WEIR 12 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 14 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

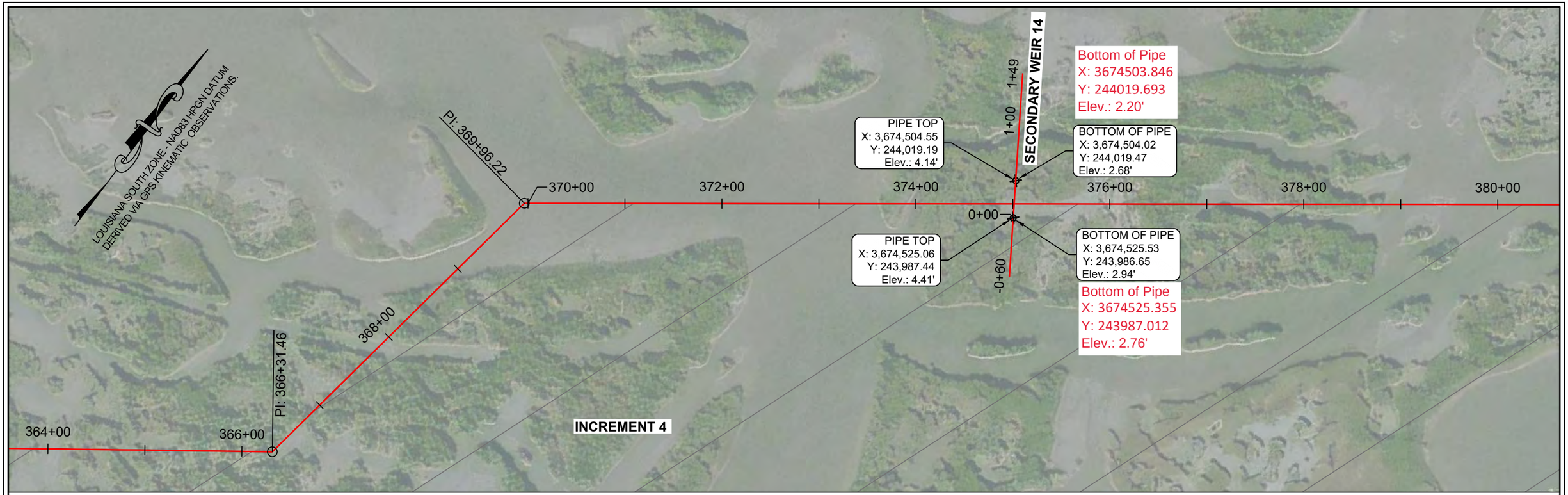
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

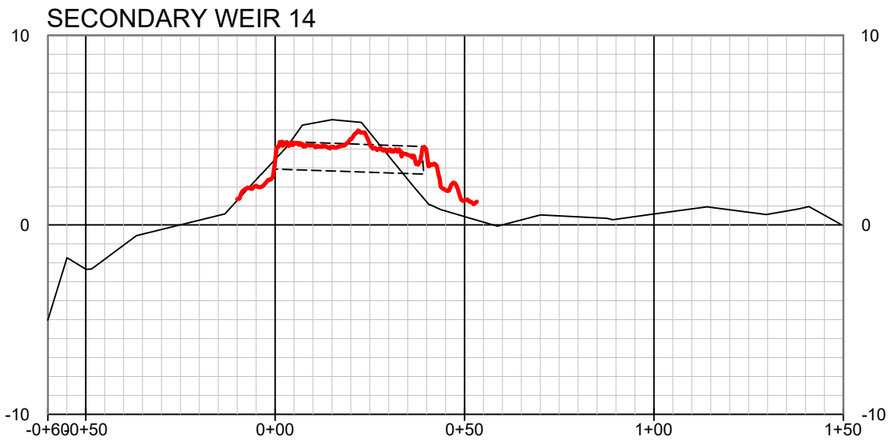
SECONDARY WEIR 13 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 15 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

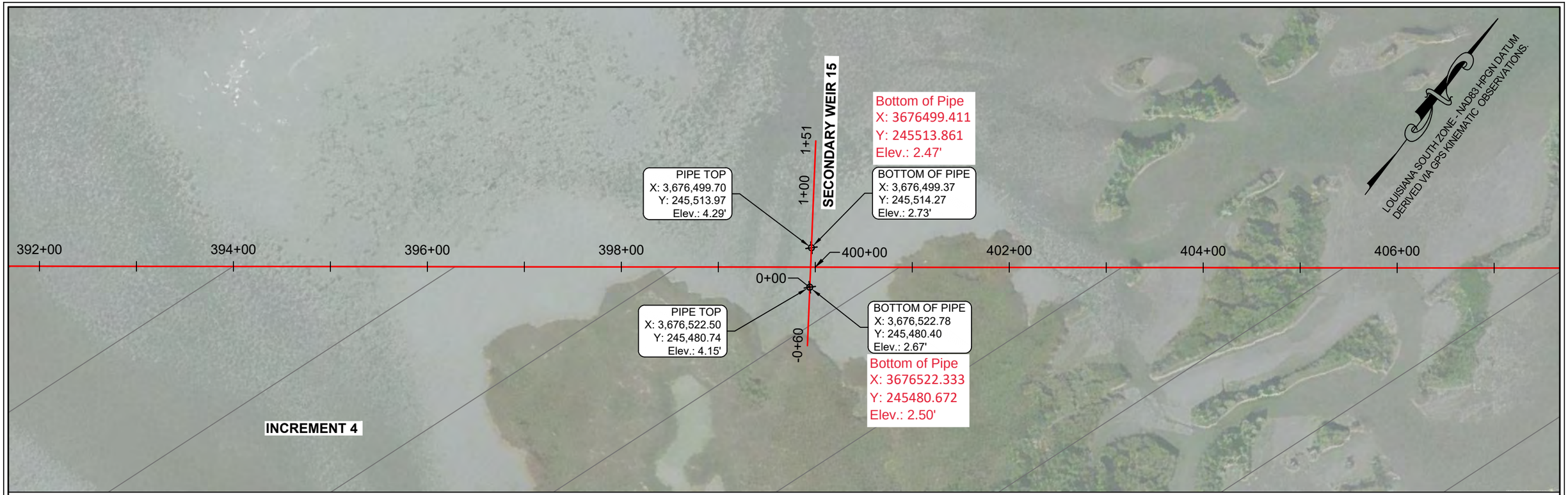
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

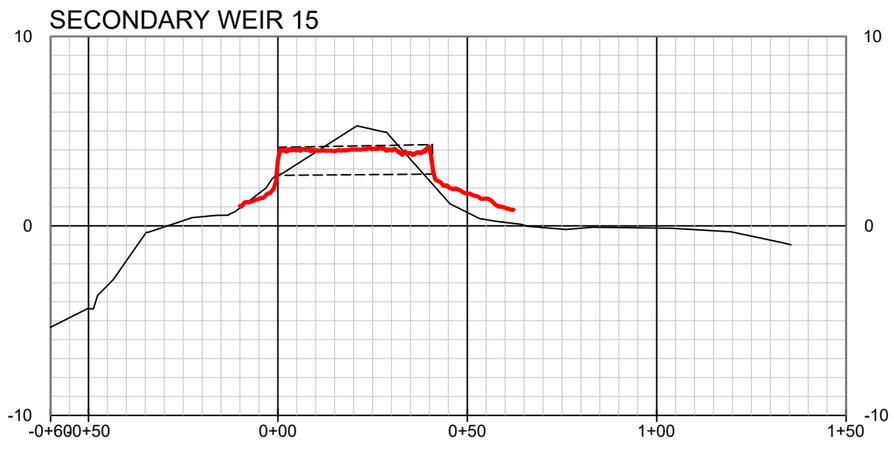
SECONDARY WEIR 14 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg

SHEET: 16 OF 22







LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

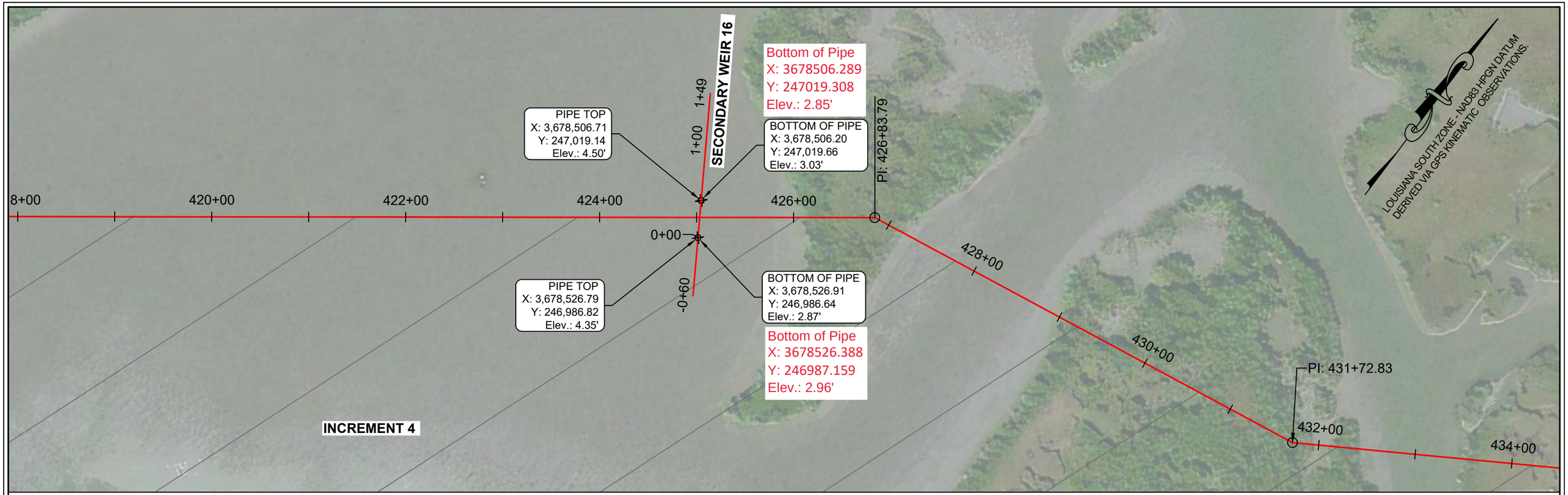
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

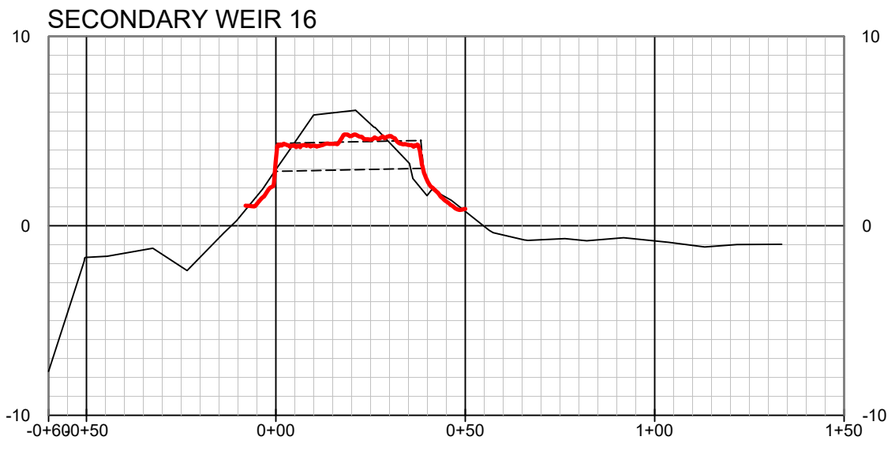
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 15 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 17 OF 22





STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE
- PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

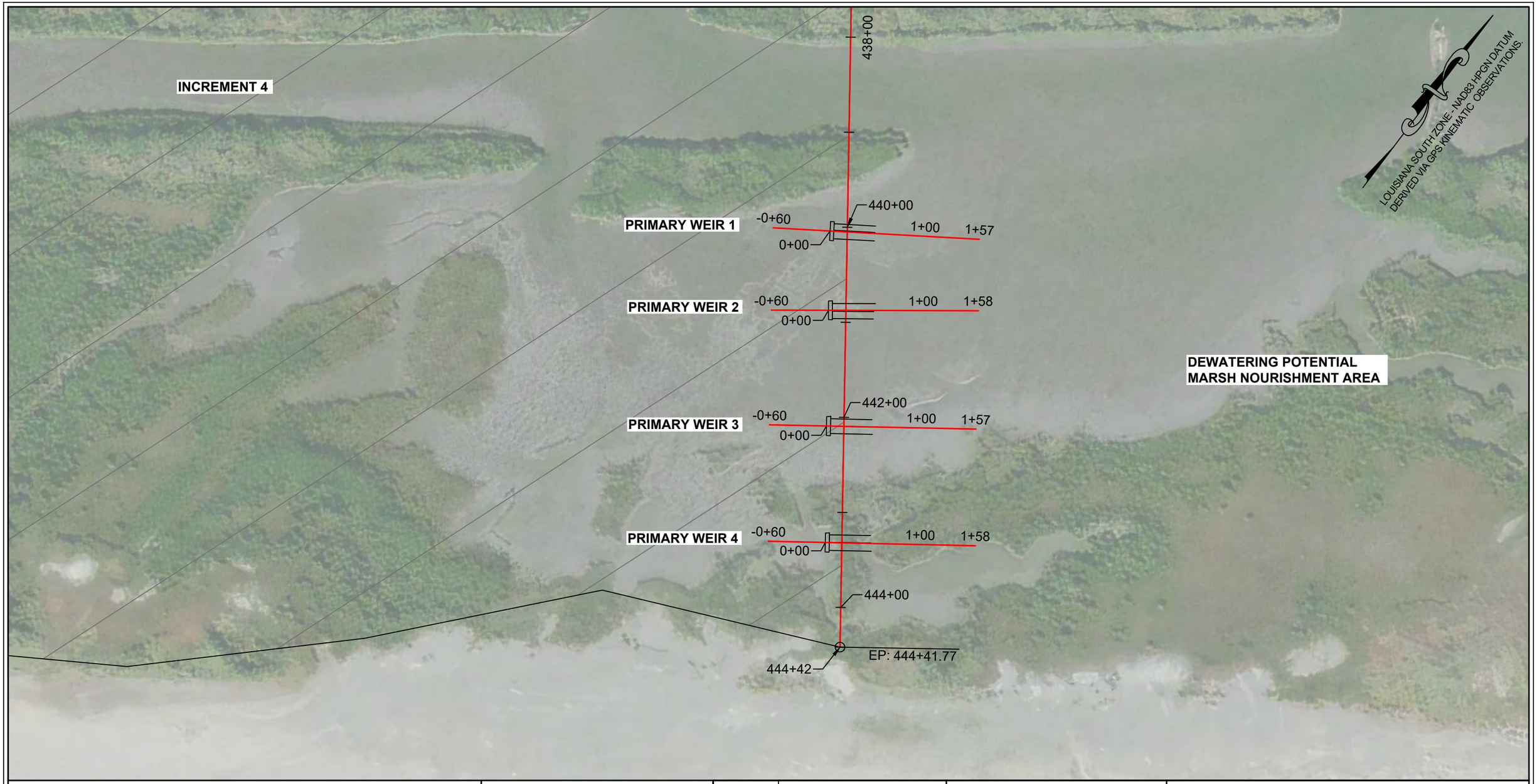
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

SECONDARY WEIR 16 – PLAN/PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 18 OF 22



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/10/21

LEGEND

PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 100'
100' 0' 50' 100'

DATE: 11/10/2021 | JOB# 2201045

HYDROTERRA

GREAT LAKES DREDGE & DOCK ENVIRONMENTAL IMPROVEMENTS

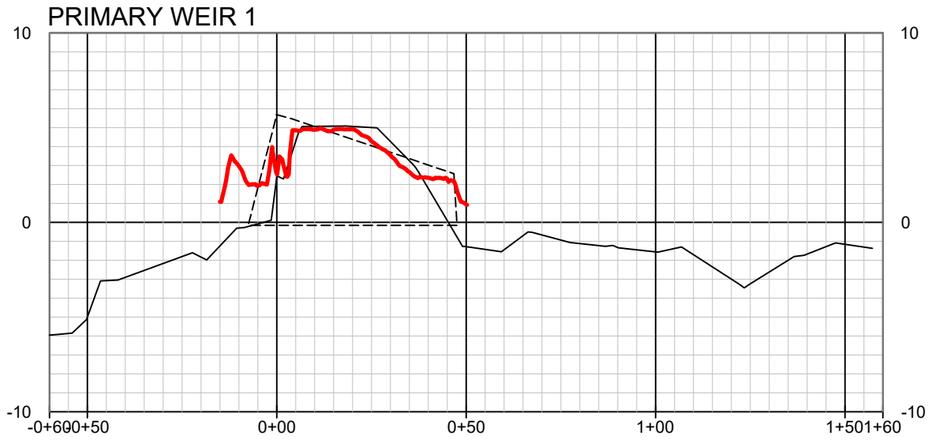
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

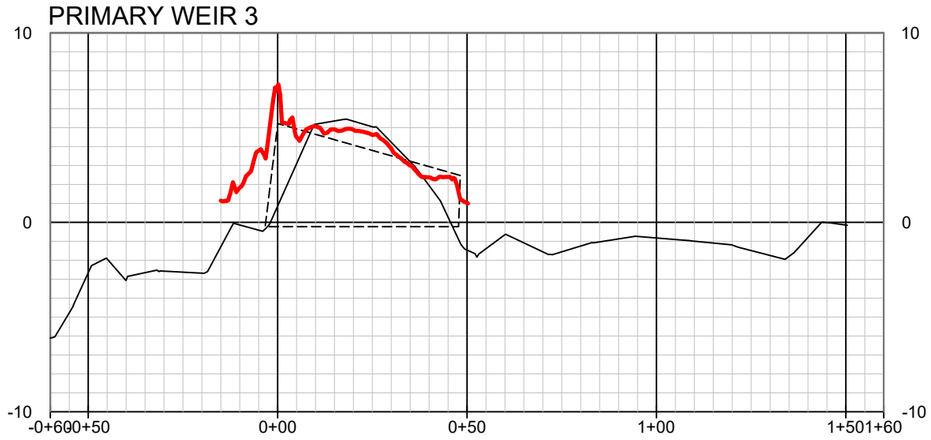
POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

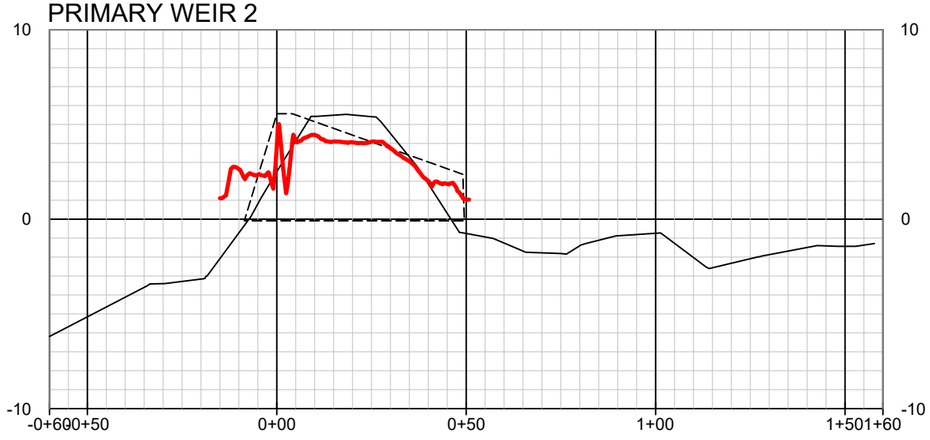
PRIMARY WEIRS – PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

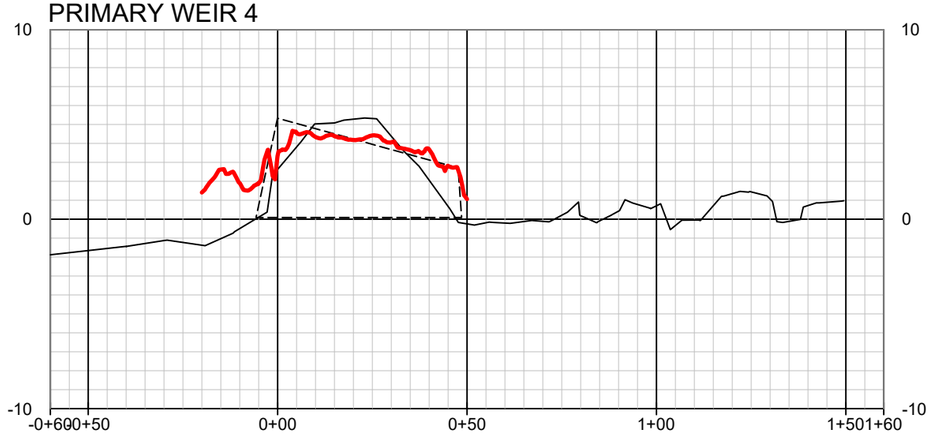
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 19 OF 22









STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/9/21

LEGEND

- POST HURRICANE IDA LIDAR SURVEY (09-25-21)
- EXISTING GROUND
- WEIR IN PLACE

REVISION NO:	DATE:

HYDROTERRA

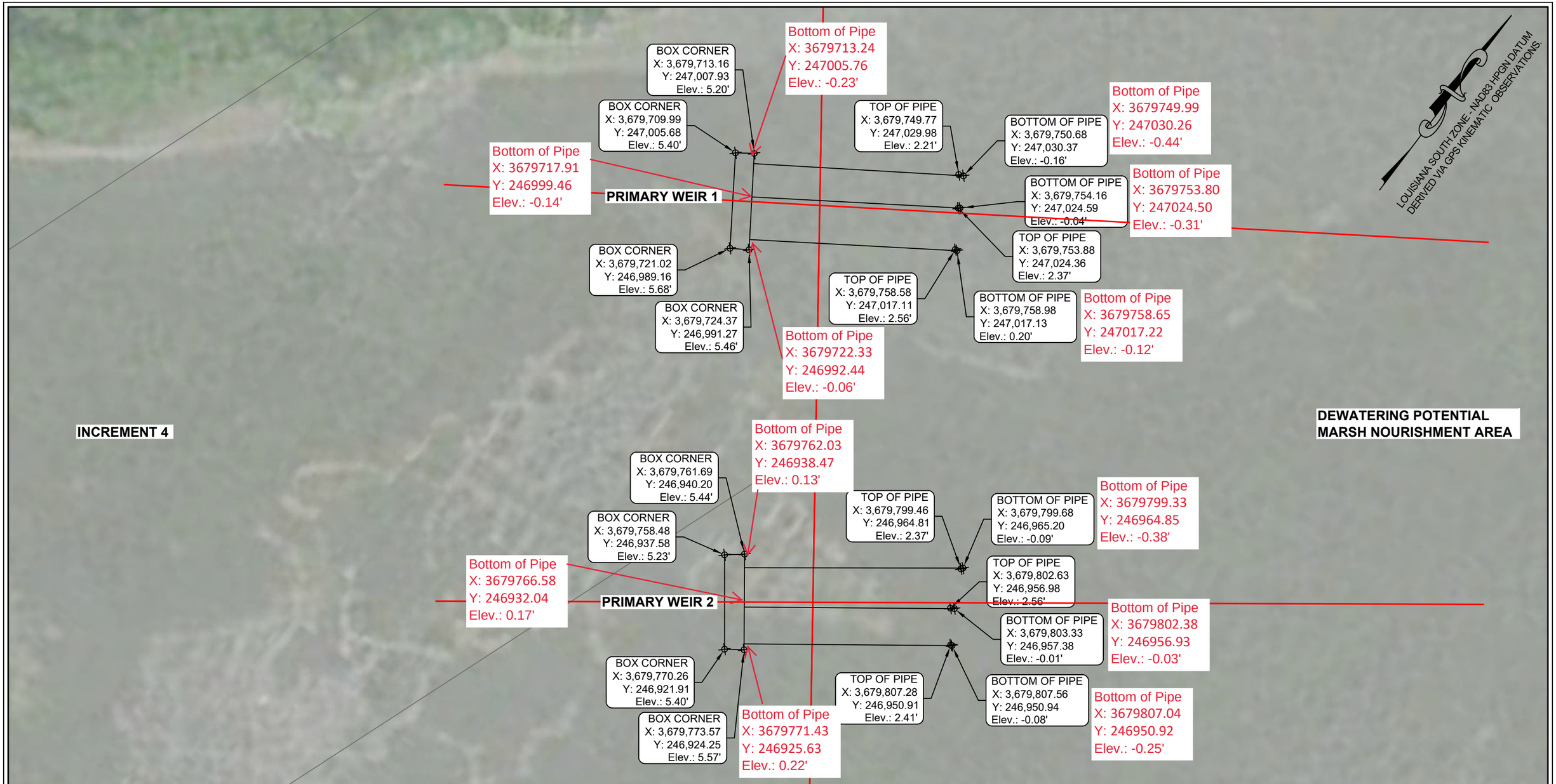
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

PRIMARY WEIRS – PROFILE VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 11/10/2021 | JOB# 2201045 | FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 20 OF 22



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. NO. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
12/2/21

LEGEND

PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 20'
20' 0' 10' 20'

HYDROTERRA

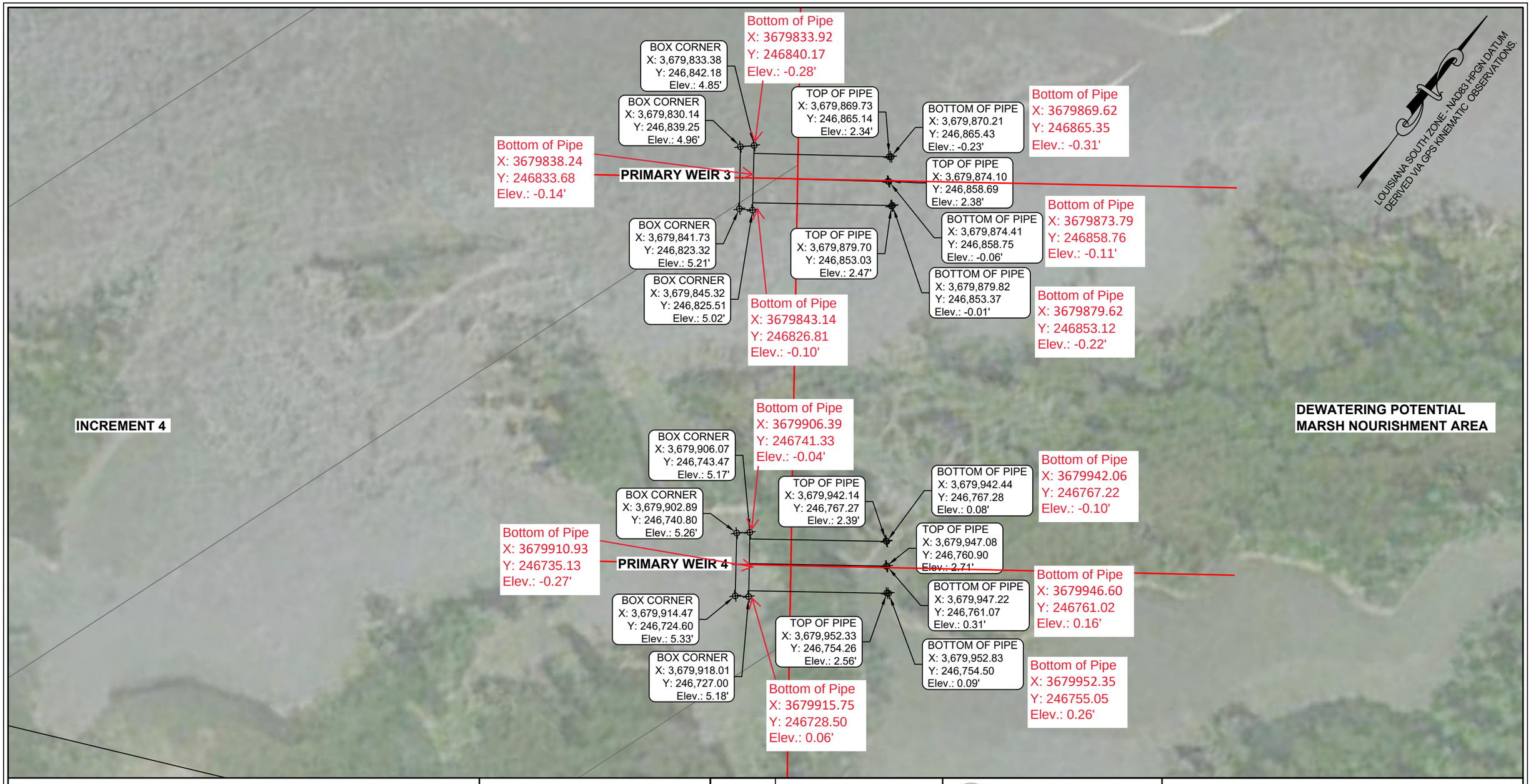
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

PRIMARY WEIRS – SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 11/10/2021 | JOB# 2201045 | FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 21 OF 22



STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
11/9/21

LEGEND

PROJECT ALIGNMENT/BASELINE

REVISION NO:	DATE:

HORIZONTAL SCALE
1" = 30'
30' 0' 15' 30'

HYDROTERRA

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)

POST HURRICANE IDA LIDAR SURVEY (09-25-21)
PRIMARY AND SECONDARY DEWATERING WEIR BOXES

PRIMARY WEIRS – SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 11/10/2021 | JOB# 2201045 | FILE: Caminada_POST HURRICANE IDA_ Weir Box Survey.dwg | SHEET: 22 OF 22

SIGMA CONSULTING GROUP, INC.
ENGINEERING & SURVEYING

10305 Airline Highway
Baton Rouge, LA 70816
Phone (225) 298-0800
Fax (225) 208-1699
www.sigmacg.com

Submittal / Shop Drawing Review Transmittal

Date: August 3, 2022

Mr. Bruce Bradshaw
Great Lakes Dredge & Dock Company, LLC
1 Parkview Plaza, Suite 800
Oakbrook Terrace, IL 60181

Re: Caminada Marsh Creation Project BA-0171
Post Ida South Dune Process Survey #05

SPECIFICATION SECTIONS

TS-210 & 300

COPIES	DESCRIPTION	ACTION
1	Process Survey Submittal	RC

ACTION

NE-No Exception Taken **RC-Review Comments** **AR-Amend and Resubmit** **R-Rejected**

REMARKS

Please find the attached South Dune Process Survey #05 Submittal received on August 2, 2022. The submittal only includes increment 4 and was reviewed to determine if the south dike shown in the survey submittal has been constructed to the lines, grades, elevations, and tolerances in accordance with the plans and specifications included with Change Order #10. The intent of this submittal is to include STA at 349+00, as it was the only section missing.

This is the fifth submitted South Dike Process survey. A total of 92,450 cubic yards have been accepted with the first 4 submittals. A total of 456 cubic yards is accepted with this submittal review. A table of accepted cross-sections can be found on the next page. Note that per TS-512 the dune shall be maintained throughout construction of the project.

If you have any questions, please do not hesitate to contact me.
Sincerely,
SIGMA CONSULTING GROUP, INC.

Josh Renard

Josh Renard, PE
Construction Manager

Enclosures: Table w/ accepted x-sections, Post Ida South Dune Process Survey

CC: Adam Ledet, Renee, Bennett, Shannon Haynes (CPRA), Bryan Harmon, SCG, SCG File 191102

Post Ida Process Survey Submittal Tracking Table

Incr 1	Approved	Volume (CY)
+		
9+87.02	Approved Sub 03- 7/12/22	0.00
10+00.01	Approved Sub 03- 7/12/22	40.98
10+03.50	Approved Sub 03- 7/12/22	10.59
11+00.00	Approved Sub 03- 7/12/22	239.97
12+00.00	Approved Sub 03- 7/12/22	189.90
13+00.00	Approved Sub 03- 7/12/22	182.37
13+94.24	Approved Sub 03- 7/12/22	122.47
14+00.00	Approved Sub 03- 7/12/22	4.57
15+00.00	Approved Sub 03- 7/12/22	84.00
16+00.00	Approved Sub 03- 7/12/22	71.29
17+00.00	Approved Sub 03- 7/12/22	147.91
18+00.00	Approved Sub 03- 7/12/22	324.47
19+00.00	Approved Sub 03- 7/12/22	377.29
19+05.56	Approved Sub 03- 7/12/22	19.11
20+00.26	Approved Sub 03- 7/12/22	313.57
21+00.00	Approved Sub 03- 7/12/22	361.49
22+00.00	Approved Sub 04- 7/22/22	378.47
23+00.36	Approved Sub 01- 4/25/22	396.12
24+00.00	Approved Sub 01- 4/25/22	423.46
25+00.00	Approved Sub 01- 4/25/22	388.96
25+70.08	Approved Sub 01- 4/25/22	218.87
26+00.00	Approved Sub 01- 4/25/22	72.60
27+00.00	Approved Sub 01- 4/25/22	288.37
28+00.00	Approved Sub 01- 4/25/22	360.42
29+00.00	Approved Sub 01- 4/25/22	372.85
30+00.00	Approved Sub 01- 4/25/22	357.20
31+00.00	Approved Sub 01- 4/25/22	368.65
32+00.00	Approved Sub 01- 4/25/22	371.12
33+00.00	Approved Sub 01- 4/25/22	343.91
34+00.00	Approved Sub 01- 4/25/22	363.73
35+00.00	Approved Sub 01- 4/25/22	382.46
36+00.00	Approved Sub 01- 4/25/22	362.29
36+17.88	Approved Sub 01- 4/25/22	59.08
37+00.00	Approved Sub 01- 4/25/22	265.07
38+00.00	Approved Sub 01- 4/25/22	325.74
39+00.00	Approved Sub 01- 4/25/22	321.49
40+00.00	Approved Sub 01- 4/25/22	301.42
41+00.00	Approved Sub 01- 4/25/22	299.75
42+00.00	Approved Sub 01- 4/25/22	330.98
43+00.00	Approved Sub 01- 4/25/22	402.72
43+99.75	Approved Sub 01- 4/25/22	419.66
45+00.00	Approved Sub 03- 7/12/22	330.75
46+00.00	Approved Sub 03- 7/12/22	261.21
47+00.23	Approved Sub 01- 4/25/22	242.20
48+00.00	Approved Sub 01- 4/25/22	205.12
49+00.00	Approved Sub 01- 4/25/22	182.27
50+00.00	Approved Sub 01- 4/25/22	173.02
51+00.00	Approved Sub 01- 4/25/22	153.89
52+00.00	Approved Sub 01- 4/25/22	94.60
53+00.00	Approved Sub 01- 4/25/22	86.40
54+00.00	Approved Sub 01- 4/25/22	138.73
55+00.00	Approved Sub 01- 4/25/22	165.26
56+00.00	Approved Sub 01- 4/25/22	160.71
57+00.00	Approved Sub 01- 4/25/22	118.67
58+00.00	Approved Sub 01- 4/25/22	104.36
59+00.00	Approved Sub 01- 4/25/22	100.85
60+00.00	Approved Sub 01- 4/25/22	95.18
61+00.00	Approved Sub 01- 4/25/22	92.10
62+00.00	Approved Sub 01- 4/25/22	99.98
63+00.00	Approved Sub 01- 4/25/22	123.14
64+00.00	Approved Sub 01- 4/25/22	130.98
65+00.00	Approved Sub 01- 4/25/22	132.53
65+11.94	Approved Sub 01- 4/25/22	16.74
66+00.00	Approved Sub 01- 4/25/22	138.34
67+00.00	Approved Sub 01- 4/25/22	112.10
68+00.00	Approved Sub 01- 4/25/22	75.78
69+00.00	Approved Sub 01- 4/25/22	115.70
70+00.00	Approved Sub 01- 4/25/22	147.39
71+00.00	Approved Sub 01- 4/25/22	158.43
72+00.00	Approved Sub 01- 4/25/22	182.36
73+00.00	Approved Sub 01- 4/25/22	202.74
74+00.00	Approved Sub 01- 4/25/22	209.71
74+17.44	Approved Sub 01- 4/25/22	38.97
75+00.00	Approved Sub 01- 4/25/22	166.41
76+00.00	Approved Sub 01- 4/25/22	185.53
77+00.00	Approved Sub 01- 4/25/22	194.22
78+00.00	Approved Sub 01- 4/25/22	189.13
79+00.00	Approved Sub 01- 4/25/22	193.01
80+00.00	Approved Sub 01- 4/25/22	201.59
81+00.00	Approved Sub 01- 4/25/22	213.19
82+00.00	Approved Sub 01- 4/25/22	259.72
83+00.00	Approved Sub 01- 4/25/22	319.36
83+10.74	Approved Sub 01- 4/25/22	37.81
84+00.00	Approved Sub 01- 4/25/22	341.56
85+00.00	Approved Sub 04- 7/22/22	498.27
86+00.00	Approved Sub 04- 7/22/22	660.67
87+00.00	Approved Sub 04- 7/22/22	725.58
88+00.00	Approved Sub 04- 7/22/22	586.13
89+00.00	Approved Sub 04- 7/22/22	451.55
90+00.49	Approved Sub 01- 4/25/22	429.31
91+00.00	Approved Sub 01- 4/25/22	410.04
92+00.20	Approved Sub 01- 4/25/22	372.67
93+00.00	Approved Sub 01- 4/25/22	318.09
94+00.00	Approved Sub 01- 4/25/22	332.37
95+00.00	Approved Sub 01- 4/25/22	354.33
96+00.00	Approved Sub 01- 4/25/22	347.82
97+00.00	Approved Sub 01- 4/25/22	396.05
98+00.00	Approved Sub 01- 4/25/22	390.80
99+00.00	Approved Sub 01- 4/25/22	304.69
100+00.00	Approved Sub 01- 4/25/22	264.37
101+00.00	Approved Sub 01- 4/25/22	253.19
102+00.00	Approved Sub 01- 4/25/22	227.91
103+00.00	Approved Sub 01- 4/25/22	205.04
104+00.00	Approved Sub 01- 4/25/22	188.46
104+05.99	Approved Sub 01- 4/25/22	11.05
105+00.00	Approved Sub 01- 4/25/22	178.74
105+99.87	Approved Sub 01- 4/25/22	234.04
106+92.66	Approved Sub 04- 7/22/22	259.13
		25,957.41

Incr 2	Approved	Volume (CY)
106+92.66	Approved Sub 04- 7/22/22	0.00
107+00.00	Approved Sub 04- 7/22/22	21.07
108+00.00	Approved Sub 04- 7/22/22	309.80
109+00.35	Approved Sub 01- 4/25/22	307.06
110+00.00	Approved Sub 01- 4/25/22	288.40
111+00.00	Approved Sub 01- 4/25/22	300.99
112+00.00	Approved Sub 01- 4/25/22	299.95
113+00.00	Approved Sub 01- 4/25/22	286.19
114+00.00	Approved Sub 01- 4/25/22	277.74
115+00.00	Approved Sub 01- 4/25/22	286.62
116+00.00	Approved Sub 01- 4/25/22	300.16
117+00.00	Approved Sub 01- 4/25/22	320.39
117+40.25	Approved Sub 01- 4/25/22	135.97
118+00.00	Approved Sub 01- 4/25/22	210.99
119+00.00	Approved Sub 01- 4/25/22	374.74
120+00.00	Approved Sub 01- 4/25/22	364.95
121+00.00	Approved Sub 01- 4/25/22	363.38
122+00.00	Approved Sub 01- 4/25/22	360.59
123+00.00	Approved Sub 01- 4/25/22	338.64
124+00.00	Approved Sub 01- 4/25/22	307.85
125+00.00	Approved Sub 01- 4/25/22	307.01
126+00.00	Approved Sub 01- 4/25/22	404.26
127+00.00	Approved Sub 01- 4/25/22	368.33
128+00.00	Approved Sub 01- 4/25/22	283.46
129+00.00	Approved Sub 01- 4/25/22	276.44
130+00.00	Approved Sub 01- 4/25/22	251.01
131+00.00	Approved Sub 01- 4/25/22	277.11
132+00.00	Approved Sub 01- 4/25/22	298.67
133+00.00	Approved Sub 01- 4/25/22	294.42
134+00.00	Approved Sub 01- 4/25/22	292.28
135+00.00	Approved Sub 01- 4/25/22	276.54
136+00.00	Approved Sub 01- 4/25/22	257.93
137+00.00	Approved Sub 01- 4/25/22	234.38
138+00.00	Approved Sub 01- 4/25/22	203.66
138+11.86	Approved Sub 01- 4/25/22	22.73
139+00.00	Approved Sub 01- 4/25/22	175.01
140+00.00	Approved Sub 01- 4/25/22	164.51
141+00.00	Approved Sub 01- 4/25/22	138.06
142+00.00	Approved Sub 01- 4/25/22	215.06
143+00.00	Approved Sub 01- 4/25/22	313.64
144+00.00	Approved Sub 01- 4/25/22	305.15
145+00.00	Approved Sub 01- 4/25/22	234.56
145+67.51	Approved Sub 01- 4/25/22	126.14
146+00.00	Approved Sub 01- 4/25/22	53.36
147+00.00	Approved Sub 01- 4/25/22	154.42
148+00.00	Approved Sub 01- 4/25/22	157.14
149+00.00	Approved Sub 01- 4/25/22	153.64
150+00.00	Approved Sub 01- 4/25/22	136.52
151+00.00	Approved Sub 01- 4/25/22	119.54
152+00.00	Approved Sub 01- 4/25/22	109.83
153+00.00	Approved Sub 01- 4/25/22	108.74
154+00.00	Approved Sub 01- 4/25/22	50.62
155+00.00	Approved Sub 01- 4/25/22	0.00
156+00.00	Approved Sub 01- 4/25/22	29.36
157+00.00	Approved Sub 01- 4/25/22	68.16
158+00.00	Approved Sub 01- 4/25/22	107.56
159+00.00	Approved Sub 01- 4/25/22	117.15
160+00.00	Approved Sub 01- 4/25/22	88.23
161+00.00	Approved Sub 01- 4/25/22	79.86
162+00.00	Approved Sub 01- 4/25/22	42.95
163+00.00	Approved Sub 01- 4/25/22	56.89
164+00.00	Approved Sub 01- 4/25/22	175.09
165+00.00	Approved Sub 01- 4/25/22	203.53
166+00.00	Approved Sub 01- 4/25/22	127.69
167+00.00	Approved Sub 01- 4/25/22	51.27
168+00.00	Approved Sub 01- 4/25/22	51.91
169+00.00	Approved Sub 01- 4/25/22	95.46
170+00.00	Approved Sub 01- 4/25/22	84.41
171+00.00	Approved Sub 01- 4/25/22	86.13
172+00.00	Approved Sub 01- 4/25/22	102.72
173+00.00	Approved Sub 01- 4/25/22	119.07
174+00.00	Approved Sub 01- 4/25/22	135.39
175+00.00	Approved Sub 01- 4/25/22	145.24
176+00.00	Approved Sub 01- 4/25/22	174.55
177+00.00	Approved Sub 01- 4/25/22	181.63
178+00.00	Approved Sub 01- 4/25/22	87.93
179+00.00	Approved Sub 01- 4/25/22	7.59
180+00.00	Approved Sub 01- 4/25/22	37.59
181+00.00	Approved Sub 01- 4/25/22	74.72
182+00.00	Approved Sub 01- 4/25/22	75.99
183+00.00	Approved Sub 01- 4/25/22	67.16
184+00.00	Approved Sub 01- 4/25/22	64.48
185+00.00	Approved Sub 01- 4/25/22	62.13
185+27.25	Approved Sub 01- 4/25/22	14.49
186+00.00	Approved Sub 01- 4/25/22	32.43
187+00.00	Approved Sub 01- 4/25/22	52.13
188+00.00	Approved Sub 01- 4/25/22	72.81
189+00.00	Approved Sub 01- 4/25/22	85.89
190+00.00	Approved Sub 01- 4/25/22	90.74
191+00.00	Approved Sub 01- 4/25/22	103.84
192+00.00	Approved Sub 01- 4/25/22	123.58
193+00.00	Approved Sub 01- 4/25/22	117.29
194+00.00	Approved Sub 01- 4/25/22	79.64
195+00.00	Approved Sub 01- 4/25/22	71.99
196+00.00	Approved Sub 01- 4/25/22	89.91
197+00.00	Approved Sub 01- 4/25/22	101.90
198+00.00	Approved Sub 01- 4/25/22	117.48
199+00.00	Approved Sub 01- 4/25/22	127.96
200+00.00	Approved Sub 01- 4/25/22	142.00
201+00.00	Approved Sub 01- 4/25/22	151.39
202+00.00	Approved Sub 01- 4/25/22	142.10
203+00.00	Approved Sub 01- 4/25/22	107.53
204+00.00	Approved Sub 01- 4/25/22	82.38
205+00.00	Approved Sub 01- 4/25/22	81.29
206+00.00	Approved Sub 01- 4/25/22	87.35
207+00.00	Approved Sub 01- 4/25/22	99.00
208+00.00	Approved Sub 01- 4/25/22	88.15
208+81.01	Approved Sub 01- 4/25/22	35.16
		17,319.92

Incr 3	Approved	Volume (CY)
208+81.01	Approved Sub 01- 4/25/22	0.00
209+00.00	Approved Sub 01- 4/25/22	1.80
210+00.00	Approved Sub 01- 4/25/22	11.21
211+00.00	Approved Sub 01- 4/25/22	59.99
212+00.00	Approved Sub 01- 4/25/22	82.99
213+00.00	Approved Sub 01- 4/25/22	30.69
214+00.00	Approved Sub 01- 4/25/22	0.00
214+82.67	Approved Sub 01- 4/25/22	0.00
215+00.00	Approved Sub 01- 4/25/22	0.00
216+00.00	Approved Sub 01- 4/25/22	0.00
217+00.00	Approved Sub 01- 4/25/22	0.00
218+00.00	Approved Sub 01- 4/25/22	4.97
219+00.00	Approved Sub 01- 4/25/22	65.38
220+00.00	Approved Sub 01- 4/25/22	105.92
221+00.00	Approved Sub 01- 4/25/22	104.66
222+00.00	Approved Sub 01- 4/25/22	112.01
223+00.00	Approved Sub 01- 4/25/22	54.25
224+00.00	Approved Sub 01- 4/25/22	52.70
225+00.00	Approved Sub 01- 4/25/22	106.33
226+00.00	Approved Sub 01- 4/25/22	113.96
227+00.00	Approved Sub 01- 4/25/22	143.68
228+00.00	Approved Sub 01- 4/25/22	184.43
229+00.00	Approved Sub 01- 4/25/22	194.50
230+00.00	Approved Sub 01- 4/25/22	203.52
231+00.00	Approved Sub 01- 4/25/22	234.25
232+00.00	Approved Sub 01- 4/25/22	221.48
233+00.00	Approved Sub 01- 4/25/22	196.70
234+00.00	Approved Sub 01- 4/25/22	212.97
235+00.00	Approved Sub 01- 4/25/22	225.12
236+00.00	Approved Sub 01- 4/25/22	242.45
237+00.00	Approved Sub 01- 4/25/22	320.50
238+00.00	Approved Sub 01- 4/25/22	269.82
238+79.90	Approved Sub 01- 4/25/22	123.98
239+00.00	Approved Sub 01- 4/25/22	39.71
240+00.00	Approved Sub 01- 4/25/22	158.14
241+00.00	Approved Sub 01- 4/25/22	116.22
242+00.00	Approved Sub 01- 4/25/22	159.10
243+00.00	Approved Sub 01- 4/25/22	170.32
243+99.88	Approved Sub 01- 4/25/22	183.54
245+00.00	Approved Sub 03- 7/12/22	205.32
246+00.00	Approved Sub 03- 7/12/22	205.16
247+00.00	Approved Sub 03- 7/12/22	187.99
248+00.00	Approved Sub 03- 7/12/22	152.34
249+00.00	Approved Sub 03- 7/12/22	150.21
250+00.00	Approved Sub 03- 7/12/22	166.83
251+00.38	Approved Sub 01- 4/25/22	151.59
252+00.00	Approved Sub 01- 4/25/22	133.80
253+00.00	Approved Sub 01- 4/25/22	138.79
254+00.00	Approved Sub 01- 4/25/22	184.91
255+00.00	Approved Sub 01- 4/25/22	244.52
256+00.00	Approved Sub 01- 4/25/22	241.04
256+30.49	Approved Sub 01- 4/25/22	64.28
257+00.00	Approved Sub 01- 4/25/22	176.46
258+00.00	Approved Sub 01- 4/25/22	272.22
259+00.00	Approved Sub 01- 4/25/22	278.77
260+00.00	Approved Sub 01- 4/25/22	285.64
261+00.00	Approved Sub 01- 4/25/22	265.38
262+00.00	Approved Sub 01- 4/25/22	243.87
263+00.00	Approved Sub 01- 4/25/22	231.12
264+00.00	Approved Sub 01- 4/25/22	306.83
265+00.00	Approved Sub 01- 4/25/22	382.12
266+00.00	Approved Sub 01- 4/25/22	402.80
267+00.00	Approved Sub 01- 4/25/22	419.01
268+00.00	Approved Sub 01- 4/25/22	417.11
269+00.00	Approved Sub 01- 4/25/22	387.41
270+00.00	Approved Sub 01- 4/25/22	309.81
270+50.41	Approved Sub 01- 4/25/22	131.20
271+00.00	Approved Sub 01- 4/25/22	127.28
272+00.00	Approved Sub 01- 4/25/22	237.51
273+00.49	Approved Sub 03- 7/12/22	285.45
274+00.00	Approved Sub 03- 7/12/22	189.52
275+00.18	Approved Sub 01- 4/25/22	46.50
276+00.00	Approved Sub 01- 4/25/22	32.19
277+00.00	Approved Sub 03- 7/12/22	44.03
278+00.00	Approved Sub 03- 7/12/22	62.14
279+00.00	Approved Sub 01- 4/25/22	59.91
280+00.00	Approved Sub 01- 4/25/22	34.42
280+70.32	Approved Sub 01- 4/25/22	0.00
281+00.00	Approved Sub 01- 4/25/22	0.00
282+00.00	Approved Sub 01- 4/25/22	48.08
283+00.00	Approved Sub 01- 4/25/22	137.80
284+00.00	Approved Sub 01- 4/25/22	196.69
285+00.00	Approved Sub 01- 4/25/22	114.75
286+00.00	Approved Sub 01- 4/25/22	7.78
287+00.00	Approved Sub 01- 4/25/22	67.62
288+00.00	Approved Sub 01- 4/25/22	69.97
289+00.00	Approved Sub 01- 4/25/22	2.35
290+00.00	Approved Sub 01- 4/25/22	0.00
290+27.74	Approved Sub 02- 6/6/22	0.00
291+00.00	Approved Sub 02- 6/6/22	0.00
292+00.00	Approved Sub 02- 6/6/22	120.46
293+00.00	Approved Sub 02- 6/6/22	282.67
294+00.00	Approved Sub 02- 6/6/22	345.33
295+00.00	Approved Sub 02- 6/6/22	365.26
296+00.00	Approved Sub 02- 6/6/22	312.09
297+00.00	Approved Sub 02- 6/6/22	255.83
297+37.59	Approved Sub 02- 6/6/22	100.26
298+00.00	Approved Sub 02- 6/6/22	180.54
299+00.00	Approved Sub 02- 6/6/22	221.00
300+00.00	Approved Sub 02- 6/6/22	180.07
301+00.00	Approved Sub 02- 6/6/22	250.78
302+00.00	Approved Sub 02- 6/6/22	335.67
303+00.00	Approved Sub 02- 6/6/22	339.11
304+00.00	Approved Sub 02- 6/6/22	280.59
304+50.21	Approved Sub 02- 6/6/22	141.67
305+00.00	Approved Sub 02- 6/6/22	165.16
306+00.00	Approved Sub 02- 6/6/22	352.11
307+00.00	Approved Sub 02- 6/6/22	307.20
308+00.00	Approved Sub 02- 6/6/22	276.24
309+00.00	Approved Sub 04- 7/22/22	324.90
310+00.00	Approved Sub 04- 7/22/22	388.19
311+00.00	Approved Sub 04- 7/22/22	482.57
312+00.00	Approved Sub 04- 7/22/22	525.74
313+00.00	Approved Sub 04- 7/22/22	487.58
314+00.00	Approved Sub 04- 7/22/22	453.99
315+00.00	Approved Sub 04- 7/22/22	422.23
316+00.00	Approved Sub 04- 7/22/22	445.96
316+61.23	Approved Sub 04- 7/22/22	286.08
		21,637.11

Incr 4	Approved	Volume (CY)
316+61.77	Approved Sub 04- 7/22/22	0.00
317+00.00	Approved Sub 04- 7/22/22	176.36
318+00.00	Approved Sub 03- 7/12/22	0.00
319+00.00	Approved Sub 03- 7/12/22	566.59
320+00.00	Approved Sub 03- 7/12/22	522.35
321+00.00	Approved Sub 03- 7/12/22	524.54
322+00.00	Approved Sub 03- 7/12/22	716.74
323+00.00	Approved Sub 03- 7/12/22	645.36
323+39.83	Approved Sub 03- 7/12/22	147.11
324+00.00	Approved Sub 03- 7/12/22	183.11
325+00.00	Approved Sub 03- 7/12/22	248.11
326+00.00	Approved Sub 03- 7/12/22	280.14
327+00.00	Approved Sub 03- 7/12/22	361.83
328+00.00	Approved Sub 02- 6/6/22	399.35
329+00.00	Approved Sub 02- 6/6/22	353.98
330+00.00	Approved Sub 02- 6/6/22	246.70
331+00.00	Approved Sub 02- 6/6/22	109.24
332+00.00	Approved Sub 02- 6/6/22	92.50
333+00.00	Approved Sub 02- 6/6/22	241.72
334+00.00	Approved Sub 02- 6/6/22	336.83
335+00.00	Approved Sub 02- 6/6/22	362.30
336+00.00	Approved Sub 02- 6/6/22	371.63
337+00.00	Approved Sub 02- 6/6/22	346.07
338+00.00	Approved Sub 02- 6/6/22	335.07
338+08.71	Approved Sub 02- 6/6/22	31.05
339+00.00	Approved Sub 02- 6/6/22	337.93
340+00.00	Approved Sub 02- 6/6/22	367.67
341+00.00	Approved Sub 02- 6/6/22	351.31
342+00.00	Approved Sub 02- 6/6/22	344.02
343+00.00	Approved Sub 02- 6/6/22	487.37
344+00.00	Approved Sub 03- 7/12/22	446.74
344+70.25	Approved Sub 03- 7/12/22	154.73
345+00.00	Approved Sub 02- 6/6/22	59.01
346+00.00	Approved Sub 02- 6/6/22	321.93
347+00.00	Approved Sub 02- 6/6/22	447.26
348+00.00	Approved Sub 02- 6/6/22	525.96
349+00.00	Approved Sub 05- 8/2/22	455.78
350+00.00	Approved Sub 04- 7/22/22	327.48
351+00.00	Approved Sub 04- 7/22/22	325.03
352+00.00	Approved Sub 02- 6/6/22	307.78
352+05.23	Approved Sub 02- 6/6/22	15.44
353+00.00	Approved Sub 02- 6/6/22	272.87
354+00.00	Approved Sub 02- 6/6/22	249.52
355+00.00	Approved Sub 02- 6/6/22	237.19
356+00.00	Approved Sub 02- 6/6/22	301.09
357+00.00	Approved Sub 02- 6/6/22	332.74
358+00.00	Approved Sub 02- 6/6/22	297.87
359+00.00	Approved Sub 02- 6/6/22	284.06
360+00.00	Approved Sub 02- 6/6/22	394.91
361+00.00	Approved Sub 04- 7/22/22	516.57
362+00.00	Approved Sub 04- 7/22/22	506.22
363+00.00	Approved Sub 04- 7/22/22	434.72
364+00.00	Approved Sub 04- 7/22/22	354.81
365+00.00	Approved Sub 04- 7/22/22	341.41
366+00.00	Approved Sub 04- 7/22/22	377.50
367+00.00	Approved Sub 04- 7/22/22	413.24
368+00.00	Approved Sub 04- 7/22/22	438.35
369+00.00	Approved Sub 04- 7/22/22	424.44
370+00.00	Approved Sub 04- 7/22/22	413.58
370+79.20	Approved Sub 04- 7/22/22	324.07
371+00.29	Approved Sub 04- 7/22/22	78.55
372+00.00	Approved Sub 04- 7/22/22	347.82
373+00.00	Approved Sub 04- 7/22/22	388.33
374+00.00	Approved Sub 04- 7/22/22	427.71
375+00.00	Approved Sub 04- 7/22/22	494.59
376+00.00	Approved Sub 04- 7/22/22	480.01
376+78.20	Approved Sub 04- 7/22/22	313.43
377+00.00	Approved Sub 02- 6/6/22	85.26
378+00.00	Approved Sub 02- 6/6/22	334.65
379+00.00	Approved Sub 04- 7/22/22	295.01
380+00.00	Approved Sub 04- 7/22/22	347.94
381+00.00	Approved Sub 04- 7/22/22	403.62
382+00.00	Approved Sub 04- 7/22/22	314.29
382+31.53	Approved Sub 04- 7/22/22	76.85
383+00.00	Approved Sub 02- 6/6/22	201.44
384+00.00	Approved Sub 02- 6/6/22	305.74
385+00.00	Approved Sub 02- 6/6/22	200.24
386+00.00	Approved Sub 02- 6/6/22	79.93
387+00.00	Approved Sub 02- 6/6/22	100.06
387+05.17	Approved Sub 02- 6/6/22	7.68
388+00.00	Approved Sub 02- 6/6/22	87.51
389+00.00	Approved Sub 02- 6/6/22	20.91
390+00.00	Approved Sub 02- 6/6/22	52.57
391+00.00	Approved Sub 02- 6/6/22	135.87
392+00.00	Approved Sub 02- 6/6/22	161.26
392+25.71	Approved Sub 02- 6/6/22	40.73
393+00.00	Approved Sub 02- 6/6/22	95.88
394+00.00	Approved Sub 02- 6/6/22	149.93
395+00.00	Approved Sub 02- 6/6/22	173.63
396+00.00	Approved Sub 02- 6/6/22	121.35
397+00.00	Approved Sub 02- 6/6/22	99.26
398+00.00	Approved Sub 02- 6/6/22	103.22
398+87.36	Approved Sub 02- 6/6/22	56.86
399+00.00	Approved Sub 02- 6/6/22	1.91
400+00.00	Approved Sub 02- 6/6/22	7.87
401+00.00	Approved Sub 02- 6/6/22	0.00
402+00.00	Approved Sub 02- 6/6/22	0.00
403+00.00	Approved Sub 02- 6/6/22	10.63
404+00.00	Approved Sub 02- 6/6/22	10.63
405+00.00	Approved Sub 02- 6/6/22	0.00
406+00.00	Approved Sub 02- 6/6/22	0.00
407+00.00	Approved Sub 02- 6/6/22	6.83
407+57.27	Approved Sub 02- 6/6/22	6.58
408+00.00	Approved Sub 02- 6/6/22	3.87
409+00.00	Approved Sub 02- 6/6/22	74.91
410+00.00	Approved Sub 02- 6/6/22	160.93
411+00.00	Approved Sub 02- 6/6/22	223.31
412+00.00	Approved Sub 02- 6/6/22	265.72
413+00.00	Approved Sub 02- 6/6/22	253.20
414+00.00	Approved Sub 02- 6/6/22	236.65
415+00.00	Approved Sub 02- 6/6/22	277.96
415+31.36	Approved Sub 02- 6/6/22	78.83
		27,991.22

Sum of all Increments: 92,905.66

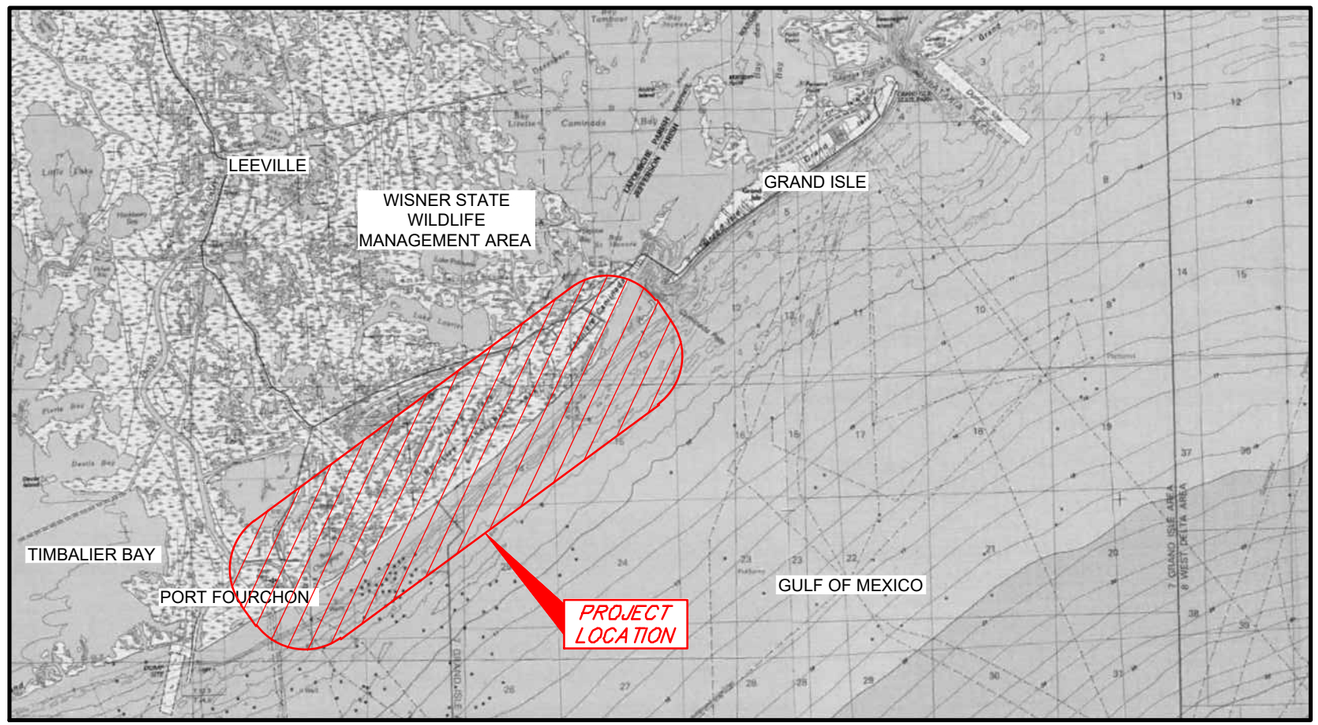
Approved Sub 01-	46,172
Approved Sub 02-	17,509
Approved Sub 03-	10,133.32
Approved Sub 04-	18,635.81
Approved Sub 05-	**455.78**

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 15	CROSS-SECTION VIEWS
16 - 17	VOLUME REPORTS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISION:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 1 OF 17

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. DUNE PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 02-23-22 AND 04-10-22 INCLUSIVE.
5. DUNE PROGRESS SURVEY SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 03-16-22 AND 07-15-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL
MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL
TRAINING DIKE 3

EARTHEN CONTAINMENT
DIKE ALIGNMENT

RFI #56
DUNE CENTERLINE REALIGNMENT
STA. 309+00 THROUGH STA. 322+00

BAYOU MOREAU

INCREMENT 3

50' BEACH AND
DUNE CROSSING

EQUIPMENT ACCESS
CORRIDOR (EA3)

DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

EQUIPMENT ACCESS
CORRIDOR (EA1)

INTERNAL
TRAINING DIKE 2

EQUIPMENT ACCESS
CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS
CORRIDOR (EA2)

INTERNAL
TRAINING DIKE 1

50' BEACH AND
DUNE CROSSING

DREDGE PIPELINE CORRIDOR

BAYOU LAFOURCHE

PORT FOURCHON
MARINA

INCREMENT 1

SW BORROW AREA

DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED
PROFESSIONAL
LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISION:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg

MARSH CREATION AREA INCREMENT 1

MARSH CREATION AREA INCREMENT 2

TE23-SM-01

EQUIPMENT ACCESS CORRIDOR (EAC1)

EQUIPMENT ACCESS CORRIDOR (EAC2)

EQUIPMENT ACCESS CORRIDOR (EAC4)

12" ARROW HEAD/HARVEST X2

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM DERIVED VIA GPS KINEMATIC OBSERVATIONS.

MARSH CREATION AREA INCREMENT 1

20" CHEVRON PIPELINE

PRIORITY DIKE SAND BORROW AREA

INTERNAL TRAINING DIKE 1

MARSH CREATION AREA INCREMENT 2

DC-00 BP: -1+65.04

DC-01 PI: -0+00.00

DC-02 PI: 0+98.06

DC-03 PI: 2+14.46

DC-04 PI: 4+38.01

DC-05 PI: 7+62.40

DC-06 PI: 9+40.32

DC-07 PI: 10+19.44

DC-08 PI: 13+94.24

DC-09 PI: 19+05.56

DC-10 PI: 25+70.08

DC-11 PI: 36+17.88

DC-12 PI: 65+11.94

DC-13 PI: 74+17.44

DC-14 PI: 83+10.74

DC-15 PI: 92+00.20

DC-16 PI: 104+05.99

DC-17 EP: 106+92.66

50' BEACH & DUNE CROSSING

DREDGE PIPELINE CORRIDOR

GULF OF MEXICO

GULF OF MEXICO

DUNE CONTAINMENT ALIGNMENT COORDINATES TABLE INCREMENT 1 (RESUME WORK)

NAME	STATION	NORTHING (FT)	EASTING (FT)
DC-00	-1+65.04	221,545.24	3,647,017.06
DC-01	0+00.00	221,615.11	3,647,166.59
DC-02	0+98.06	221,682.91	3,647,237.43
DC-03	2+14.46	221,760.73	3,647,323.99
DC-04	4+38.01	221,909.09	3,647,491.21
DC-05	7+62.40	222,156.21	3,647,701.35
DC-06	9+40.32	222,315.72	3,647,780.16
DC-07	10+19.45	222,386.66	3,647,815.21
DC-08	13+94.25	222,631.06	3,648,099.37
DC-09	19+05.57	223,008.31	3,648,444.52
DC-10	25+70.09	223,565.16	3,648,807.16
DC-11	36+17.89	224,280.89	3,649,572.41
DC-12	65+11.94	226,067.87	3,651,848.87
DC-13	74+17.45	226,570.22	3,652,602.25
DC-14	83+10.75	227,099.25	3,653,322.05
DC-15	92+00.20	227,605.71	3,654,053.23
DC-16	104+05.99	228,299.46	3,655,039.46
DC-17	106+92.66	228,457.86	3,655,278.39

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

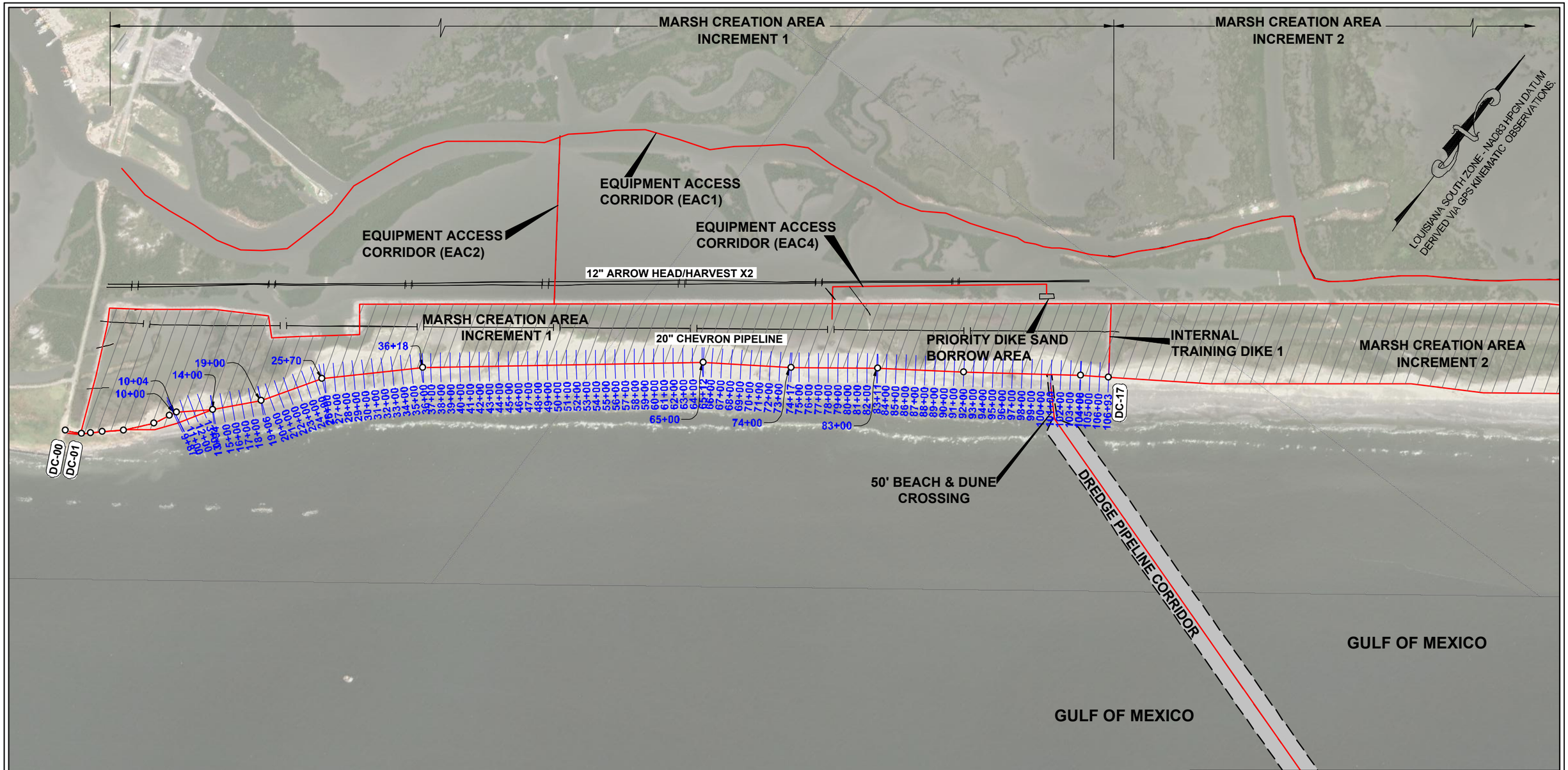
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg

SHEET: 3 OF 17



STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED
PROFESSIONAL
LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

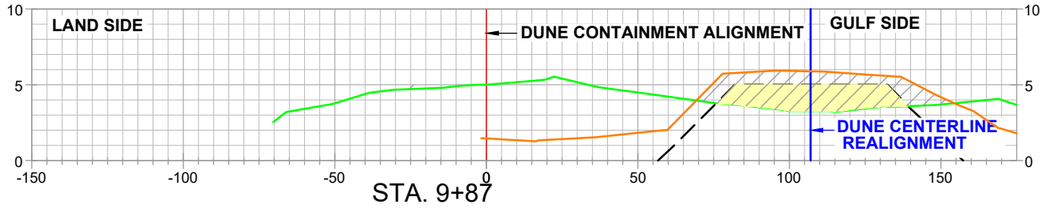
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

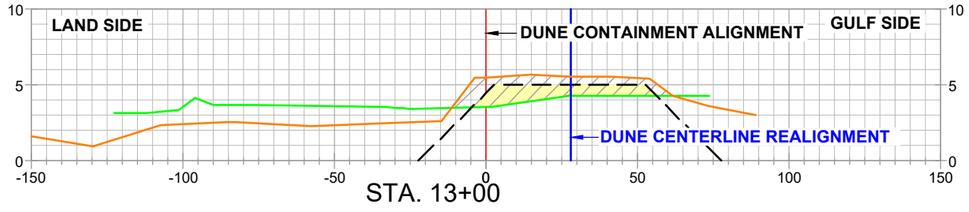
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg

SHEET: 4 OF 17



STA. 9+87



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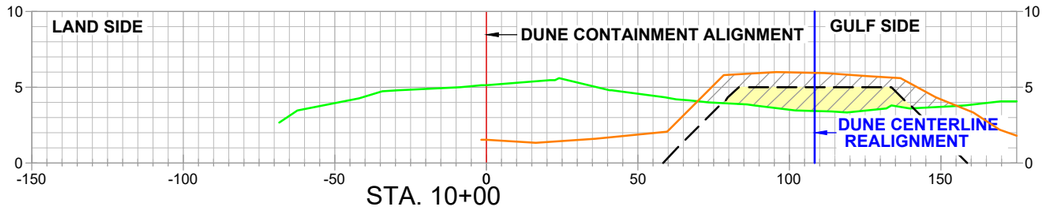

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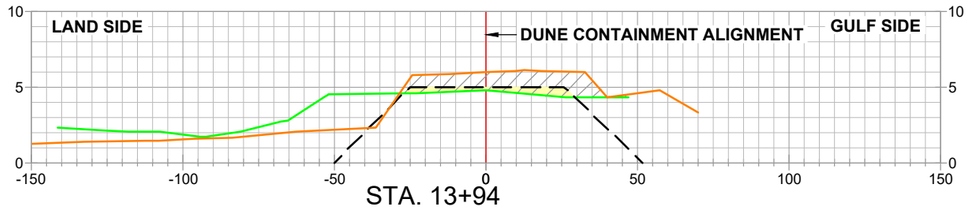

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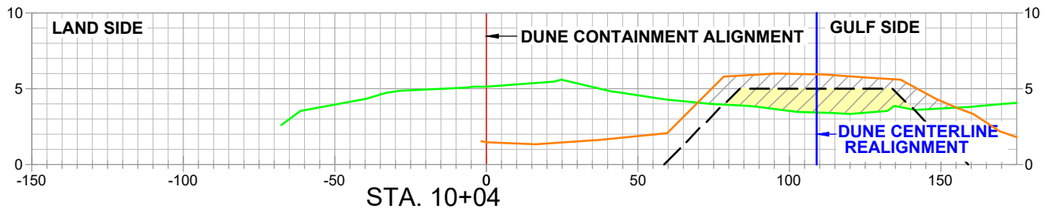

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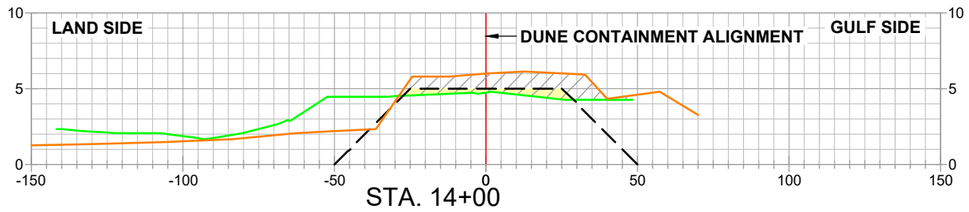

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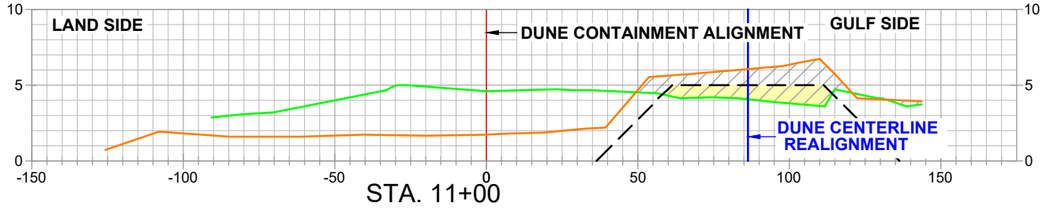

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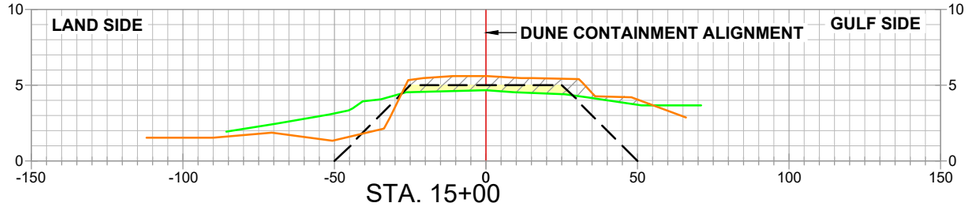

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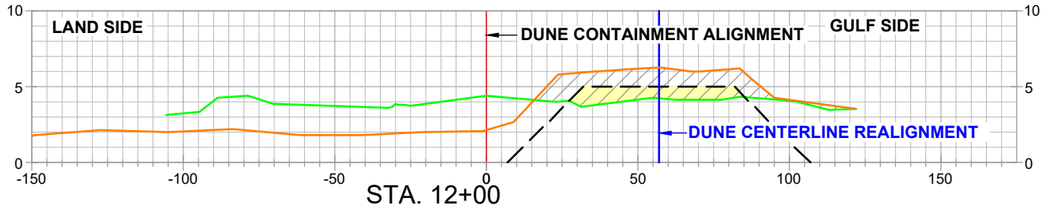

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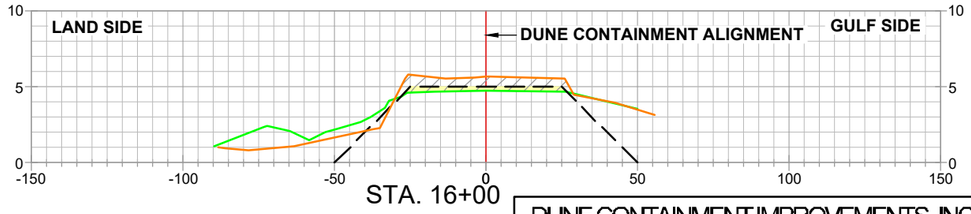


STA. 16+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1



LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

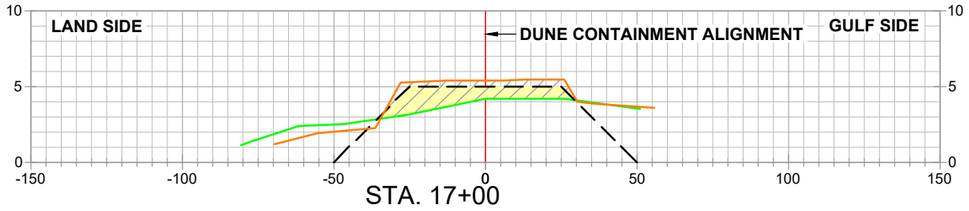
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 5 OF 17



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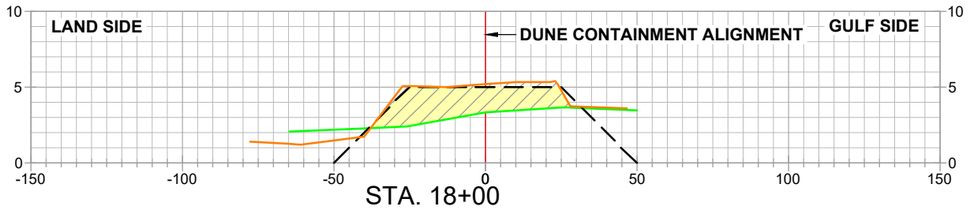

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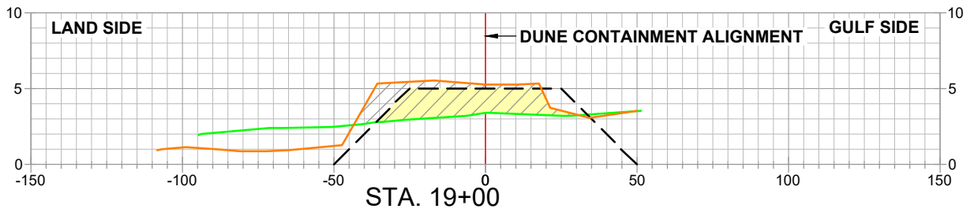

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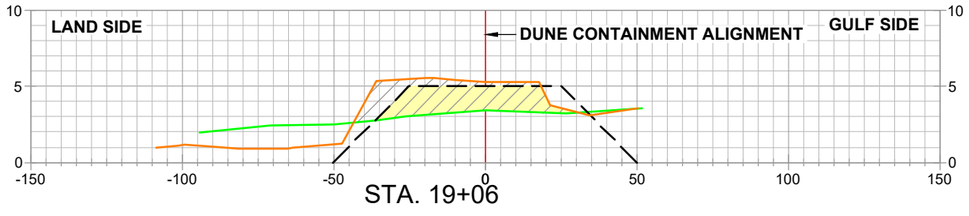

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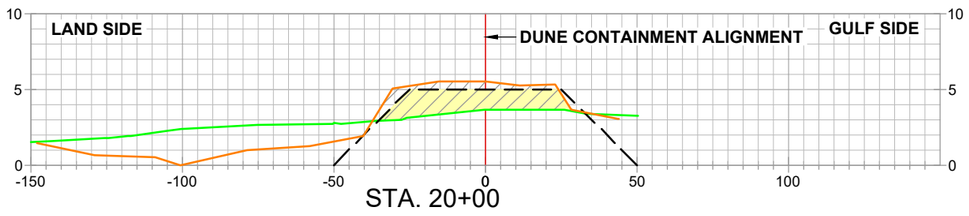

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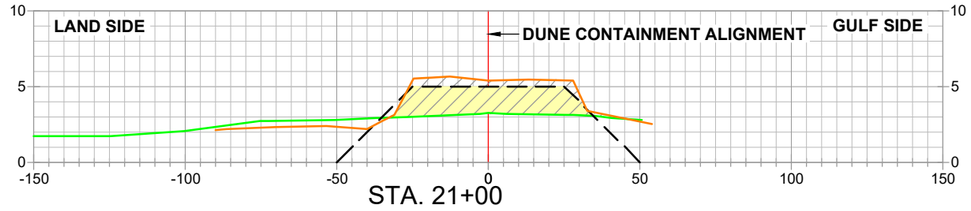

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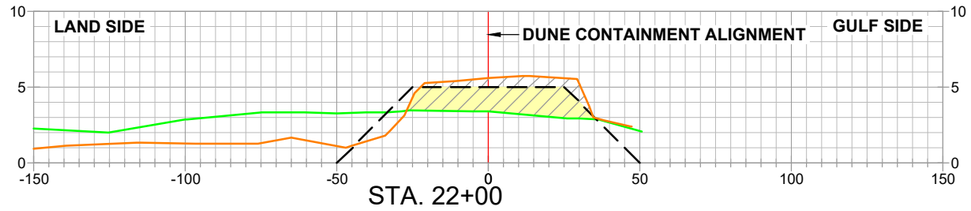

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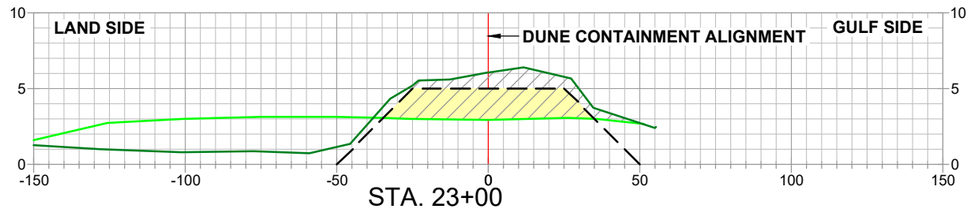

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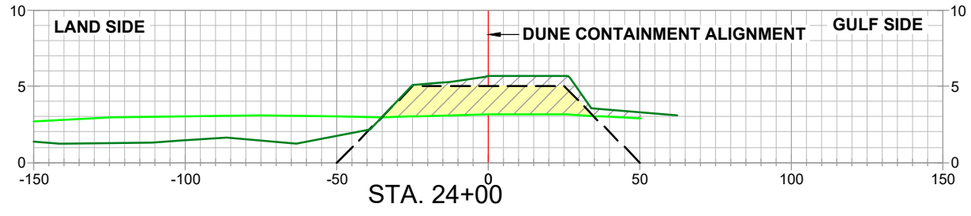

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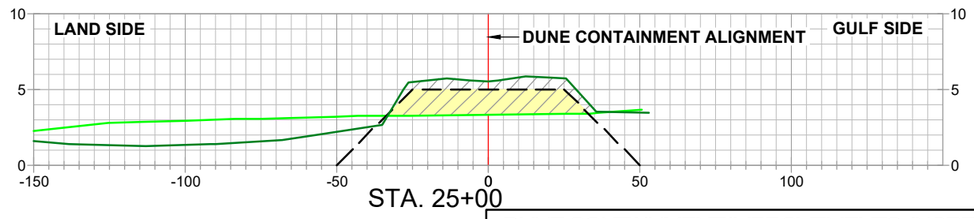


STA. 25+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/2022

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

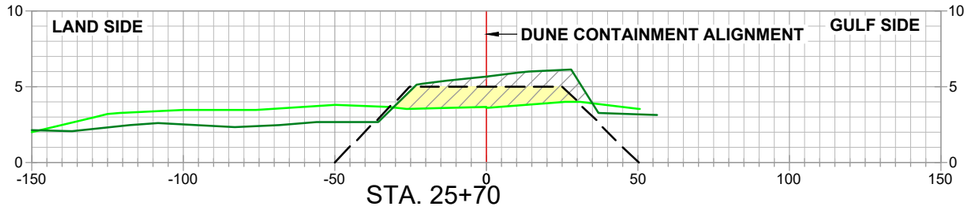
HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

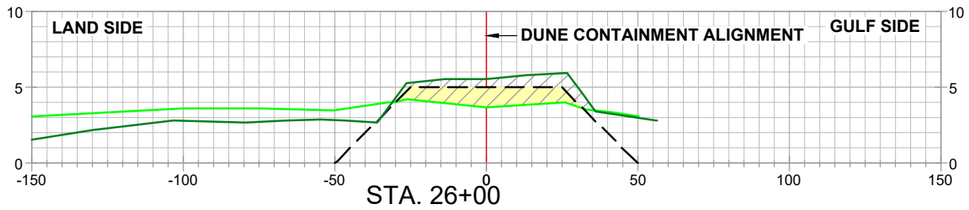
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

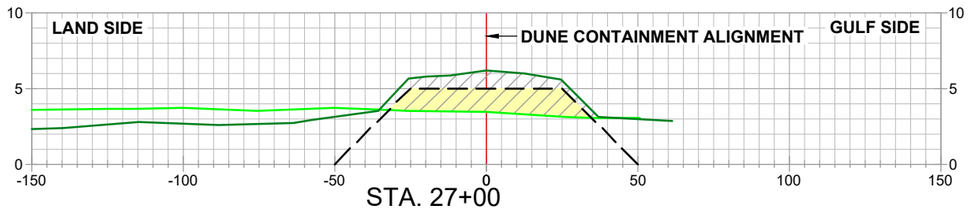
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 6 OF 17



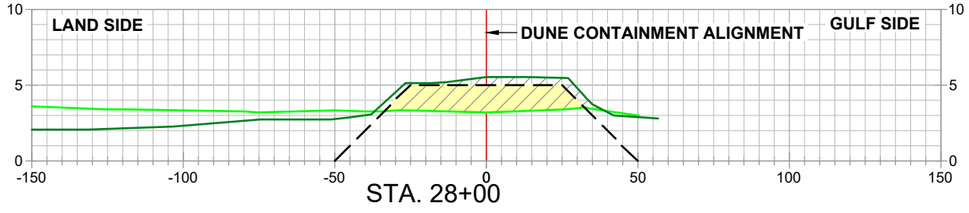
STA. 25+70



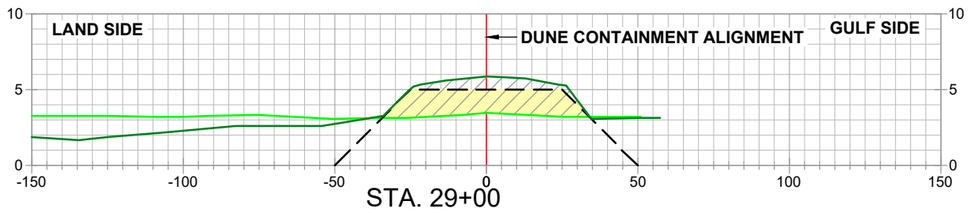
STA. 26+00



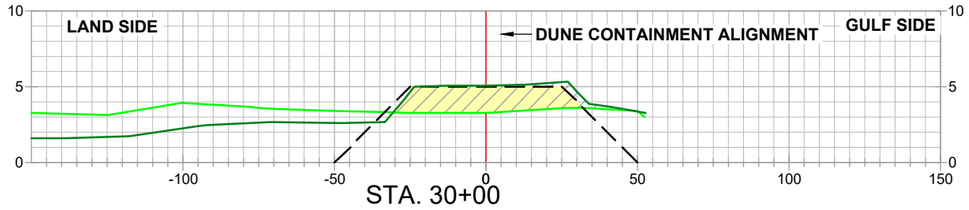
STA. 27+00



STA. 28+00



STA. 29+00



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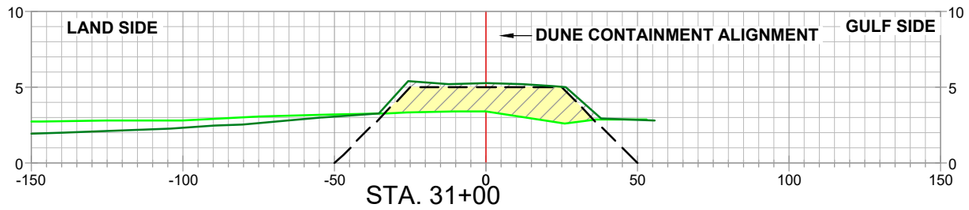
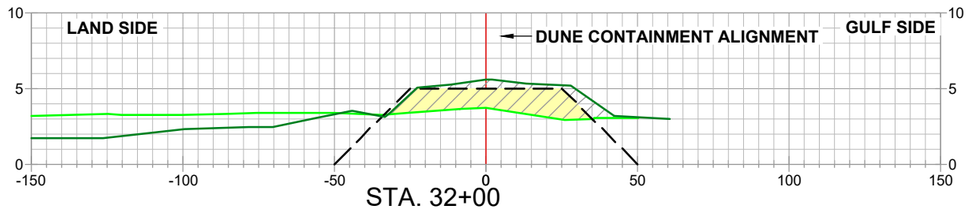
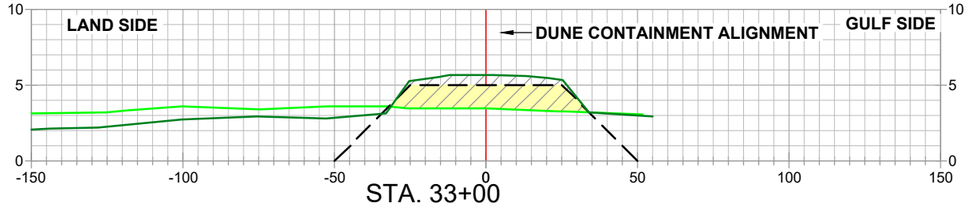


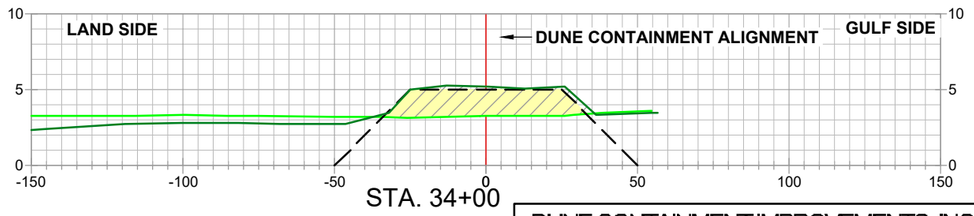
STA. 31+00



STA. 32+00

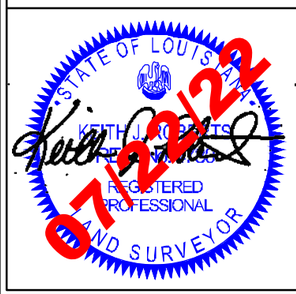


STA. 33+00



STA. 34+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

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REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

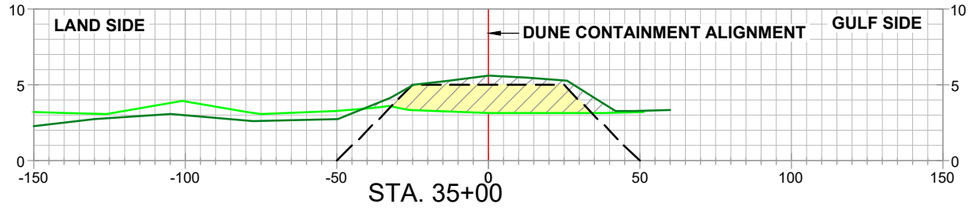
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

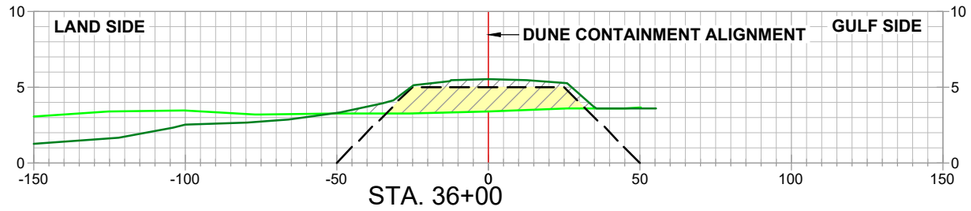
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

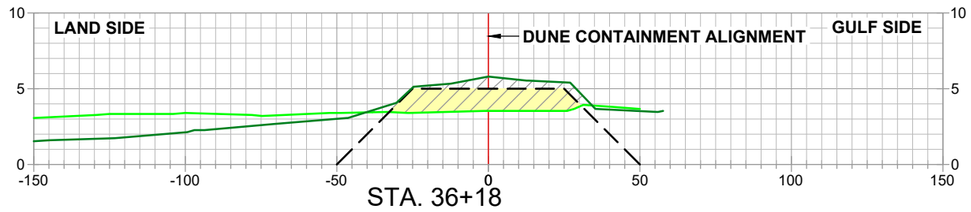
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 7 OF 17



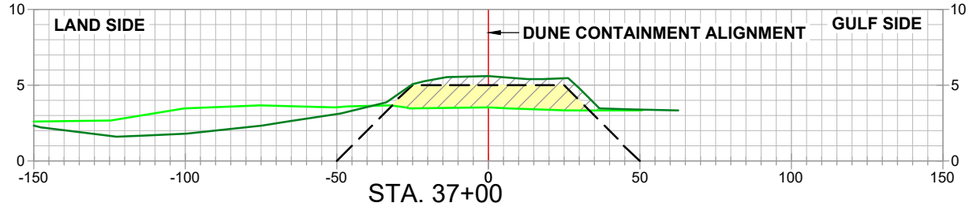
STA. 35+00



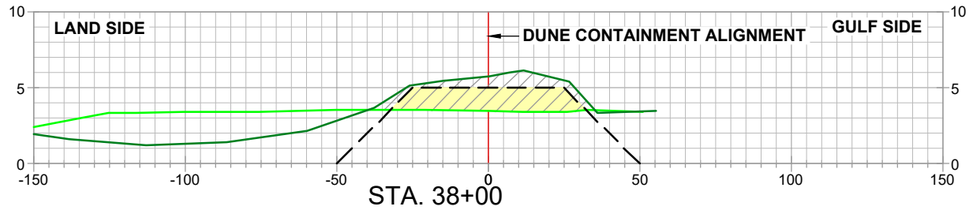
STA. 36+00



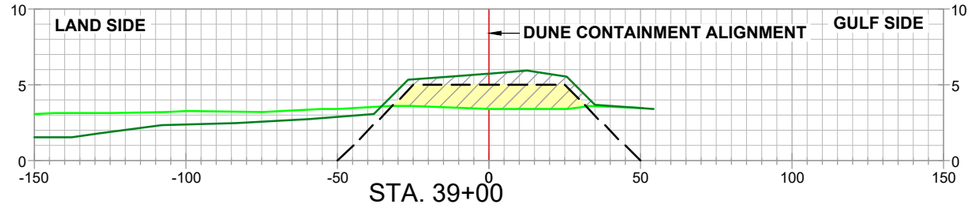
STA. 36+18



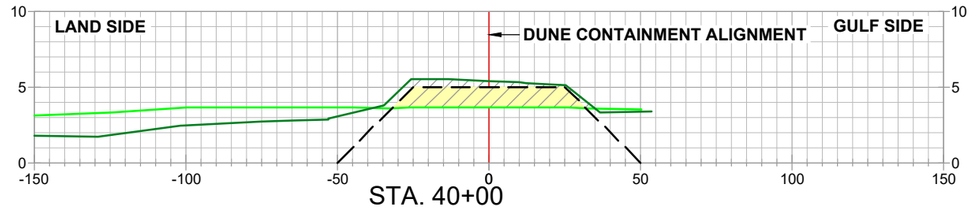
STA. 37+00



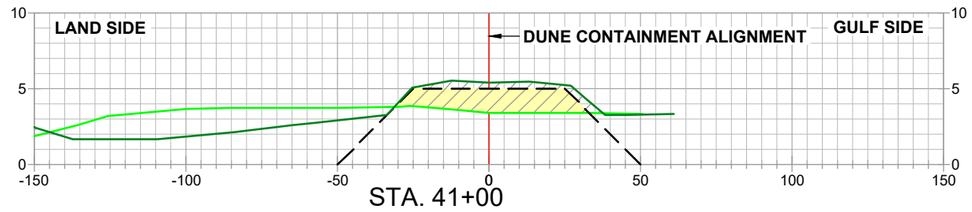
STA. 38+00



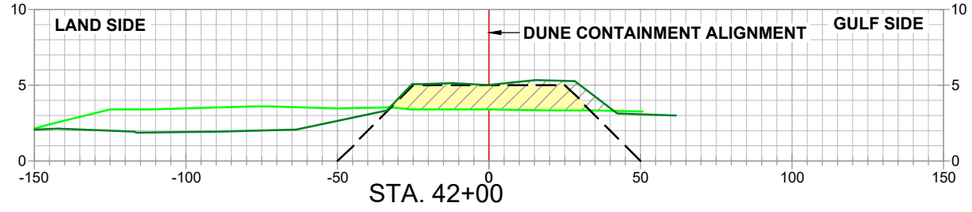
STA. 39+00



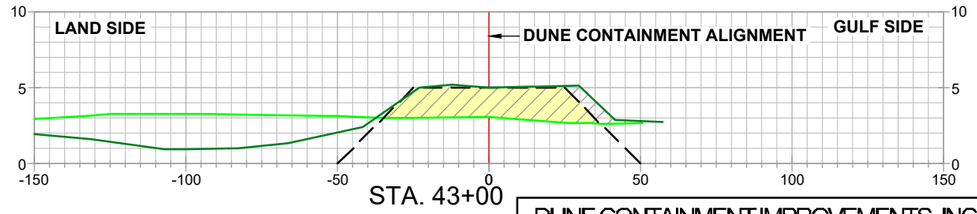
STA. 40+00



STA. 41+00



STA. 42+00



STA. 43+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

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2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

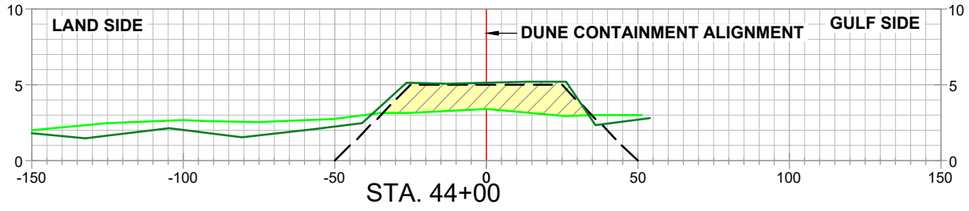
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

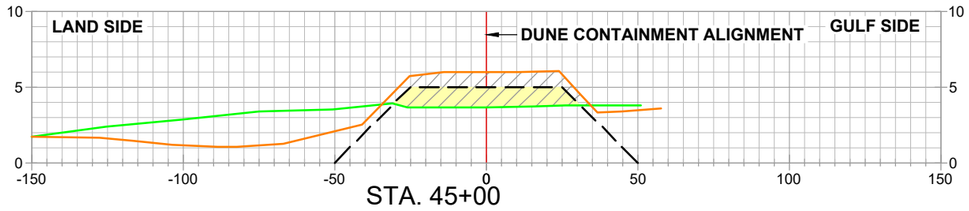
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

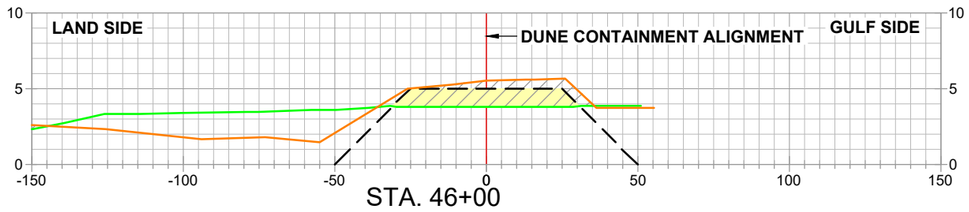
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 8 OF 17



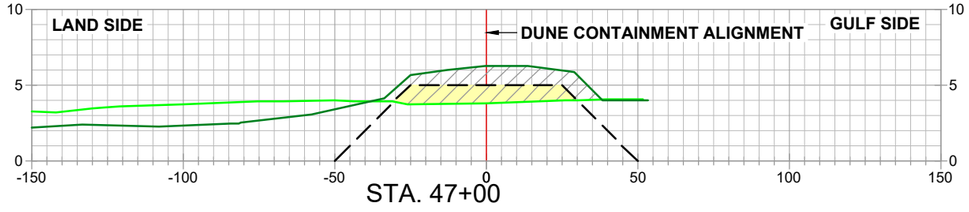
STA. 44+00



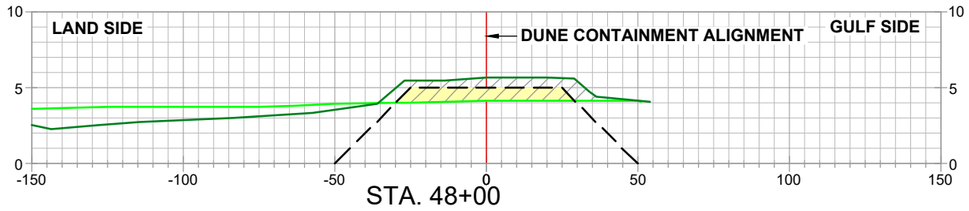
STA. 45+00



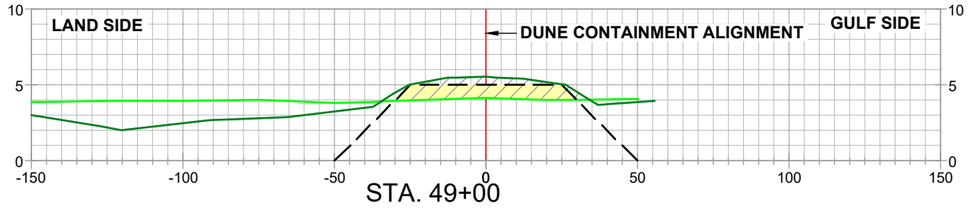
STA. 46+00



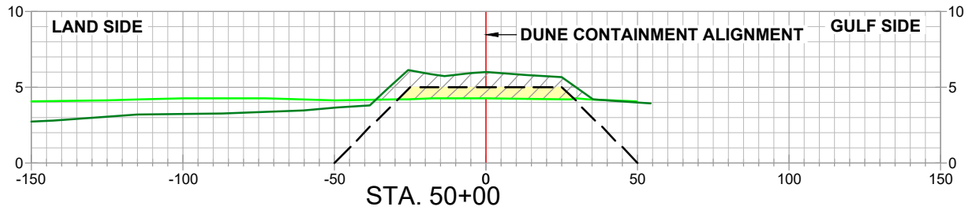
STA. 47+00



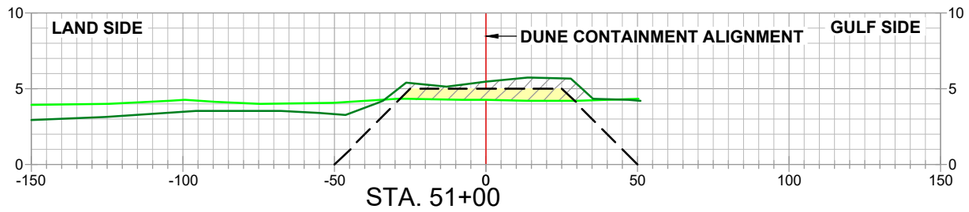
STA. 48+00



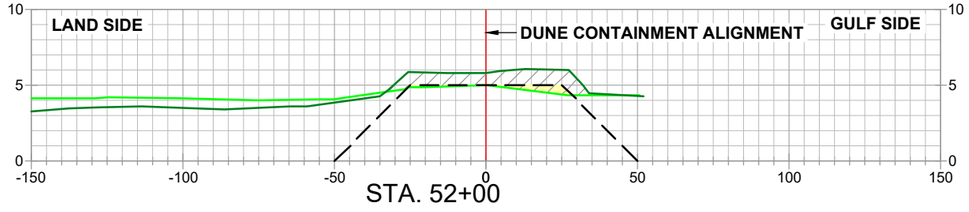
STA. 49+00



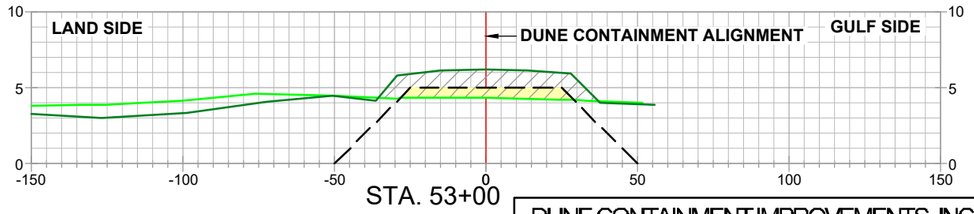
STA. 50+00



STA. 51+00



STA. 52+00



STA. 53+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
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TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

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REVISION:	DATE:

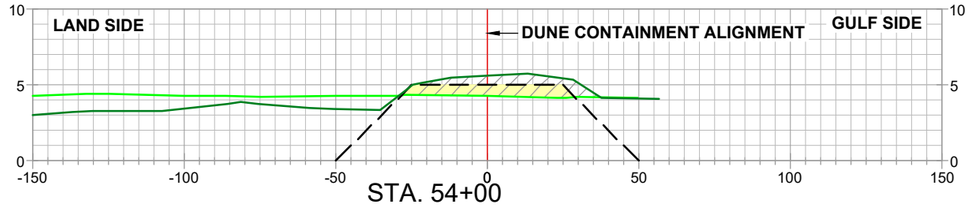
HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

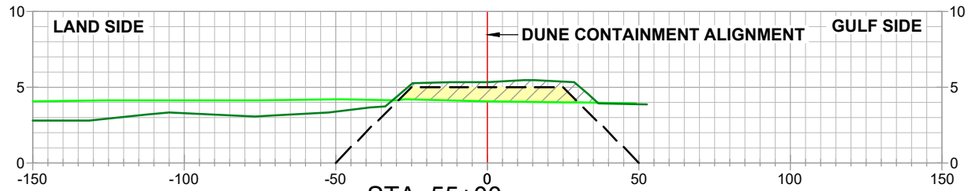
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

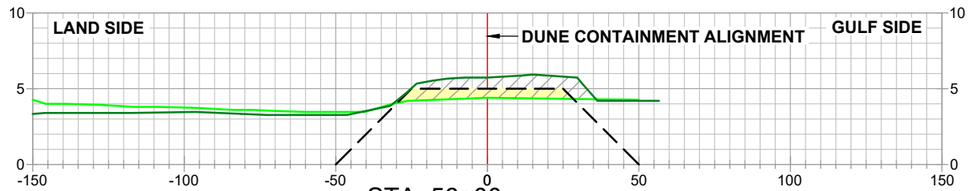
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 9 OF 17



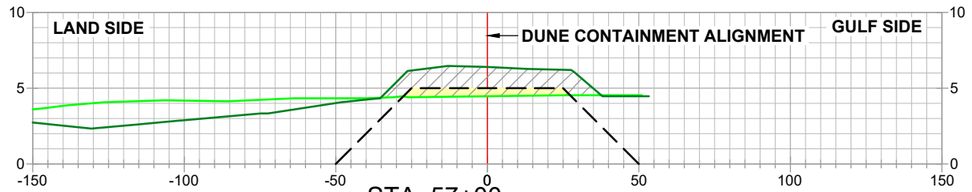
STA. 54+00



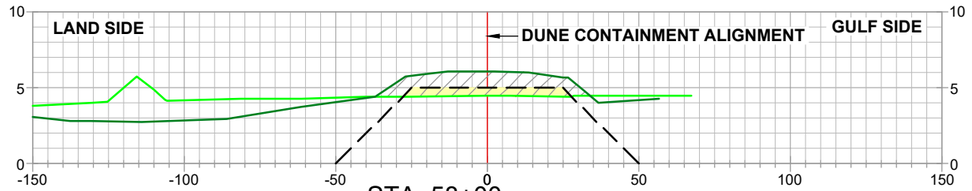
STA. 55+00



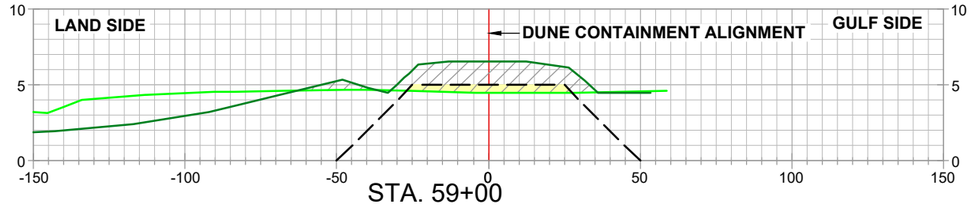
STA. 56+00



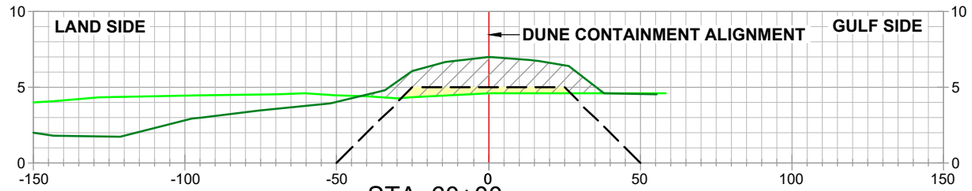
STA. 57+00



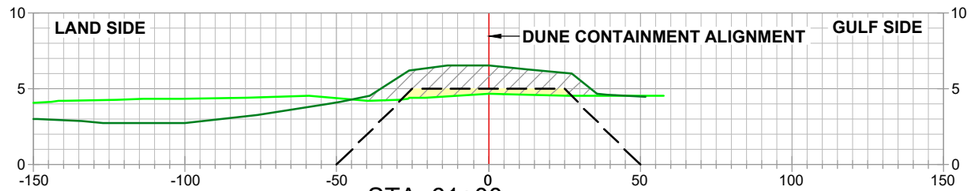
STA. 58+00



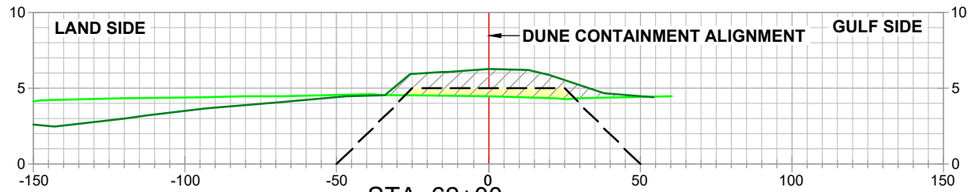
STA. 59+00



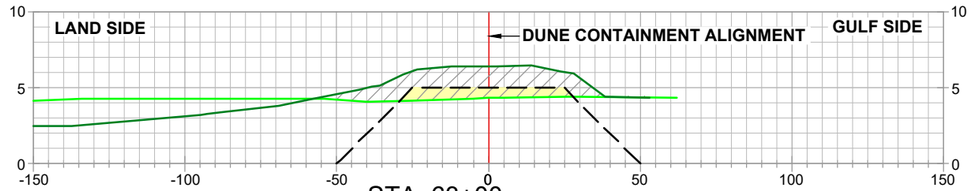
STA. 60+00



STA. 61+00



STA. 62+00



STA. 63+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

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REVISION:	DATE:

HORIZONTAL SCALE
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VERTICAL SCALE
10' 0' 5' 10'

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
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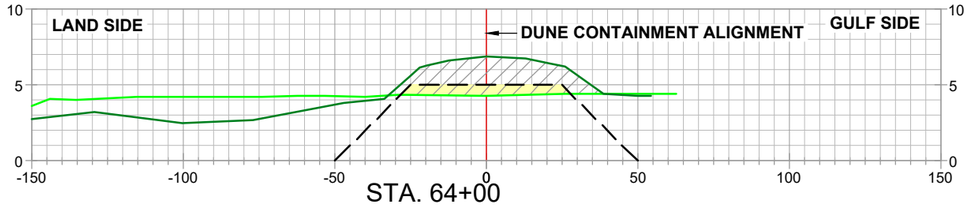
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

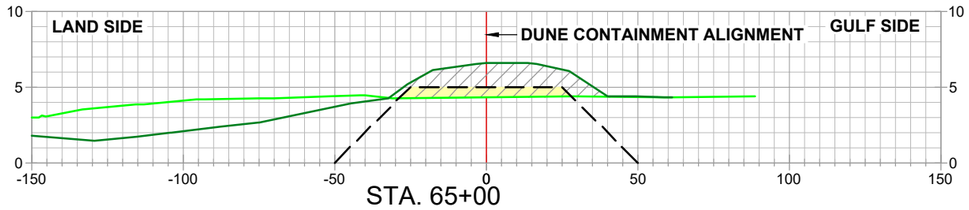
HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 10 OF 17



STA. 64+00



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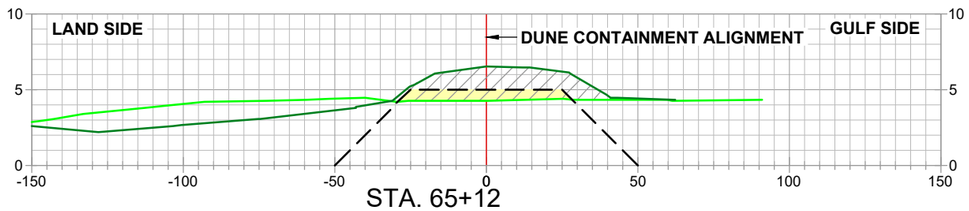
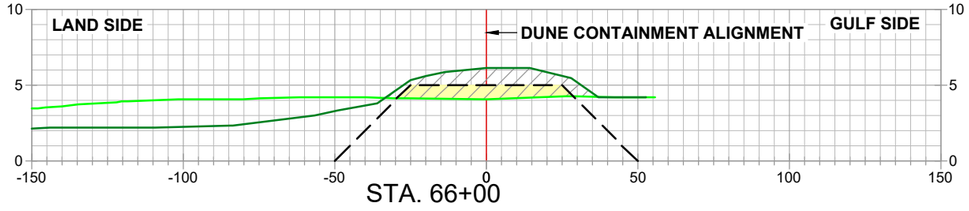
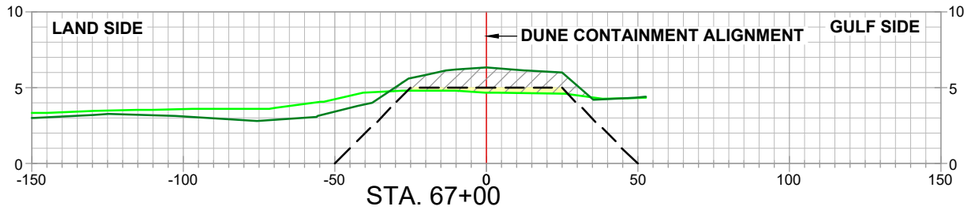


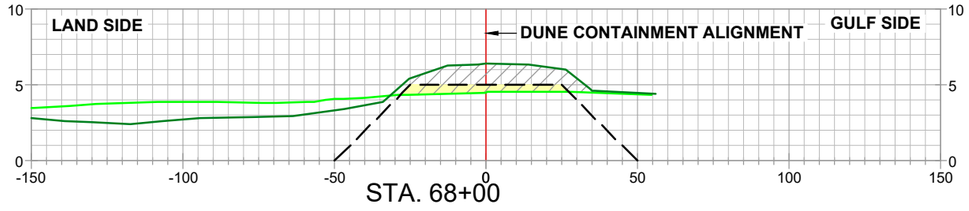
STA. 65+12



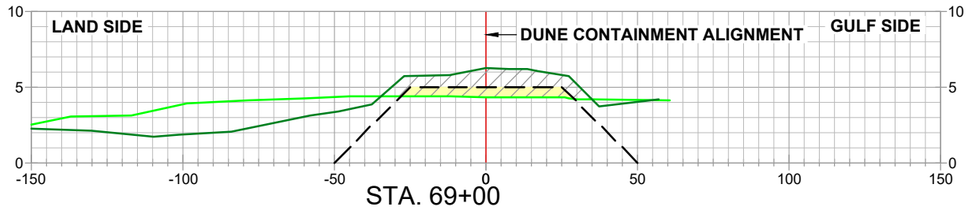
STA. 66+00



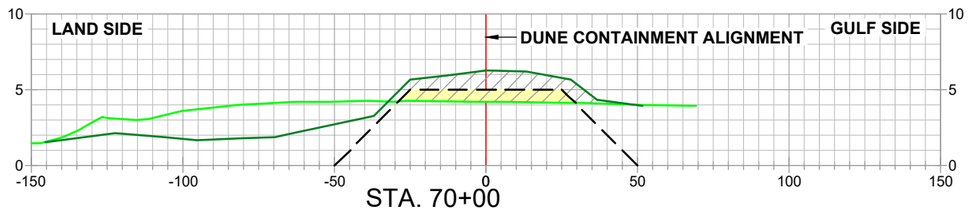
STA. 67+00



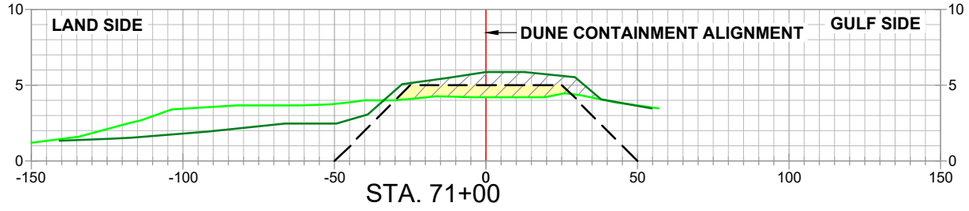
STA. 68+00



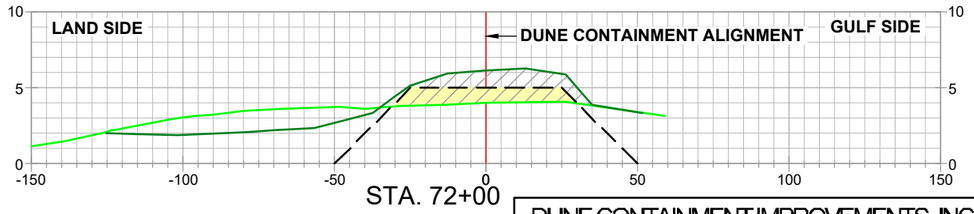
STA. 69+00



STA. 70+00



STA. 71+00



STA. 72+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

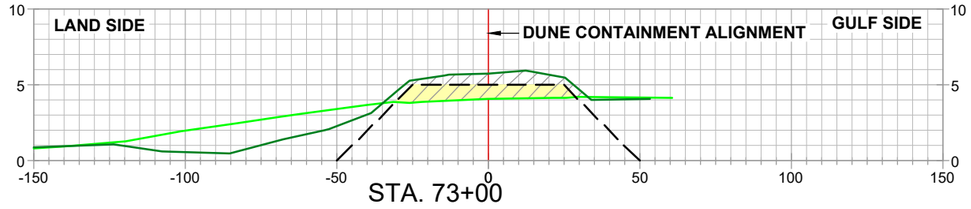
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 11 OF 17



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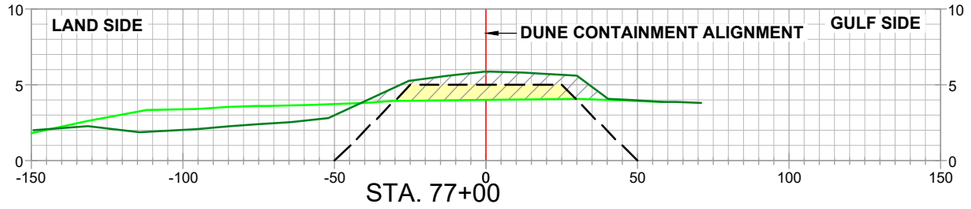
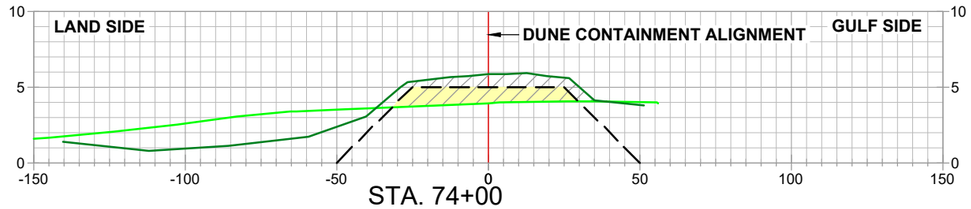
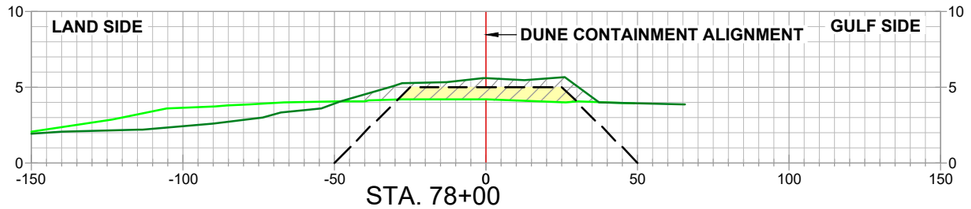


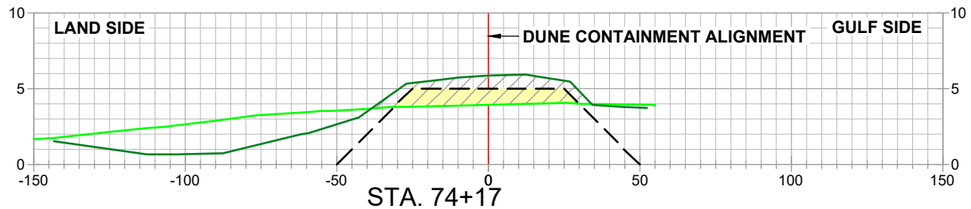
STA. 77+00



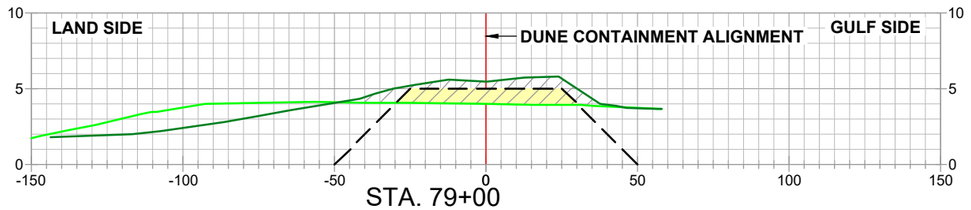
STA. 74+00



STA. 78+00



STA. 74+17



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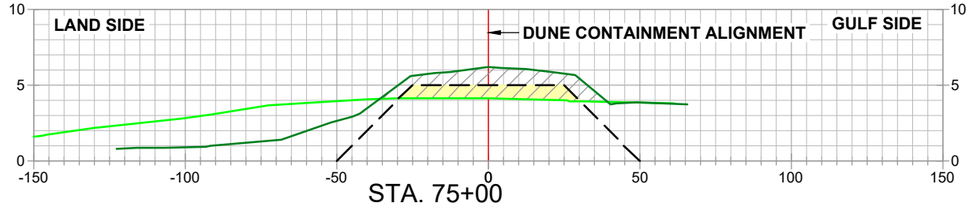

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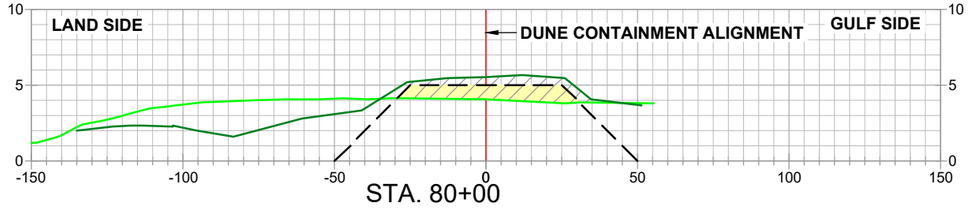

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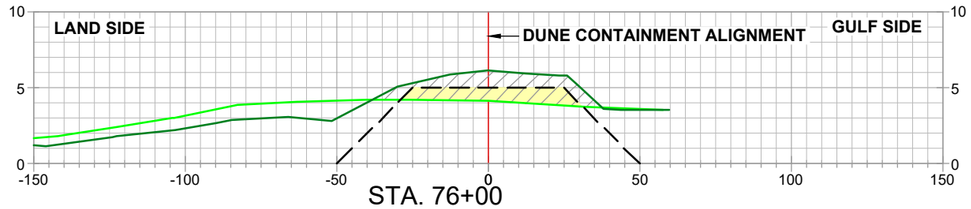

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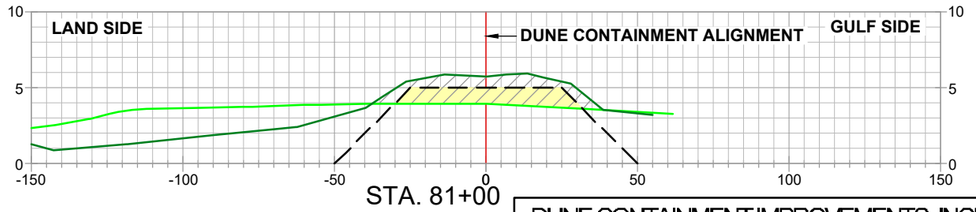


STA. 81+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

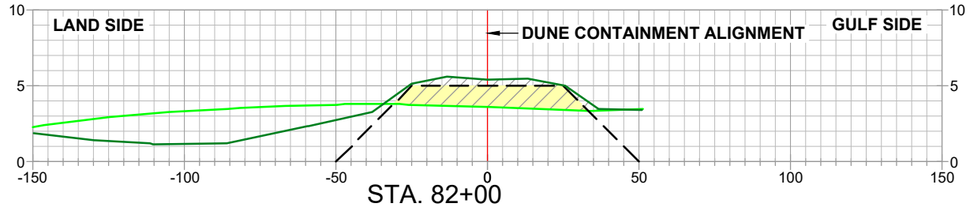
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

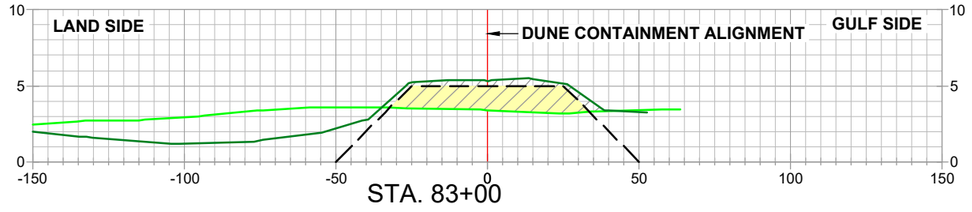
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 12 OF 17



STA. 82+00



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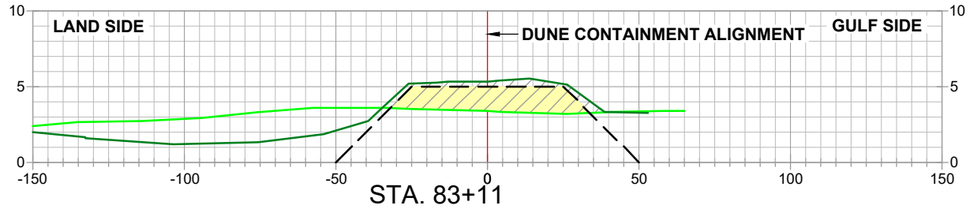
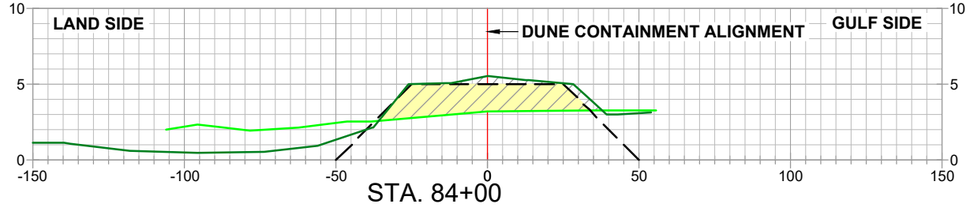


STA. 83+11



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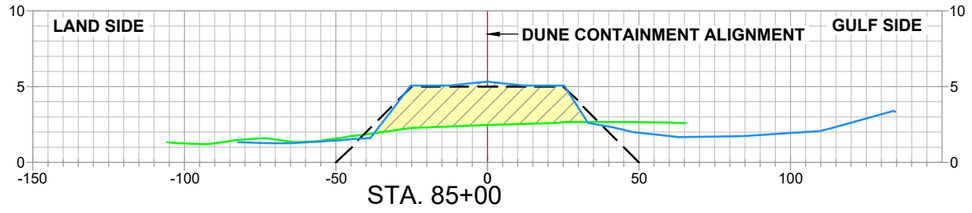
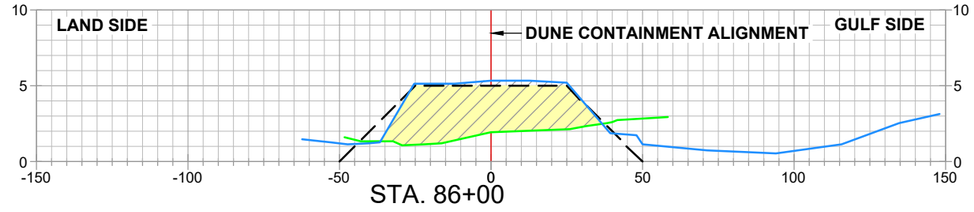


STA. 85+00



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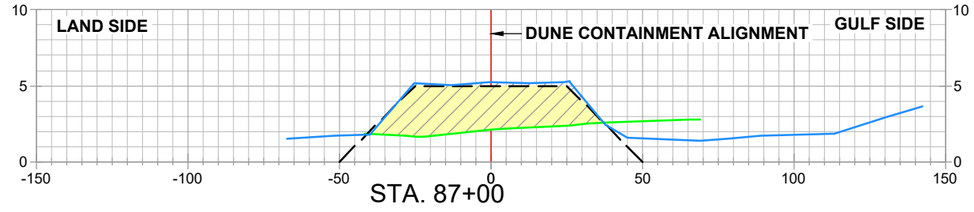
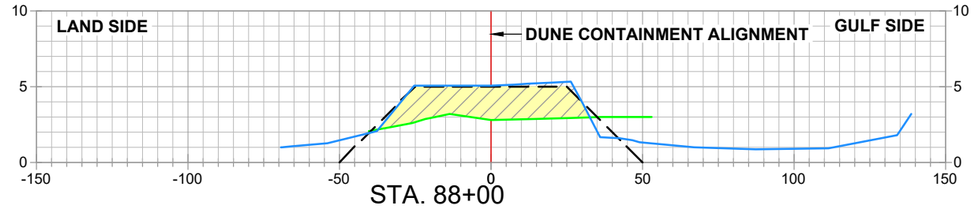


STA. 87+00



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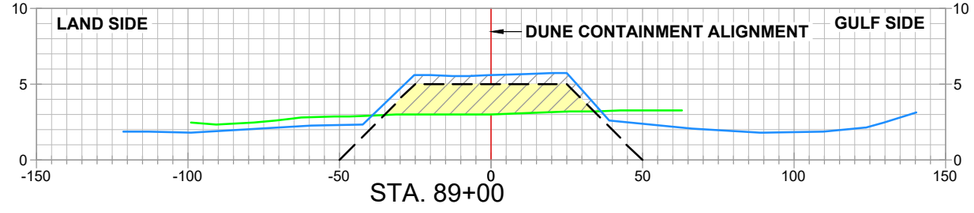
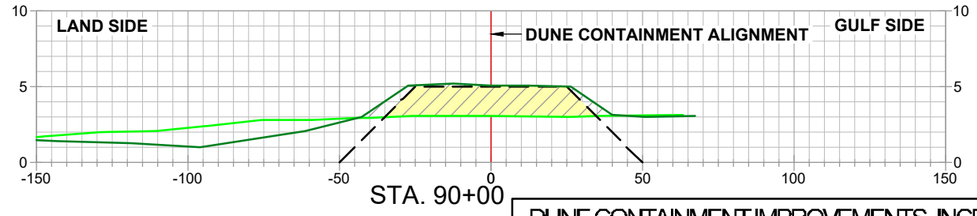


STA. 89+00



STA. 90+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

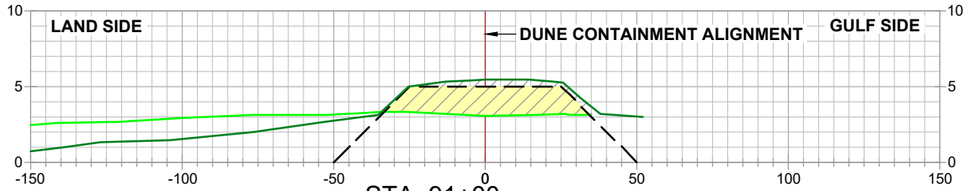
HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

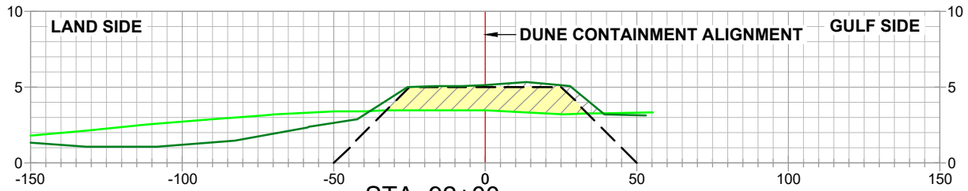
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 13 OF 17



STA. 91+00



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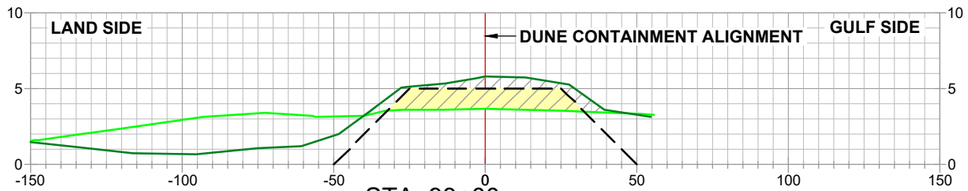
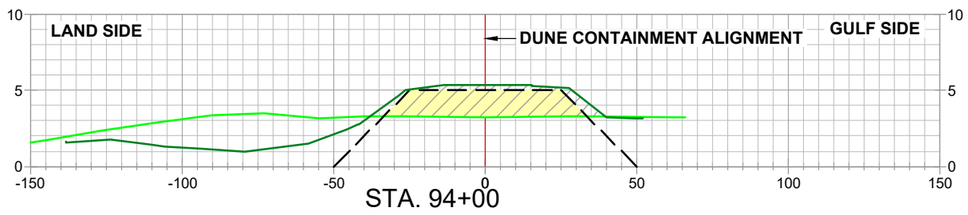
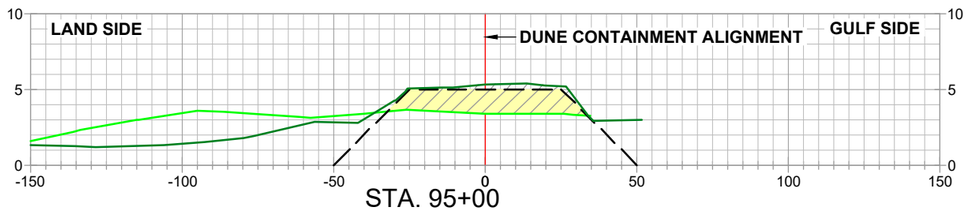


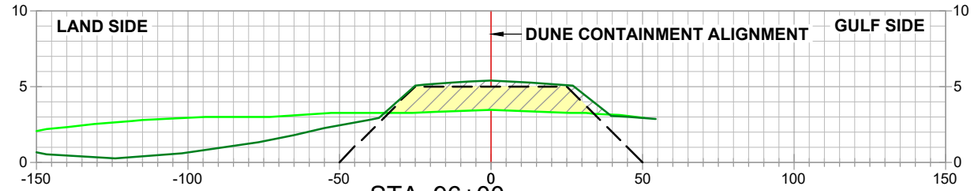
STA. 93+00



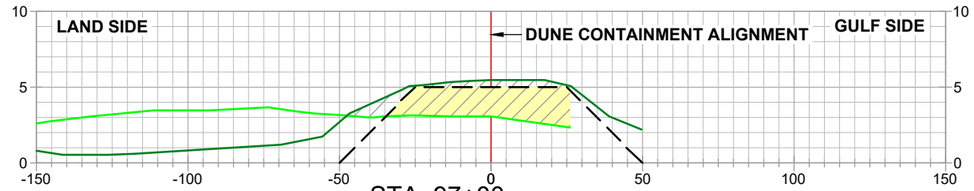
STA. 94+00



STA. 95+00



STA. 96+00



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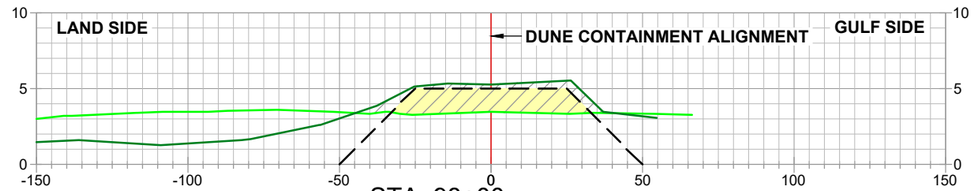
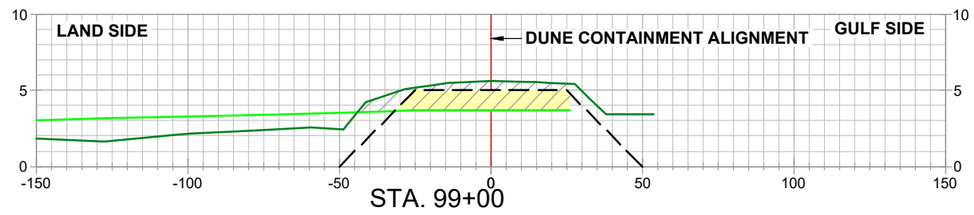
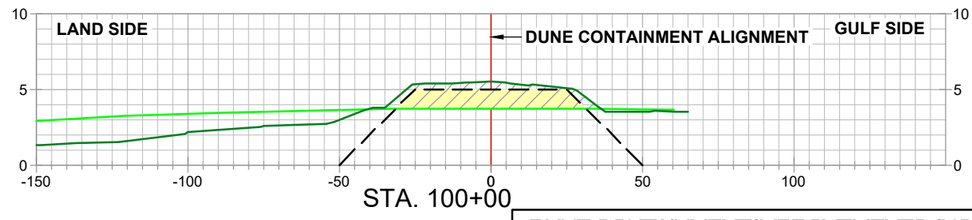


STA. 98+00



STA. 99+00



STA. 100+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

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3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

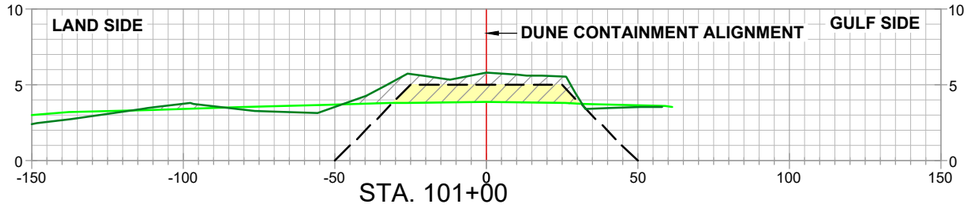
DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg



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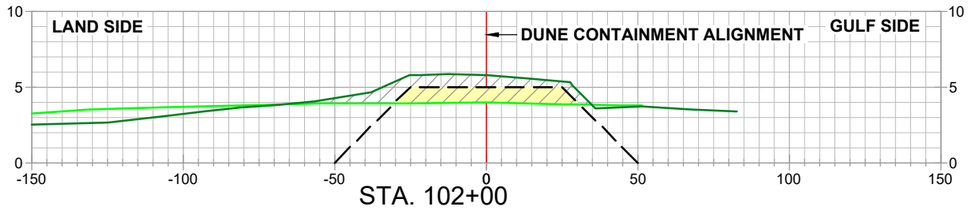
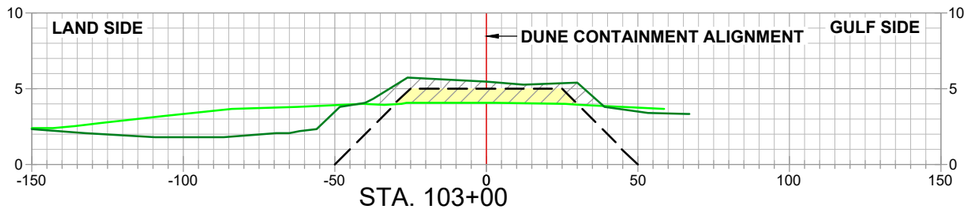
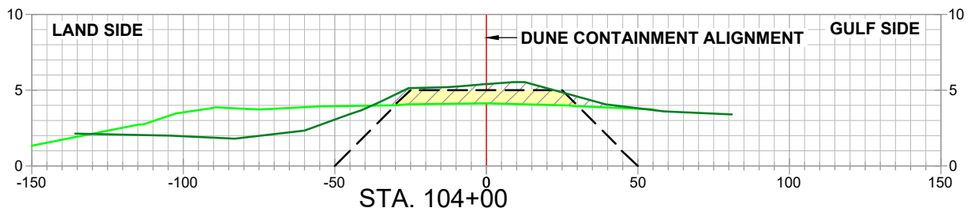


STA. 102+00



STA. 103+00



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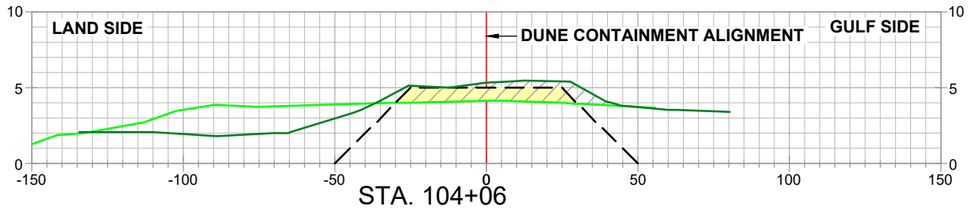
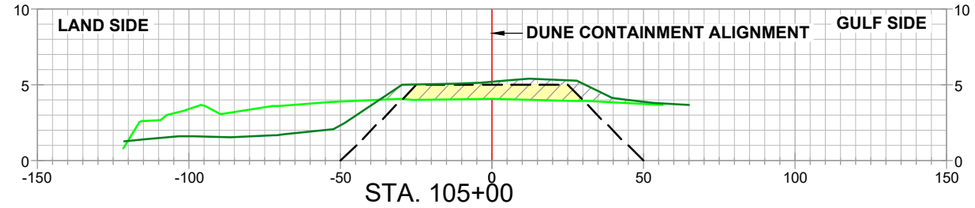
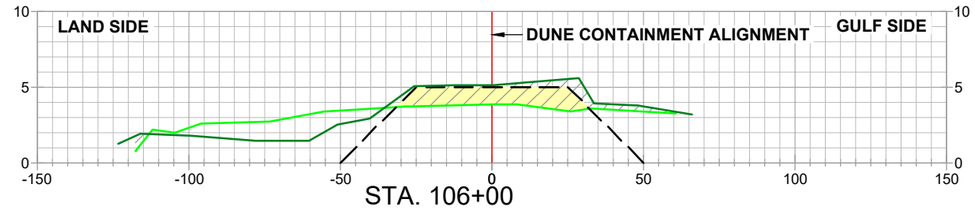


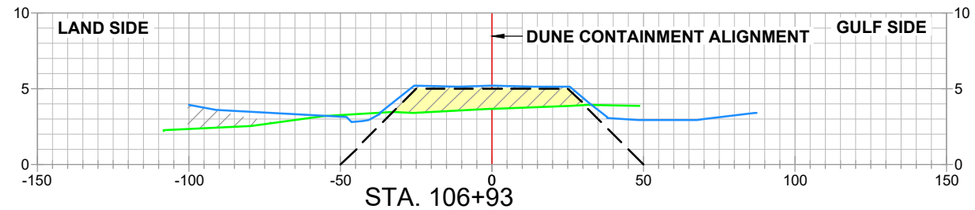
STA. 104+06



STA. 105+00



STA. 106+00



STA. 106+93

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 15 OF 17

MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
9+87.02	88.09	0.00	0.00	27+00.00	95.18	288.55	4656.46	48+00.00	47.69	205.28	11708.67	69+00.00	35.58	115.79	14321.94	89+00.00	115.77	451.55	20495.53
10+00.01	82.33	40.98	40.98	28+00.00	99.59	360.67	5017.13	49+00.00	50.82	182.41	11891.09	70+00.00	44.06	147.49	14469.43	90+00.49	114.92	429.31	20924.84
10+03.50	81.01	10.59	51.57	29+00.00	101.91	373.13	5390.26	50+00.00	42.69	173.16	12064.25	71+00.00	41.56	158.56	14627.98	91+00.00	107.73	410.30	21335.14
11+00.00	53.28	239.97	291.54	30+00.00	91.06	357.35	5747.61	51+00.00	40.47	154.00	12218.25	72+00.00	57.00	182.51	14810.49	92+00.20	93.25	372.91	21708.05
12+00.00	49.27	189.90	481.44	31+00.00	108.08	368.78	6116.39	52+00.00	10.65	94.66	12312.91	73+00.00	52.57	202.90	15013.40	93+00.00	78.98	318.31	22026.35
13+00.00	49.21	182.37	663.82	32+00.00	92.39	371.24	6487.63	53+00.00	36.04	86.45	12399.36	74+00.00	60.77	209.88	15223.28	94+00.00	100.62	332.59	22358.94
13+94.24	20.96	122.47	786.29	33+00.00	93.38	344.03	6831.66	54+00.00	38.91	138.78	12538.14	74+17.44	59.97	39.00	15262.28	95+00.00	90.84	354.56	22713.50
14+00.00	21.92	4.57	790.86	34+00.00	103.17	364.00	7195.66	55+00.00	50.37	165.33	12703.47	75+00.00	48.96	166.53	15428.81	96+00.00	97.11	348.05	23061.55
15+00.00	23.44	84.00	874.86	35+00.00	103.43	382.60	7578.26	56+00.00	36.48	160.83	12864.30	76+00.00	51.29	185.65	15614.46	97+00.00	116.90	396.31	23457.86
16+00.00	15.06	71.29	946.15	36+00.00	92.28	362.43	7940.69	57+00.00	27.66	118.77	12983.07	77+00.00	53.66	194.36	15808.82	98+00.00	94.27	391.06	23848.92
17+00.00	64.82	147.91	1094.06	36+17.88	86.24	59.12	7999.82	58+00.00	28.74	104.45	13087.52	78+00.00	48.54	189.27	15998.08	99+00.00	70.38	304.91	24153.83
18+00.00	110.41	324.49	1418.55	37+00.00	88.20	265.26	8265.08	59+00.00	25.75	100.92	13188.43	79+00.00	55.76	193.15	16191.23	100+00.00	72.48	264.56	24418.39
19+00.00	92.70	376.13	1794.67	38+00.00	87.83	325.97	8591.05	60+00.00	25.69	95.26	13283.69	80+00.00	53.17	201.72	16392.95	101+00.00	64.34	253.37	24671.77
19+05.56	92.15	19.05	1813.72	39+00.00	85.89	321.70	8912.75	61+00.00	24.10	92.20	13375.89	81+00.00	62.03	213.32	16606.28	102+00.00	58.82	228.07	24899.84
20+00.26	86.67	313.59	2127.31	40+00.00	76.99	301.62	9214.37	62+00.00	29.93	100.06	13475.95	82+00.00	78.31	259.89	16866.17	103+00.00	51.98	205.19	25105.03
21+00.00	108.98	361.37	2488.68	41+00.00	84.98	299.94	9514.31	63+00.00	36.62	123.24	13599.19	83+00.00	94.25	319.57	17185.73	104+00.00	49.65	188.20	25293.23
22+00.00	95.39	378.47	2867.15	42+00.00	93.86	331.18	9845.50	64+00.00	34.17	131.10	13730.29	83+10.74	95.92	37.84	17223.57	104+05.99	49.86	11.04	25304.27
23+00.36	117.74	396.12	3263.26	43+00.00	123.68	402.84	10248.34	65+00.00	37.45	132.64	13862.93	84+00.00	115.68	349.75	17573.32	105+00.00	52.88	178.87	25483.14
24+00.00	111.93	423.78	3687.05	43+99.75	104.17	420.90	10669.24	65+11.94	38.33	16.75	13879.68	85+00.00	153.39	498.27	18071.60	105+99.87	73.75	234.20	25717.35
25+00.00	98.27	389.27	4076.31	45+00.00	74.00	330.75	10999.99	66+00.00	46.57	138.45	14018.13	86+00.00	203.37	660.67	18732.26	106+92.66	77.05	259.13	25976.48
25+70.08	70.44	218.97	4295.28	46+00.00	67.06	261.21	11261.20	67+00.00	14.01	112.18	14130.31	87+00.00	188.44	725.58	19457.84				
26+00.00	60.64	72.62	4367.90	47+00.23	63.43	242.20	11503.39	68+00.00	26.94	75.84	14206.15	88+00.00	128.07	586.13	20043.98				

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-22

REVISION:	DATE:

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 16 OF 17

GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
9+87.02	166.00	0.00	0.00	27+00.00	152.72	476.76	7656.21	48+00.00	96.75	433.00	17326.63	69+00.00	98.69	366.65	25208.18	89+00.00	161.70	550.81	34372.55
10+00.01	158.38	78.00	78.00	28+00.00	131.24	525.84	8182.05	49+00.00	74.97	317.99	17644.62	70+00.00	109.98	386.42	25594.60	90+00.49	139.88	561.23	34933.78
10+03.50	156.84	20.43	98.43	29+00.00	136.58	495.96	8678.00	50+00.00	100.00	324.02	17968.64	71+00.00	88.13	366.87	25961.47	91+00.00	131.19	499.53	35433.31
11+00.00	128.17	509.31	607.74	30+00.00	104.02	445.55	9123.56	51+00.00	76.29	326.47	18295.11	72+00.00	117.00	379.86	26341.33	92+00.20	113.29	453.65	35886.95
12+00.00	143.06	502.28	1110.02	31+00.00	129.92	433.22	9556.78	52+00.00	70.55	271.93	18567.04	73+00.00	96.70	395.74	26737.07	93+00.00	125.31	440.99	36327.95
13+00.00	96.83	444.23	1554.25	32+00.00	122.08	466.67	10023.46	53+00.00	113.33	340.52	18907.56	74+00.00	110.58	383.86	27120.92	94+00.00	131.01	474.66	36802.61
13+94.24	87.77	322.18	1876.43	33+00.00	123.12	454.07	10477.53	54+00.00	72.42	343.97	19251.53	74+17.44	109.66	71.15	27192.07	95+00.00	107.21	441.14	37243.75
14+00.00	89.55	18.91	1895.33	34+00.00	115.98	442.77	10920.30	55+00.00	75.68	274.25	19525.77	75+00.00	116.57	345.86	27537.93	96+00.00	116.56	414.39	37658.14
15+00.00	65.06	286.33	2181.66	35+00.00	140.58	475.11	11395.41	56+00.00	82.68	293.25	19819.02	76+00.00	113.29	425.66	27963.59	97+00.00	151.72	496.83	38154.97
16+00.00	51.88	216.57	2398.23	36+00.00	124.66	491.19	11886.61	57+00.00	116.23	368.35	20187.38	77+00.00	112.96	418.99	28382.58	98+00.00	130.02	521.75	38676.72
17+00.00	90.44	263.56	2661.79	36+17.88	118.89	80.66	11967.26	58+00.00	93.28	387.99	20575.37	78+00.00	90.69	377.13	28759.71	99+00.00	111.56	447.37	39124.09
18+00.00	123.99	397.09	3058.87	37+00.00	123.91	369.22	12336.48	59+00.00	123.47	401.40	20976.77	79+00.00	105.78	363.83	29123.54	100+00.00	100.63	392.94	39517.03
19+00.00	135.16	479.90	3538.77	38+00.00	135.12	479.68	12816.16	60+00.00	133.36	475.61	21452.38	80+00.00	89.45	361.53	29485.08	101+00.00	121.16	410.72	39927.75
19+05.56	134.80	27.81	3566.59	39+00.00	132.67	495.90	13312.06	61+00.00	118.25	465.93	21918.31	81+00.00	116.97	382.25	29867.32	102+00.00	121.25	448.90	40376.65
20+00.26	114.02	436.36	4002.94	40+00.00	104.69	439.56	13751.63	62+00.00	101.53	406.99	22325.30	82+00.00	107.21	415.15	30282.47	103+00.00	96.58	403.39	40780.04
21+00.00	138.50	466.42	4469.36	41+00.00	112.26	401.77	14153.40	63+00.00	143.84	454.38	22779.68	83+00.00	121.65	423.83	30706.30	104+00.00	76.51	320.53	41100.58
22+00.00	129.66	496.60	4965.96	42+00.00	115.29	421.40	14574.80	64+00.00	129.93	506.97	23286.65	83+10.74	122.62	48.60	30754.90	104+05.99	80.20	17.38	41117.96
23+00.36	185.87	586.41	5552.37	43+00.00	146.03	483.94	15058.74	65+00.00	121.31	465.25	23751.90	84+00.00	134.11	424.35	31179.25	105+00.00	83.51	285.01	41402.97
24+00.00	153.16	625.56	6177.94	43+99.75	120.40	492.18	15550.92	65+11.94	119.12	53.15	23805.05	85+00.00	160.50	545.57	31724.82	105+99.87	105.44	349.43	41752.40
25+00.00	142.01	546.62	6724.56	45+00.00	133.02	470.47	16021.38	66+00.00	103.91	363.72	24168.77	86+00.00	217.33	699.68	32424.50	106+92.66	116.07	380.64	42133.04
25+70.08	114.78	333.28	7057.83	46+00.00	99.90	431.35	16452.73	67+00.00	80.04	340.65	24509.42	87+00.00	200.73	774.17	33198.67				
26+00.00	104.74	121.61	7179.44	47+00.23	137.62	440.90	16893.63	68+00.00	99.30	332.11	24841.53	88+00.00	135.73	623.07	33821.74				



DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 1

REVISION:	DATE:

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 1
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

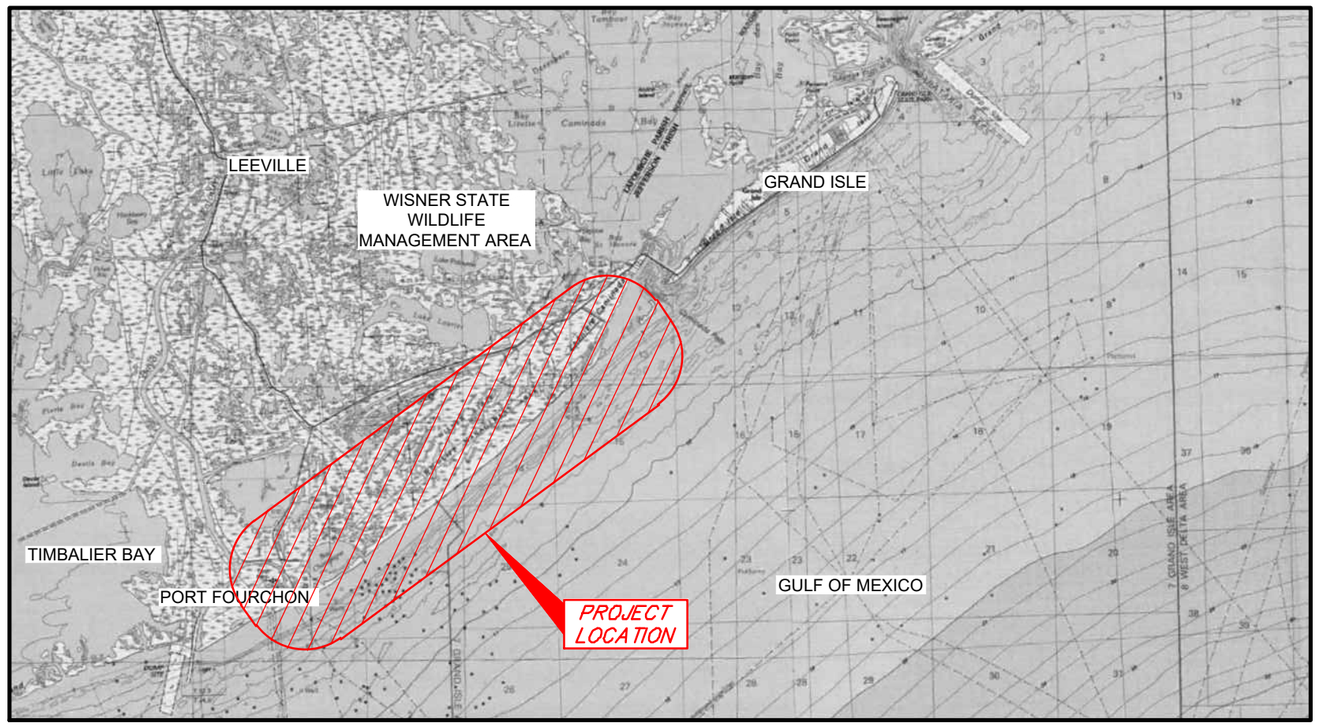
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 1_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 17 OF 17

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 15	CROSS-SECTION VIEWS
16 - 17	VOLUME REPORT

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
7/22/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISION:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 1 OF 17

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. DUNE PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 02-23-22 AND 04-10-22 INCLUSIVE.
5. DUNE PROGRESS SURVEY SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 03-16-22 AND 07-15-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL TRAINING DIKE 3

EARTHEN CONTAINMENT DIKE ALIGNMENT

RFI #56
DUNE CENTERLINE REALIGNMENT
STA. 309+00 THROUGH STA. 322+00

BAYOU MOREAU

INCREMENT 3

50' BEACH AND DUNE CROSSING

GULF OF MEXICO

EQUIPMENT ACCESS CORRIDOR (EA3)

DREDGE PIPELINE CORRIDOR

EQUIPMENT ACCESS CORRIDOR (EA1)

INTERNAL TRAINING DIKE 2

EQUIPMENT ACCESS CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

50' BEACH AND DUNE CROSSING

DREDGE PIPELINE CORRIDOR

BAYOU LAFOURCHE

PORT FOURCHON MARINA

INCREMENT 1

DREDGE PIPELINE CORRIDOR

SW BORROW AREA

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISION:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

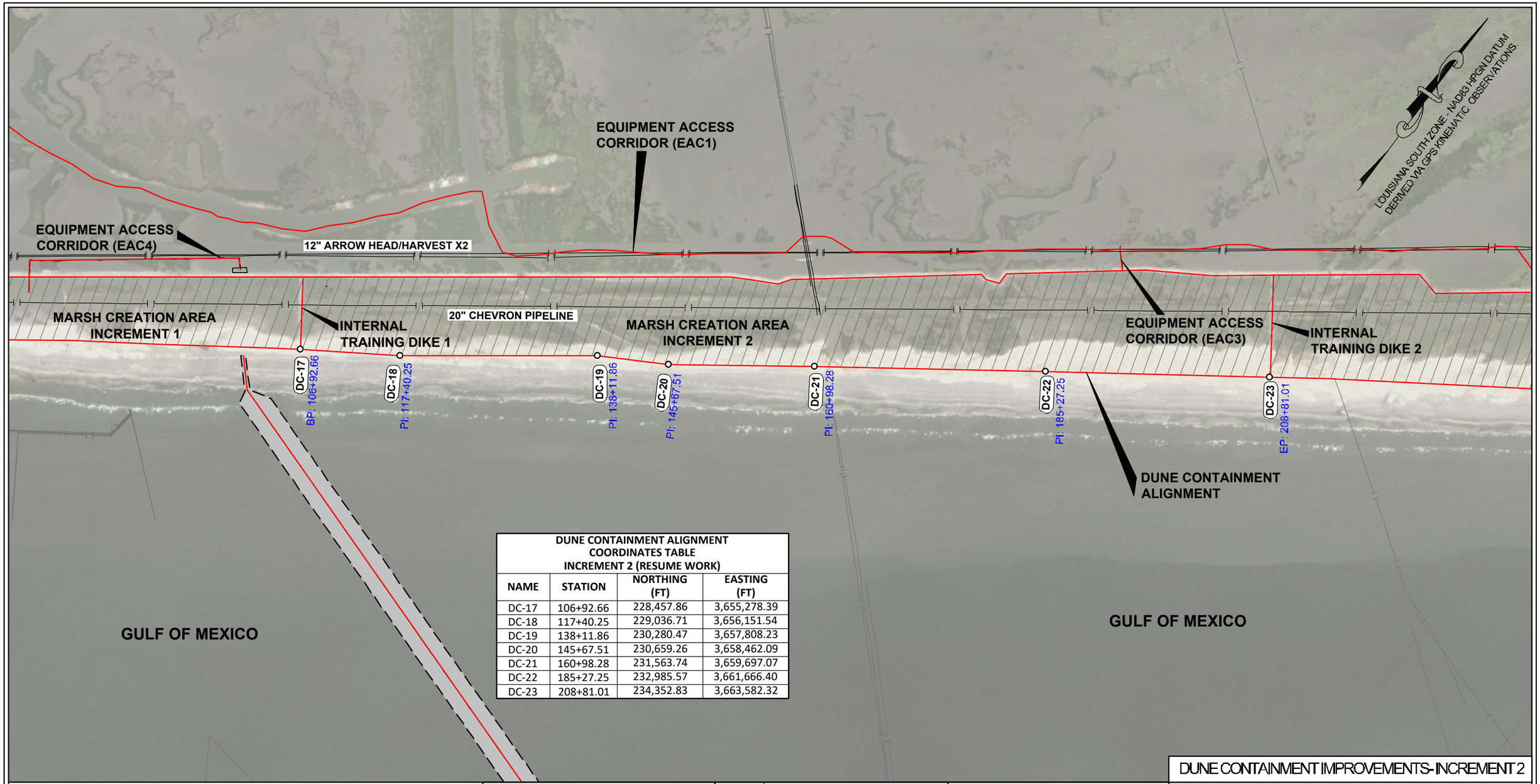
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 2 OF 17



DUNE CONTAINMENT ALIGNMENT COORDINATES TABLE INCREMENT 2 (RESUME WORK)

NAME	STATION	NORTHING (FT)	EASTING (FT)
DC-17	106+92.66	228,457.86	3,655,278.39
DC-18	117+40.25	229,036.71	3,656,151.54
DC-19	138+11.86	230,280.47	3,657,808.23
DC-20	145+67.51	230,659.26	3,658,462.09
DC-21	160+98.28	231,563.74	3,659,697.07
DC-22	185+27.25	232,985.57	3,661,666.40
DC-23	208+81.01	234,352.83	3,663,582.32

STATE OF LOUISIANA
KEITH JOSEPH ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg

SHEET: 3 OF 17

EQUIPMENT ACCESS CORRIDOR (EAC1)

EQUIPMENT ACCESS CORRIDOR (EAC4)

12" ARROW HEAD/HARVEST X2

MARSH CREATION AREA INCREMENT 1

INTERNAL TRAINING DIKE 1

20" CHEVRON PIPELINE

MARSH CREATION AREA INCREMENT 2

EQUIPMENT ACCESS CORRIDOR (EAC3)

INTERNAL TRAINING DIKE 2

DUNE CONTAINMENT ALIGNMENT

106+93

DC-17

117+40

138+00

138+12

145+68

185+27

DC-23

GULF OF MEXICO

GULF OF MEXICO

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL
LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'

1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

GREAT LAKES DREDGE & DOCK IMPROVEMENTS

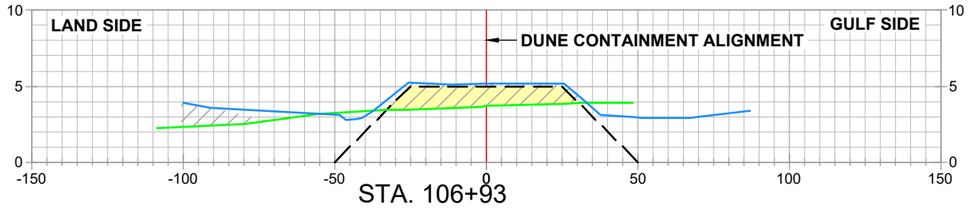
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

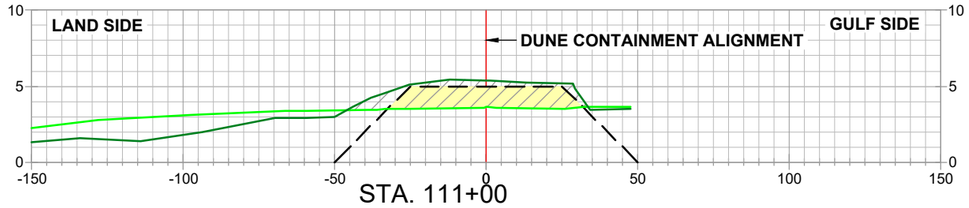
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg

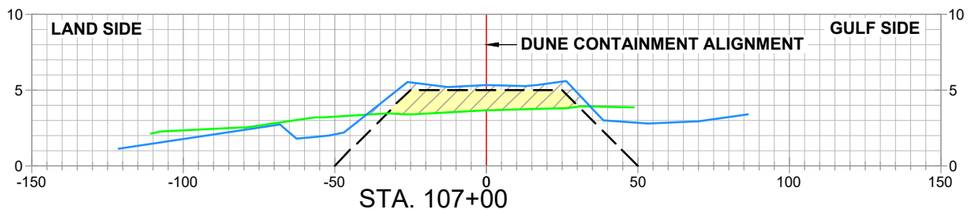
SHEET: 4 OF 17



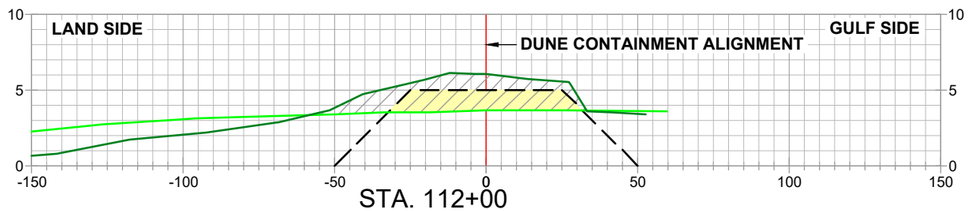
STA. 106+93



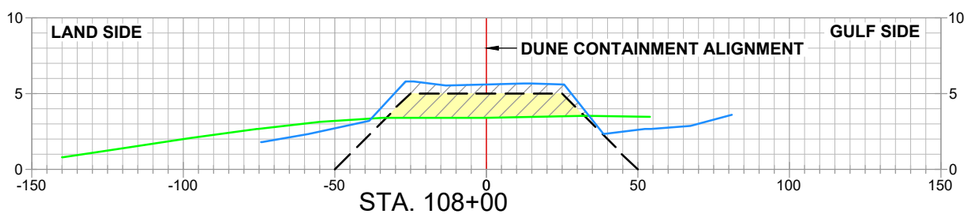
STA. 111+00



STA. 107+00



STA. 112+00



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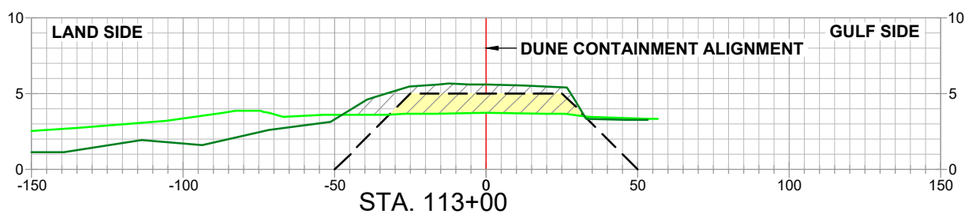
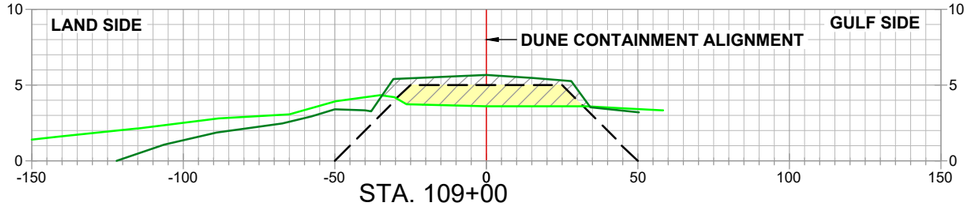
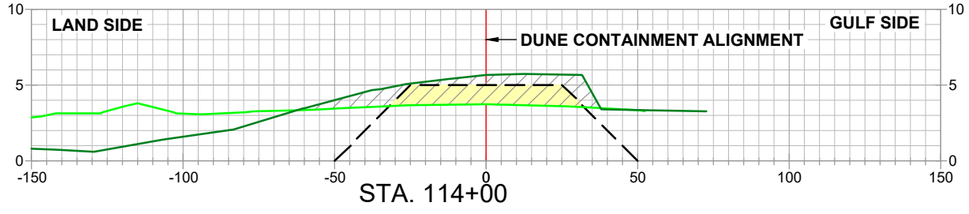


STA. 113+00



STA. 109+00



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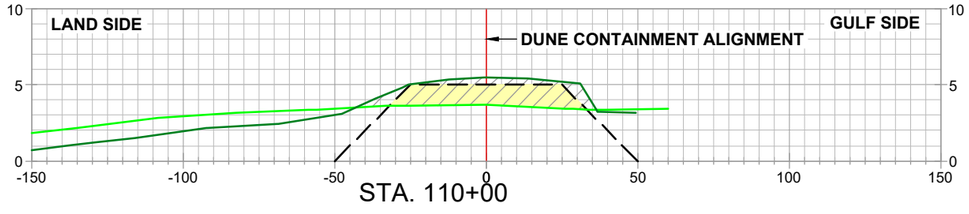
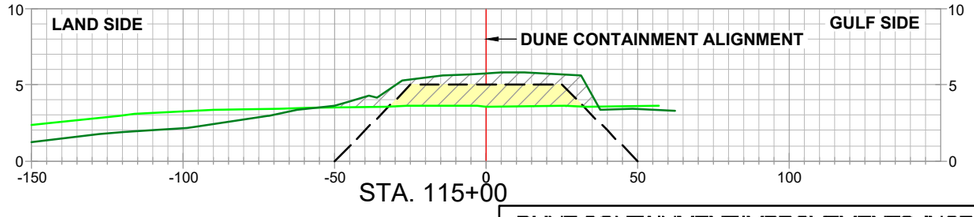


STA. 110+00



STA. 115+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

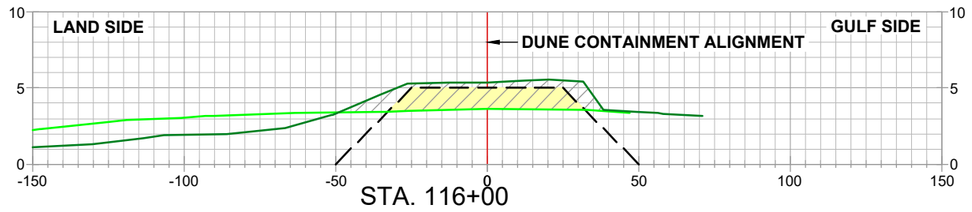
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

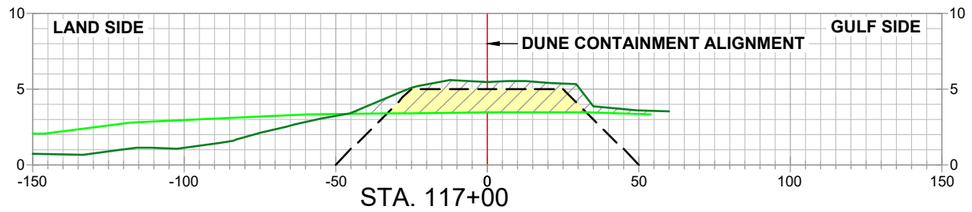
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg

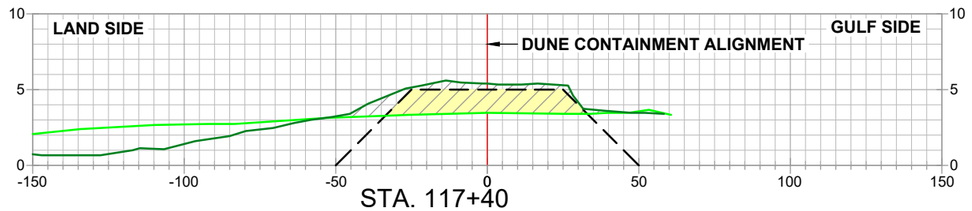
SHEET: 5 OF 17



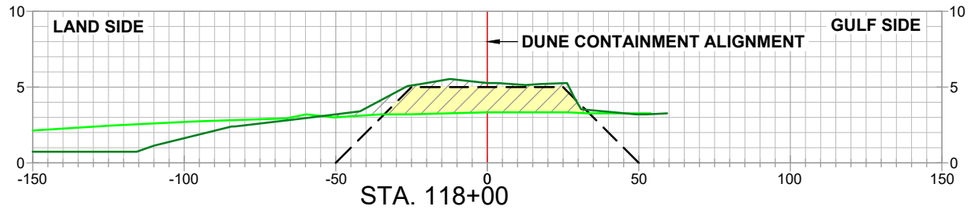
STA. 116+00



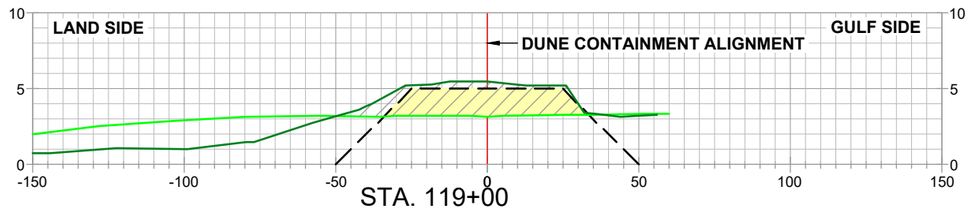
STA. 117+00



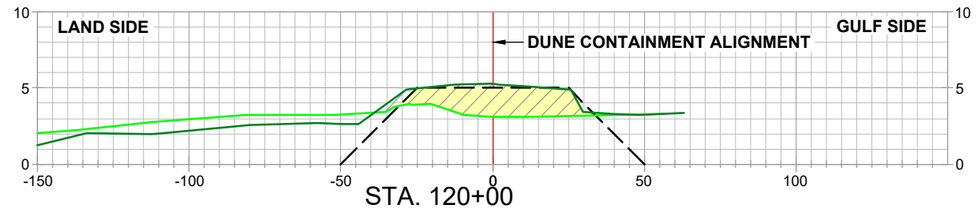
STA. 117+40



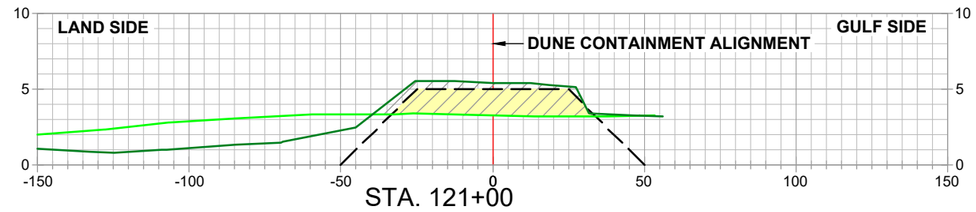
STA. 118+00



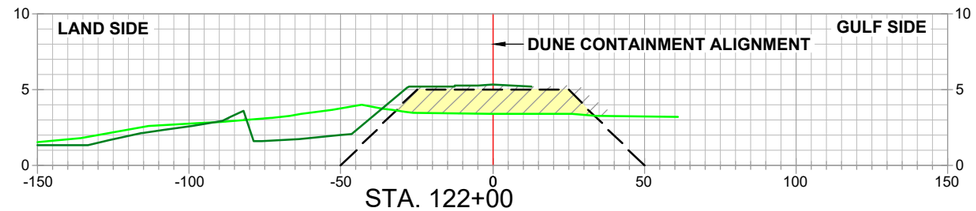
STA. 119+00



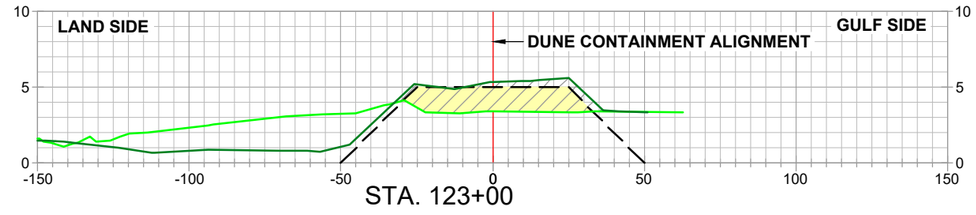
STA. 120+00



STA. 121+00



STA. 122+00



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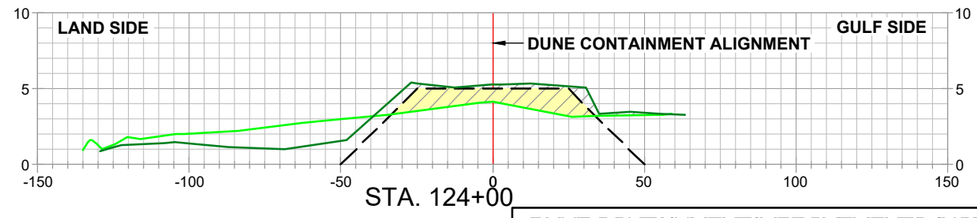


STA. 124+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

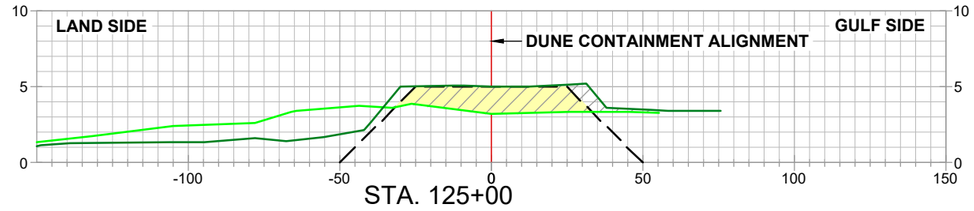
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

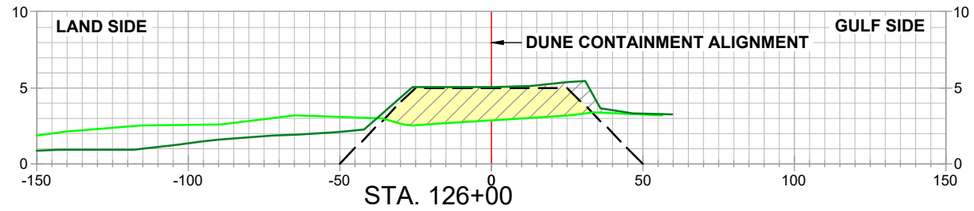
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

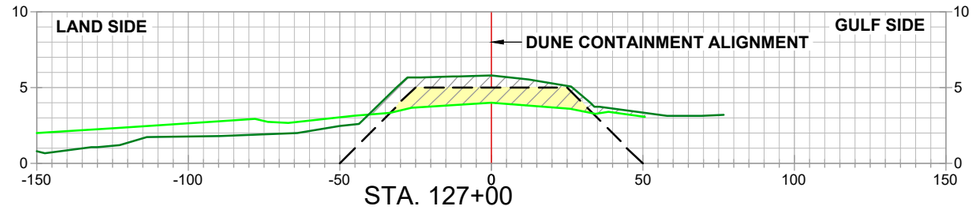
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 6 OF 17



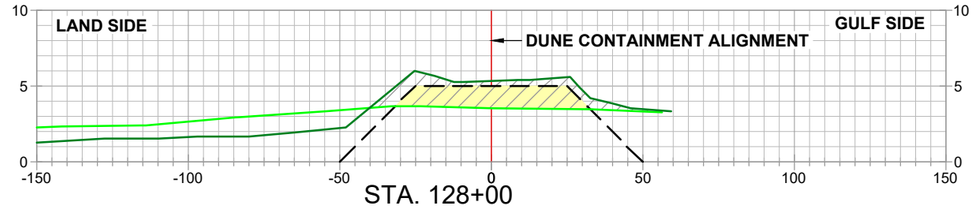
STA. 125+00



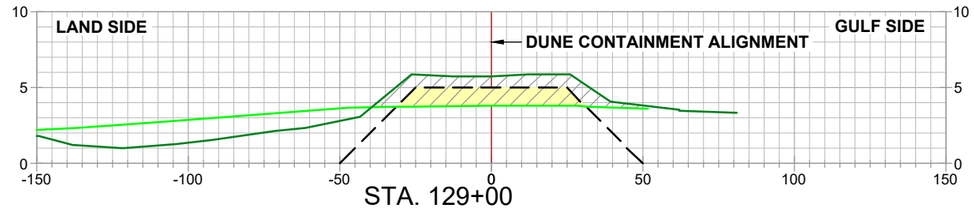
STA. 126+00



STA. 127+00



STA. 128+00



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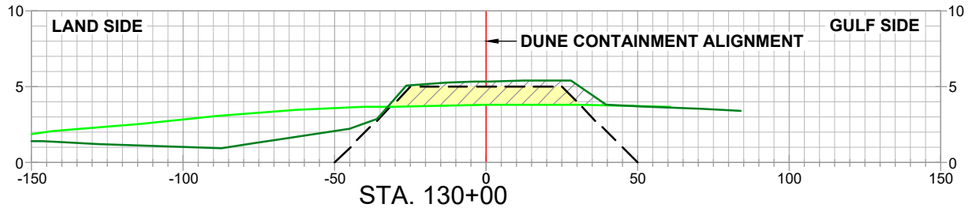
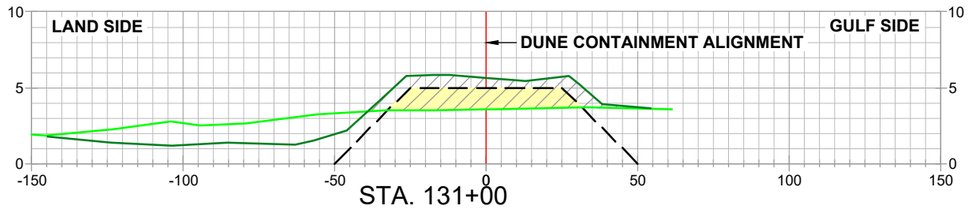


STA. 130+00



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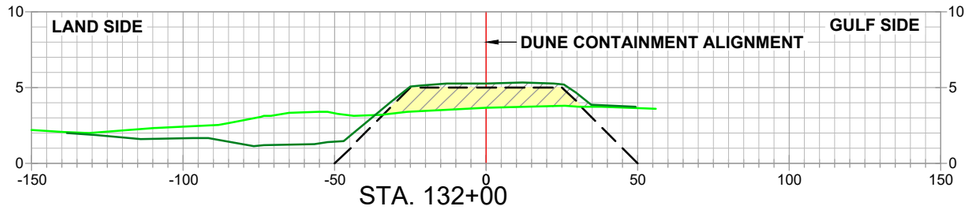

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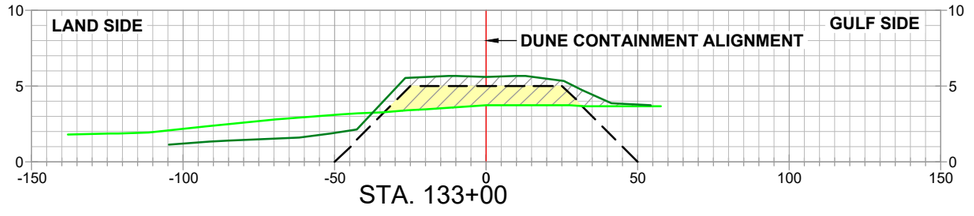
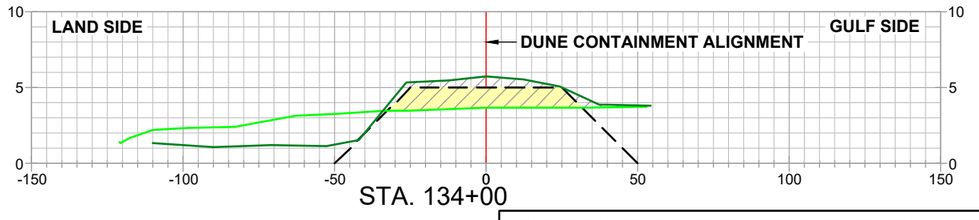


STA. 133+00



STA. 134+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

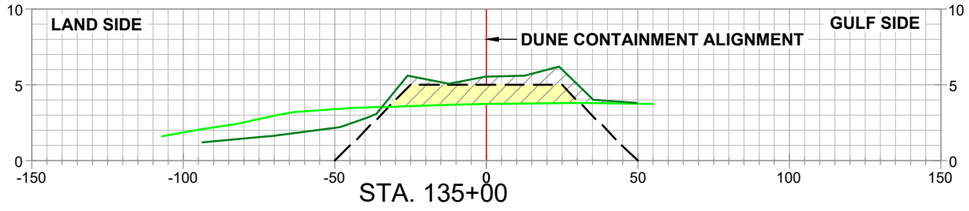
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 7 OF 17



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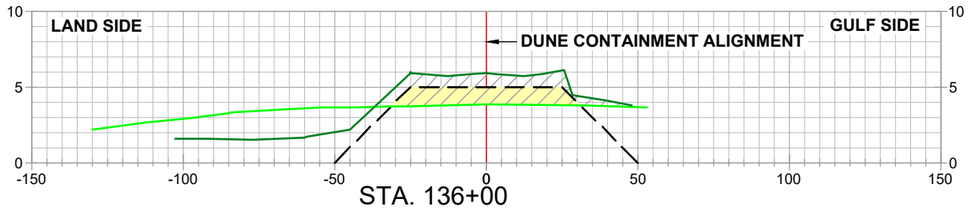
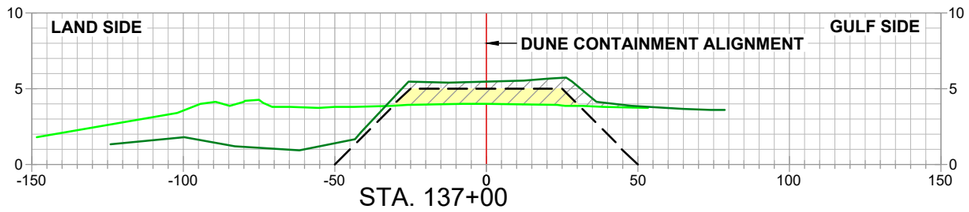
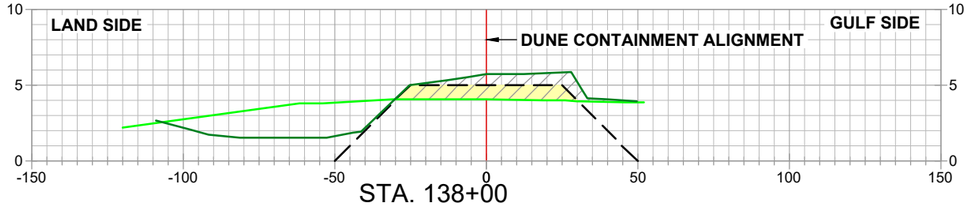


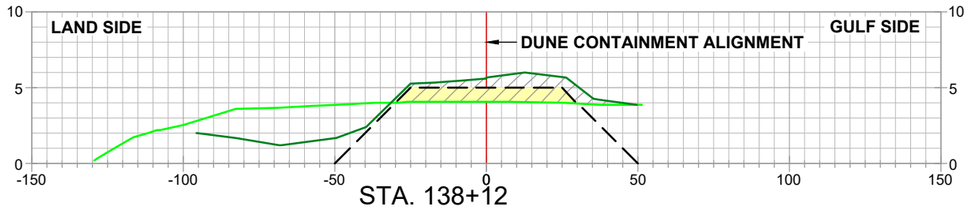
STA. 136+00



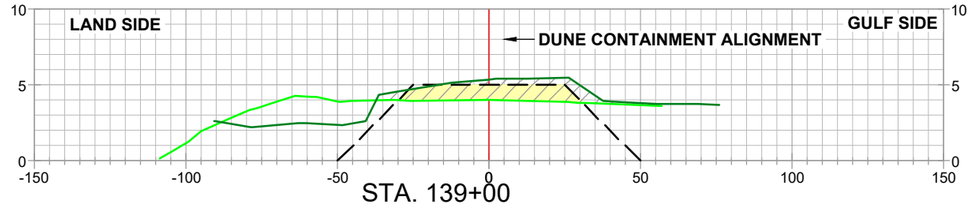
STA. 137+00



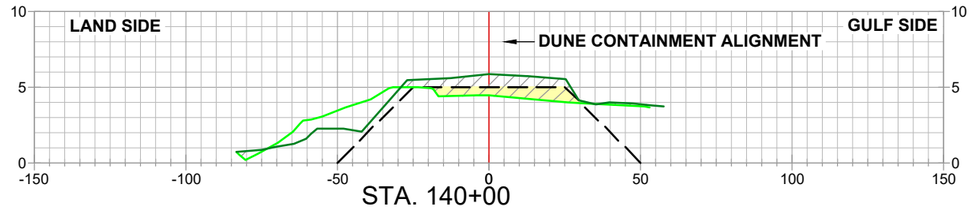
STA. 138+00



STA. 138+12



STA. 139+00



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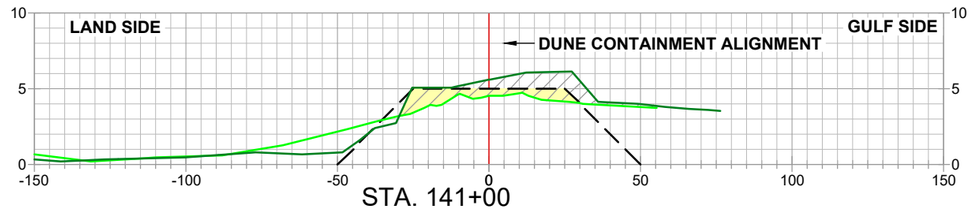

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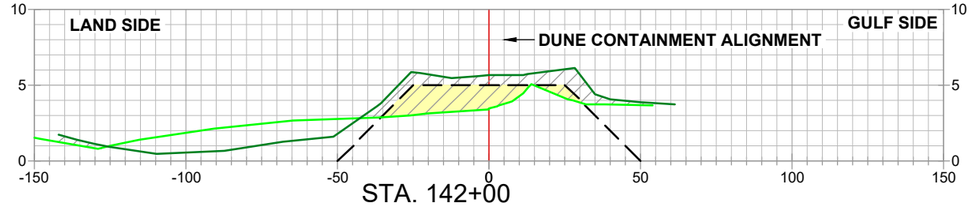

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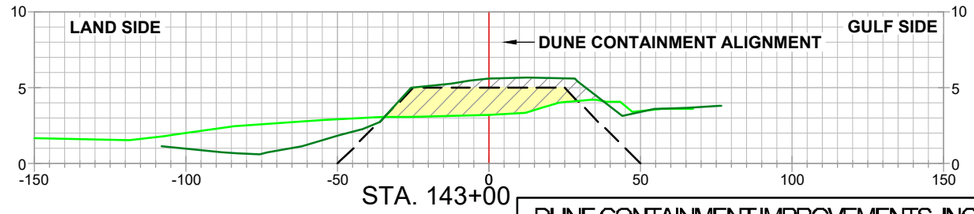


STA. 143+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

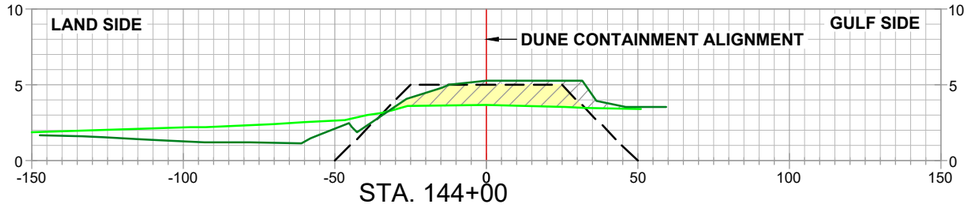
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 8 OF 17



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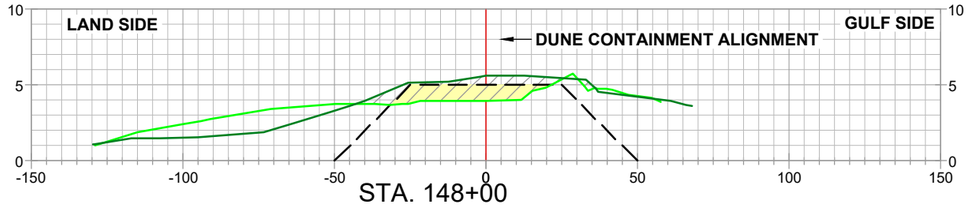

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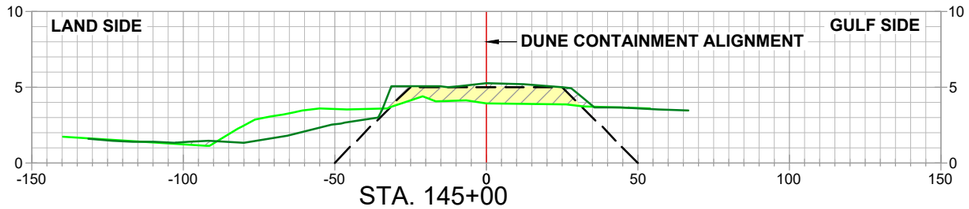

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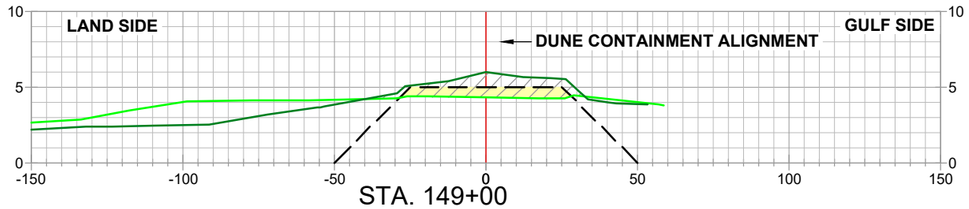

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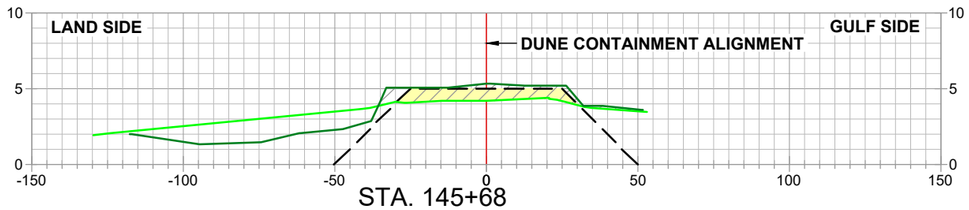

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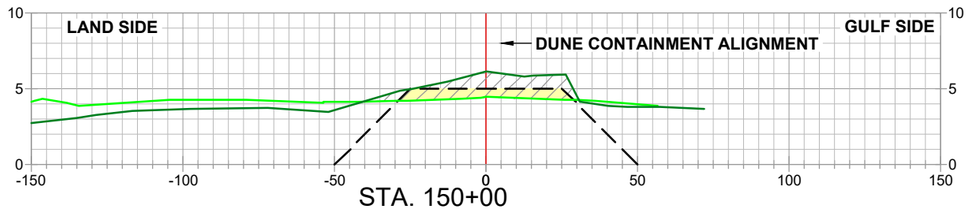

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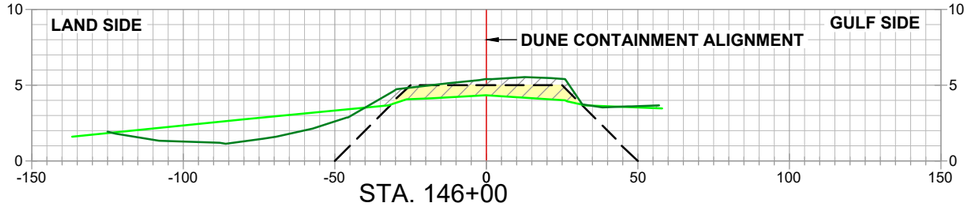

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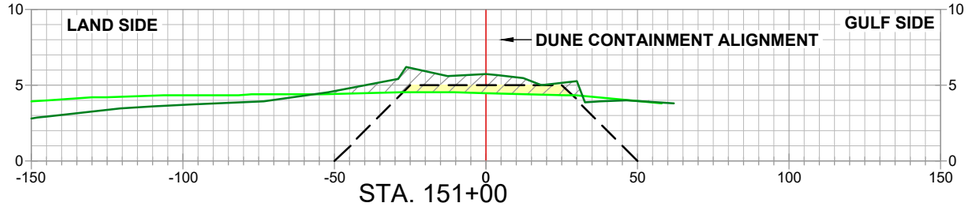

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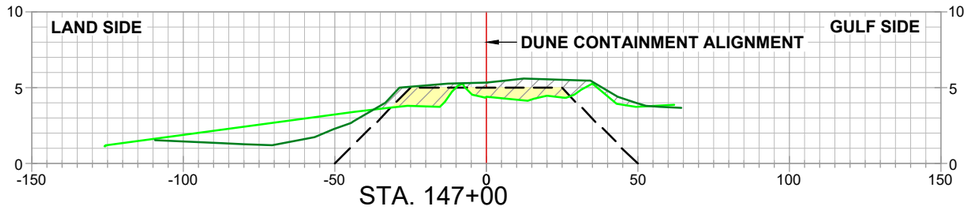

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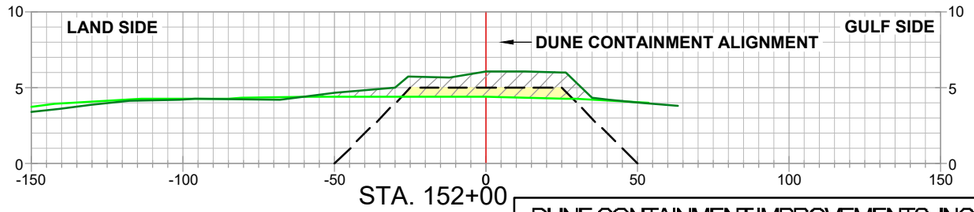


STA. 152+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

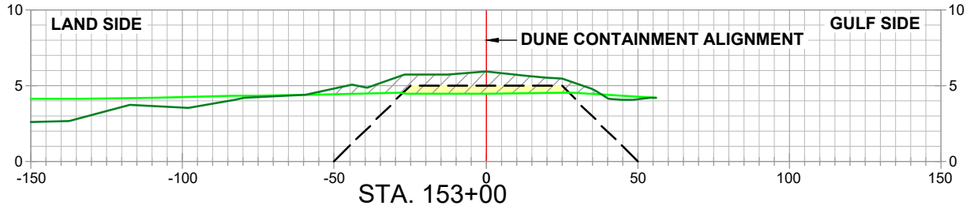
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 9 OF 17



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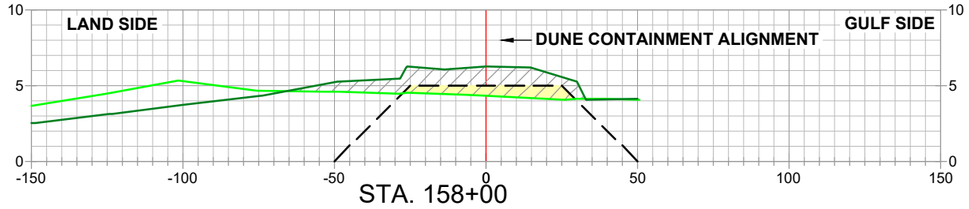

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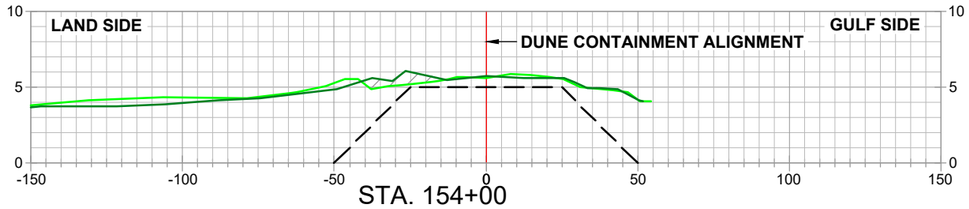

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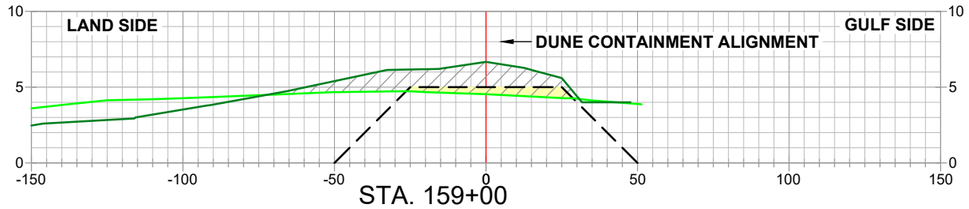

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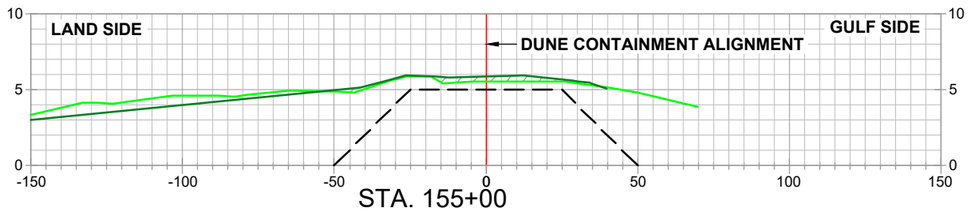

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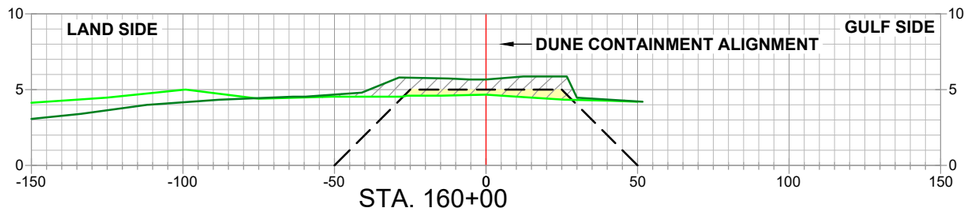

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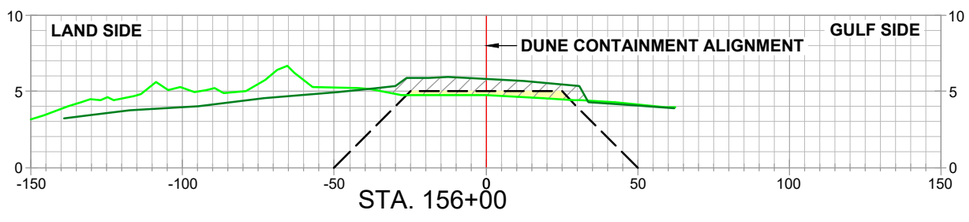

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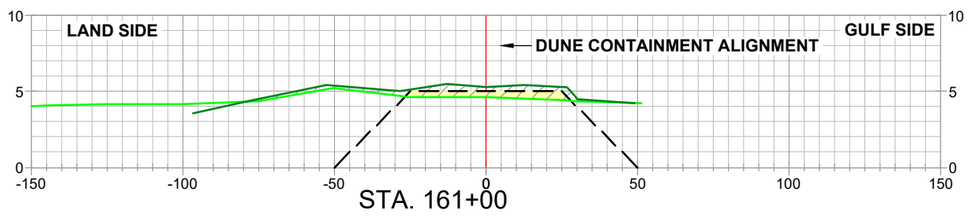

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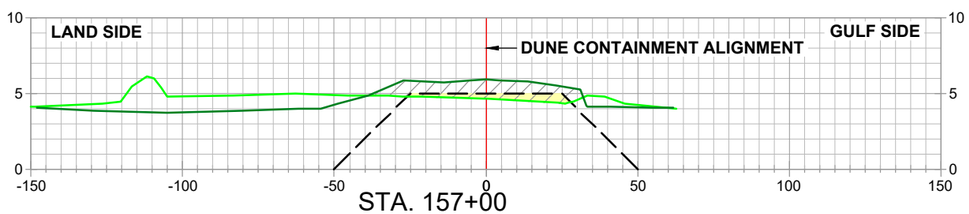

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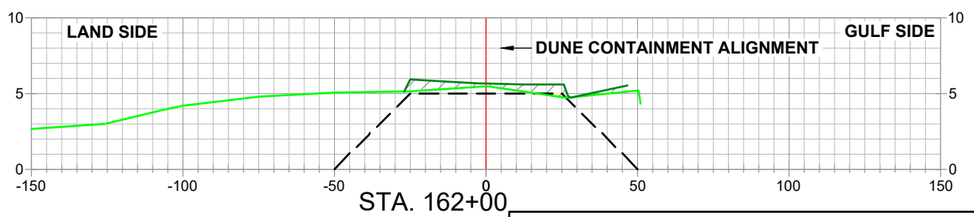

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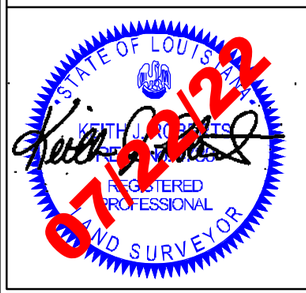


LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

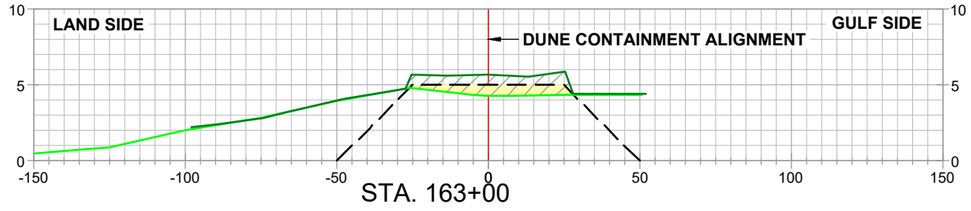
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 10 OF 17



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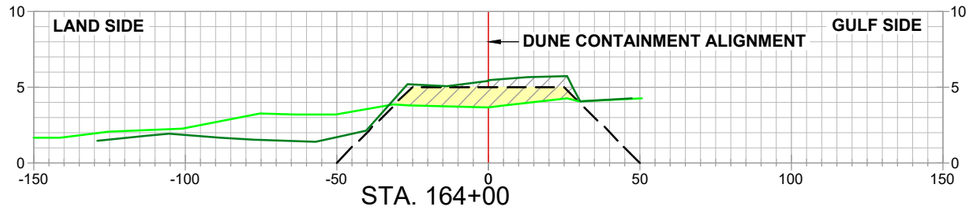

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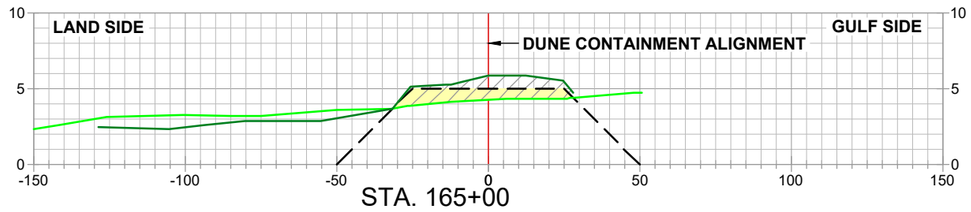

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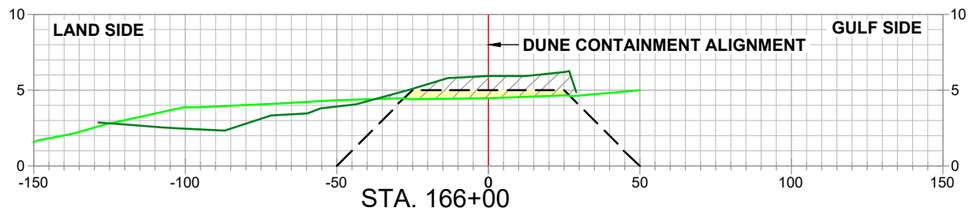

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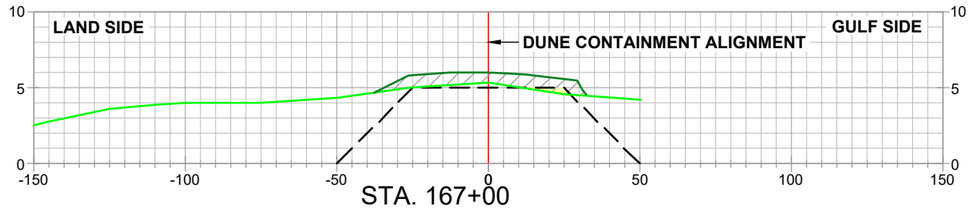

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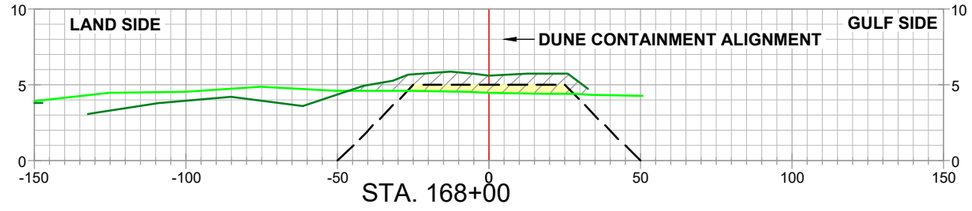

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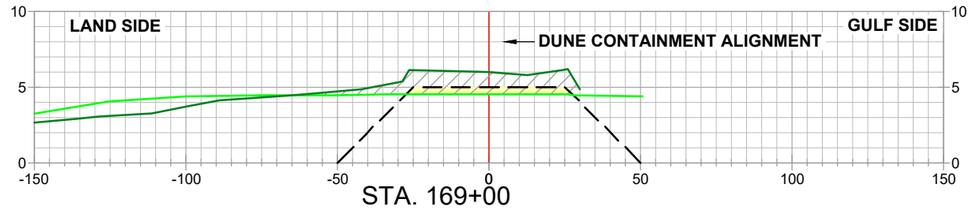

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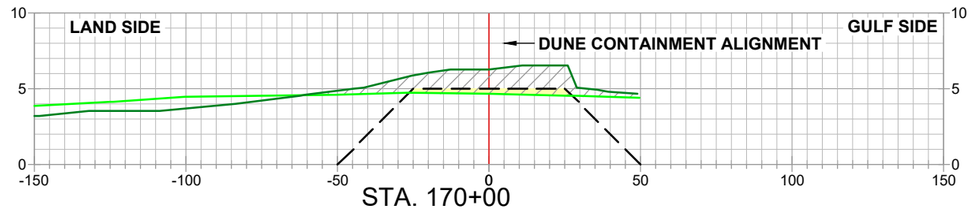

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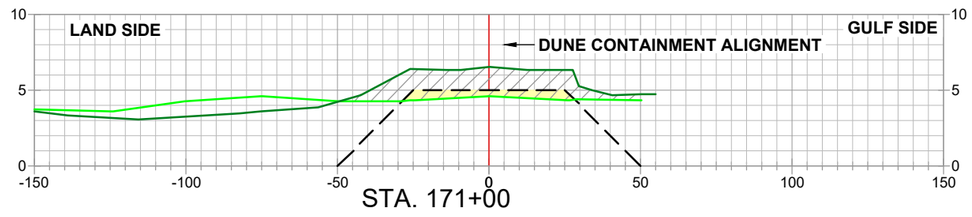

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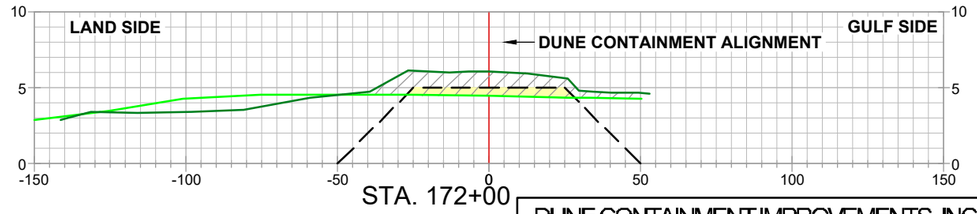


STA. 172+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

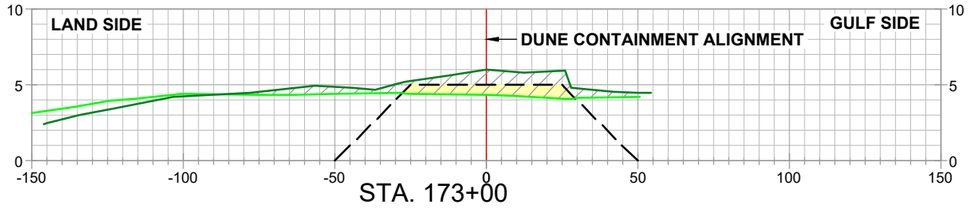
HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

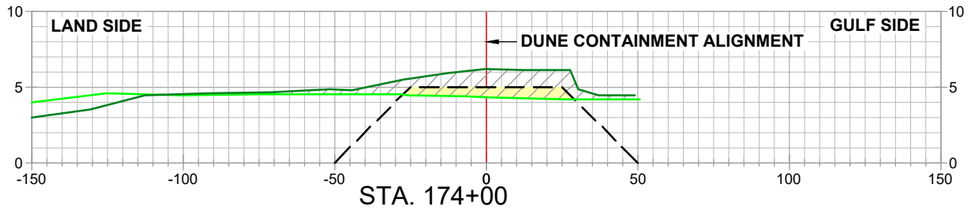
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 11 OF 17



STA. 173+00



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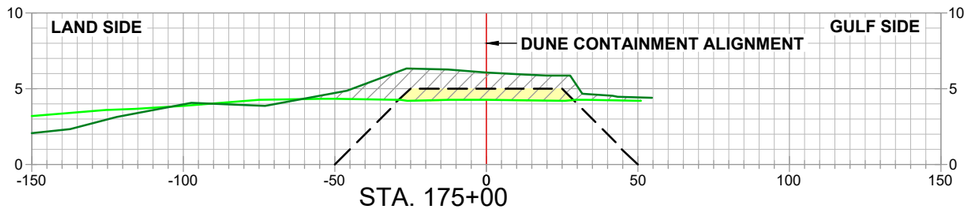
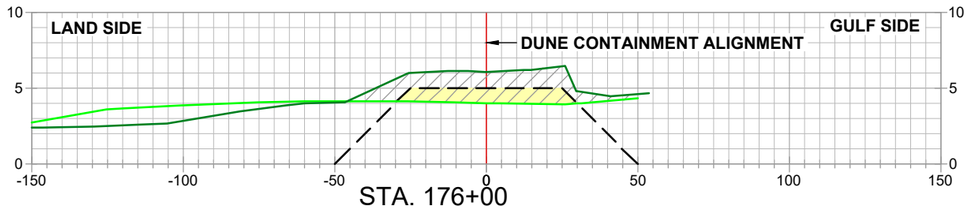
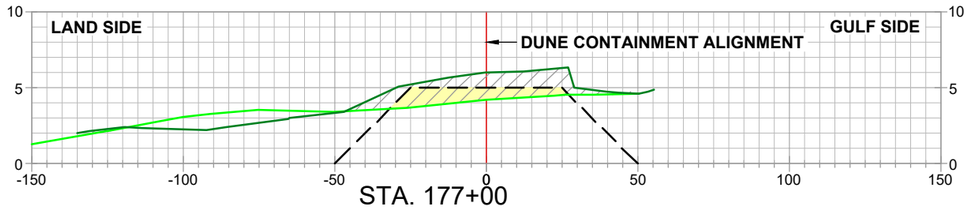


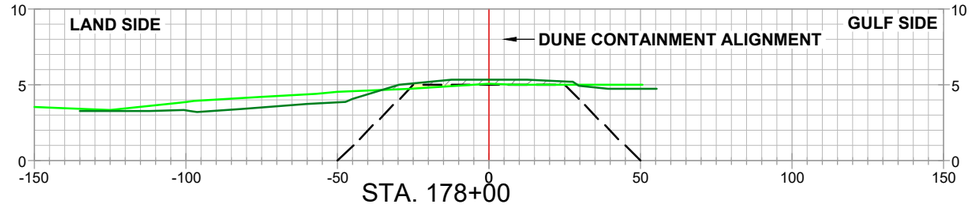
STA. 175+00



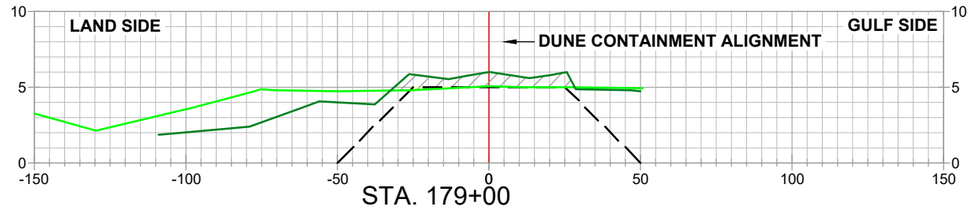
STA. 176+00



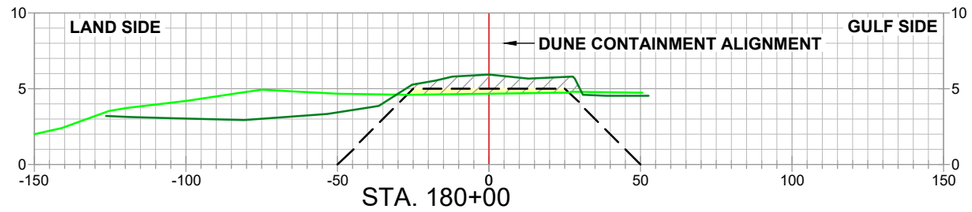
STA. 177+00



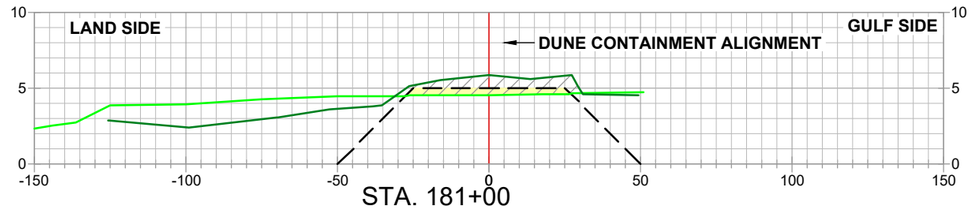
STA. 178+00



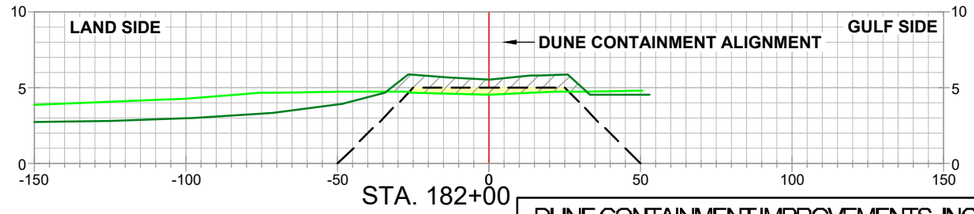
STA. 179+00



STA. 180+00



STA. 181+00



STA. 182+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

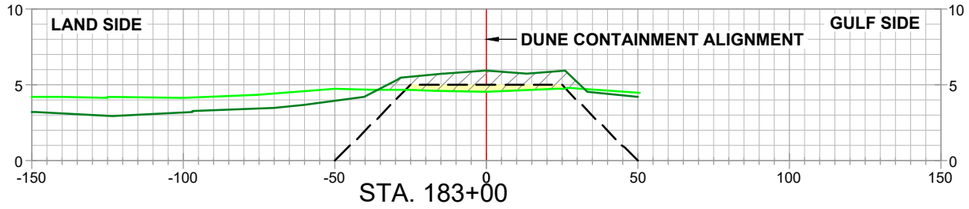
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

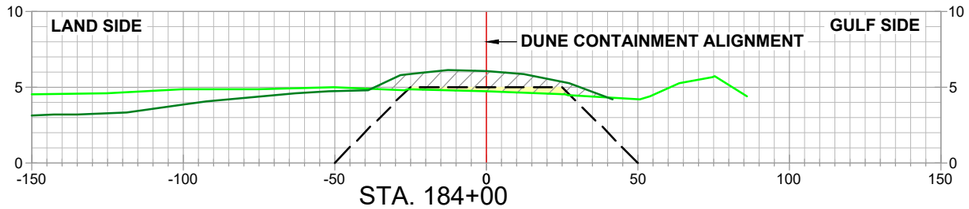
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

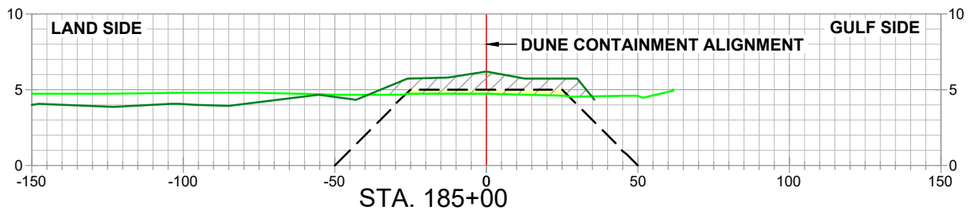
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 12 OF 17



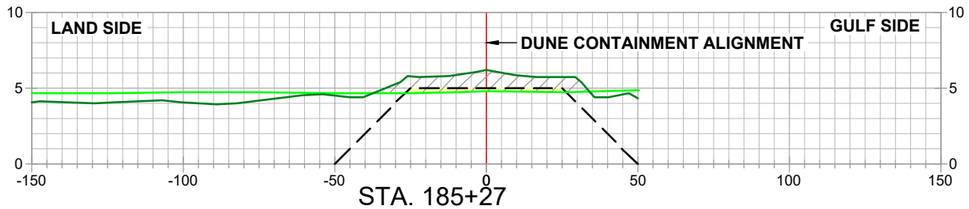
STA. 183+00



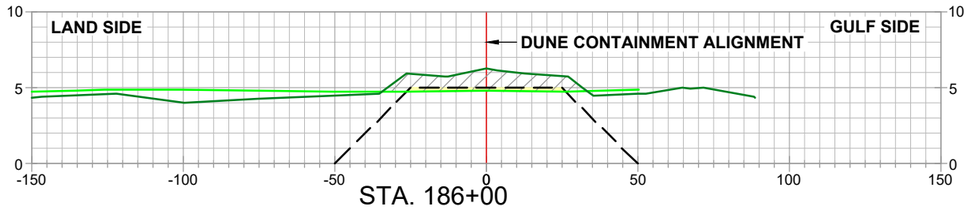
STA. 184+00



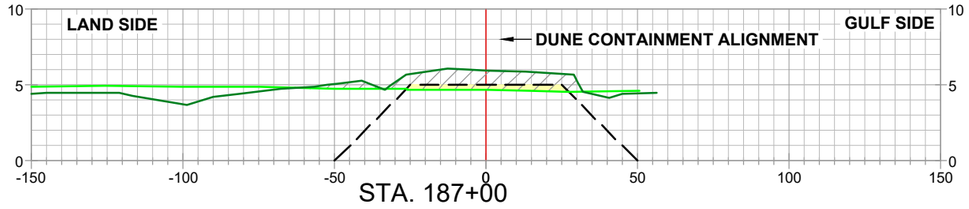
STA. 185+00



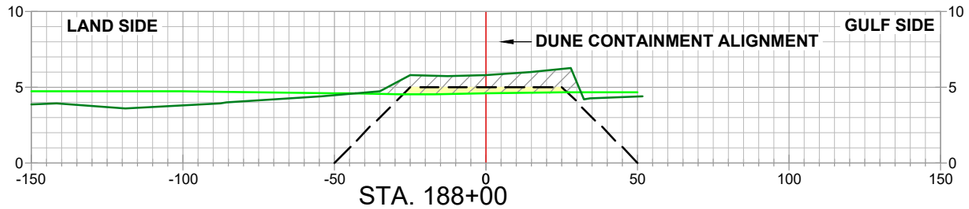
STA. 185+27



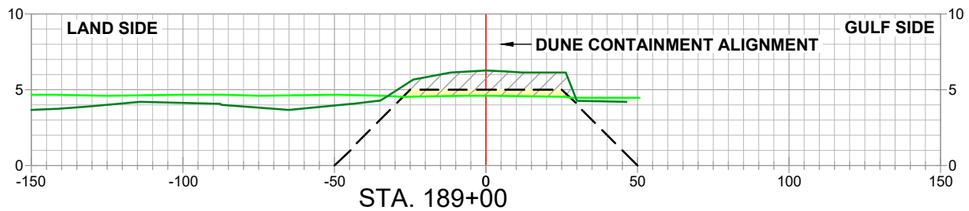
STA. 186+00



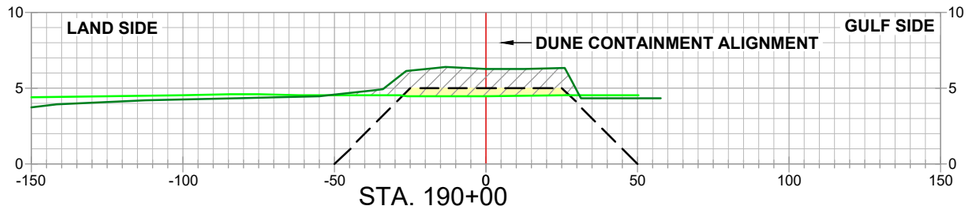
STA. 187+00



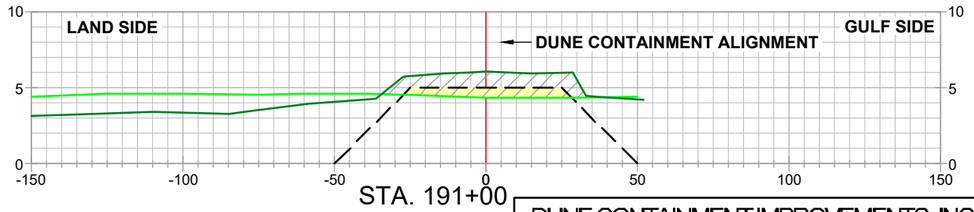
STA. 188+00



STA. 189+00



STA. 190+00



STA. 191+00



LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

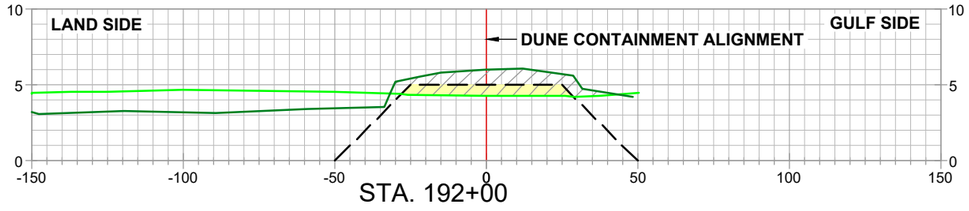
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

HYDROTERRA

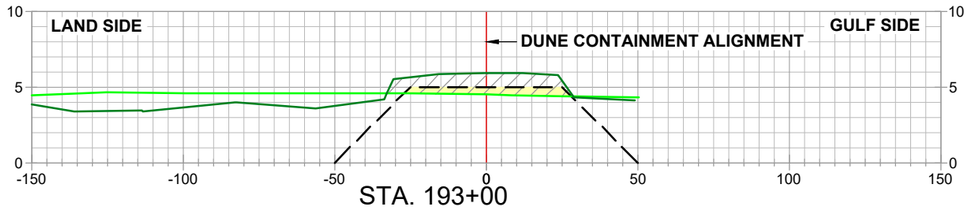
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

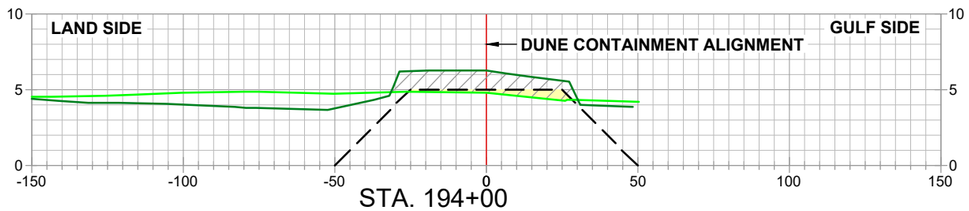
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 13 OF 17



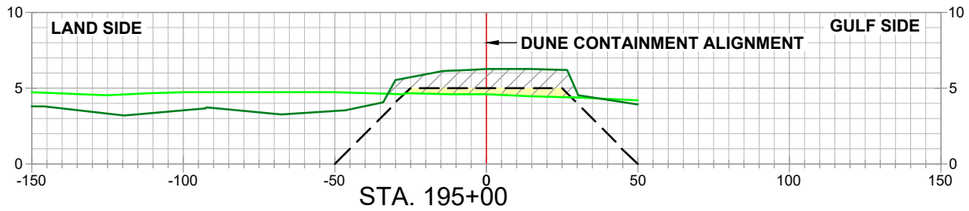
STA. 192+00



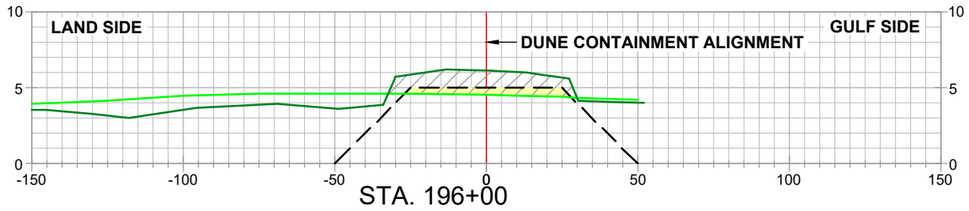
STA. 193+00



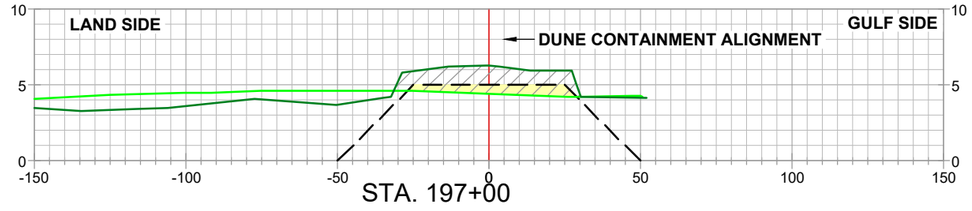
STA. 194+00



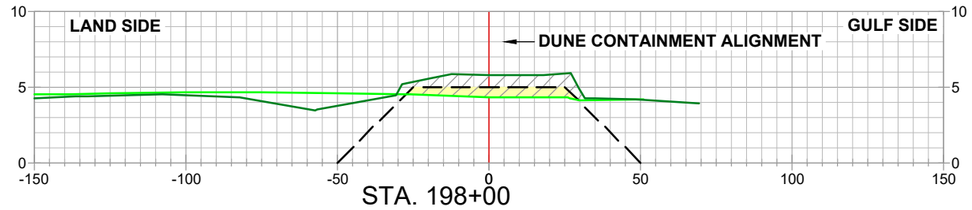
STA. 195+00



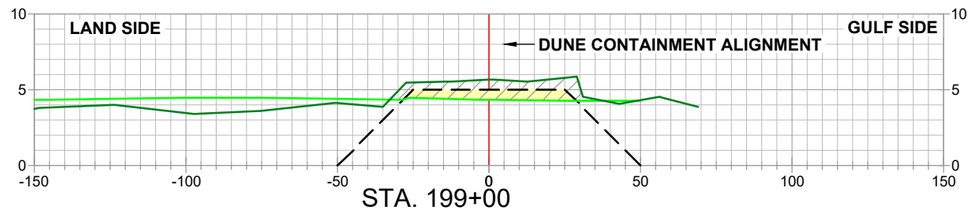
STA. 196+00



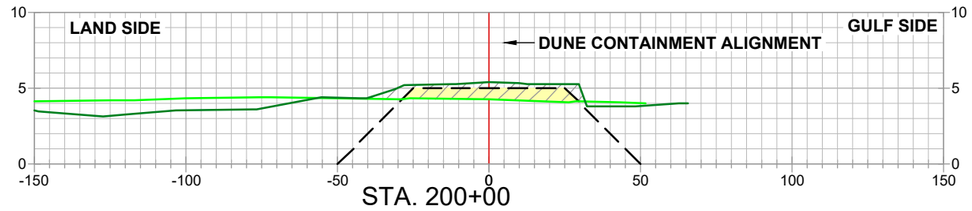
STA. 197+00



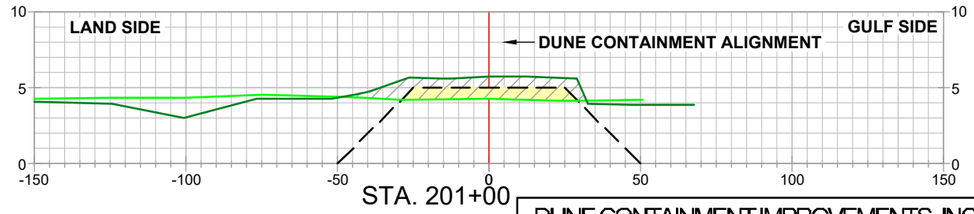
STA. 198+00



STA. 199+00



STA. 200+00



STA. 201+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

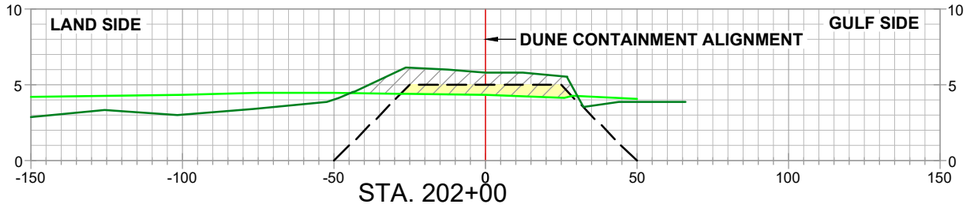
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

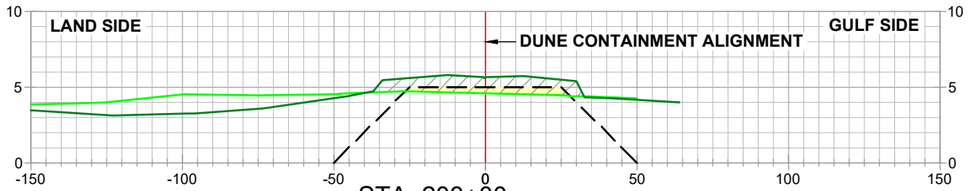
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

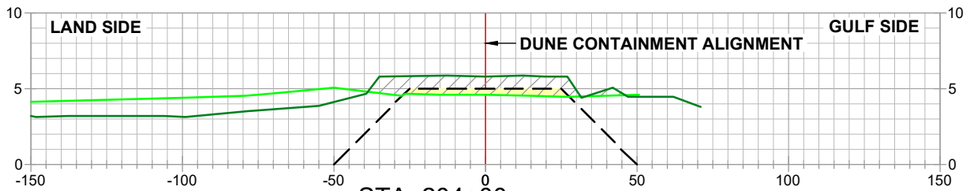
FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 14 OF 17



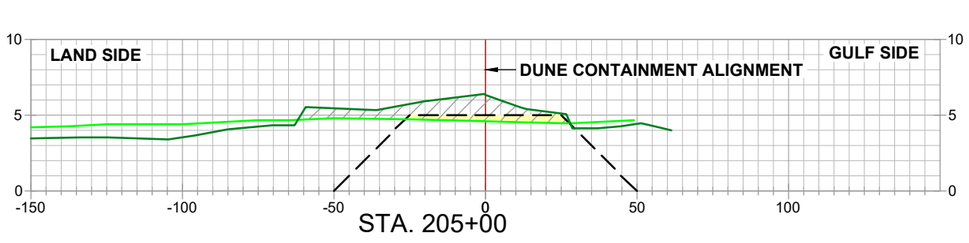
STA. 202+00



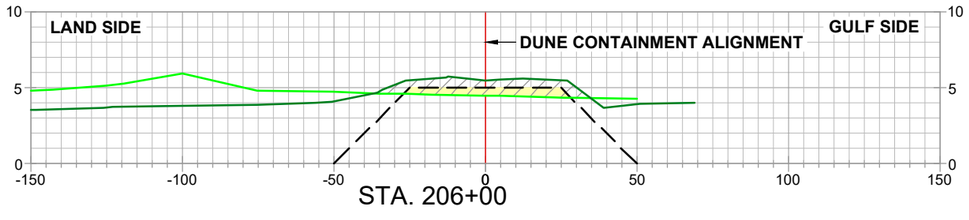
STA. 203+00



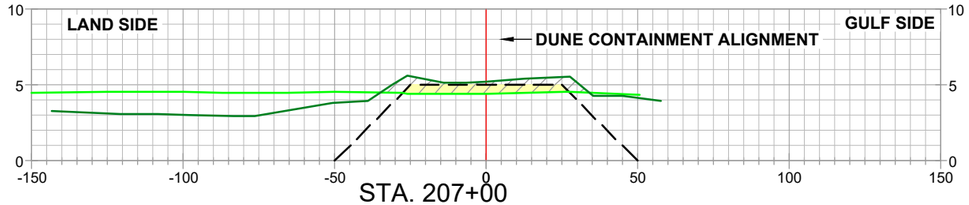
STA. 204+00



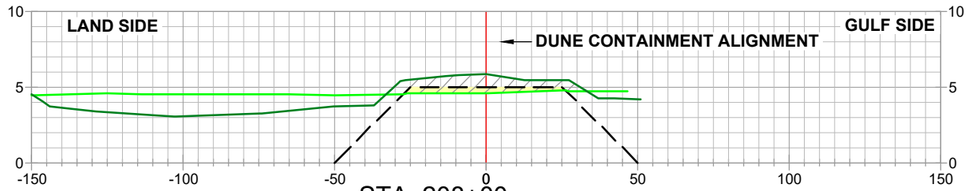
STA. 205+00



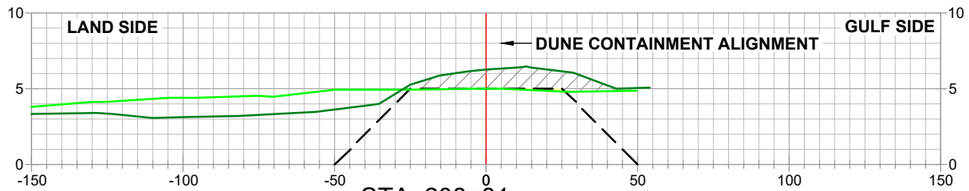
STA. 206+00



STA. 207+00



STA. 208+00



STA. 208+81



LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 15 OF 17

MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
106+92.66	77.05	0.00	0.00	127+00.00	71.16	368.61	6538.91	147+00.00	39.03	154.50	11390.81	169+00.00	26.77	95.52	13523.38	190+00.00	25.44	90.81	15380.04
107+00.00	77.98	21.07	21.07	128+00.00	82.01	283.66	6822.57	148+00.00	45.92	157.32	11548.13	170+00.00	18.85	84.47	13607.86	191+00.00	30.67	103.91	15483.96
108+00.00	89.31	309.80	330.88	129+00.00	67.37	276.63	7099.20	149+00.00	37.12	153.77	11701.90	171+00.00	27.70	86.20	13694.05	192+00.00	36.11	123.66	15607.62
109+00.35	75.92	307.06	637.93	130+00.00	68.27	251.20	7350.40	150+00.00	36.62	136.57	11838.46	172+00.00	27.82	102.80	13796.85	193+00.00	27.27	117.37	15724.98
110+00.00	80.46	288.59	926.52	131+00.00	81.48	277.32	7627.72	151+00.00	27.95	119.58	11958.04	173+00.00	36.52	119.15	13916.01	194+00.00	15.76	79.68	15804.66
111+00.00	82.18	301.20	1227.72	132+00.00	79.93	298.90	7926.62	152+00.00	31.40	109.91	12067.95	174+00.00	36.63	135.47	14051.48	195+00.00	23.14	72.03	15876.69
112+00.00	79.91	300.17	1527.89	133+00.00	79.19	294.66	8221.28	153+00.00	27.36	108.82	12176.77	175+00.00	41.86	145.34	14196.82	196+00.00	25.44	89.97	15966.66
113+00.00	74.75	286.40	1814.28	134+00.00	78.77	292.52	8513.80	154+00.00	0.00	50.67	12227.44	176+00.00	52.46	174.67	14371.49	197+00.00	29.61	101.96	16068.62
114+00.00	75.34	277.93	2092.22	135+00.00	70.68	276.76	8790.57	155+00.00	0.00	0.00	12227.44	177+00.00	45.70	181.79	14553.28	198+00.00	33.86	117.54	16186.16
115+00.00	79.54	286.82	2379.03	136+00.00	68.71	258.13	9048.70	156+00.00	15.86	29.37	12256.81	178+00.00	1.84	88.04	14641.32	199+00.00	35.28	128.04	16314.20
116+00.00	82.65	300.37	2679.40	137+00.00	57.96	234.56	9283.26	157+00.00	20.96	68.19	12325.00	179+00.00	2.27	7.62	14648.93	200+00.00	41.44	142.09	16456.29
117+00.00	90.48	320.61	3000.01	138+00.00	52.10	203.81	9487.07	158+00.00	37.15	107.62	12432.62	180+00.00	18.05	37.64	14686.57	201+00.00	40.37	151.50	16607.79
117+40.25	92.06	136.06	3136.07	138+11.86	51.48	22.75	9509.82	159+00.00	26.14	117.21	12549.82	181+00.00	22.33	74.79	14761.36	202+00.00	36.42	142.20	16749.99
118+00.00	98.76	211.14	3347.21	139+00.00	55.77	175.06	9684.88	160+00.00	21.53	88.28	12638.10	182+00.00	18.73	76.04	14837.40	203+00.00	21.68	107.60	16857.59
119+00.00	103.74	375.01	3722.22	140+00.00	33.07	164.51	9849.40	161+00.00	21.63	79.92	12718.02	183+00.00	17.56	67.21	14904.61	204+00.00	22.83	82.43	16940.01
120+00.00	93.40	365.09	4087.31	141+00.00	41.54	138.17	9987.57	162+00.00	1.58	42.98	12761.00	184+00.00	17.28	64.51	14969.12	205+00.00	21.09	81.34	17021.35
121+00.00	102.89	363.51	4450.81	142+00.00	74.73	215.31	10202.88	163+00.00	29.15	56.91	12817.90	185+00.00	16.29	62.17	15031.28	206+00.00	26.10	87.40	17108.75
122+00.00	91.96	360.83	4811.64	143+00.00	94.79	313.92	10516.80	164+00.00	65.46	175.20	12993.10	185+27.25	12.45	14.50	15045.79	207+00.00	27.40	99.07	17207.82
123+00.00	91.03	338.86	5150.50	144+00.00	70.07	305.29	10822.09	165+00.00	44.54	203.71	13196.81	186+00.00	11.64	32.45	15078.24	208+00.00	20.25	88.23	17296.05
124+00.00	75.33	308.07	5458.57	145+00.00	56.63	234.62	11056.71	166+00.00	24.48	127.81	13324.62	187+00.00	16.53	52.16	15130.40	208+81.01	3.21	35.19	17331.25
125+00.00	90.56	307.20	5765.77	145+67.51	44.33	126.22	11182.93	167+00.00	3.23	51.31	13375.93	188+00.00	22.82	72.87	15203.28				
126+00.00	127.89	404.53	6170.30	146+00.00	44.40	53.38	11236.31	168+00.00	24.81	51.94	13427.86	189+00.00	23.59	85.96	15289.23				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

REVISION:	DATE:

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 16 OF 17

GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
106+92.66	116.07	0.00	0.00	127+00.00	122.53	506.76	9539.23	147+00.00	76.09	270.34	17525.76	169+00.00	98.65	329.56	23548.44	190+00.00	108.72	359.67	30520.67
107+00.00	108.93	30.58	30.58	128+00.00	130.45	468.47	10007.71	148+00.00	79.60	288.32	17814.08	170+00.00	114.18	394.13	23942.57	191+00.00	94.62	376.56	30897.23
108+00.00	136.19	453.93	484.51	129+00.00	140.43	501.61	10509.32	149+00.00	73.39	283.31	18097.40	171+00.00	137.25	465.62	24408.19	192+00.00	95.68	352.41	31249.64
109+00.35	115.58	467.87	952.39	130+00.00	98.35	442.18	10951.50	150+00.00	81.23	286.34	18383.73	172+00.00	103.55	445.93	24854.11	193+00.00	76.11	318.13	31567.77
110+00.00	116.03	427.41	1379.80	131+00.00	142.37	445.79	11397.29	151+00.00	77.45	293.85	18677.59	173+00.00	110.52	396.42	25250.54	194+00.00	79.80	288.71	31856.48
111+00.00	114.86	427.58	1807.38	132+00.00	99.52	447.95	11845.24	152+00.00	101.35	331.11	19008.69	174+00.00	123.79	433.91	25684.45	195+00.00	94.28	322.36	32178.84
112+00.00	156.44	502.41	2309.79	133+00.00	130.19	425.39	12270.64	153+00.00	88.43	351.44	19360.13	175+00.00	140.65	489.70	26174.15	196+00.00	88.24	338.01	32516.85
113+00.00	125.39	521.91	2831.70	134+00.00	115.11	454.27	12724.91	154+00.00	15.48	192.43	19552.56	176+00.00	143.85	526.84	26700.99	197+00.00	96.46	342.04	32858.89
114+00.00	143.43	497.81	3329.51	135+00.00	115.33	426.75	13151.67	155+00.00	19.03	63.92	19616.48	177+00.00	118.25	485.37	27186.36	198+00.00	81.31	329.20	33188.09
115+00.00	145.42	534.91	3864.42	136+00.00	129.06	452.58	13604.25	156+00.00	68.00	161.18	19777.66	178+00.00	18.27	252.83	27439.19	199+00.00	76.23	291.74	33479.82
116+00.00	136.59	522.24	4386.67	137+00.00	98.50	421.41	14025.66	157+00.00	73.09	261.28	20038.94	179+00.00	46.22	119.43	27558.63	200+00.00	68.23	267.52	33747.34
117+00.00	137.10	506.82	4893.49	138+00.00	92.67	354.02	14379.68	158+00.00	126.38	369.38	20408.32	180+00.00	59.77	196.28	27754.90	201+00.00	96.53	305.11	34052.44
117+40.25	131.02	199.85	5093.34	138+11.86	97.33	41.73	14421.41	159+00.00	128.41	471.83	20880.15	181+00.00	61.00	223.64	27978.55	202+00.00	101.47	366.67	34419.11
118+00.00	129.32	288.06	5381.41	139+00.00	86.86	300.64	14722.05	160+00.00	83.55	392.52	21272.66	182+00.00	65.38	234.03	28212.57	203+00.00	68.43	314.63	34733.74
119+00.00	137.99	495.02	5876.42	140+00.00	74.78	299.34	15021.40	161+00.00	53.94	254.62	21527.28	183+00.00	67.97	246.94	28459.52	204+00.00	85.48	285.02	35018.76
120+00.00	106.80	453.31	6329.73	141+00.00	87.06	299.70	15321.10	162+00.00	29.62	154.74	21682.02	184+00.00	76.97	268.42	28727.94	205+00.00	88.01	321.28	35340.04
121+00.00	135.39	448.51	6778.24	142+00.00	147.75	434.83	15755.93	163+00.00	66.24	177.51	21859.53	185+00.00	75.99	283.26	29011.20	206+00.00	66.54	286.20	35626.24
122+00.00	124.57	481.42	7259.66	143+00.00	130.35	515.00	16270.93	164+00.00	91.12	291.39	22150.92	185+27.25	70.23	73.79	29084.99	207+00.00	54.82	224.74	35850.98
123+00.00	116.59	446.60	7706.26	144+00.00	93.51	414.54	16685.48	165+00.00	74.88	307.40	22458.32	186+00.00	70.53	189.63	29274.62	208+00.00	59.85	212.37	36063.35
124+00.00	107.81	415.56	8121.82	145+00.00	75.29	312.59	16998.06	166+00.00	74.77	277.14	22735.46	187+00.00	81.79	282.07	29556.69	208+81.01	75.18	202.57	36265.92
125+00.00	116.41	415.23	8537.05	145+67.51	65.44	175.94	17174.01	167+00.00	53.48	237.51	22972.97	188+00.00	79.52	298.72	29855.41				
126+00.00	151.12	495.43	9032.48	146+00.00	69.89	81.42	17255.42	168+00.00	79.31	245.92	23218.88	189+00.00	85.50	305.59	30161.00				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-22

REVISION:	DATE:

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 2

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 2
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

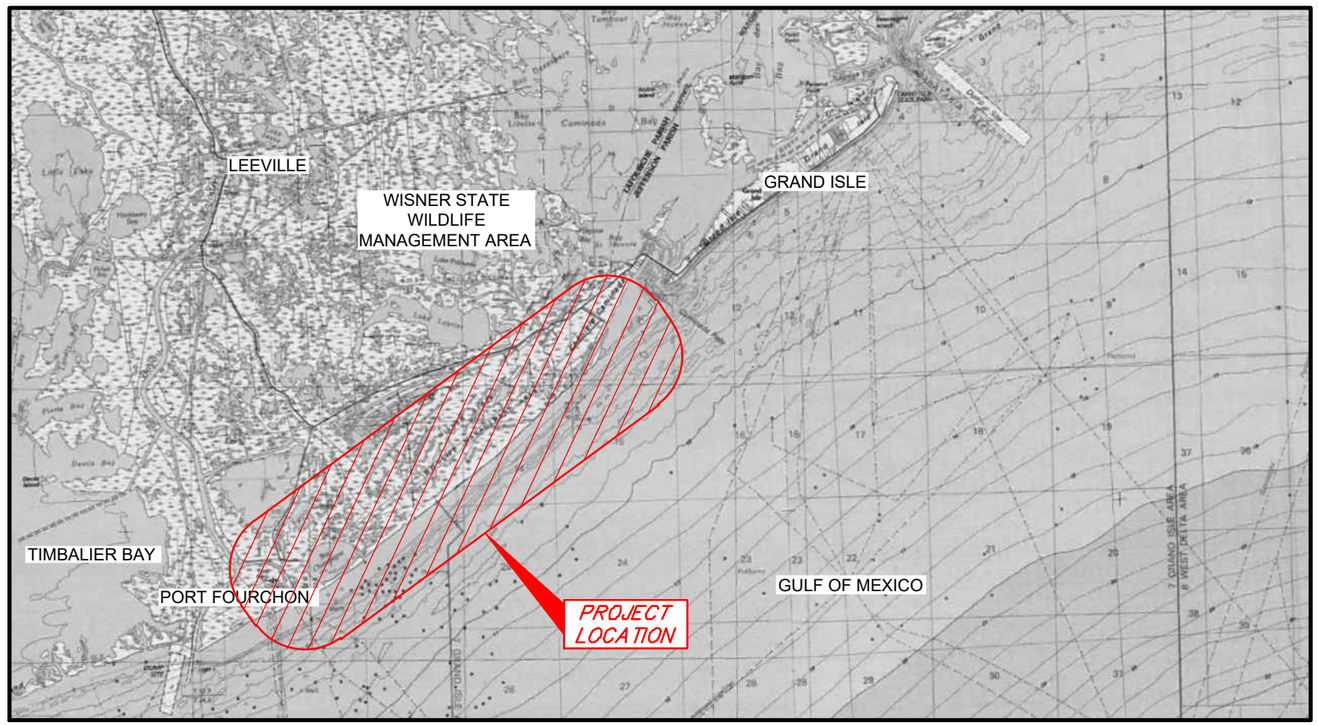
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 2_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 17 OF 17

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 16	CROSS-SECTION VIEWS
17 - 18	VOLUME REPORT

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISION:	DATE:

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 1 OF 18

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. DUNE PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 02-23-22 AND 04-10-22 INCLUSIVE.
5. DUNE PROGRESS SURVEY SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 03-16-22 AND 07-15-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1

DEWATERING POTENTIAL MARSH NOURISHMENT AREA

INCREMENT 4

INTERNAL TRAINING DIKE 3

RFI #56
DUNE CENTERLINE REALIGNMENT
STA. 309+00 THROUGH STA. 322+00

EARTHEN CONTAINMENT DIKE ALIGNMENT

BAYOU MOREAU

INCREMENT 3

50' BEACH AND DUNE CROSSING

GULF OF MEXICO

EQUIPMENT ACCESS CORRIDOR (EA3)

EQUIPMENT ACCESS CORRIDOR (EA1)

DREDGE PIPELINE CORRIDOR

INTERNAL TRAINING DIKE 2

EQUIPMENT ACCESS CORRIDOR (EA4)

INCREMENT 2

NE BORROW AREA

EQUIPMENT ACCESS CORRIDOR (EA2)

INTERNAL TRAINING DIKE 1

50' BEACH AND DUNE CROSSING

BAYOU LAFOURCHE

PORT FOURCHON MARINA

INCREMENT 1

DREDGE PIPELINE CORRIDOR

DREDGE PIPELINE CORRIDOR

SW BORROW AREA

GULF OF MEXICO

GULF OF MEXICO

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISION:	DATE:

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

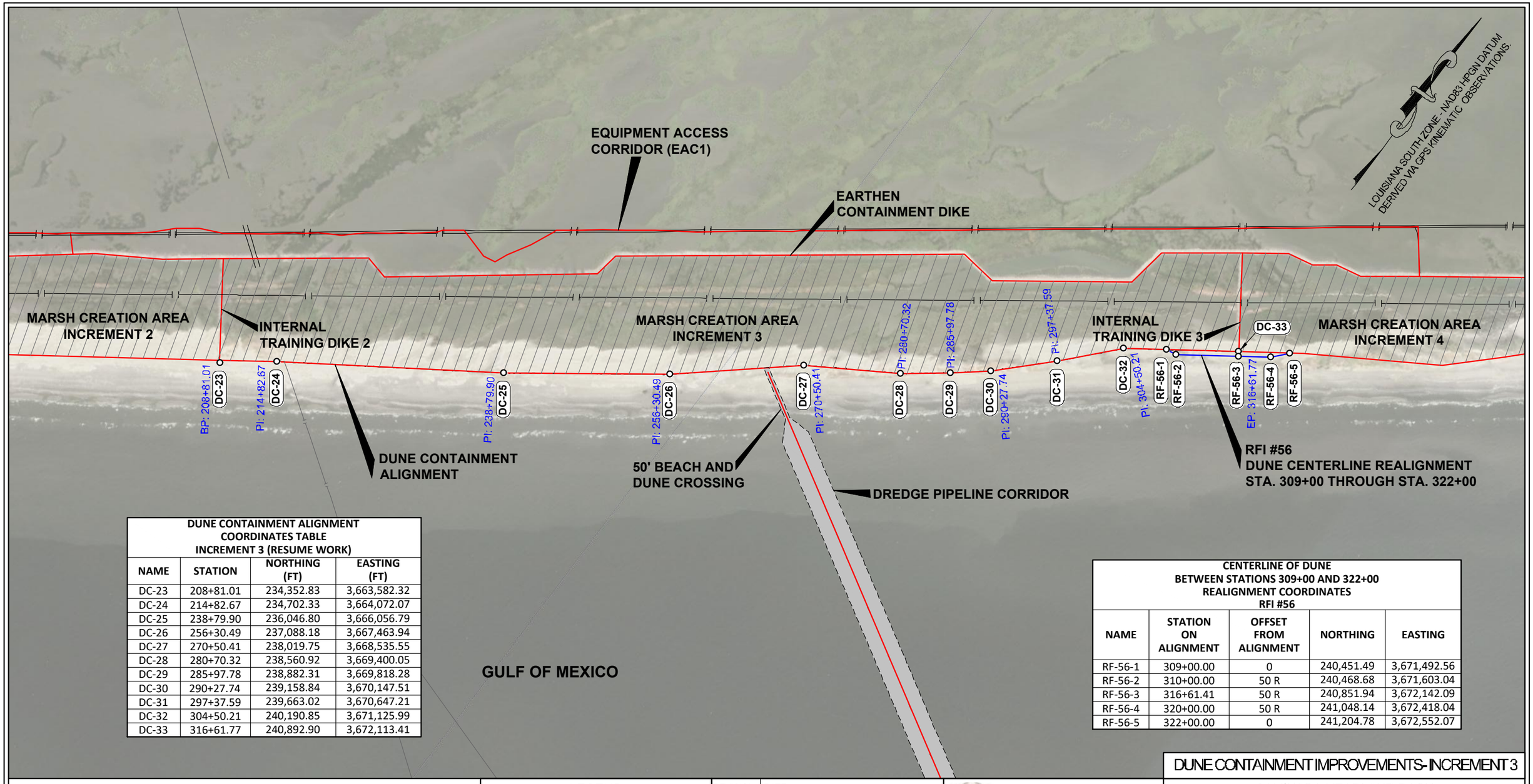
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg

SHEET: 2 OF 18



DUNE CONTAINMENT ALIGNMENT COORDINATES TABLE INCREMENT 3 (RESUME WORK)

NAME	STATION	NORTHING (FT)	EASTING (FT)
DC-23	208+81.01	234,352.83	3,663,582.32
DC-24	214+82.67	234,702.33	3,664,072.07
DC-25	238+79.90	236,046.80	3,666,056.79
DC-26	256+30.49	237,088.18	3,667,463.94
DC-27	270+50.41	238,019.75	3,668,535.55
DC-28	280+70.32	238,560.92	3,669,400.05
DC-29	285+97.78	238,882.31	3,669,818.28
DC-30	290+27.74	239,158.84	3,670,147.51
DC-31	297+37.59	239,663.02	3,670,647.21
DC-32	304+50.21	240,190.85	3,671,125.99
DC-33	316+61.77	240,892.90	3,672,113.41

CENTERLINE OF DUNE BETWEEN STATIONS 309+00 AND 322+00 REALIGNMENT COORDINATES RFI #56

NAME	STATION ON ALIGNMENT	OFFSET FROM ALIGNMENT	NORTHING	EASTING
RF-56-1	309+00.00	0	240,451.49	3,671,492.56
RF-56-2	310+00.00	50 R	240,468.68	3,671,603.04
RF-56-3	316+61.41	50 R	240,851.94	3,672,142.09
RF-56-4	320+00.00	50 R	241,048.14	3,672,418.04
RF-56-5	322+00.00	0	241,204.78	3,672,552.07

STATE OF LOUISIANA
KEITH W. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

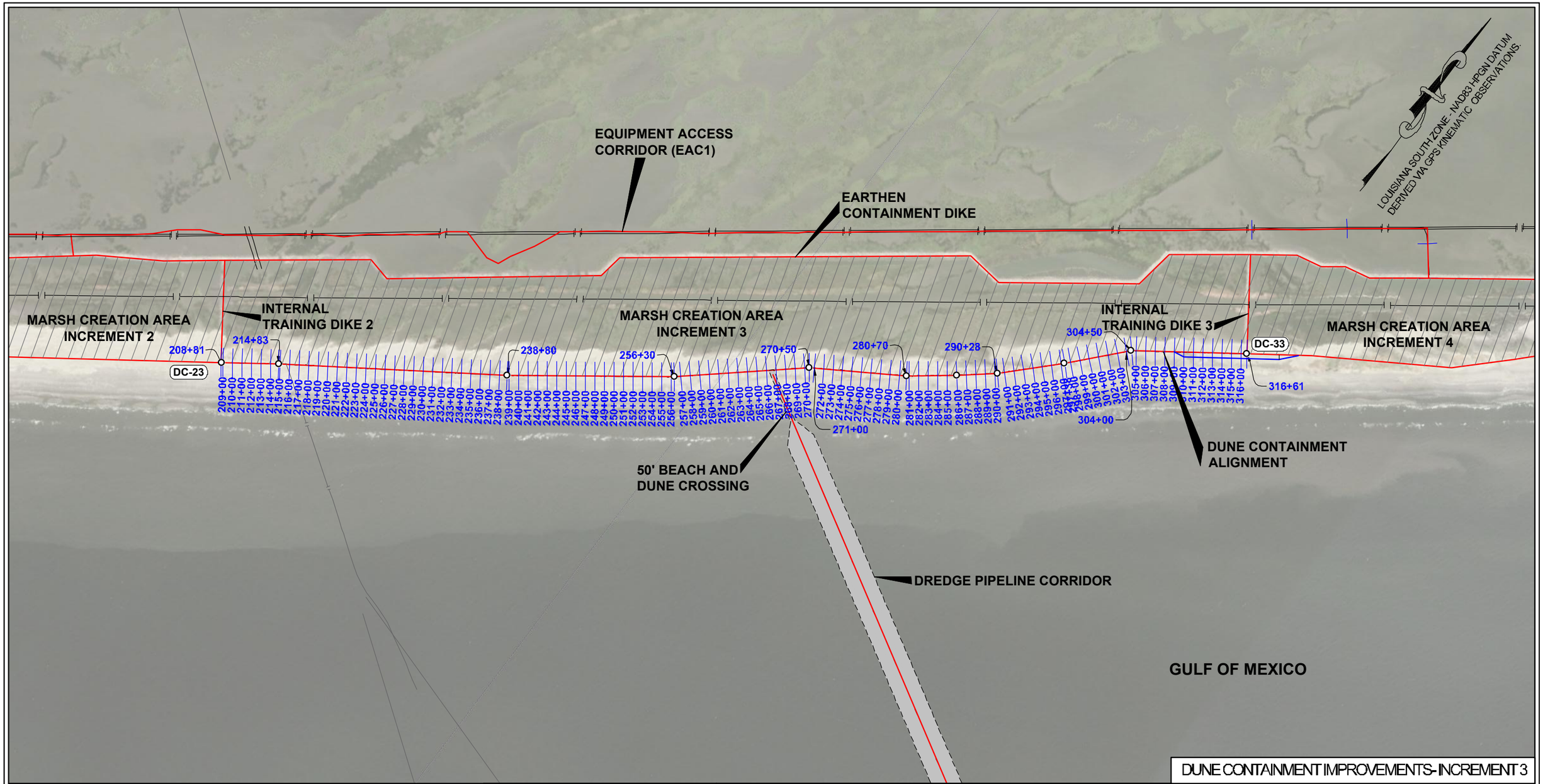
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg



STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- MARSH CREATION AREA
- DC-01 DUNE CONTAINMENT ALIGNMENT POINTAND NAME
- GIS DATABASE PIPELINE

REVISION:	DATE:

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

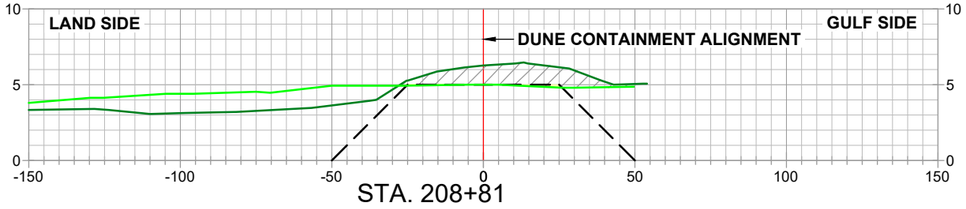
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

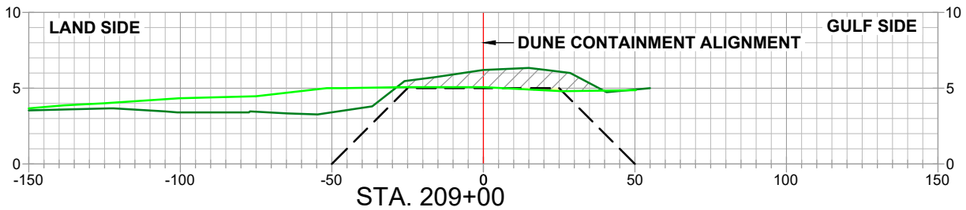
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg

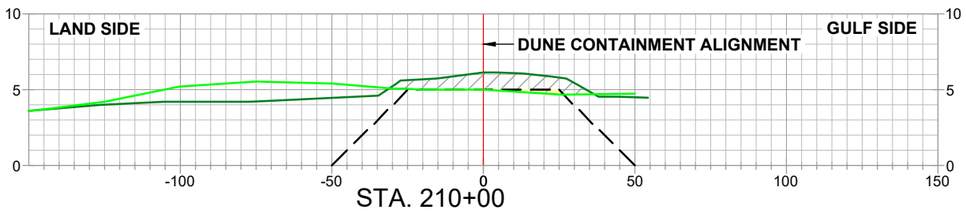
SHEET: 4 OF 18



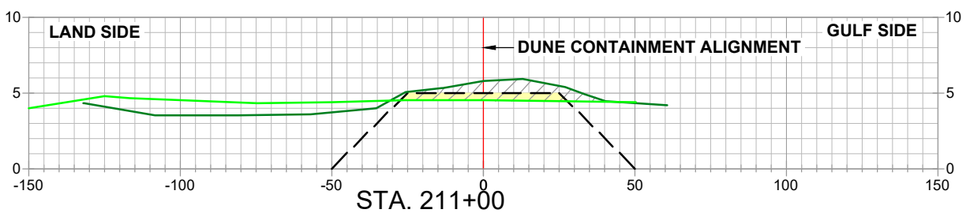
STA. 208+81



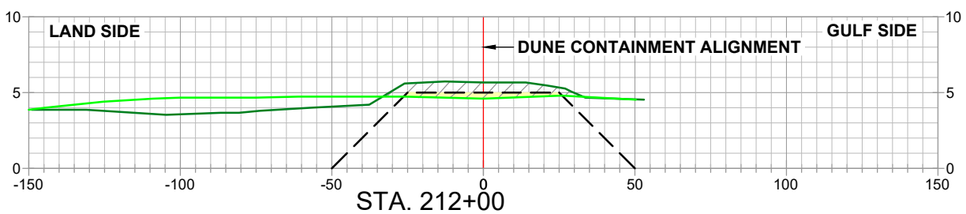
STA. 209+00



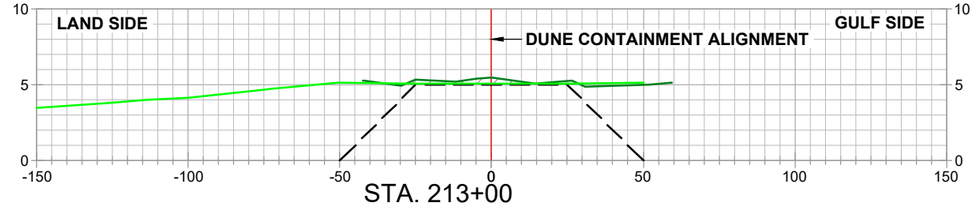
STA. 210+00



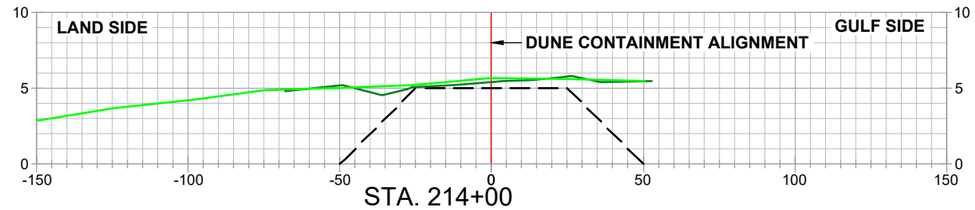
STA. 211+00



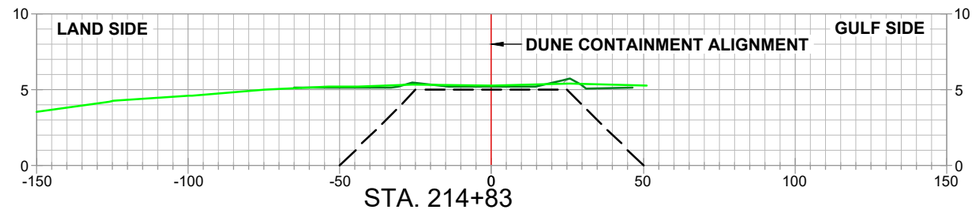
STA. 212+00



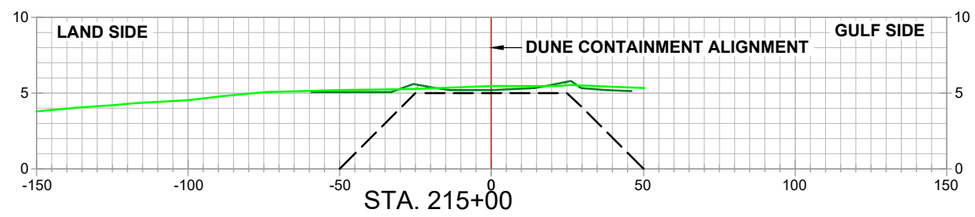
STA. 213+00



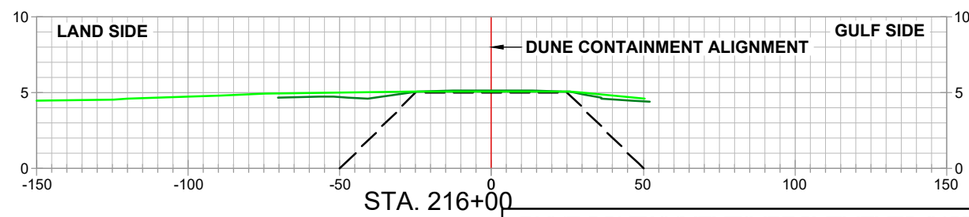
STA. 214+00



STA. 214+83



STA. 215+00



STA. 216+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

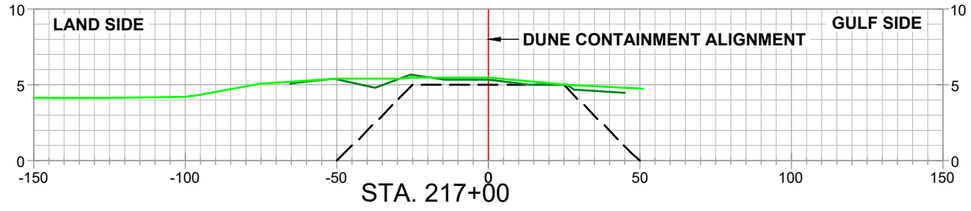
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

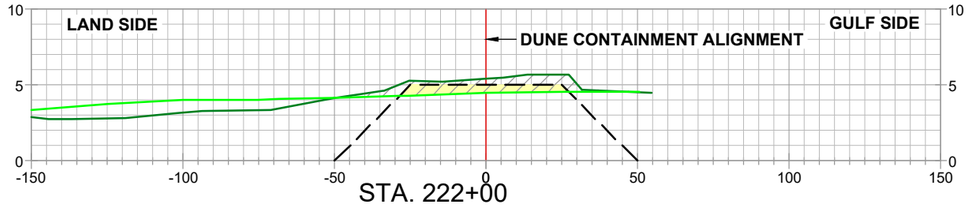
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

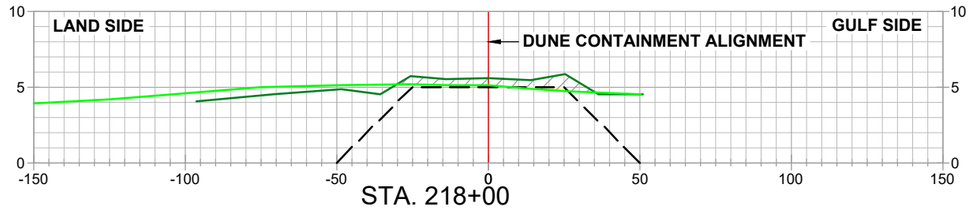
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 5 OF 18



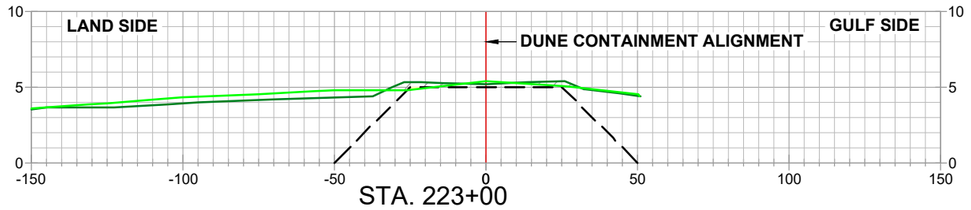
STA. 217+00



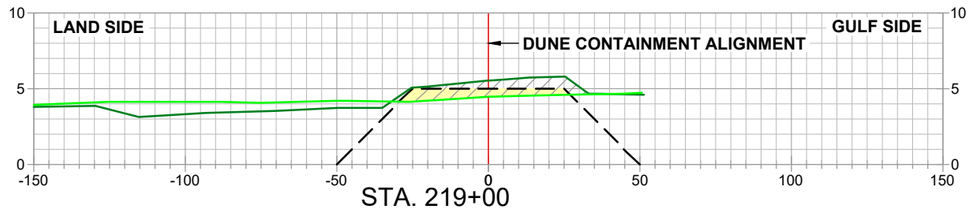
STA. 222+00



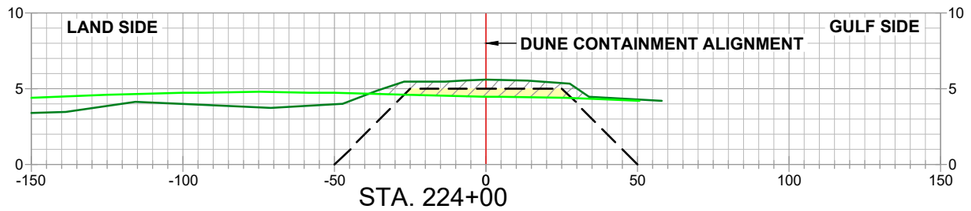
STA. 218+00



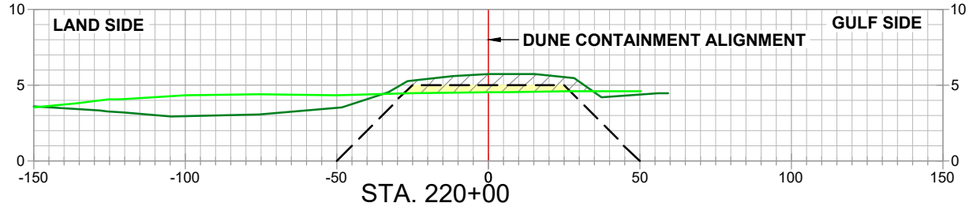
STA. 223+00



STA. 219+00



STA. 224+00



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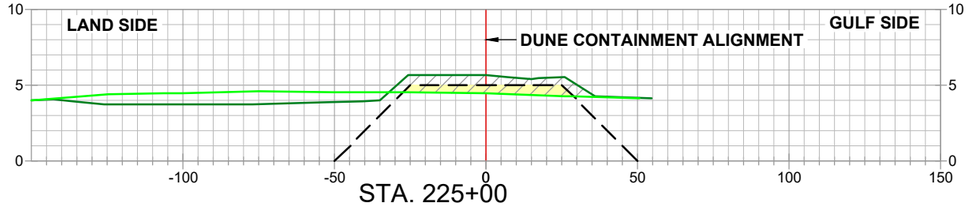
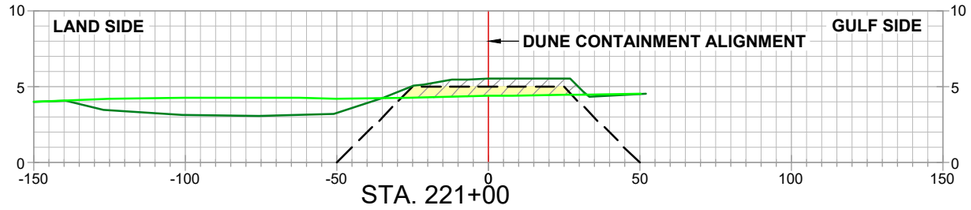
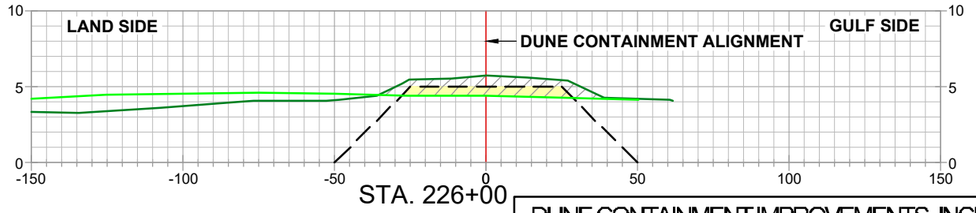


STA. 225+00



STA. 221+00



STA. 226+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

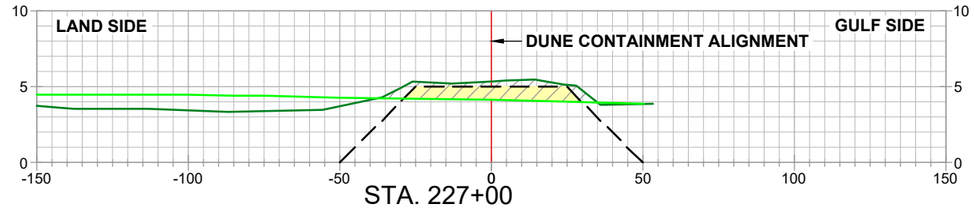
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

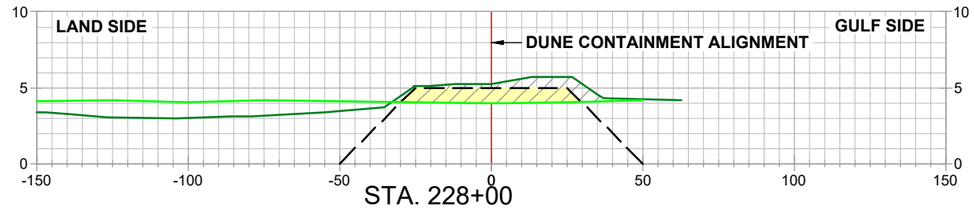
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 6 OF 18



STA. 227+00



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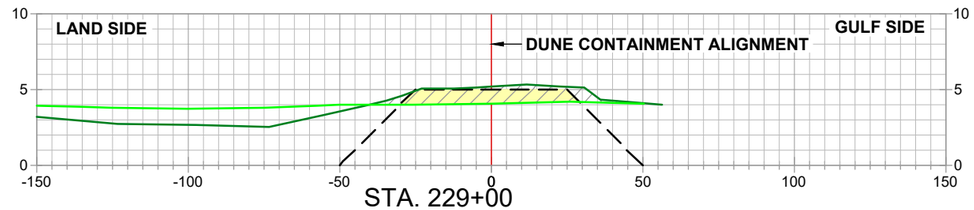
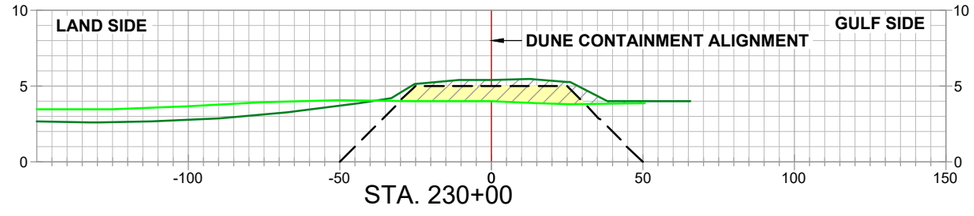
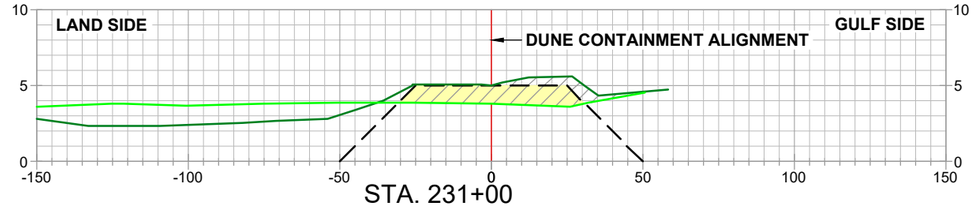


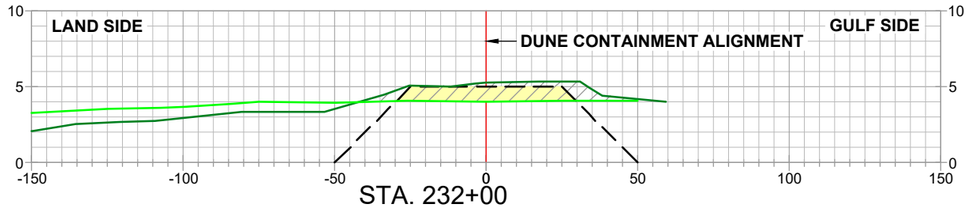
STA. 229+00



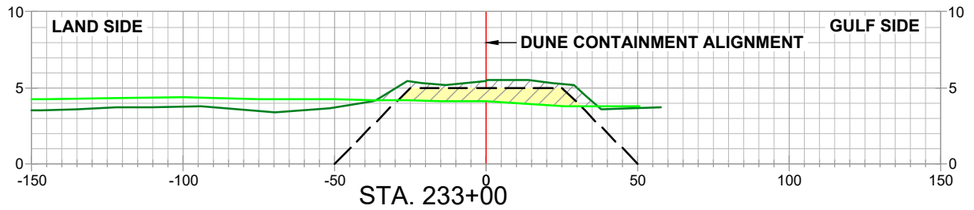
STA. 230+00



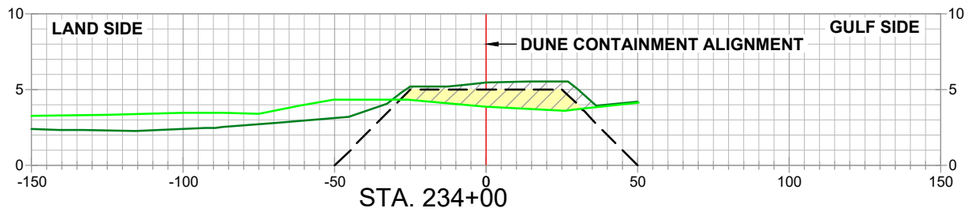
STA. 231+00



STA. 232+00



STA. 233+00



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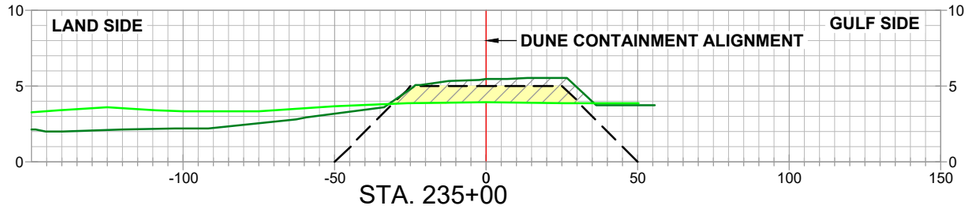
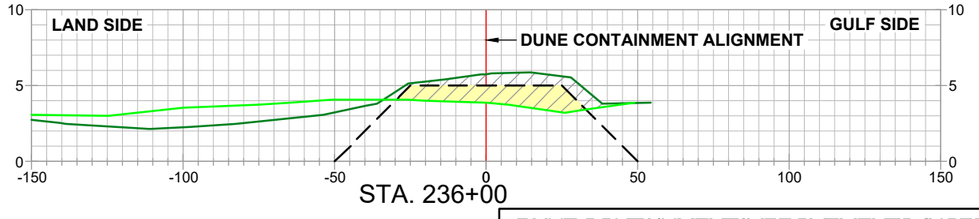


STA. 235+00



STA. 236+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3



LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

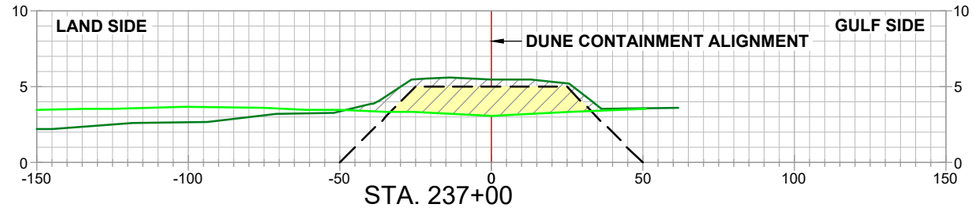
DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

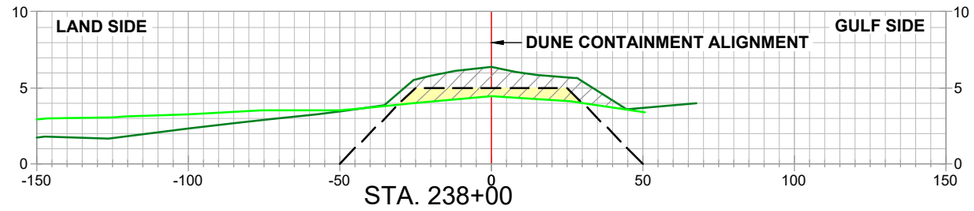
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

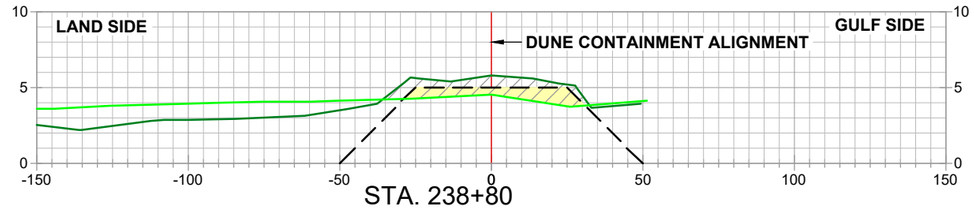
FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg



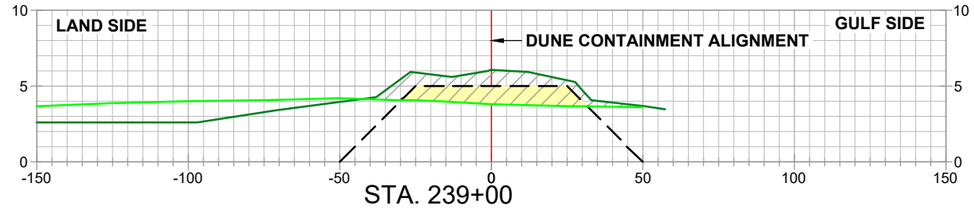
STA. 237+00



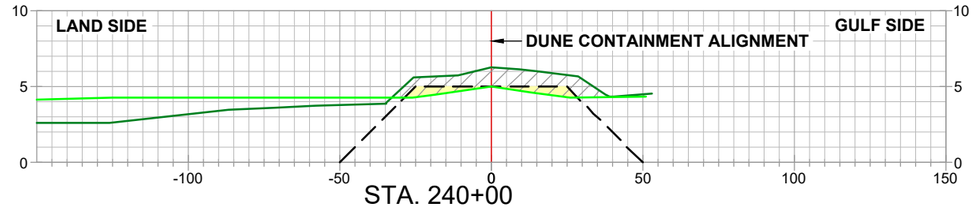
STA. 238+00



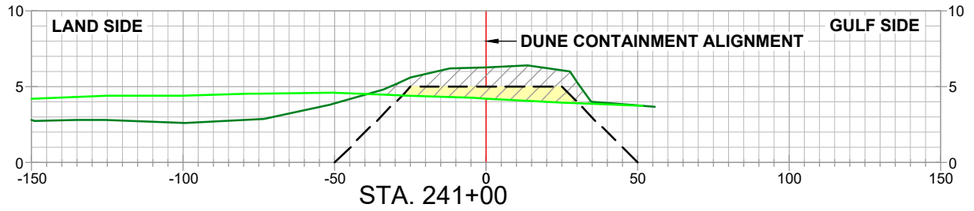
STA. 238+80



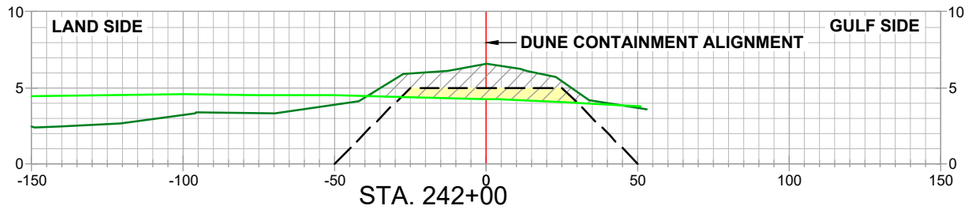
STA. 239+00



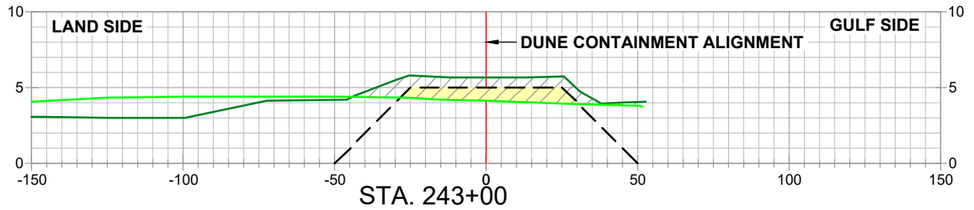
STA. 240+00



STA. 241+00



STA. 242+00



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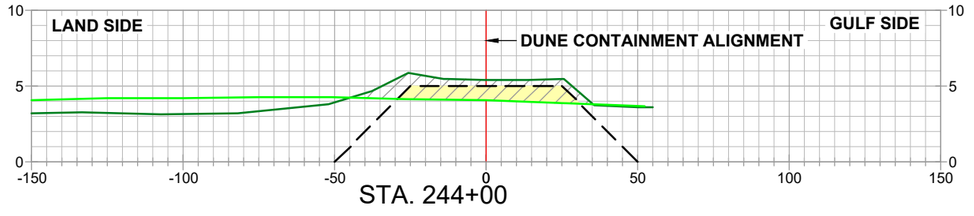
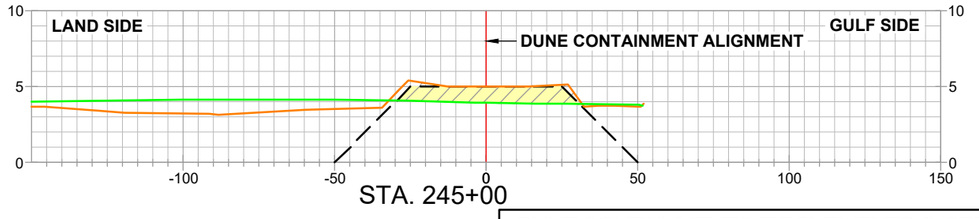


STA. 244+00



STA. 245+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/2022

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

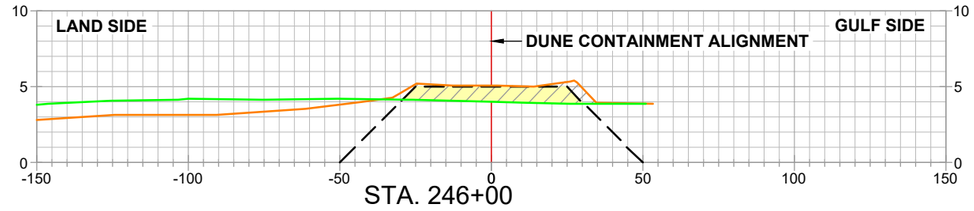
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

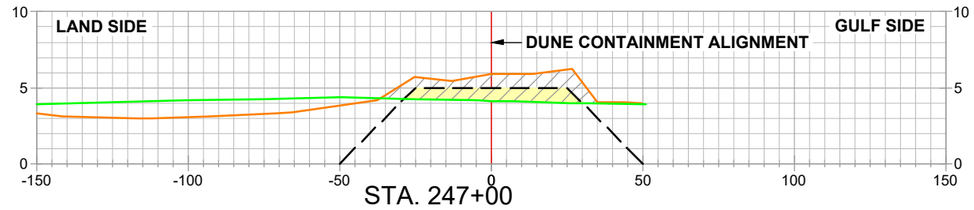
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

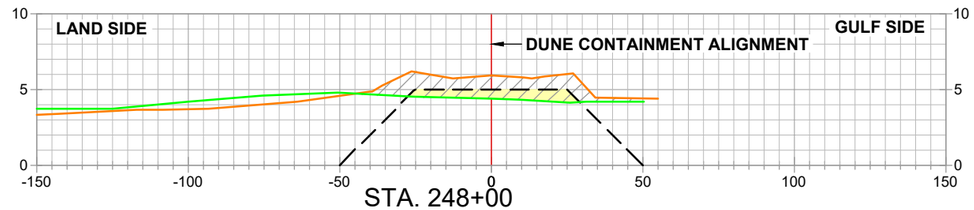
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 8 OF 18



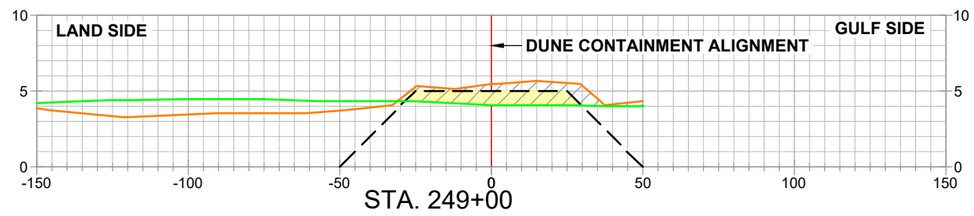
STA. 246+00



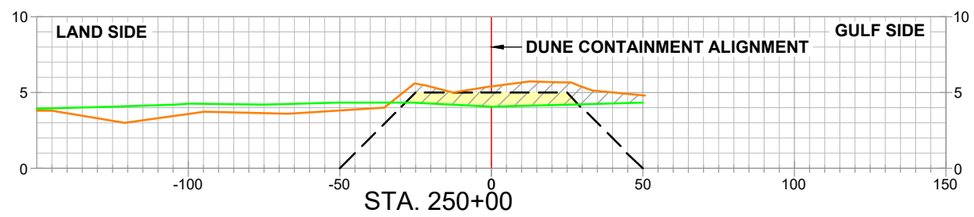
STA. 247+00



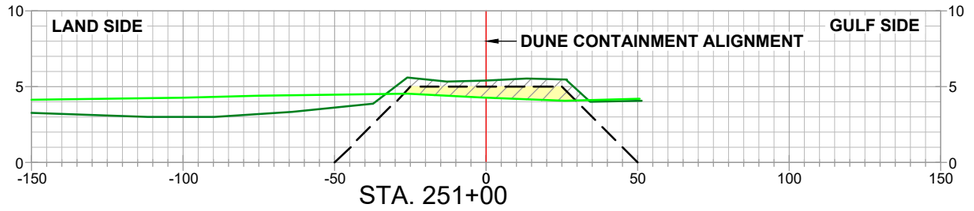
STA. 248+00



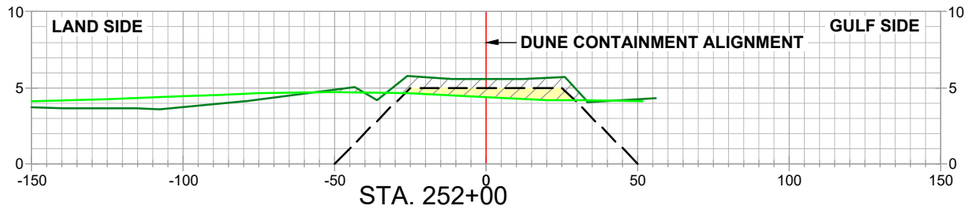
STA. 249+00



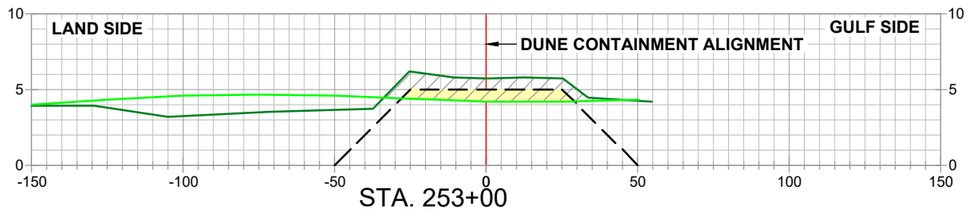
STA. 250+00



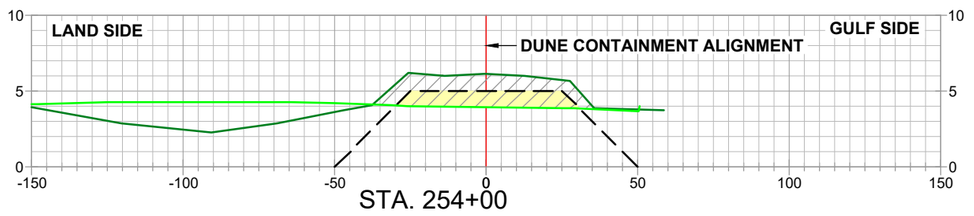
STA. 251+00



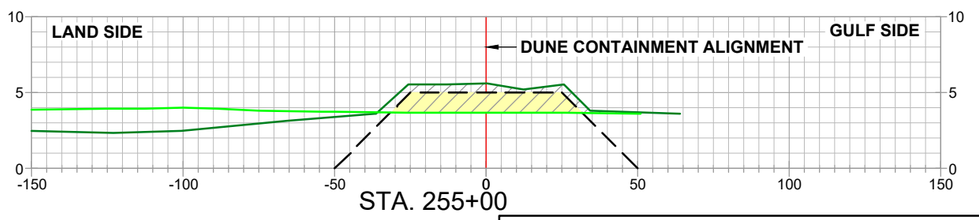
STA. 252+00



STA. 253+00



STA. 254+00



STA. 255+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/2022

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

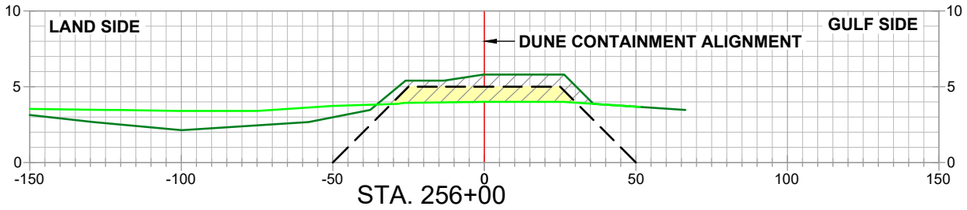
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

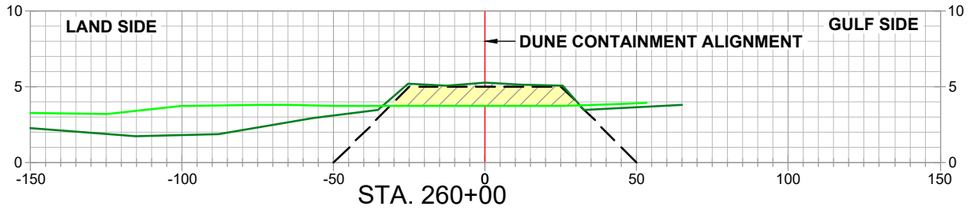
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 9 OF 18



STA. 256+00



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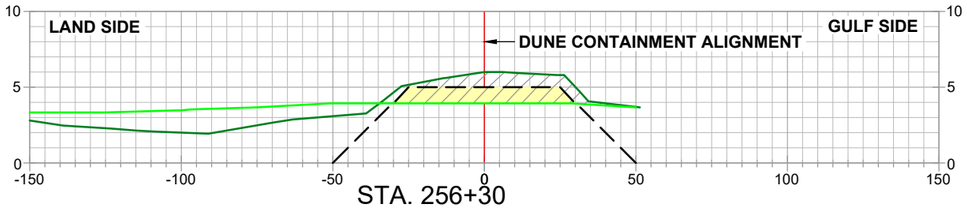
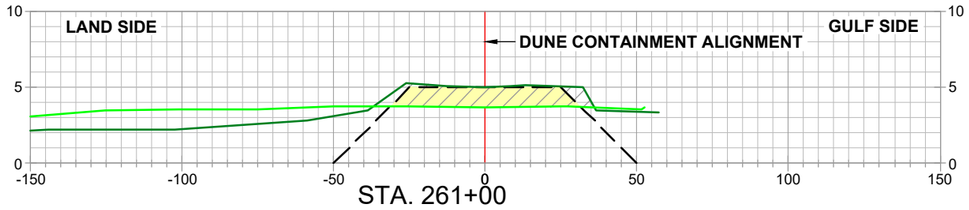
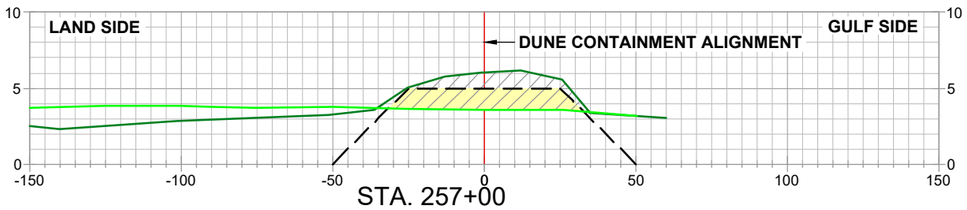


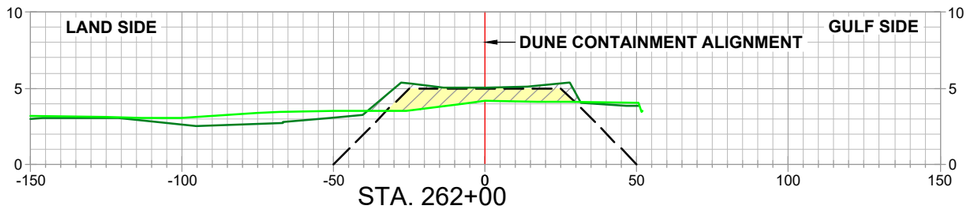
STA. 256+30



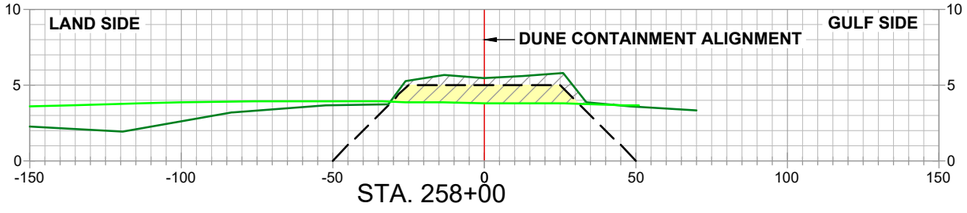
STA. 261+00



STA. 257+00



STA. 262+00



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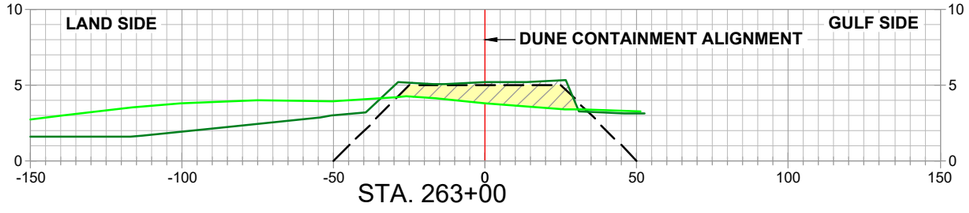

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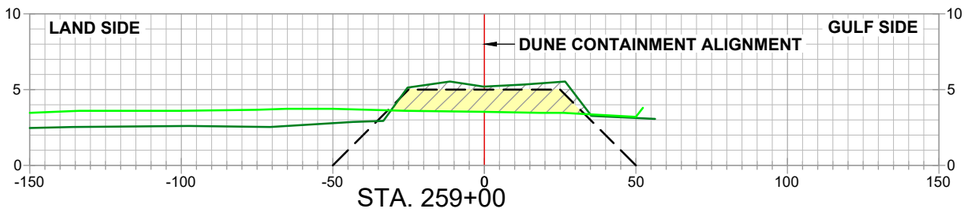

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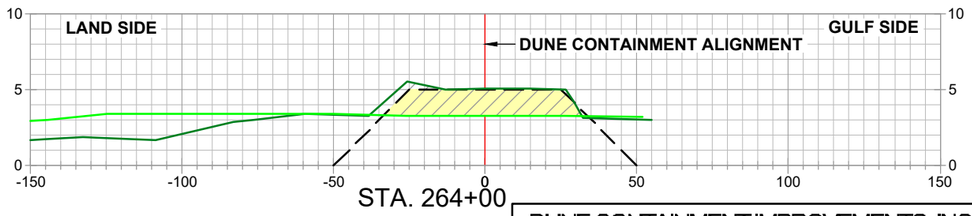


STA. 264+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

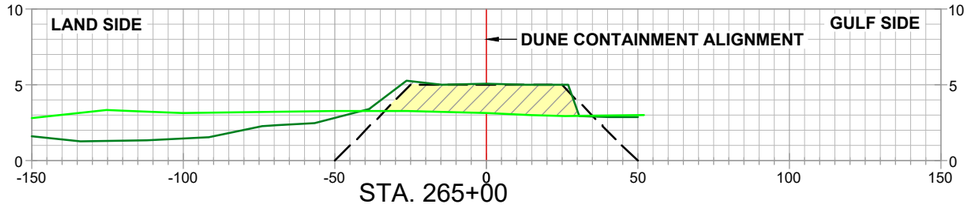
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 10 OF 18



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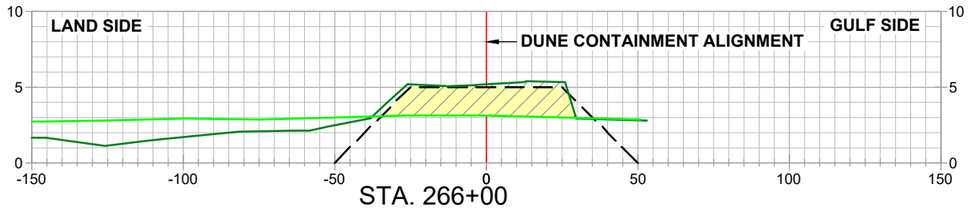

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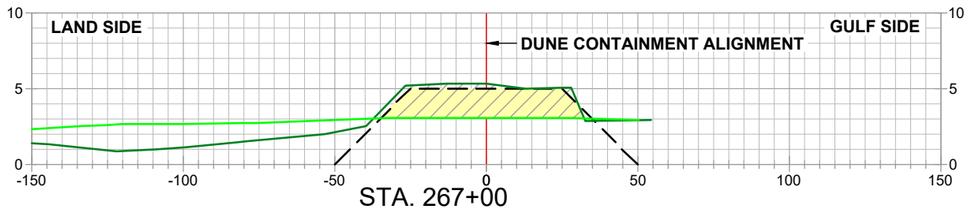
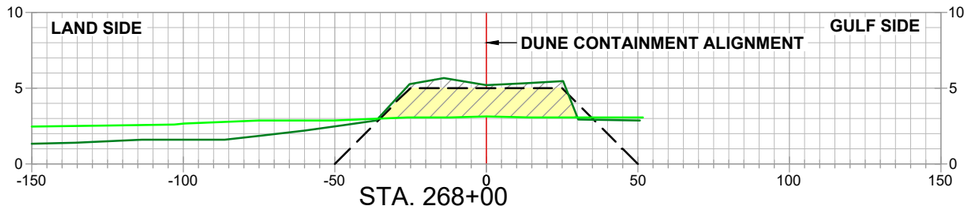


STA. 267+00



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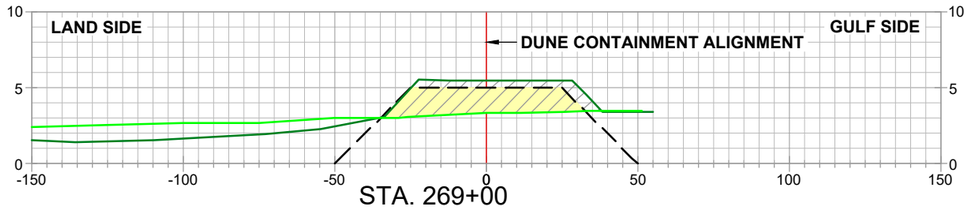

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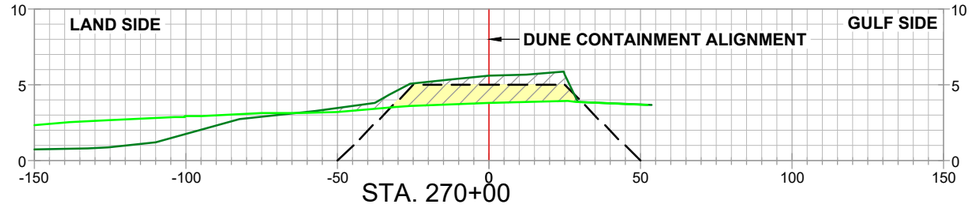

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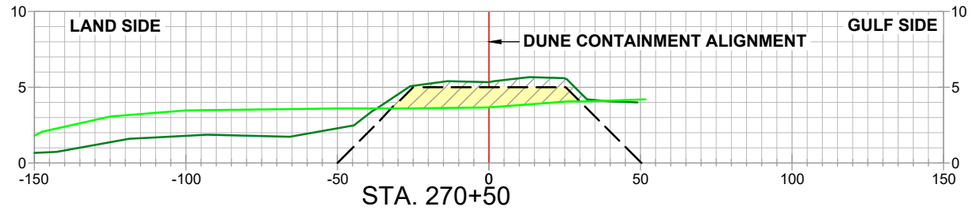

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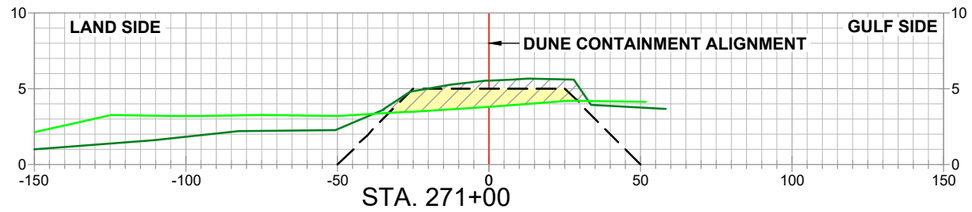

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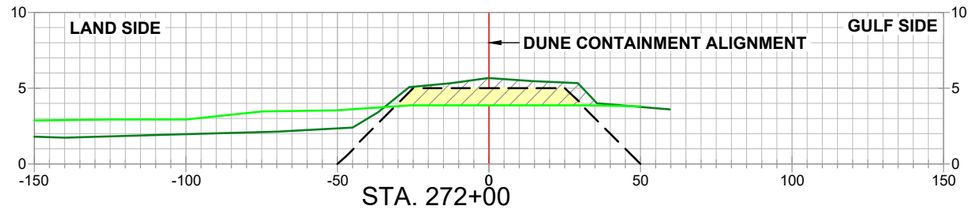
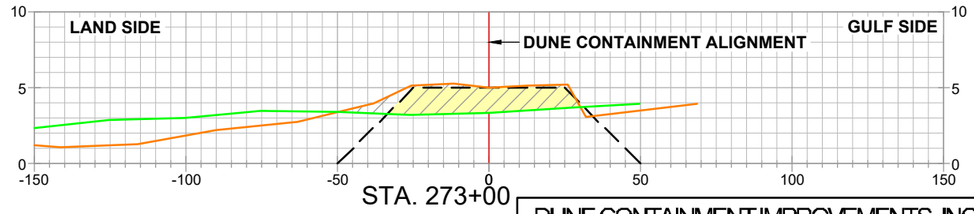


STA. 272+00



STA. 273+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

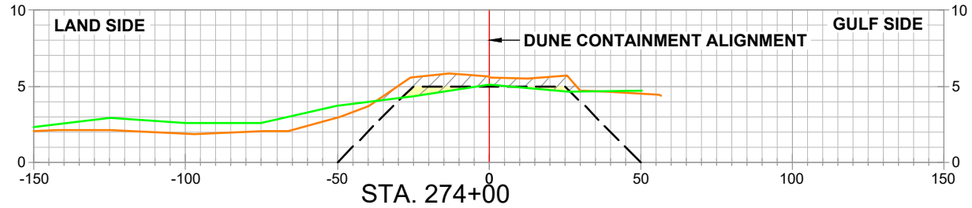
HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

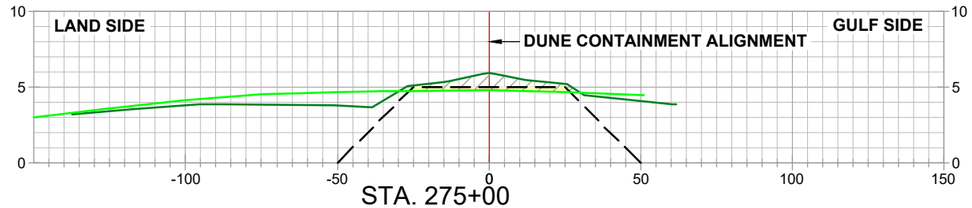
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 11 OF 18



STA. 274+00



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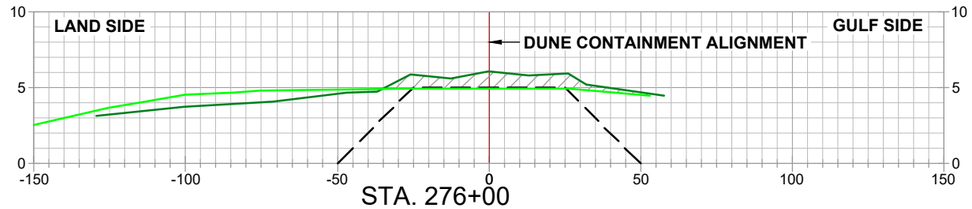
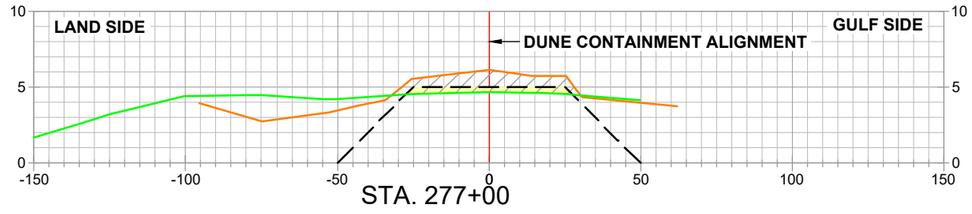
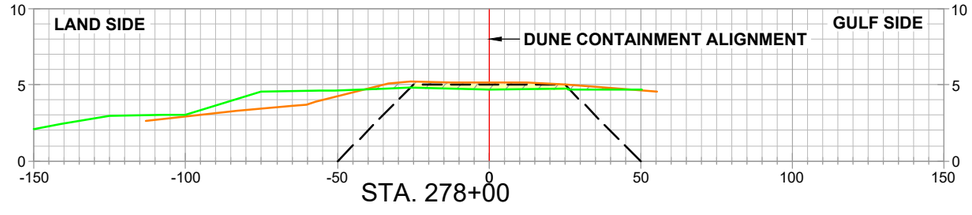


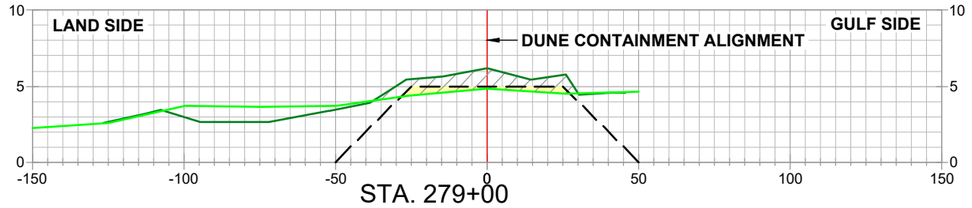
STA. 276+00



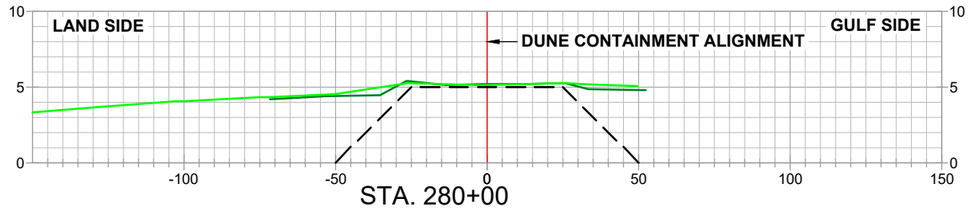
STA. 277+00



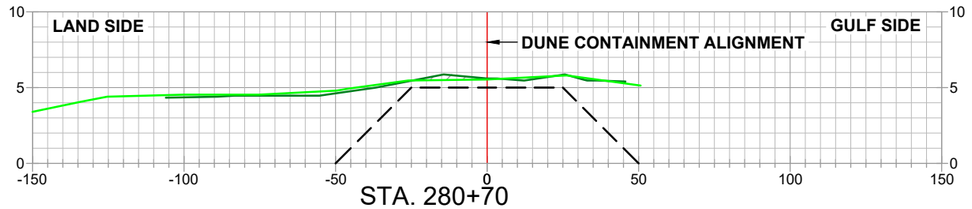
STA. 278+00



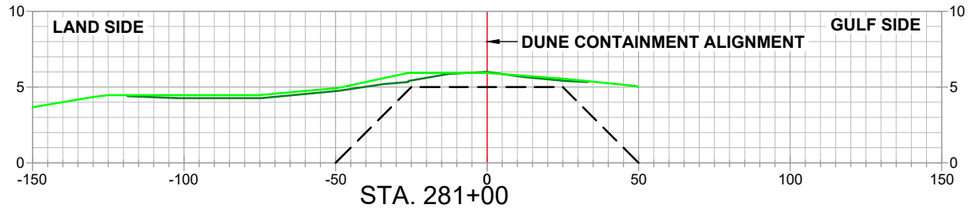
STA. 279+00



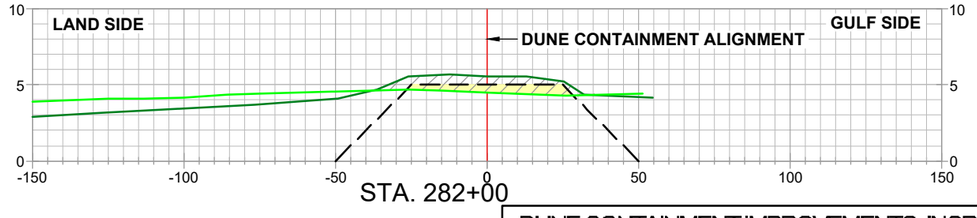
STA. 280+00



STA. 280+70



STA. 281+00



STA. 282+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-2022

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
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TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

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2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

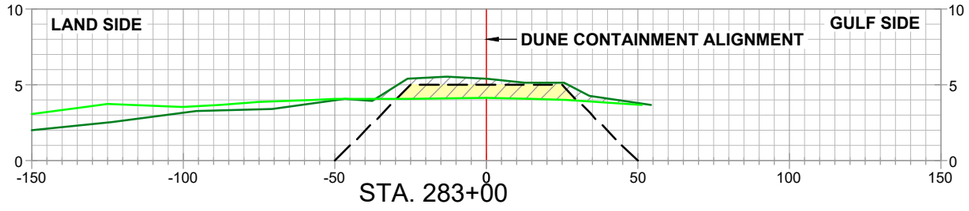
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

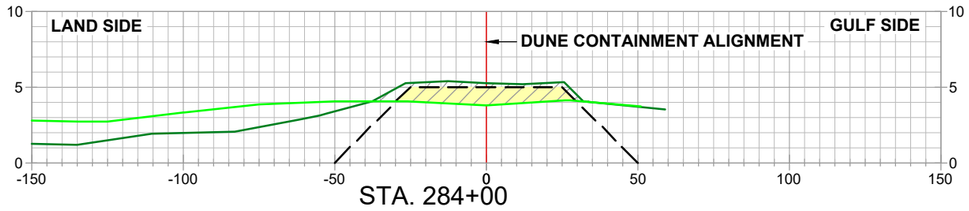
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg



STA. 283+00



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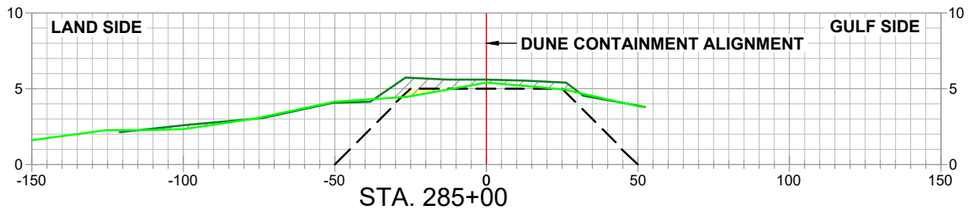
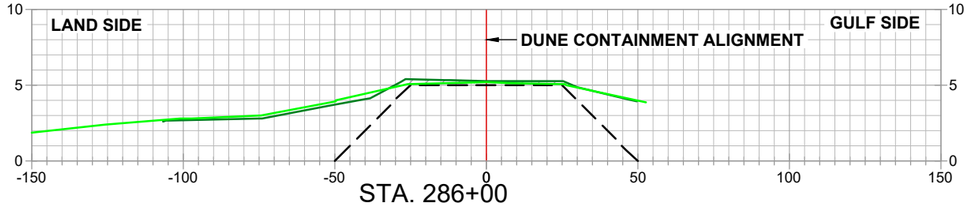
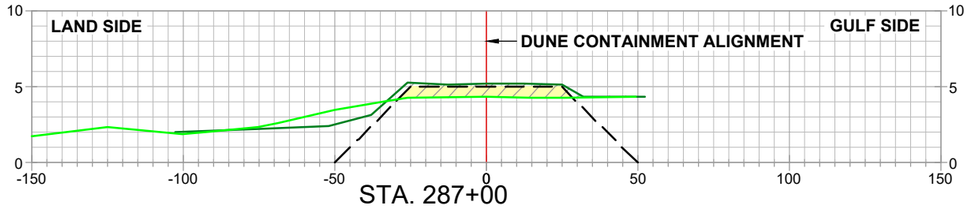


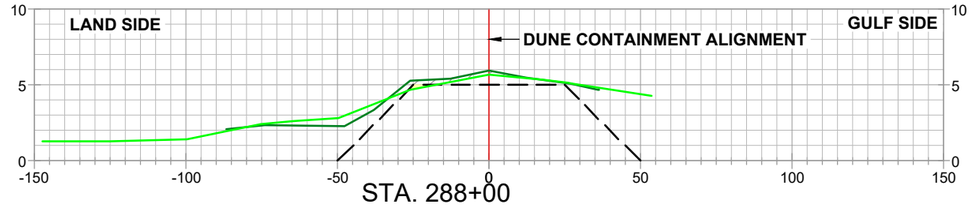
STA. 285+00



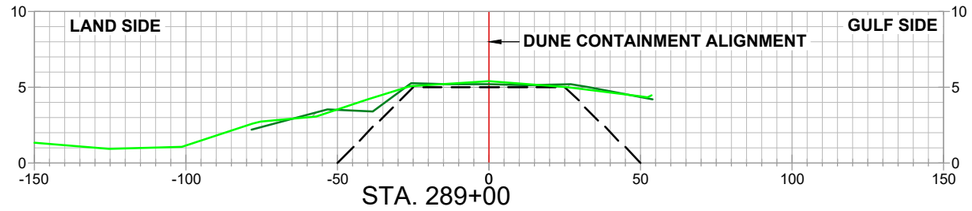
STA. 286+00



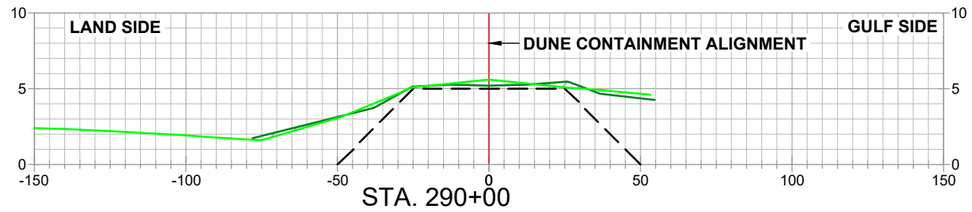
STA. 287+00



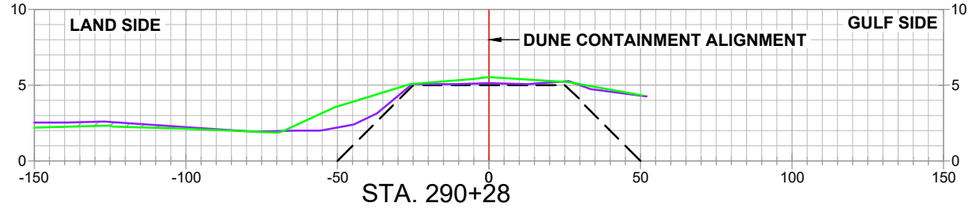
STA. 288+00



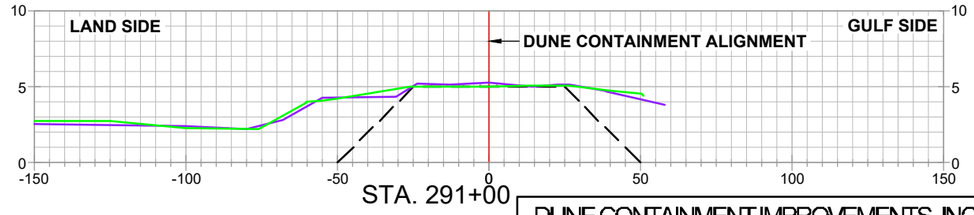
STA. 289+00



STA. 290+00



STA. 290+28



STA. 291+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

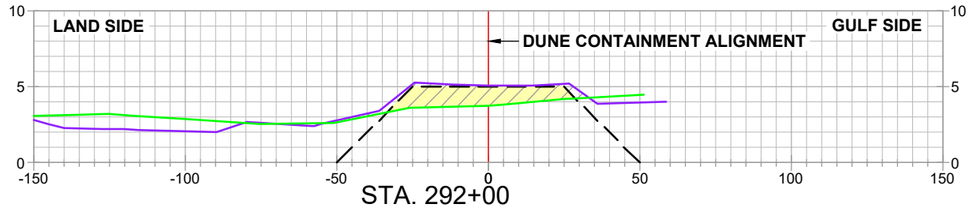
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

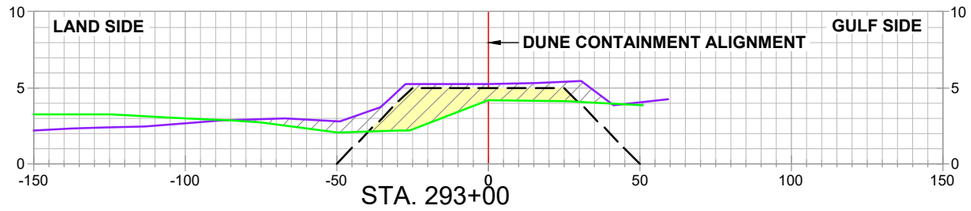
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 13 OF 18



STA. 292+00



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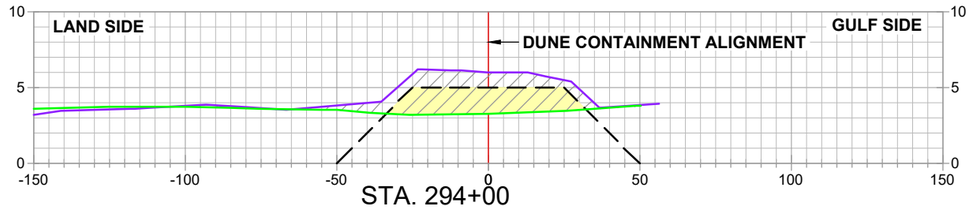
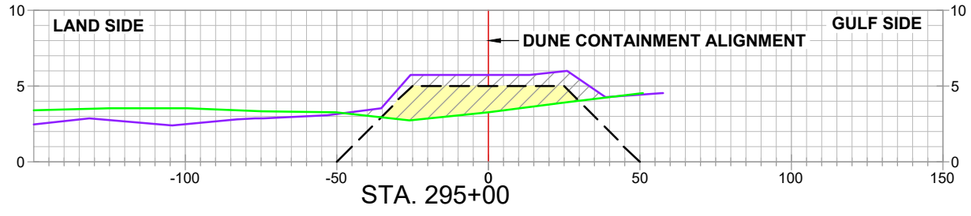


STA. 294+00



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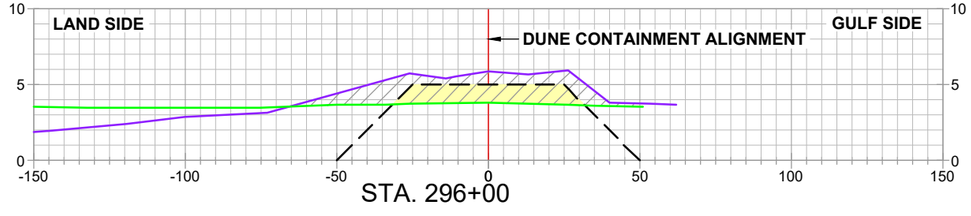

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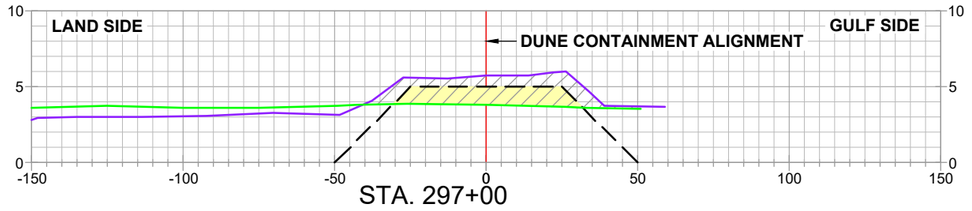

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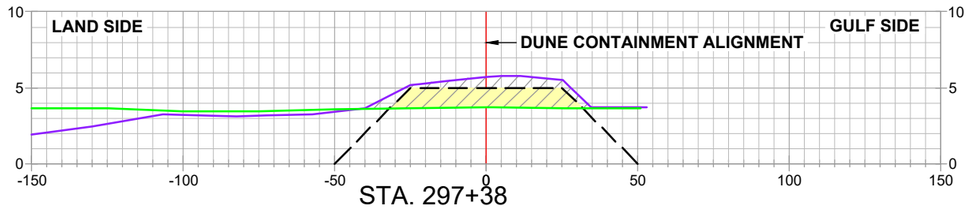

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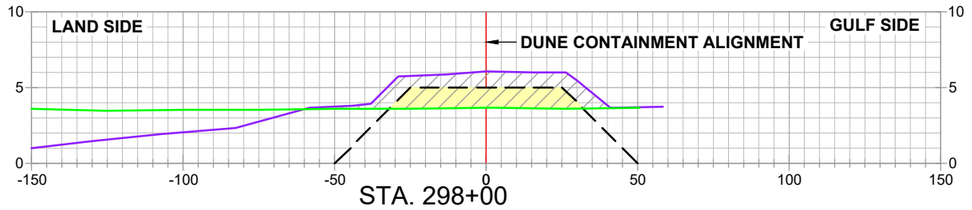

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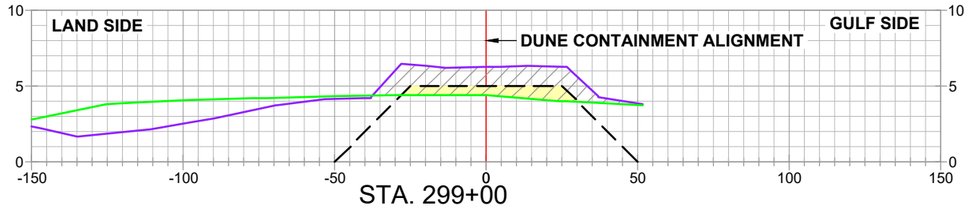

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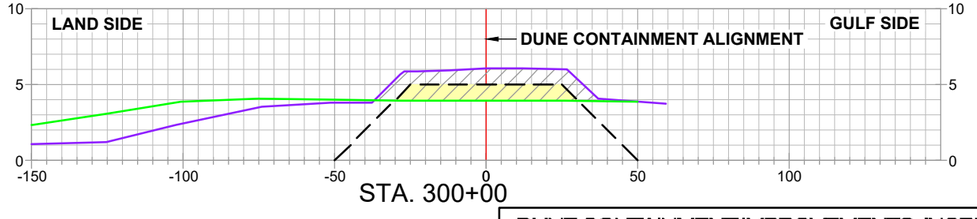


STA. 300+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/2022

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

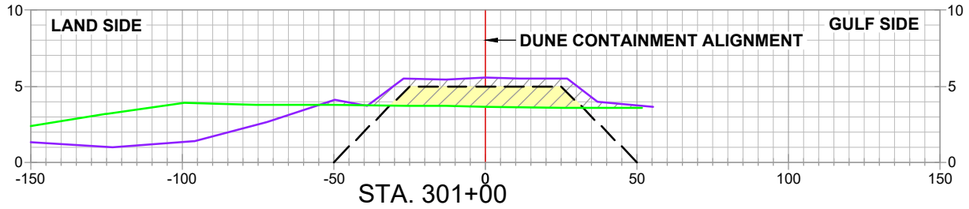
DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg



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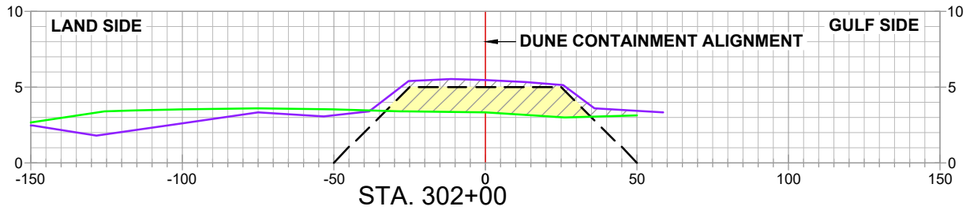

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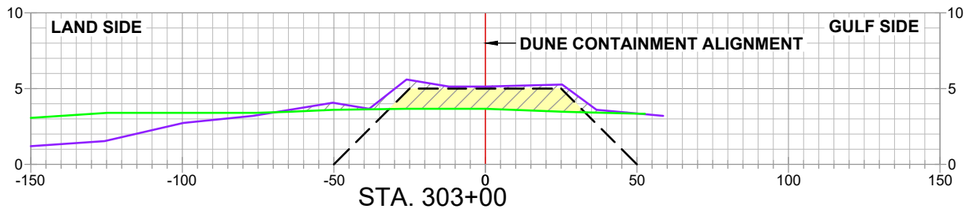

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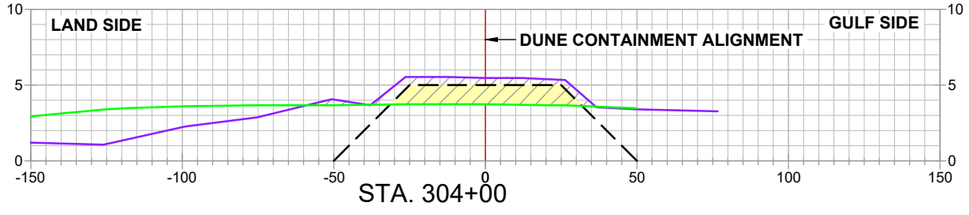
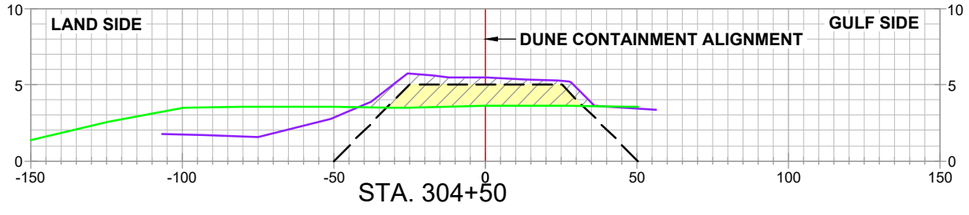
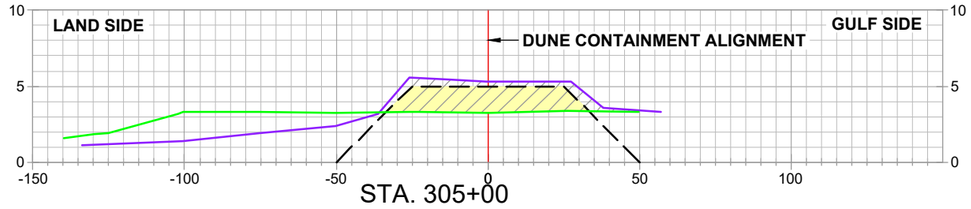


STA. 304+00



STA. 304+50



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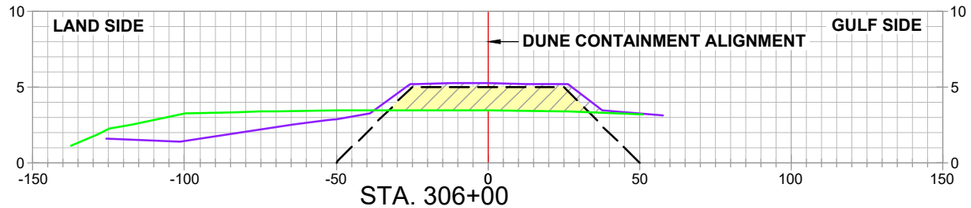

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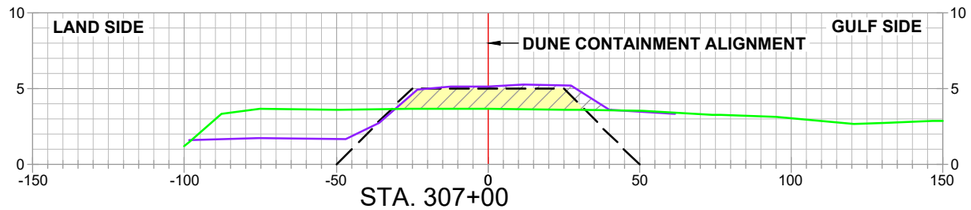

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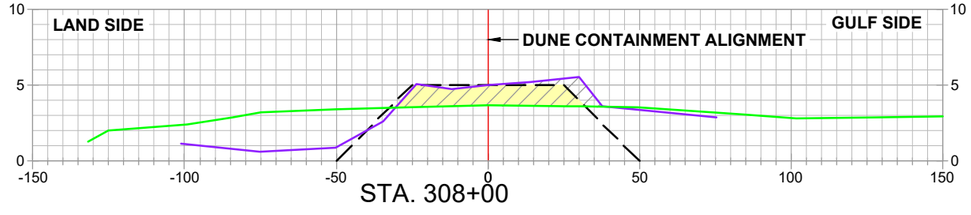

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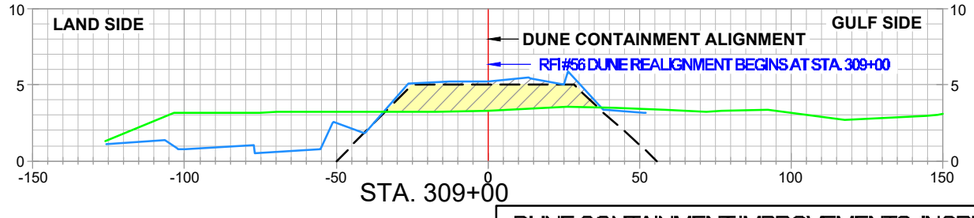


STA. 309+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-2022

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

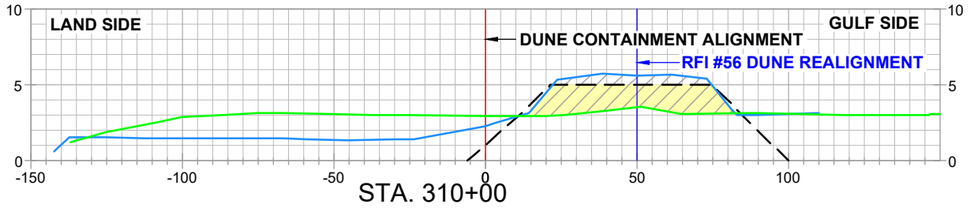
DATE: 07/22/2022 | JOB# 2221011

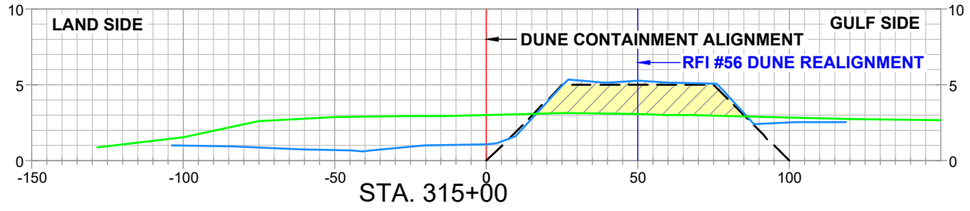
HYDROTERRA

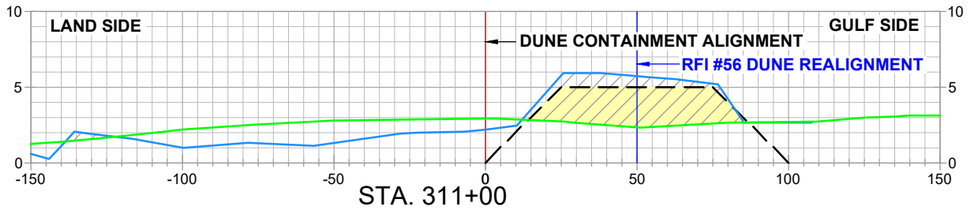
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

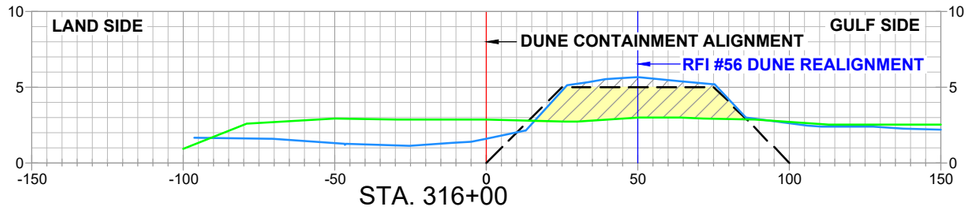
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

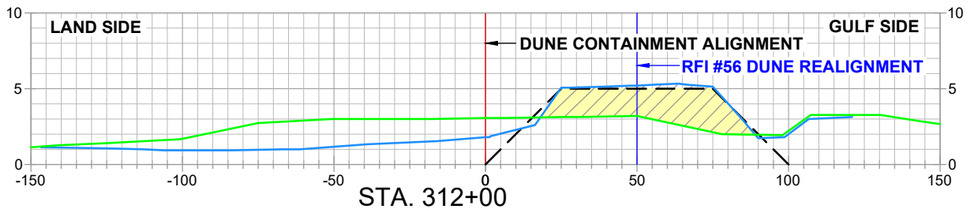
FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg

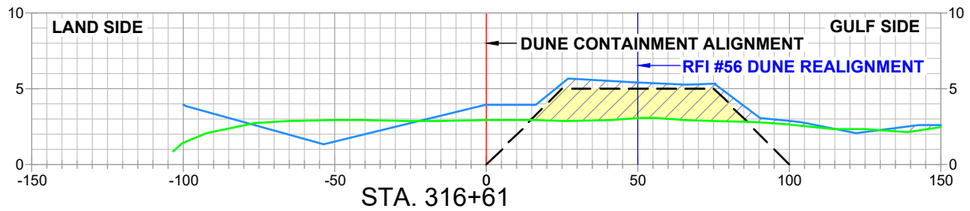


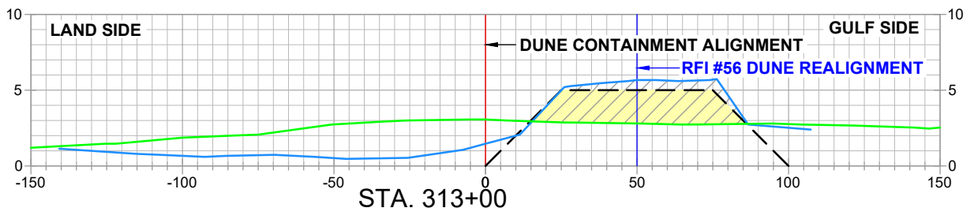


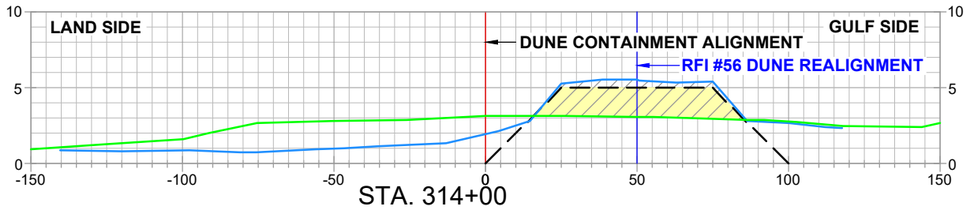












STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
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NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISION:	DATE:

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
CROSS-SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

HYDROTERRA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 16 OF 18

MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
208+81.01	3.21	0.00	0.00	231+00.00	67.83	234.40	1868.49	254+00.00	58.82	185.03	6192.33	276+00.00	3.99	32.21	12173.92	297+37.59	76.12	100.33	14803.61
209+00.00	1.91	1.80	1.80	232+00.00	51.85	221.63	2090.12	255+00.00	73.31	244.69	6437.02	277+00.00	19.79	44.03	12217.95	298+00.00	80.21	180.70	14984.30
210+00.00	4.15	11.21	13.02	233+00.00	54.44	196.83	2286.95	256+00.00	56.95	241.22	6678.23	278+00.00	13.76	62.14	12280.09	299+00.00	39.22	221.17	15205.47
211+00.00	28.27	60.03	73.04	234+00.00	60.63	213.08	2500.03	256+30.49	57.00	64.33	6742.56	279+00.00	18.59	59.91	12340.00	300+00.00	58.10	180.22	15385.69
212+00.00	16.58	83.06	156.10	235+00.00	60.97	225.17	2725.20	257+00.00	80.18	176.59	6919.15	280+00.00	0.00	34.42	12374.42	301+00.00	77.43	250.97	15636.66
213+00.00	0.00	30.71	186.81	236+00.00	69.99	242.52	2967.72	258+00.00	66.92	272.41	7191.56	280+70.32	0.00	0.00	12374.42	302+00.00	103.96	335.89	15972.55
214+00.00	0.00	0.00	186.81	237+00.00	103.18	320.69	3288.40	259+00.00	83.72	278.96	7470.53	281+00.00	0.00	0.00	12374.42	303+00.00	79.29	339.34	16311.89
214+82.67	0.00	0.00	186.81	238+00.00	42.63	270.01	3558.42	260+00.00	70.64	285.85	7756.38	282+00.00	25.98	48.11	12422.52	304+00.00	72.35	280.81	16592.70
215+00.00	0.00	0.00	186.81	238+79.90	41.23	124.08	3682.50	261+00.00	72.77	265.57	8021.94	283+00.00	48.48	137.89	12560.41	304+50.21	80.11	141.76	16734.46
216+00.00	0.00	0.00	186.81	239+00.00	65.51	39.73	3722.23	262+00.00	59.04	244.08	8266.03	284+00.00	57.80	196.83	12757.24	305+00.00	99.13	165.26	16899.72
217+00.00	0.00	0.00	186.81	240+00.00	19.95	158.26	3880.49	263+00.00	65.87	231.30	8497.33	285+00.00	4.22	114.86	12872.10	306+00.00	91.14	352.35	17252.06
218+00.00	2.68	4.97	191.78	241+00.00	42.85	116.31	3996.80	264+00.00	99.93	307.02	8804.35	286+00.00	0.00	7.82	12879.92	307+00.00	74.81	307.31	17559.38
219+00.00	32.65	65.44	257.22	242+00.00	43.11	159.19	4155.99	265+00.00	106.56	382.39	9186.74	287+00.00	36.54	67.67	12947.59	308+00.00	74.36	276.25	17835.62
220+00.00	24.60	106.02	363.24	243+00.00	48.92	170.43	4326.42	266+00.00	111.10	403.08	9589.82	288+00.00	1.28	70.05	13017.64	309+00.00	101.09	324.90	18160.53
221+00.00	31.97	104.75	467.98	243+99.88	53.15	188.78	4515.19	267+00.00	115.33	419.31	10009.12	289+00.00	0.00	2.38	13020.02	310+00.00	108.53	388.19	18548.71
222+00.00	28.58	112.12	580.10	245+00.00	57.59	205.32	4720.51	268+00.00	110.08	417.41	10426.54	290+00.00	0.00	0.00	13020.02	311+00.00	152.05	482.57	19031.29
223+00.00	0.75	54.31	634.41	246+00.00	53.20	205.16	4925.67	269+00.00	99.21	387.56	10814.10	290+27.74	0.00	0.00	13020.02	312+00.00	131.84	525.74	19557.02
224+00.00	27.73	52.75	687.16	247+00.00	48.32	187.99	5113.66	270+00.00	68.15	309.92	11124.02	291+00.00	0.00	0.00	13020.02	313+00.00	131.45	487.58	20044.60
225+00.00	29.72	106.39	793.55	248+00.00	33.95	152.34	5266.01	270+50.41	72.51	131.29	11255.32	292+00.00	65.11	120.58	13140.60	314+00.00	113.70	453.99	20498.60
226+00.00	31.86	114.03	907.58	249+00.00	47.17	150.21	5416.21	271+00.00	66.11	127.32	11382.64	293+00.00	87.71	283.01	13423.60	315+00.00	114.30	422.23	20920.83
227+00.00	45.78	143.78	1051.36	250+00.00	42.92	166.83	5583.04	272+00.00	62.19	237.59	11620.23	294+00.00	98.97	345.70	13769.31	316+00.00	126.52	445.96	21366.79
228+00.00	53.88	184.56	1235.92	251+00.38	38.63	151.59	5734.64	273+00.49	91.21	285.45	11905.68	295+00.00	98.44	365.58	14134.88	316+61.23	125.80	286.08	21652.87
229+00.00	51.19	194.58	1430.49	252+00.00	33.89	133.80	5868.44	274+00.00	11.63	189.52	12095.20	296+00.00	70.23	312.36	14447.25				
230+00.00	58.75	203.60	1634.09	253+00.00	41.09	138.86	6007.30	275+00.18	13.44	46.50	12141.70	297+00.00	68.02	256.03	14703.28				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07-22-22

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

REVISION:	DATE:

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 17 OF 18

GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
208+81.01	75.18	0.00	0.00	231+00.00	97.51	348.17	4181.79	254+00.00	133.31	426.39	12530.32	276+00.00	61.78	186.77	20878.89	297+37.59	118.79	174.42	26115.06
209+00.00	64.17	49.02	49.02	232+00.00	84.37	336.80	4518.59	255+00.00	111.50	453.35	12983.67	277+00.00	68.48	241.22	21120.10	298+00.00	163.39	326.15	26441.21
210+00.00	60.25	230.40	279.42	233+00.00	86.65	316.70	4835.29	256+00.00	104.31	399.65	13383.31	278+00.00	29.49	181.43	21301.54	299+00.00	137.39	557.00	26998.22
211+00.00	66.19	234.15	513.56	234+00.00	91.45	329.82	5165.11	256+30.49	109.57	120.75	13504.06	279+00.00	66.86	178.43	21479.97	300+00.00	132.79	500.34	27498.56
212+00.00	54.44	223.39	736.96	235+00.00	88.12	332.55	5497.66	257+00.00	129.61	307.90	13811.96	280+00.00	1.95	127.42	21607.39	301+00.00	127.79	482.55	27981.11
213+00.00	11.51	122.12	859.08	236+00.00	118.58	382.78	5880.44	258+00.00	103.74	432.13	14244.08	280+70.32	6.39	10.86	21618.26	302+00.00	140.16	496.19	28477.31
214+00.00	2.73	26.36	885.44	237+00.00	149.81	497.02	6377.46	259+00.00	106.84	389.97	14634.05	281+00.00	0.75	3.93	21622.18	303+00.00	115.41	473.28	28950.59
214+82.67	2.82	8.50	893.94	238+00.00	114.94	490.27	6867.73	260+00.00	82.27	350.20	14984.25	282+00.00	61.55	115.38	21737.56	304+00.00	116.42	429.33	29379.91
215+00.00	3.49	2.03	895.97	238+79.90	78.95	286.88	7154.62	261+00.00	92.20	323.10	15307.35	283+00.00	80.94	263.88	22001.45	304+50.21	121.34	221.08	29601.00
216+00.00	2.17	10.49	906.45	239+00.00	126.75	76.57	7231.19	262+00.00	77.19	313.68	15621.03	284+00.00	79.58	297.26	22298.71	305+00.00	134.97	236.33	29837.33
217+00.00	1.40	6.61	913.06	240+00.00	84.32	390.86	7622.05	263+00.00	80.29	291.62	15912.65	285+00.00	40.48	222.33	22521.04	306+00.00	115.08	463.05	30300.37
218+00.00	34.46	66.40	979.47	241+00.00	121.72	381.54	8003.59	264+00.00	113.53	358.92	16271.58	286+00.00	10.49	94.38	22615.43	307+00.00	92.40	384.22	30684.60
219+00.00	62.68	179.88	1159.35	242+00.00	118.32	444.52	8448.11	265+00.00	119.59	431.71	16703.28	287+00.00	53.97	119.36	22734.79	308+00.00	91.81	341.14	31025.73
220+00.00	64.95	236.36	1395.71	243+00.00	106.44	416.23	8864.33	266+00.00	126.63	455.97	17159.25	288+00.00	13.34	124.66	22859.45	309+00.00	119.59	391.49	31417.22
221+00.00	62.05	235.19	1630.90	243+99.88	97.22	376.67	9241.00	267+00.00	132.98	480.75	17640.00	289+00.00	6.32	36.41	22895.86	310+00.00	140.57	481.77	31899.00
222+00.00	65.85	236.86	1867.76	245+00.00	67.28	305.01	9546.02	268+00.00	133.55	493.57	18133.58	290+00.00	8.95	28.28	22924.14	311+00.00	199.37	629.50	32528.50
223+00.00	10.56	141.50	2009.26	246+00.00	69.91	254.06	9800.07	269+00.00	134.59	496.56	18630.13	290+27.74	11.04	10.27	22934.41	312+00.00	141.53	631.28	33159.78
224+00.00	65.84	141.47	2150.72	247+00.00	107.90	329.27	10129.35	270+00.00	109.87	452.70	19082.83	291+00.00	8.91	26.71	22961.11	313+00.00	165.66	568.87	33728.65
225+00.00	69.99	251.53	2402.26	248+00.00	105.54	395.25	10524.60	270+50.41	101.86	197.63	19280.46	292+00.00	81.94	168.23	23129.35	314+00.00	140.38	566.74	34295.38
226+00.00	74.75	268.04	2670.30	249+00.00	82.55	348.30	10872.90	271+00.00	95.96	181.70	19462.15	293+00.00	150.52	430.48	23559.82	315+00.00	126.29	493.83	34789.21
227+00.00	72.74	273.14	2943.44	250+00.00	90.66	320.76	11193.66	272+00.00	96.69	356.77	19818.92	294+00.00	179.95	611.99	24171.81	316+00.00	149.54	510.80	35300.01
228+00.00	86.98	295.78	3239.22	251+00.38	72.31	302.94	11496.60	273+00.49	114.25	392.52	20211.45	295+00.00	161.39	632.11	24803.92	316+61.23	172.88	365.56	35665.58
229+00.00	71.74	293.93	3533.16	252+00.00	79.64	280.33	11776.93	274+00.00	53.35	308.86	20520.31	296+00.00	160.31	595.74	25399.66				
230+00.00	90.51	300.46	3833.62	253+00.00	96.94	326.99	12103.93	275+00.18	39.26	171.81	20692.12	297+00.00	131.82	540.98	25940.64				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
07/22/22

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 3

REVISION:	DATE:

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 3
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

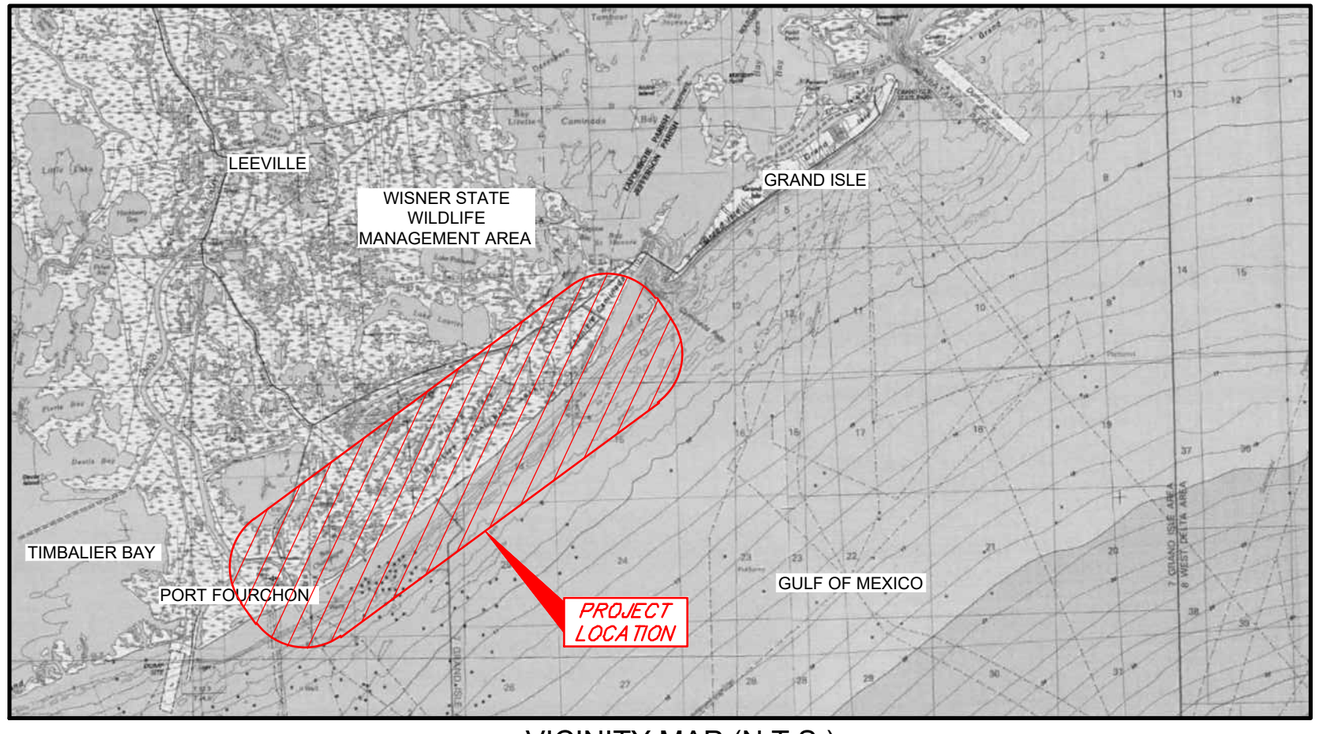
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 3_DUNE_PROGRESS_071522_REV 00.dwg | SHEET: 18 OF 18

GREAT LAKES DREDGE & DOCK COMPANY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT PROJECT NO.: BA-0171

RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS INCREMENT 4

LAFOURCHE AND JEFFERSON PARISHES, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3	ALIGNMENT PLAN VIEW
4	SURVEY PLAN VIEW
5 - 16	CROSS-SECTION VIEWS
17 - 18	VOLUME REPORTS

STATE OF LOUISIANA
KEITH J. ROBERTS
REG. No. 4780
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

KEITH J. ROBERTS, PLS # 4780
HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEYING FIRM NO. 614
212 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

PLAN SCALE
SCALE: NTS

NTS NTS NTS NTS

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
TITLE PAGE
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 1 OF 18

NOTES:

1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL (TE23-SM-01) VIA GPS KINEMATIC OBSERVATIONS.
2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID12A) AS DERIVED FROM PROJECT CONTROL (TE23-SM-01).
3. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
4. DUNE PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 02-23-22 AND 04-10-22 INCLUSIVE.
5. DUNE PROGRESS SURVEY SURVEY DATA ACQUISITION WAS PERFORMED BY WILCO MARSH BUGGIES AND DRAGLINES INC. BETWEEN 03-16-22 AND 07-15-22.

CRMSBA-SM-19
MONUMENT
NORTHING: 250,130.900
EASTING: 3,674,132.840
ELEVATION: 2.45 FT. NAVD88

TE23-SM-01
STEEL_ROD
NORTHING: 224,296.459
EASTING: 3,645,688.765
ELEVATION: 7.29 FT. NAVD88

020822THS1R
SET ROD
NORTHING: 224,253.039
EASTING: 3,645,676.004
ELEVATION: 14.23 FT. NAVD88

LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

LA. HWY. 1
BAYOU MOREAU
PORT FOURCHON MARINA
BAYOU LAFOURCHE
EARTHEN CONTAINMENT DIKE ALIGNMENT
EQUIPMENT ACCESS CORRIDOR (EA1)
EQUIPMENT ACCESS CORRIDOR (EA2)
EQUIPMENT ACCESS CORRIDOR (EA3)
EQUIPMENT ACCESS CORRIDOR (EA4)
INCREMENT 1
INCREMENT 2
INCREMENT 3
INCREMENT 4
INTERNAL TRAINING DIKE 1
INTERNAL TRAINING DIKE 2
INTERNAL TRAINING DIKE 3
50' BEACH AND DUNE CROSSING
RFI #56
DUNE CENTERLINE REALIGNMENT
STA. 309+00 THROUGH STA. 322+00
DEWATERING POTENTIAL MARSH NOURISHMENT AREA
DREDGE PIPELINE CORRIDOR
NE BORROW AREA
SW BORROW AREA
GULF OF MEXICO
GULF OF MEXICO
GULF OF MEXICO

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- MARSH CREATION AREA
- BORROW AREA

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
1" = 4000'
4000' 0' 2000' 4000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

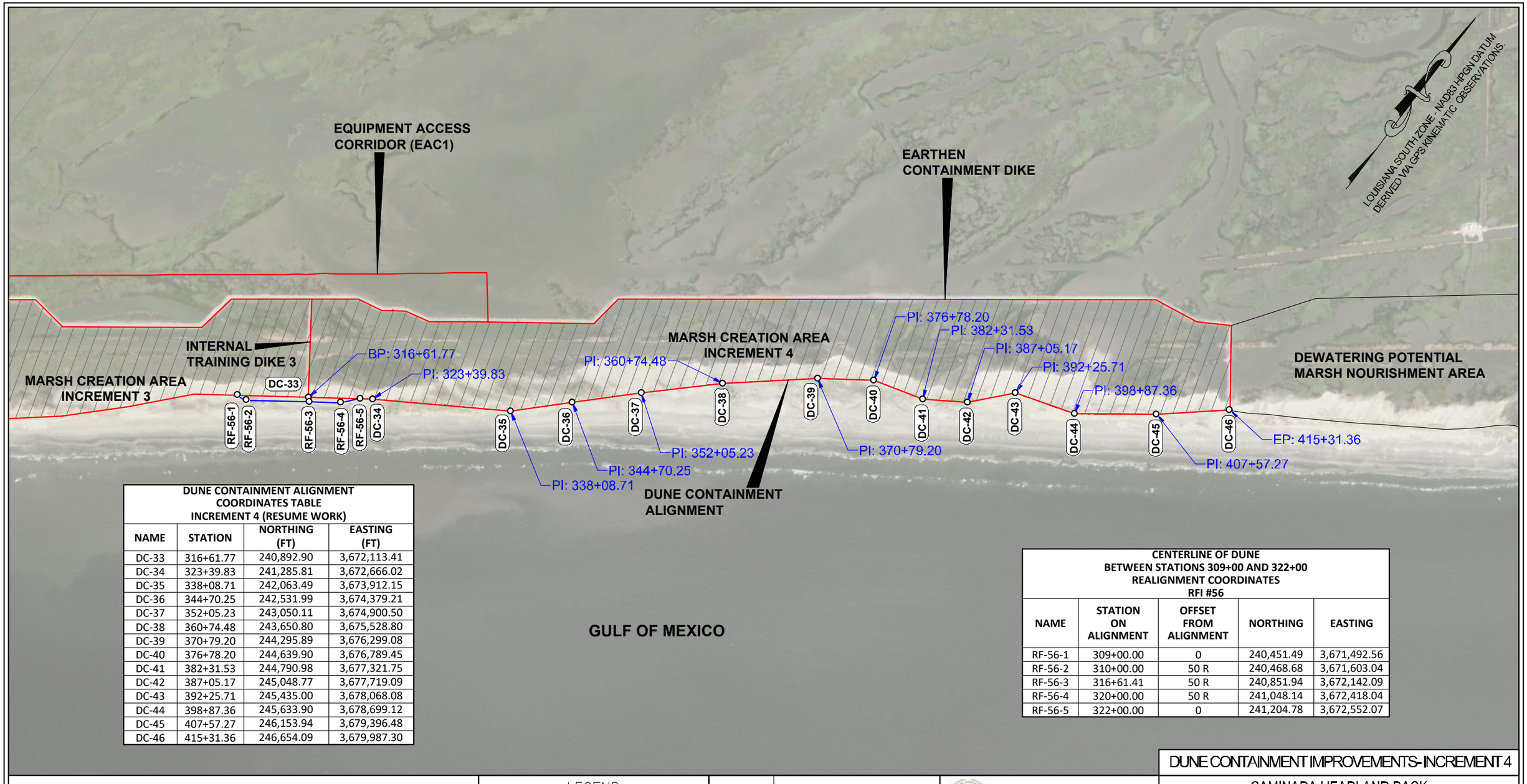
DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
OVERALL PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg

SHEET: 2 OF 18



DUNE CONTAINMENT ALIGNMENT COORDINATES TABLE INCREMENT 4 (RESUME WORK)

NAME	STATION	NORTHING (FT)	EASTING (FT)
DC-33	316+61.77	240,892.90	3,672,113.41
DC-34	323+39.83	241,285.81	3,672,666.02
DC-35	338+08.71	242,063.49	3,673,912.15
DC-36	344+70.25	242,531.99	3,674,379.21
DC-37	352+05.23	243,050.11	3,674,900.50
DC-38	360+74.48	243,650.80	3,675,528.80
DC-39	370+79.20	244,295.89	3,676,299.08
DC-40	376+78.20	244,639.90	3,676,789.45
DC-41	382+31.53	244,790.98	3,677,321.75
DC-42	387+05.17	245,048.77	3,677,719.09
DC-43	392+25.71	245,435.00	3,678,068.08
DC-44	398+87.36	245,633.90	3,678,699.12
DC-45	407+57.27	246,153.94	3,679,396.48
DC-46	415+31.36	246,654.09	3,679,987.30

CENTERLINE OF DUNE BETWEEN STATIONS 309+00 AND 322+00 REALIGNMENT COORDINATES RFI #56

NAME	STATION ON ALIGNMENT	OFFSET FROM ALIGNMENT	NORTHING	EASTING
RF-56-1	309+00.00	0	240,451.49	3,671,492.56
RF-56-2	310+00.00	50 R	240,468.68	3,671,603.04
RF-56-3	316+61.41	50 R	240,851.94	3,672,142.09
RF-56-4	320+00.00	50 R	241,048.14	3,672,418.04
RF-56-5	322+00.00	0	241,204.78	3,672,552.07

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND
- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- FENCE
- GIS DATABASE PIPELINE

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

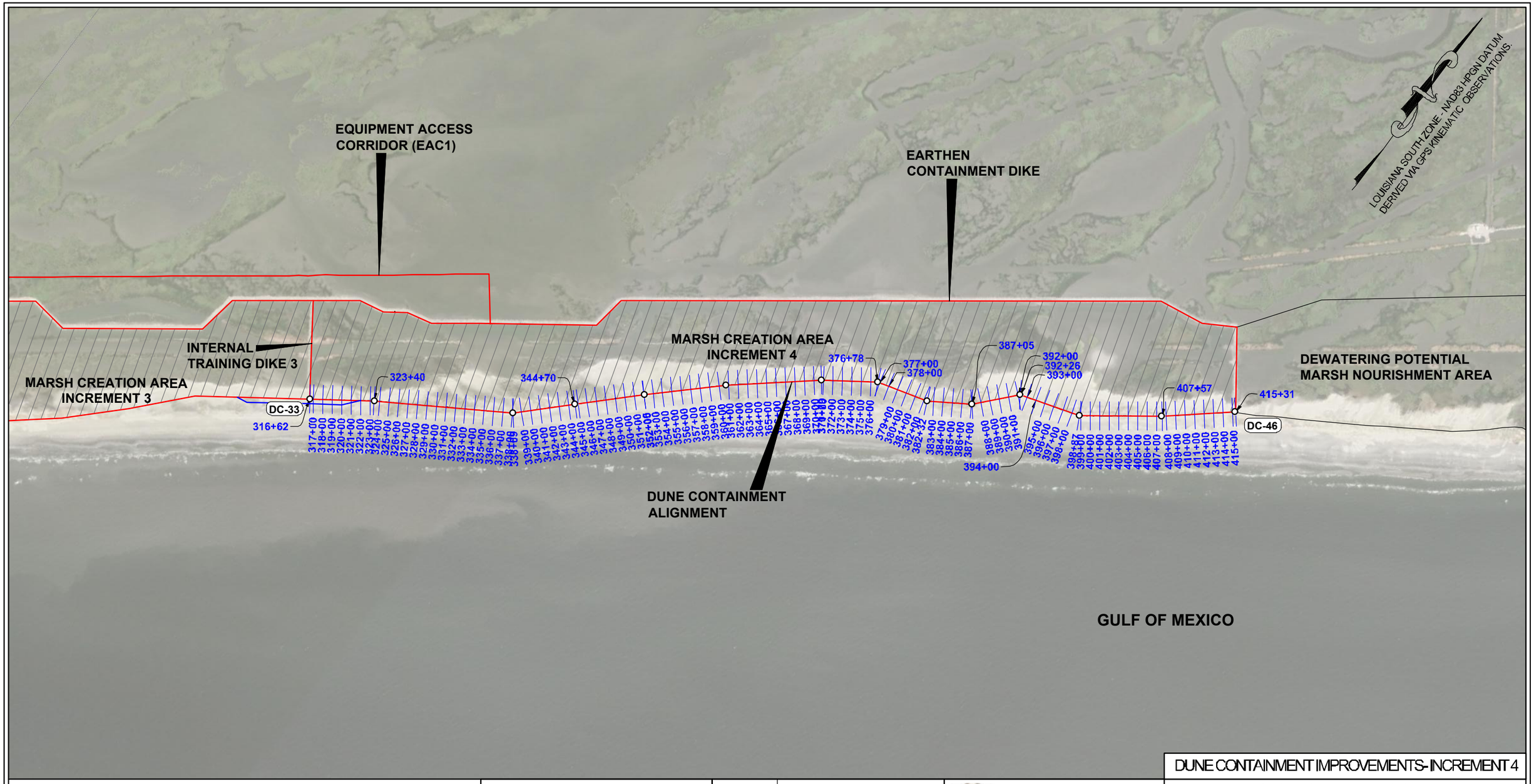
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
ALIGNMENT PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg



DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

- PROJECT ALIGNMENT/BASELINE
- TEMPLATE
- SURVEY CROSS-SECTION
- FENCE
- GIS DATABASE PIPELINE

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
1" = 1000'
1000' 0' 500' 1000'

DATE: 07/22/2022 JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
SURVEY PLAN VIEW
LAFOURCHE & JEFFERSON PARISHES, LA.

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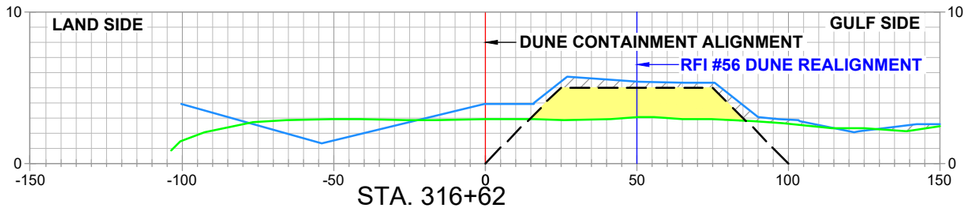
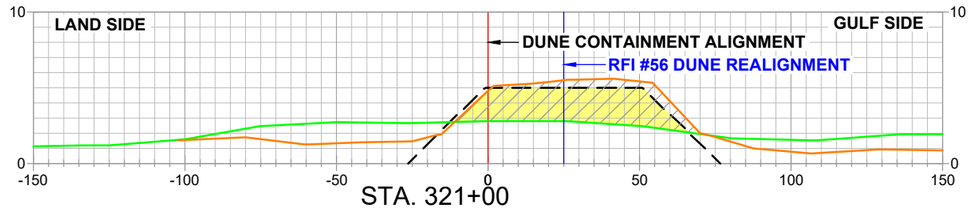
FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg

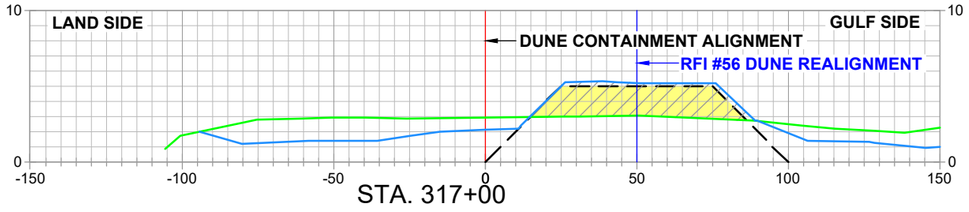
SHEET: 4 OF 18



STA. 316+62



STA. 321+00



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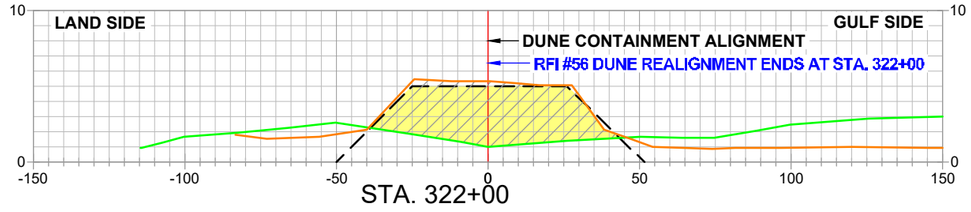

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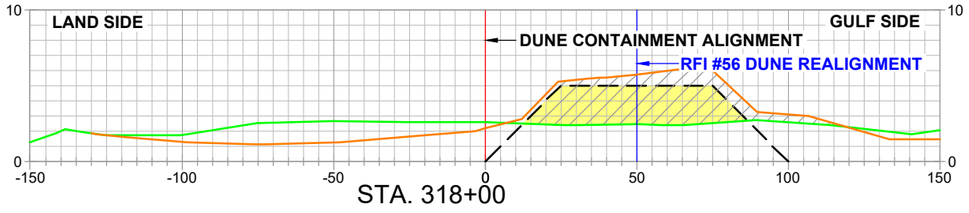
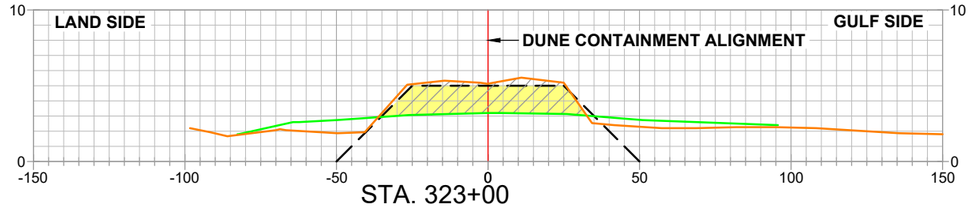
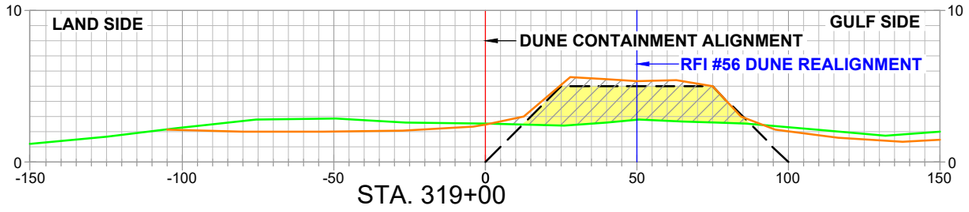


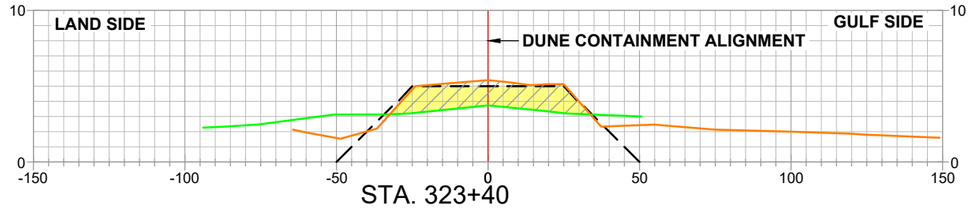
STA. 318+00



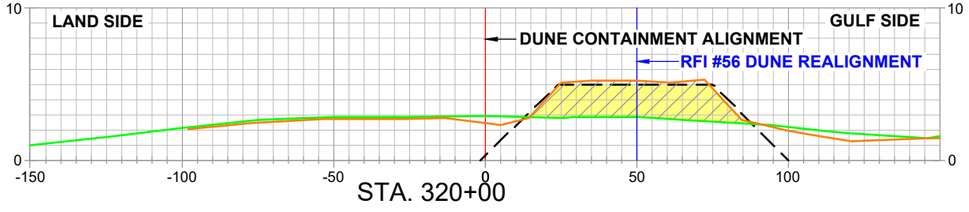
STA. 323+00



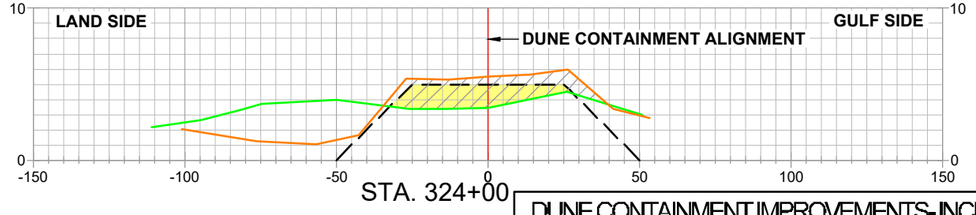
STA. 319+00



STA. 323+40



STA. 320+00



STA. 324+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

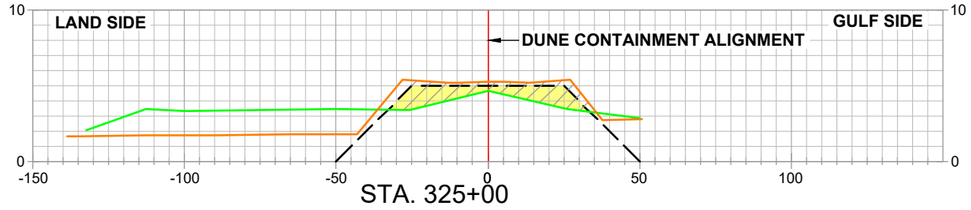
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 5 OF 18



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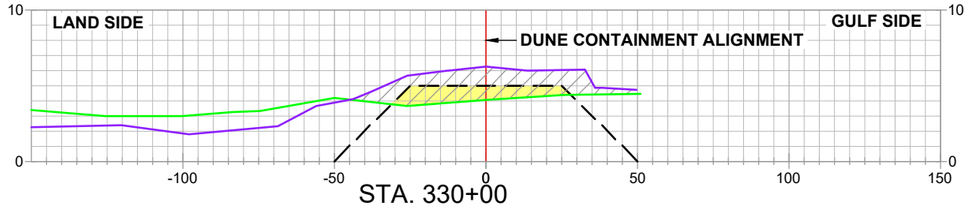

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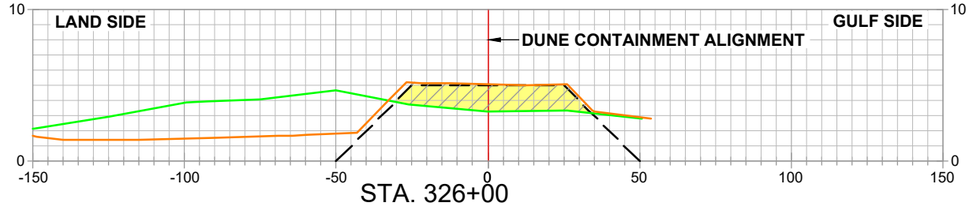
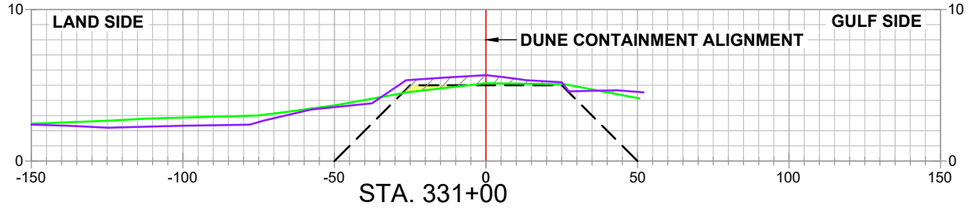
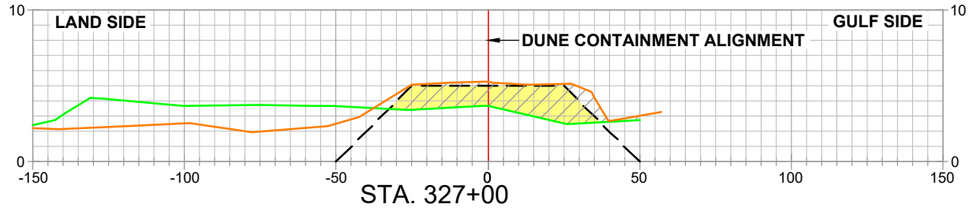


STA. 326+00



STA. 331+00



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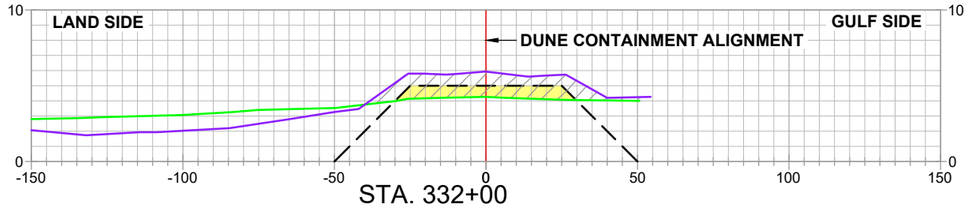

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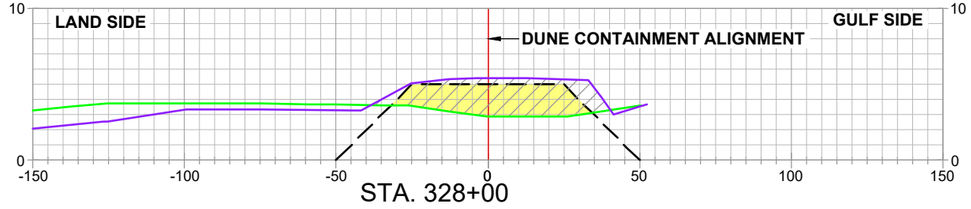
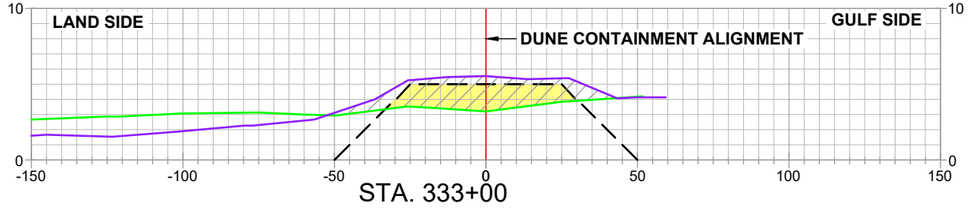


STA. 328+00



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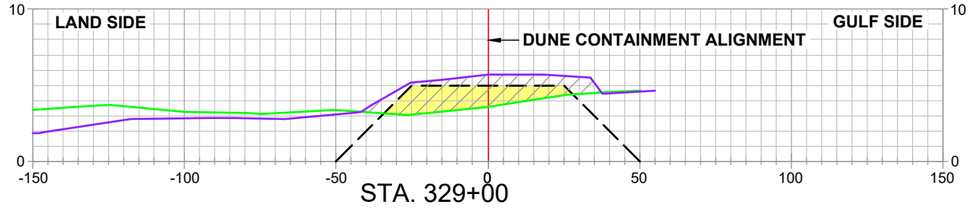
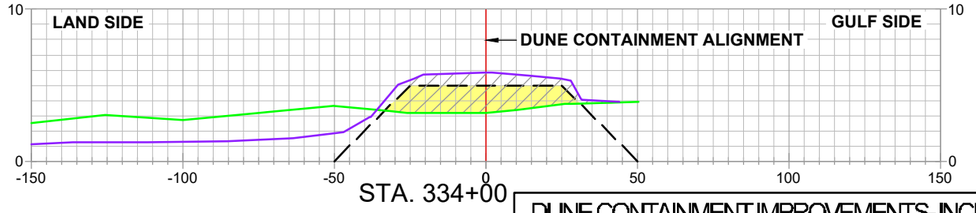


STA. 329+00



STA. 334+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

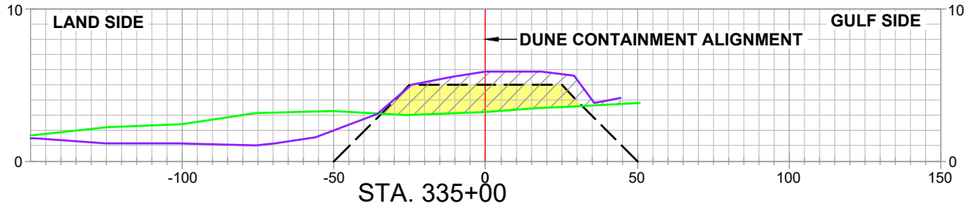
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

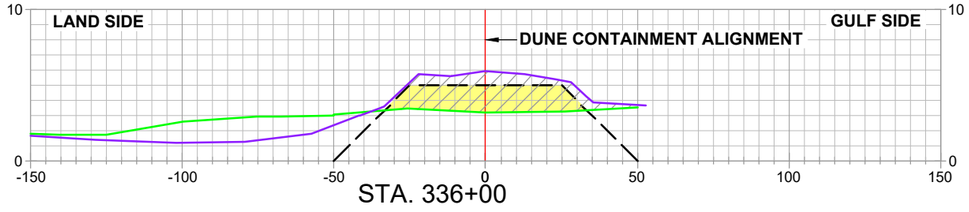
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 6 OF 18



STA. 335+00



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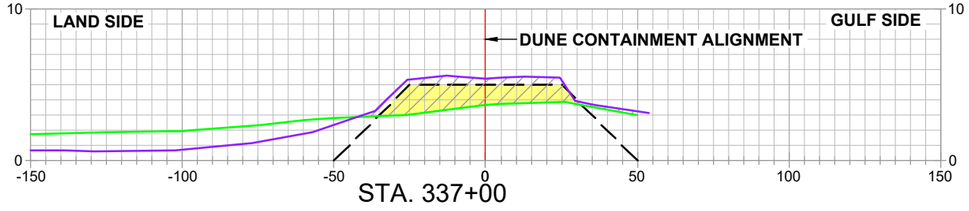
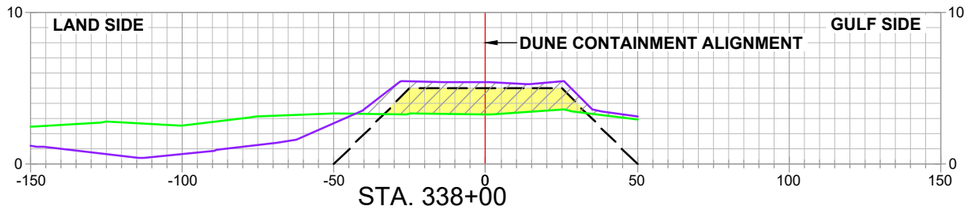
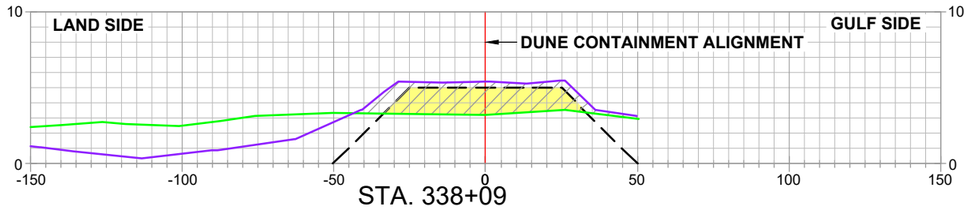


STA. 337+00



STA. 338+00



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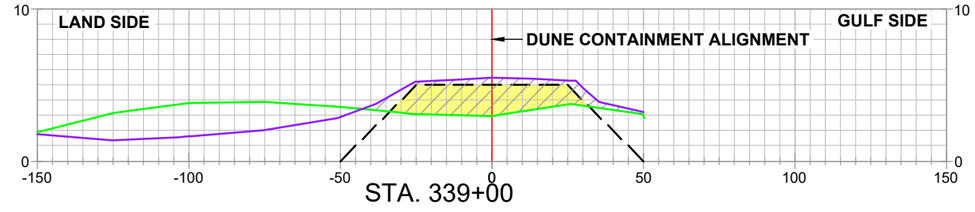

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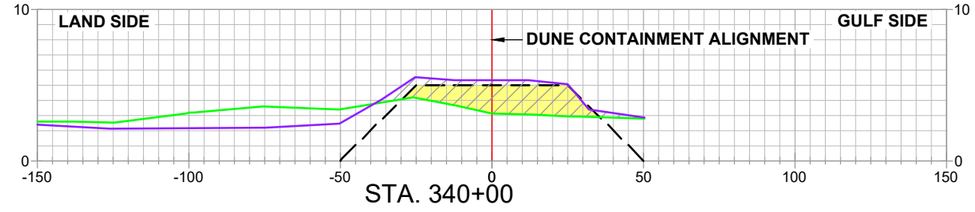

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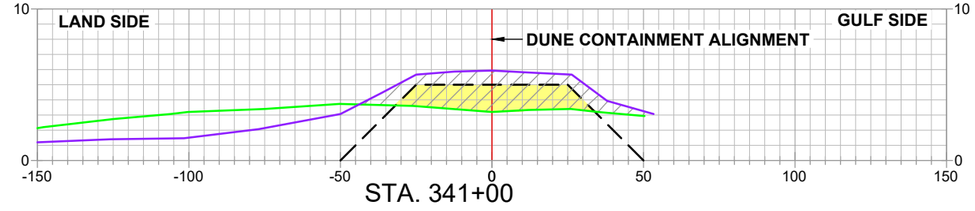

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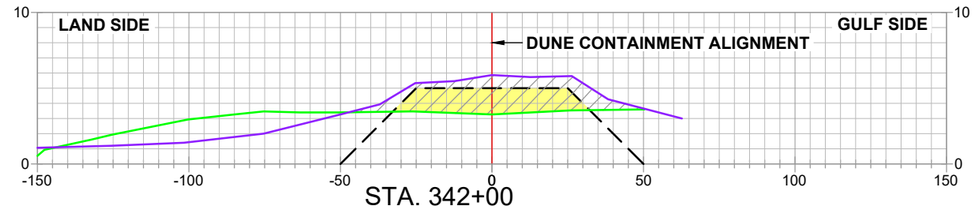
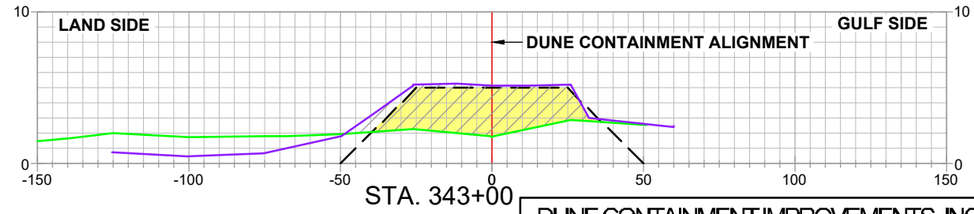


STA. 342+00



STA. 343+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

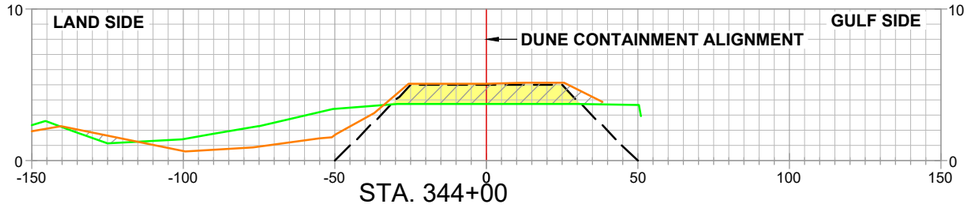
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

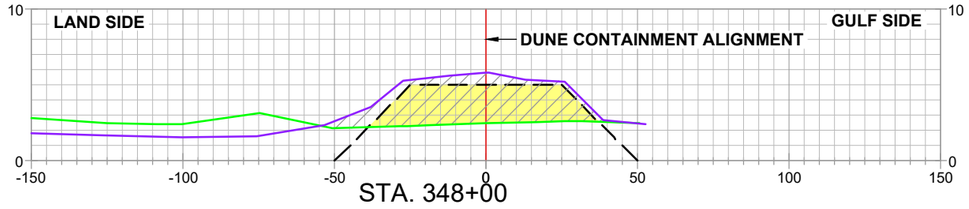
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

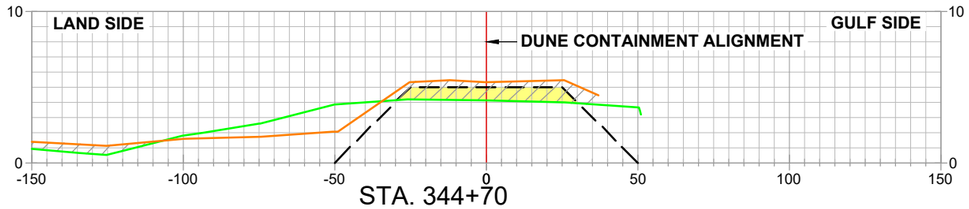
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 7 OF 18



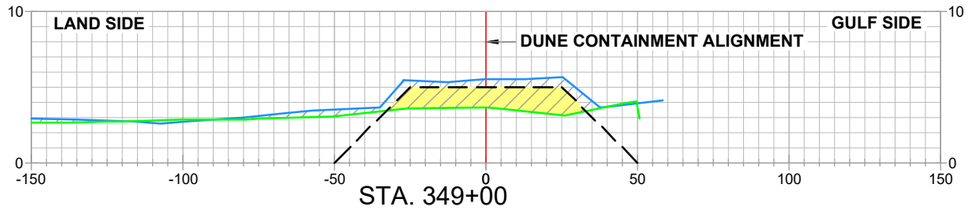
STA. 344+00



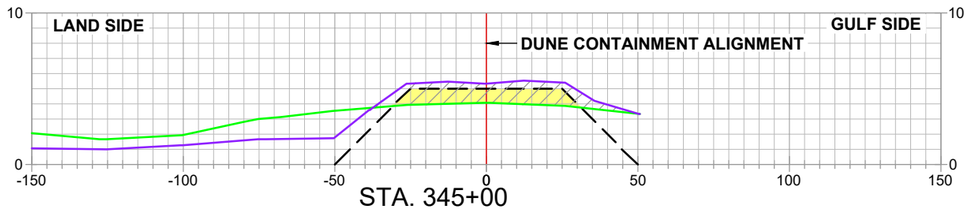
STA. 348+00



STA. 344+70



STA. 349+00



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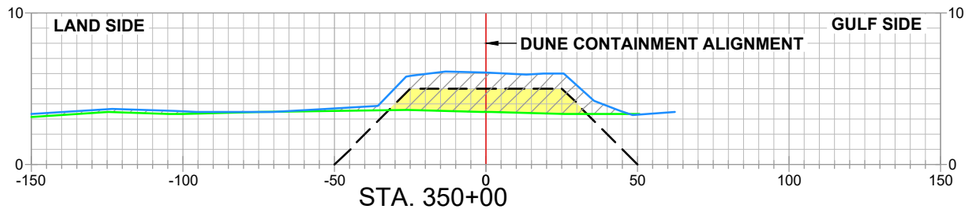

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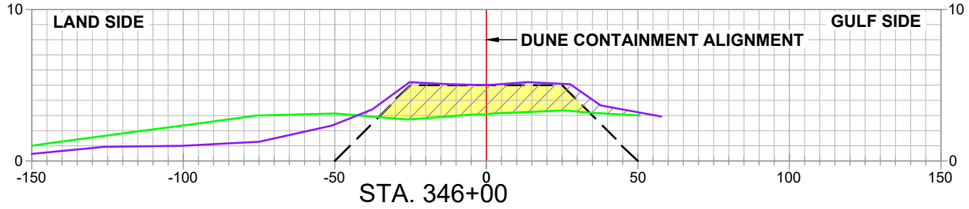

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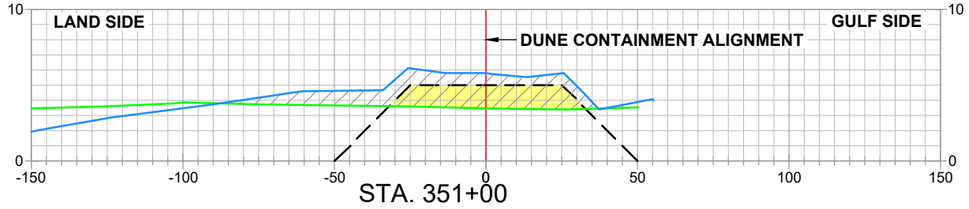

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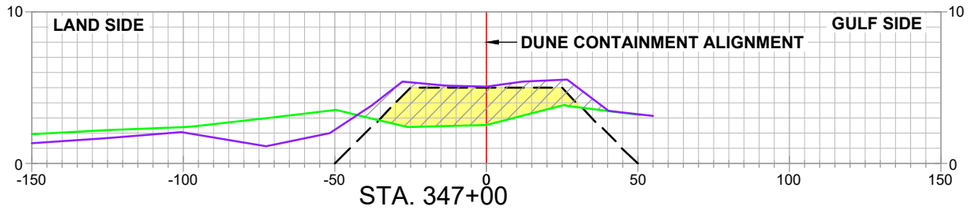

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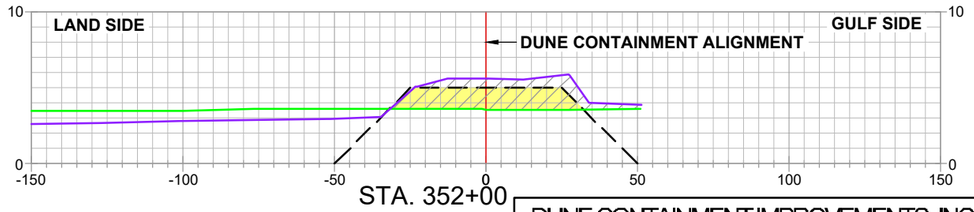

STA. 352+00

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
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TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
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3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'
VERTICAL SCALE
10' 0' 5' 10'

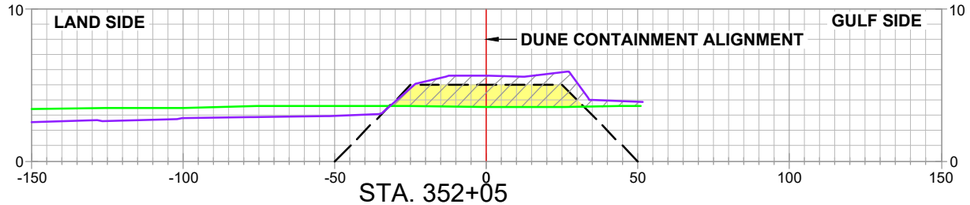
HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

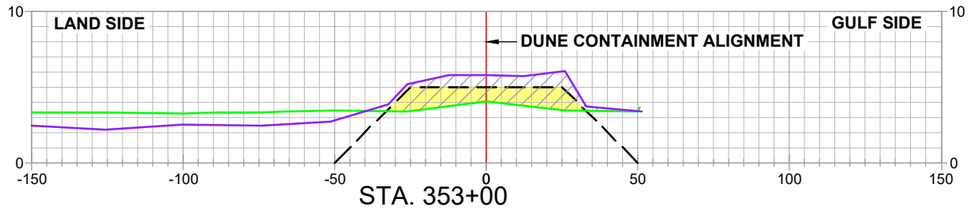
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

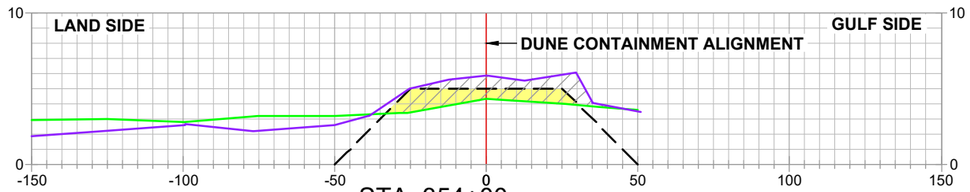
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 8 OF 18



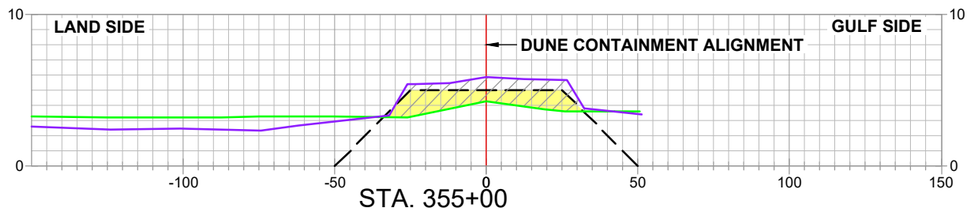
STA. 352+05



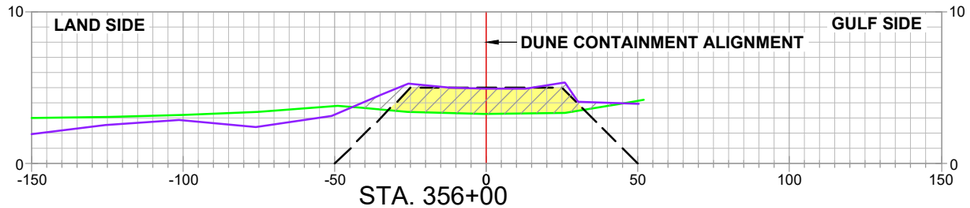
STA. 353+00



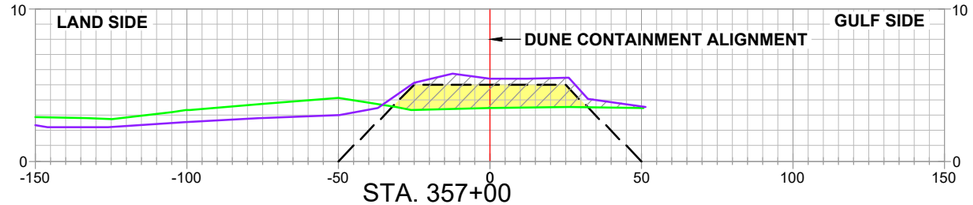
STA. 354+00



STA. 355+00



STA. 356+00



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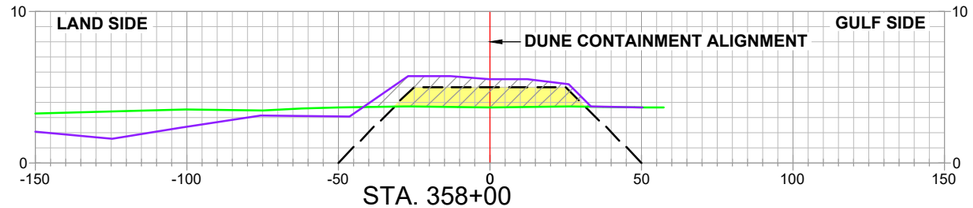
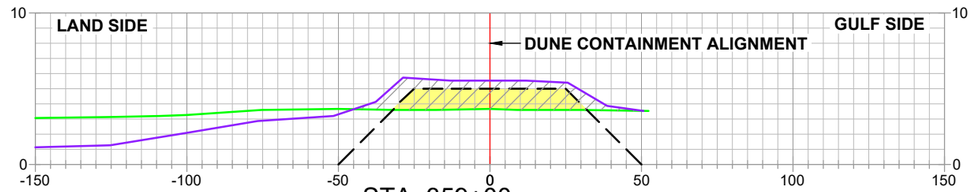
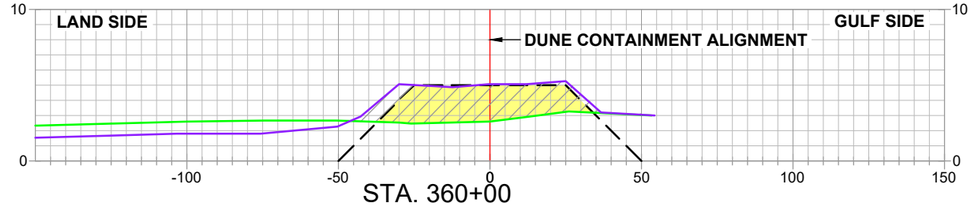


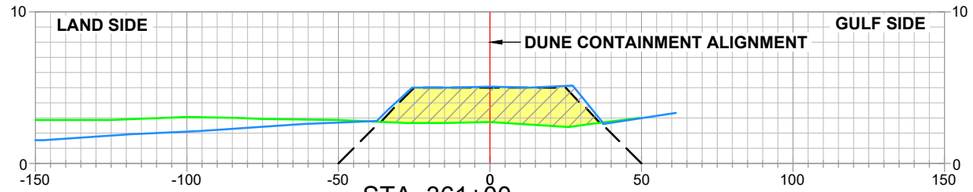
STA. 358+00



STA. 359+00



STA. 360+00



STA. 361+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

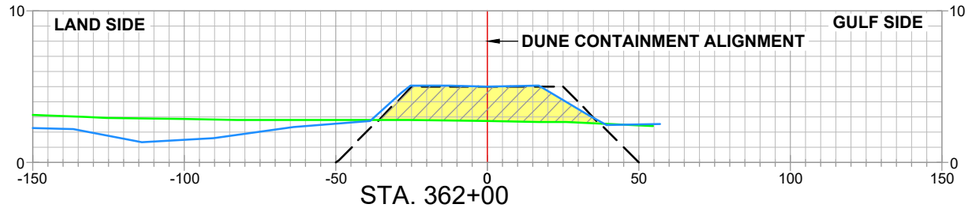
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

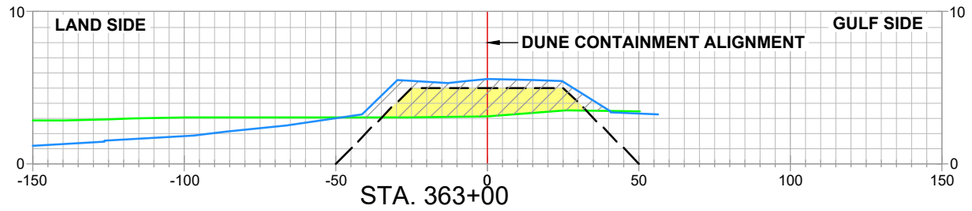
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

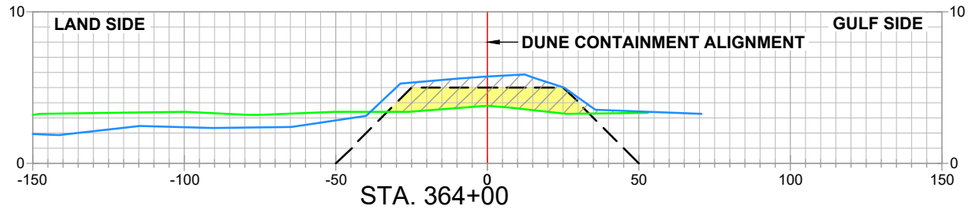
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 9 OF 18



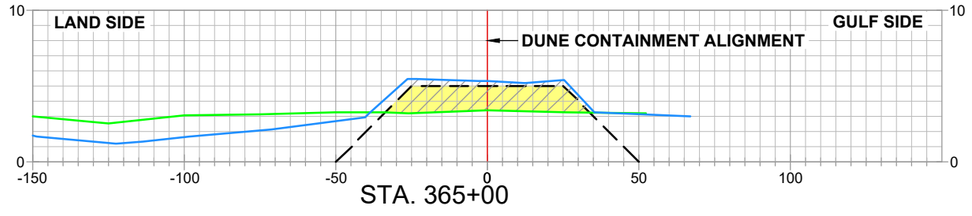
STA. 362+00



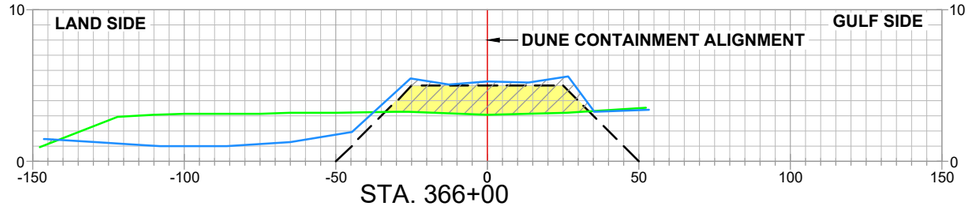
STA. 363+00



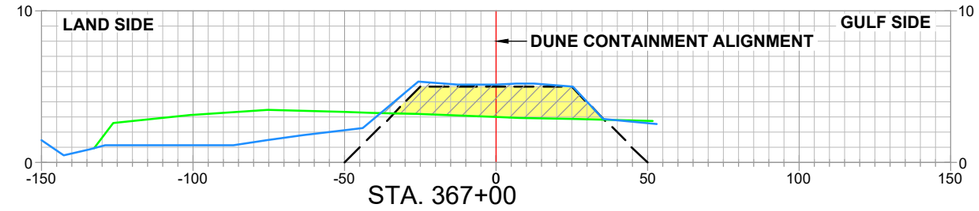
STA. 364+00



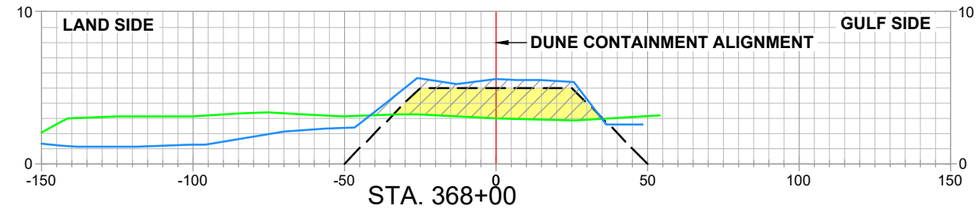
STA. 365+00



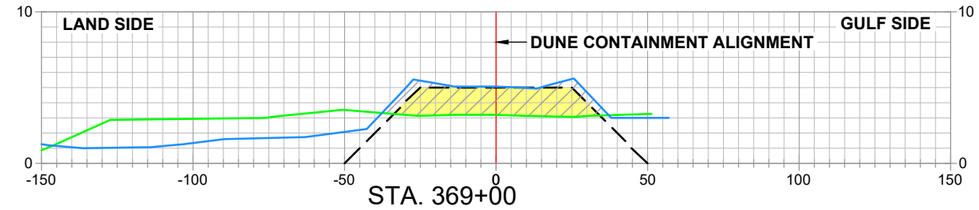
STA. 366+00



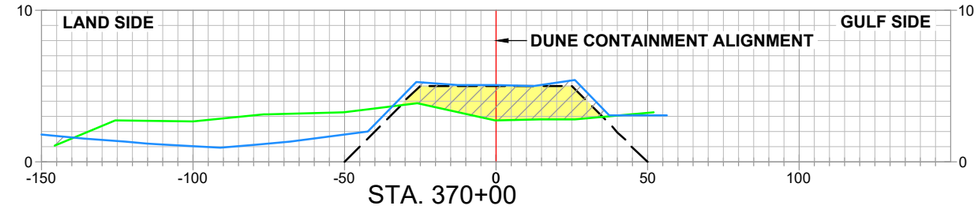
STA. 367+00



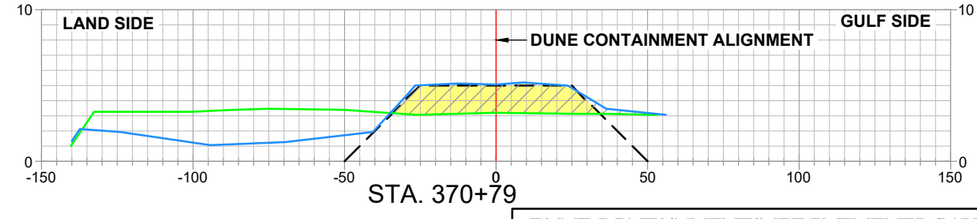
STA. 368+00



STA. 369+00



STA. 370+00



STA. 370+79

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

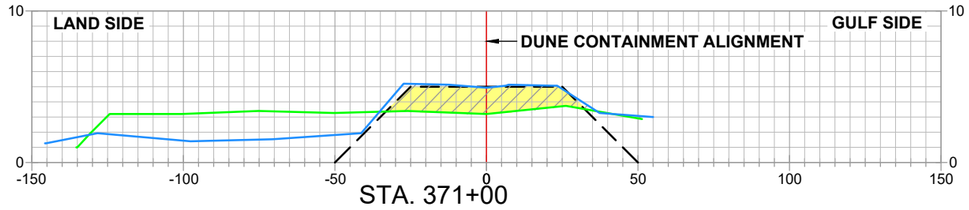
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

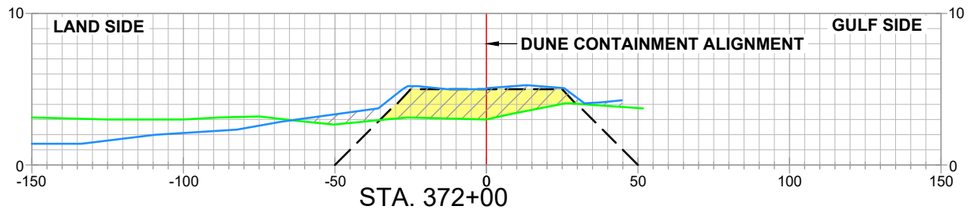
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

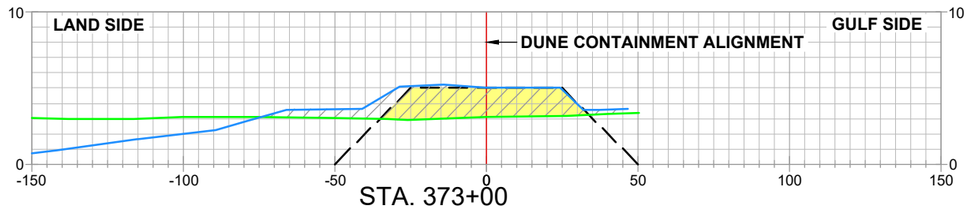
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 10 OF 18



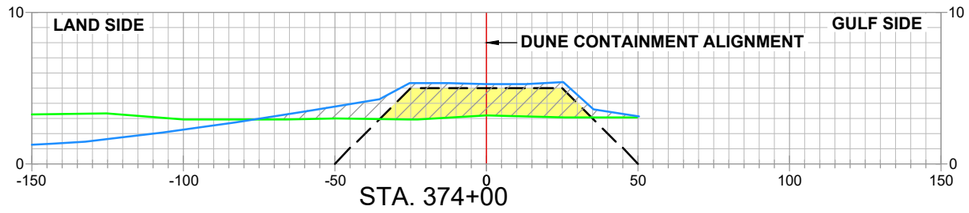
STA. 371+00



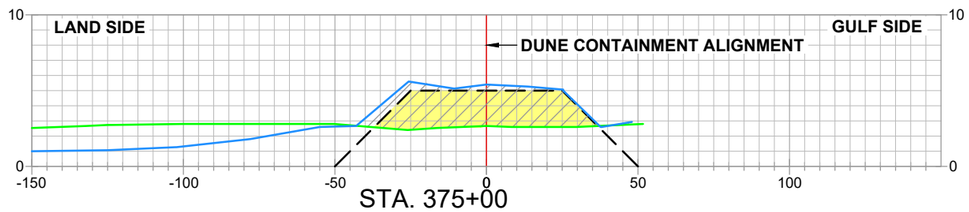
STA. 372+00



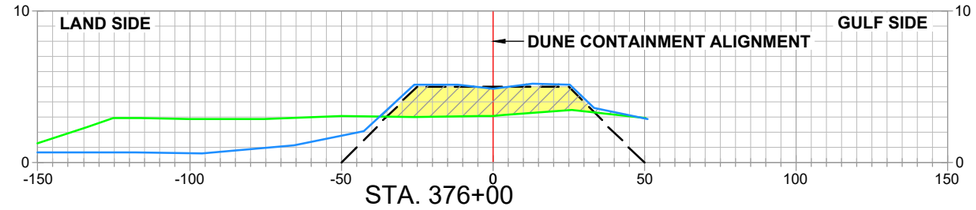
STA. 373+00



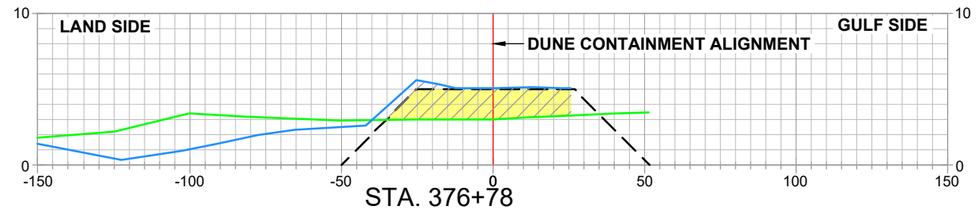
STA. 374+00



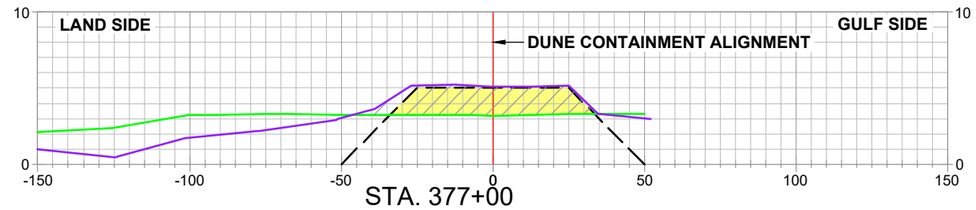
STA. 375+00



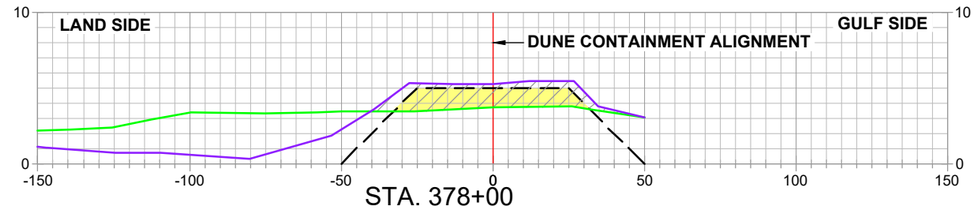
STA. 376+00



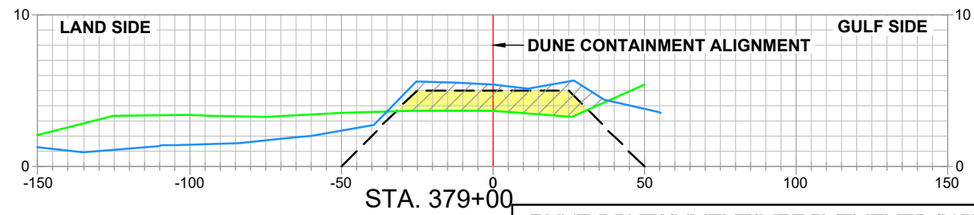
STA. 376+78



STA. 377+00



STA. 378+00



STA. 379+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

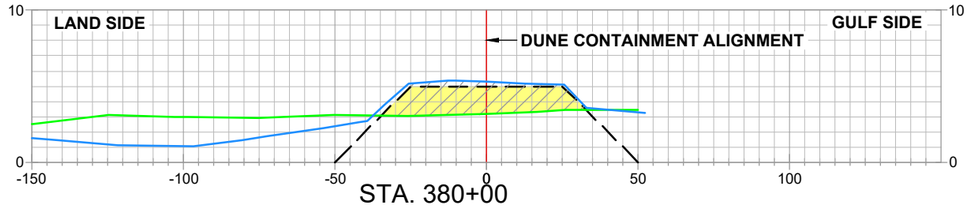
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

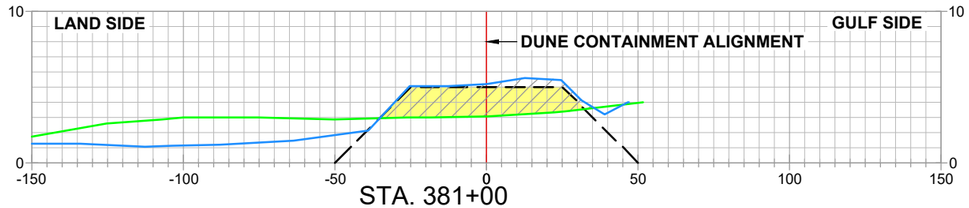
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

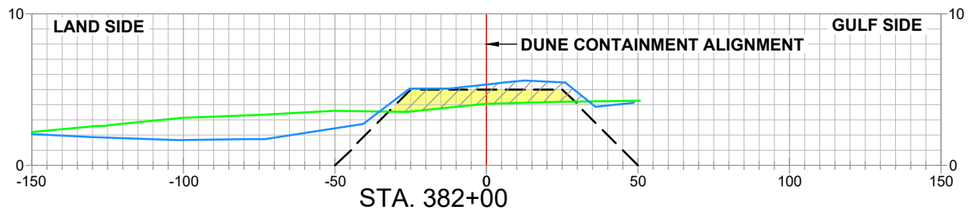
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 11 OF 18



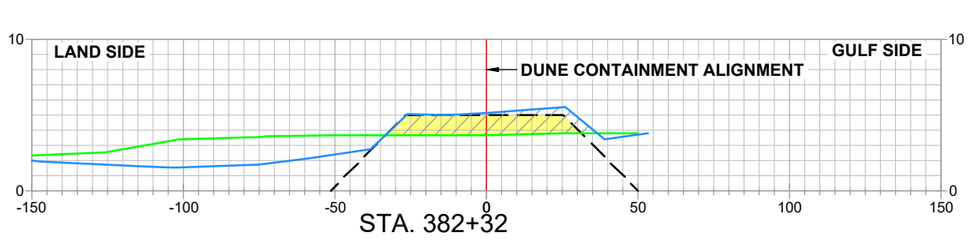
STA. 380+00



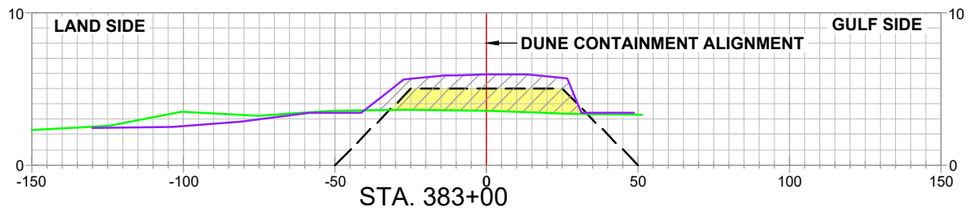
STA. 381+00



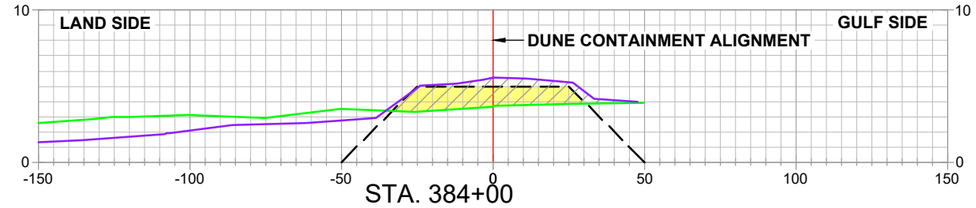
STA. 382+00



STA. 382+32



STA. 383+00



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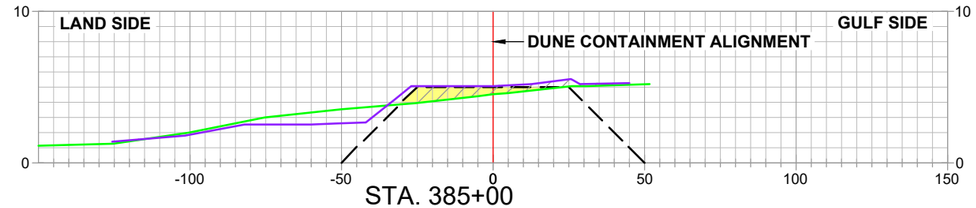
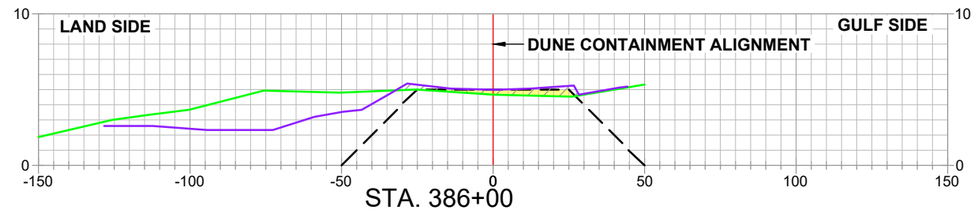
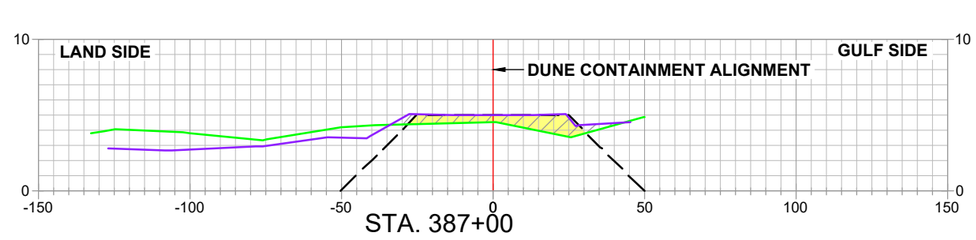


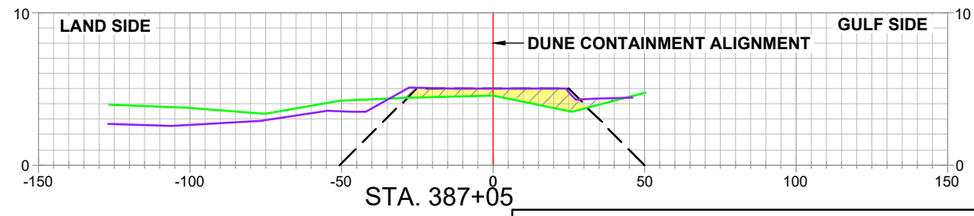
STA. 385+00



STA. 386+00



STA. 387+00



STA. 387+05

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/03/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

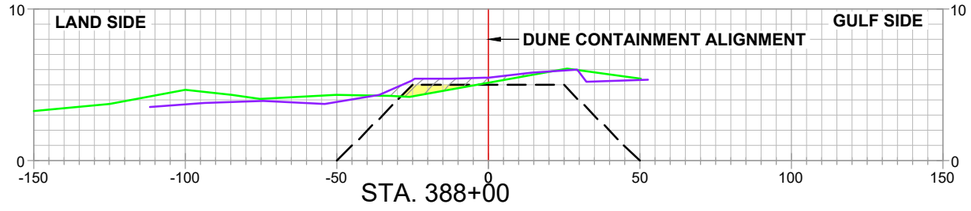
HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

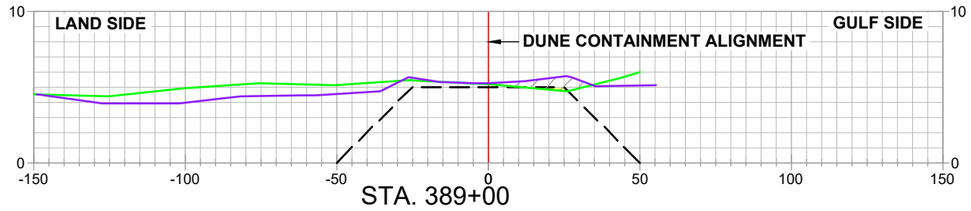
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg

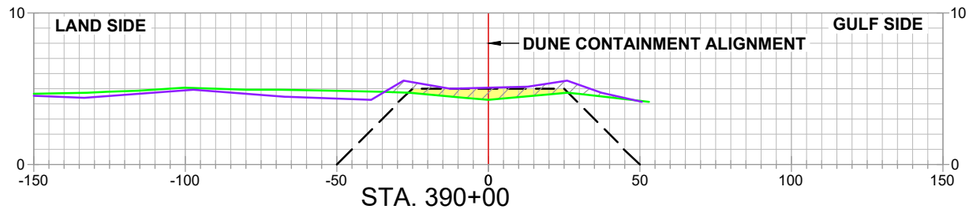
SHEET: 12 OF 18



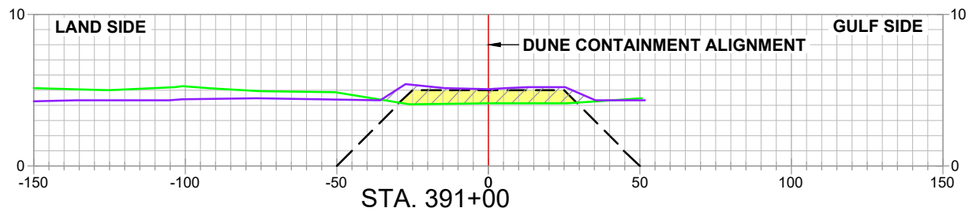
STA. 388+00



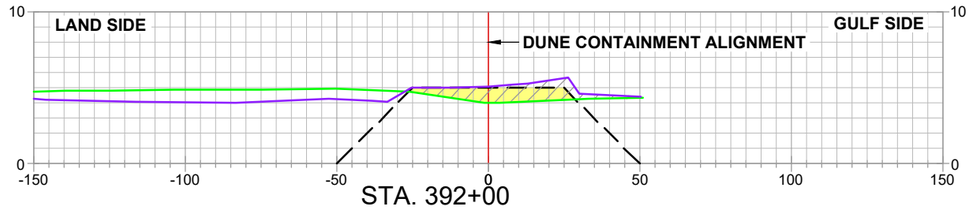
STA. 389+00



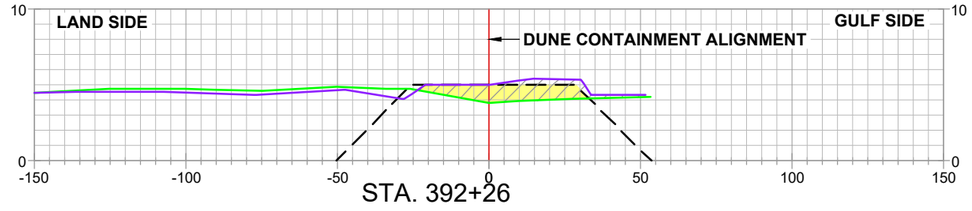
STA. 390+00



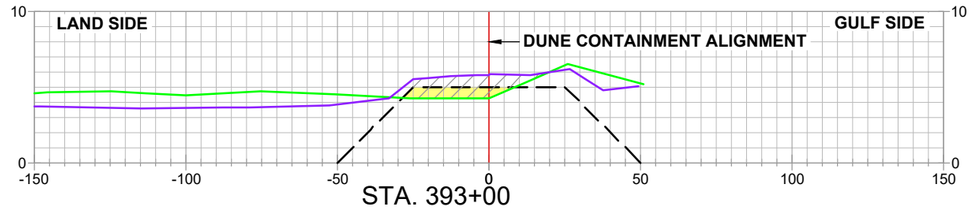
STA. 391+00



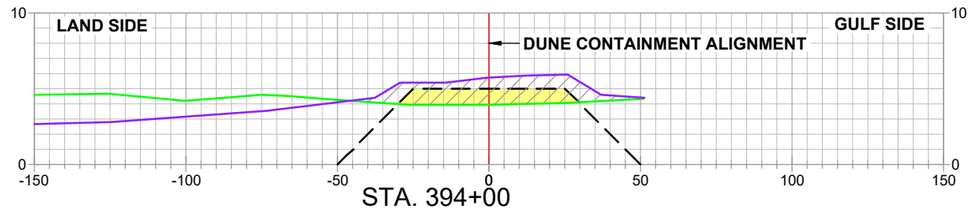
STA. 392+00



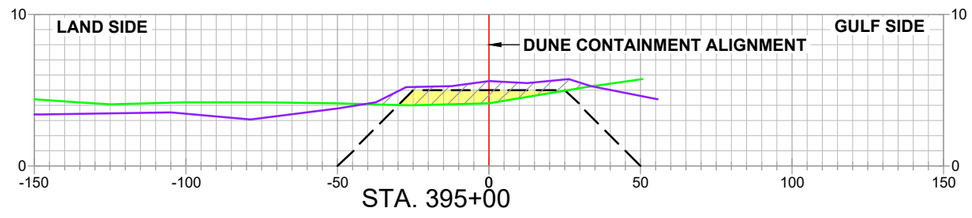
STA. 392+26



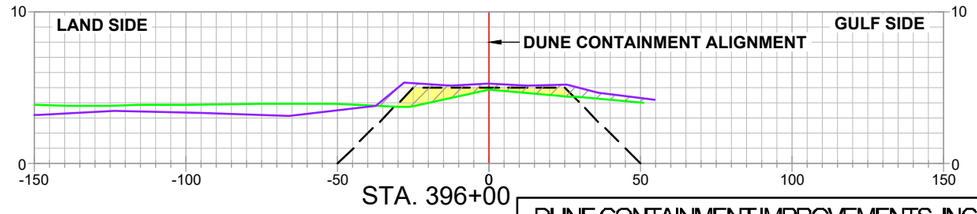
STA. 393+00



STA. 394+00



STA. 395+00



STA. 396+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

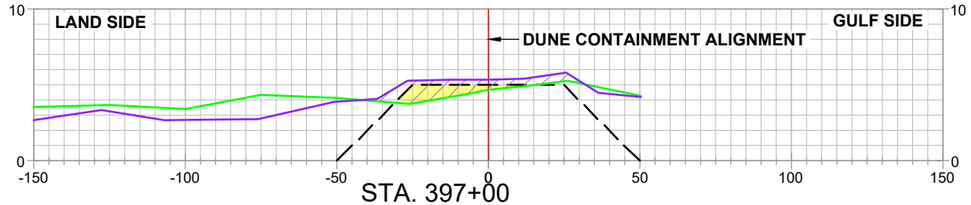
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

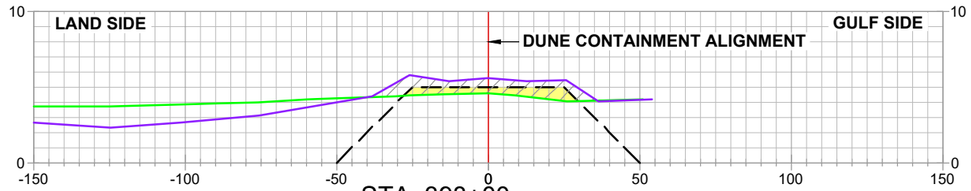
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

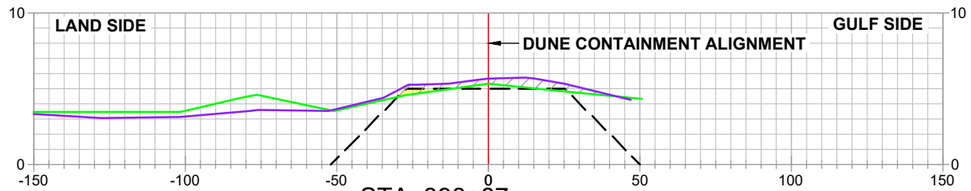
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 13 OF 18



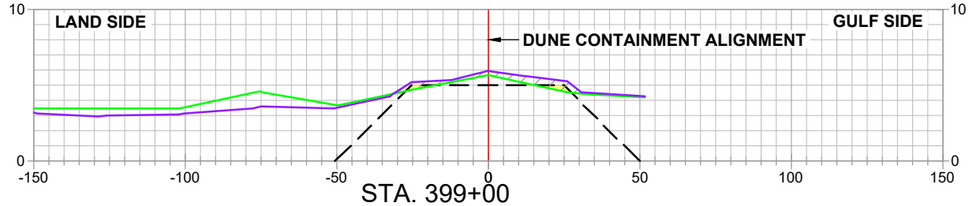
STA. 397+00



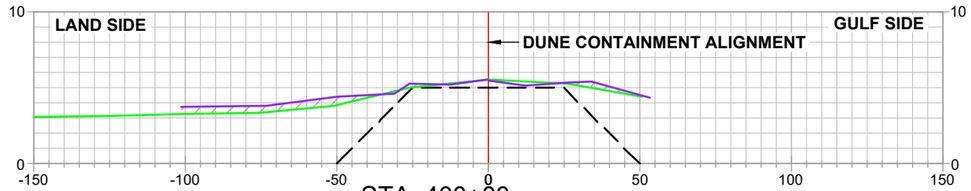
STA. 398+00



STA. 398+87



STA. 399+00



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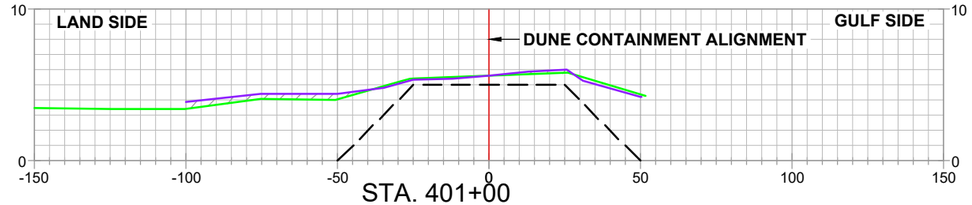

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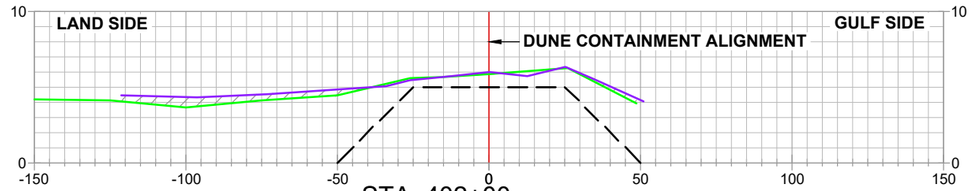

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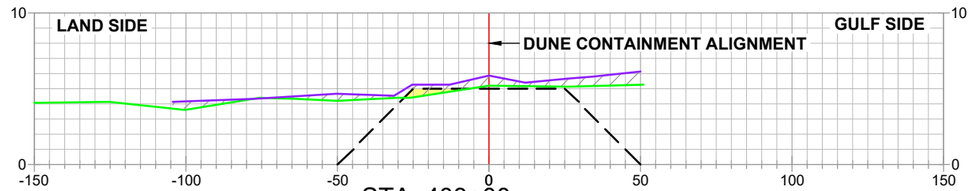
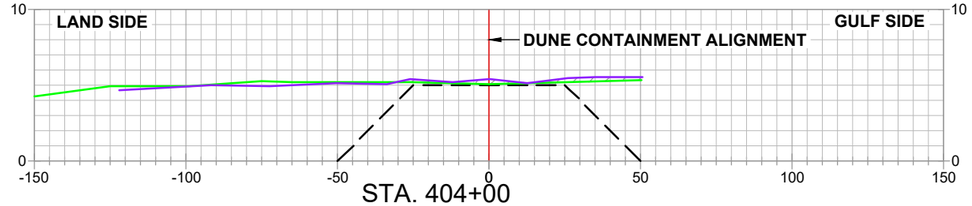
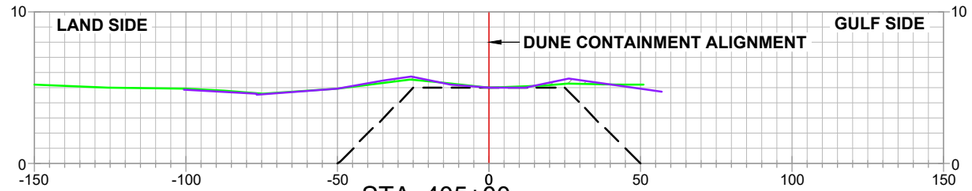


STA. 403+00



STA. 404+00



STA. 405+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

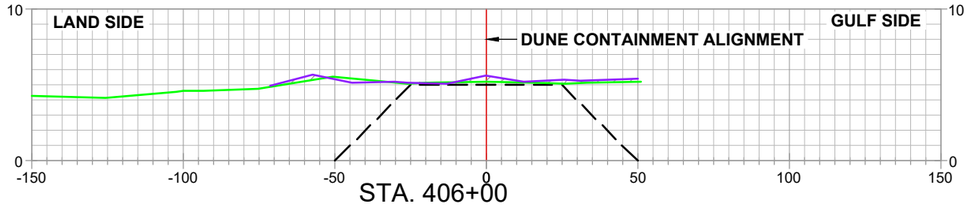
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

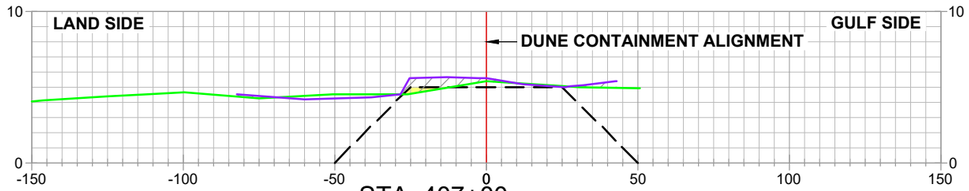
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

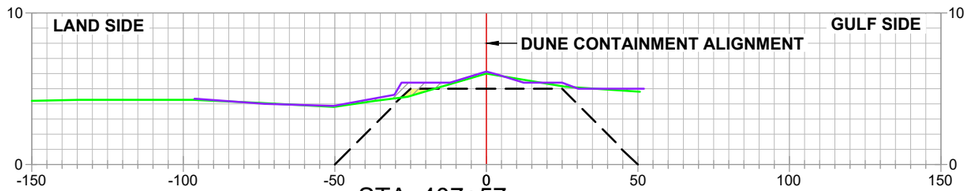
DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 14 OF 18



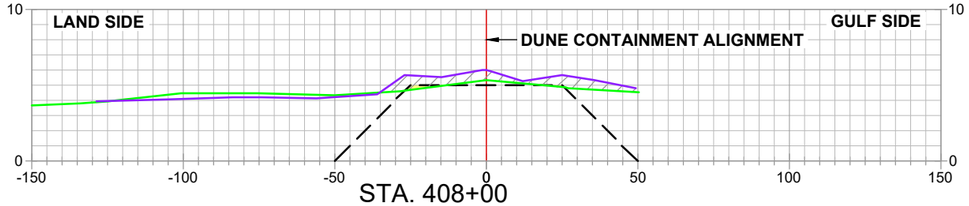
STA. 406+00



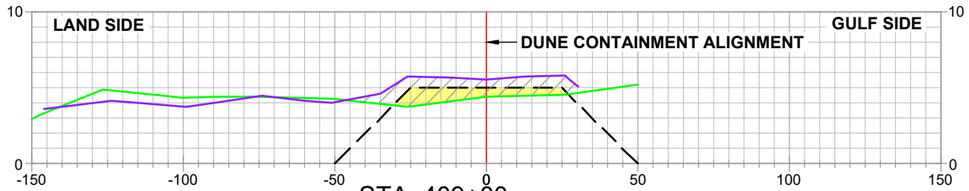
STA. 407+00



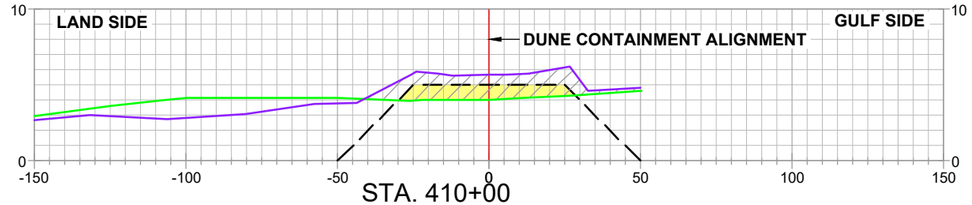
STA. 407+57



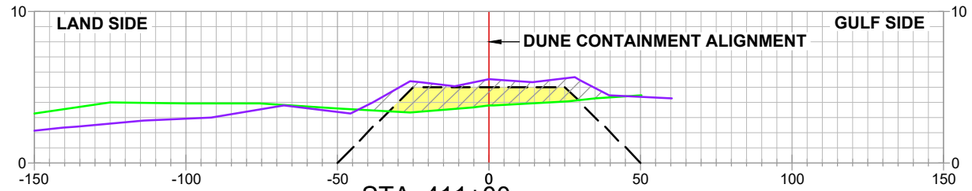
STA. 408+00



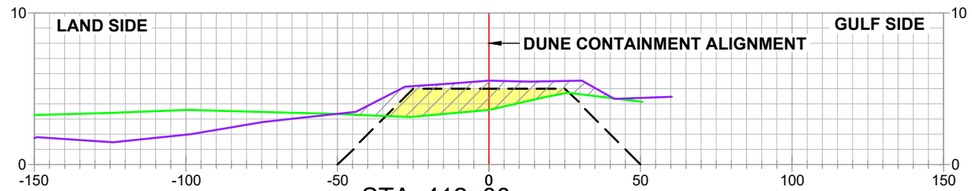
STA. 409+00



STA. 410+00



STA. 411+00



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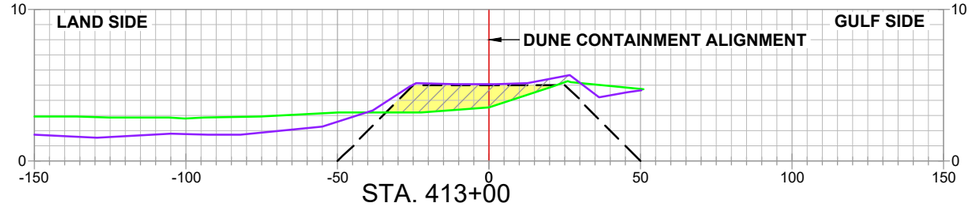
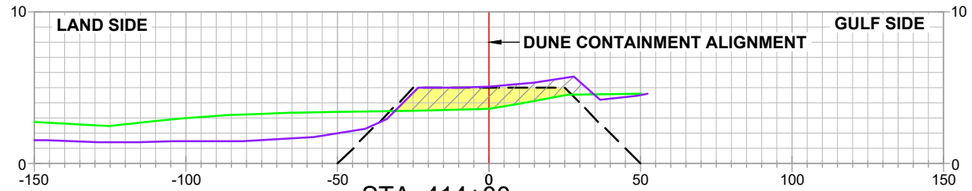


STA. 413+00



STA. 414+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

- PRE-CONSTRUCTION SURVEY
- SUB 01_PROGRESS SURVEY_(04-12-22)
- SUB 02_PROGRESS SURVEY_(05-10-22)
- SUB 03_PROGRESS SURVEY_(06-15-22)
- SUB 04_PROGRESS SURVEY_(07-15-22)
- TEMPLATE
- MATERIAL PLACED WITHIN DUNE TEMPLATE
- GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
2.) TOP WIDTH OF PROPOSED DUNE TO BE 50 FT. WIDE. 25 FT. ON EACH SIDE OF ALIGNMENT.
3.) ALL SIDE SLOPES TO BE 1V:5H.

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

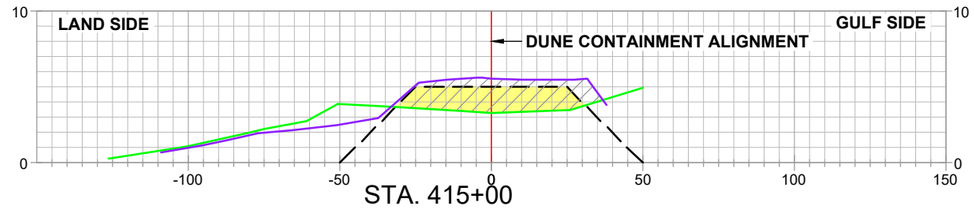
VERTICAL SCALE
10' 0' 5' 10'

HYDROTERRA

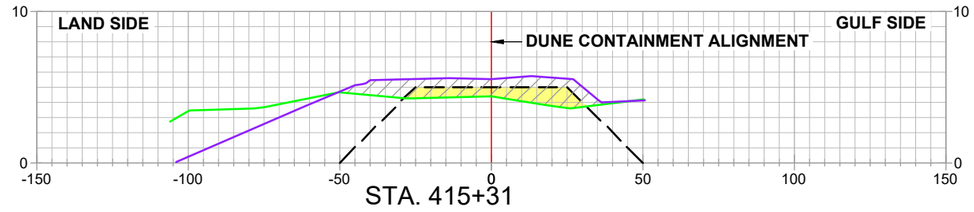
CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 15 OF 18



STA. 415+00



STA. 415+31

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

LEGEND

ALIGNMENT / BASELINE

PRE-CONSTRUCTION SURVEY
SUB 01_PROGRESS SURVEY_(04-12-22)
SUB 02_PROGRESS SURVEY_(05-10-22)
SUB 03_PROGRESS SURVEY_(06-15-22)
SUB 04_PROGRESS SURVEY_(07-15-22)
TEMPLATE
MATERIAL PLACED WITHIN DUNE TEMPLATE
GROSS MATERIAL PLACED

NOTES

1.) PROPOSED DUNE TOP ELEVATION TO BE AT 5.0 FT. NAVD88
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REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HORIZONTAL SCALE
50' 0' 25' 50'

VERTICAL SCALE
10' 0' 5' 10'

DATE: 07/22/2022 | JOB# 2221011

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
CROSS–SECTION VIEWS
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 16 OF 18

MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22				MATERIAL PLACED WITHIN DUNE TEMPLATE AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
316+61.77	125.64	0.00	0.00	338+00.00	95.26	335.33	8093.36	358+00.00	74.70	298.09	15094.66	379+00.00	81.70	295.01	23564.60	398+87.36	4.88	58.50	26908.49
317+00.00	123.44	176.36	176.36	338+08.71	97.31	31.05	8124.41	359+00.00	78.80	284.27	15378.92	380+00.00	106.19	347.94	23912.54	399+00.00	4.37	2.17	26910.66
318+00.00	159.32	523.64	700.00	339+00.00	102.68	338.11	8462.52	360+00.00	134.62	395.22	15774.14	381+00.00	111.77	403.62	24316.16	400+00.00	0.00	8.09	26918.75
319+00.00	146.64	566.59	1266.58	340+00.00	95.98	367.89	8830.41	361+00.00	144.33	516.57	16290.71	382+00.00	57.95	314.29	24630.45	401+00.00	0.00	0.00	26918.75
320+00.00	135.44	522.35	1788.94	341+00.00	93.83	351.50	9181.91	362+00.00	129.03	506.22	16796.93	382+31.53	73.68	76.85	24707.30	402+00.00	0.00	0.00	26918.75
321+00.00	147.81	524.54	2313.47	342+00.00	92.07	344.26	9526.16	363+00.00	105.72	434.72	17231.66	383+00.00	85.18	201.44	24908.74	403+00.00	5.76	10.67	26929.43
322+00.00	239.23	716.74	3030.22	343+00.00	171.30	487.71	10013.88	364+00.00	85.88	354.81	17586.47	384+00.00	79.98	305.85	25214.60	404+00.00	0.00	10.67	26940.10
323+00.00	109.27	645.36	3675.58	344+00.00	69.95	446.74	10460.62	365+00.00	98.48	341.41	17927.88	385+00.00	28.20	200.33	25414.93	405+00.00	0.00	0.00	26940.10
323+39.83	90.21	147.11	3822.69	344+70.25	48.99	154.73	10615.35	366+00.00	105.36	377.50	18305.38	386+00.00	15.01	80.02	25494.95	406+00.00	0.00	0.00	26940.10
324+00.00	74.11	183.11	4005.80	345+00.00	58.13	59.01	10674.36	367+00.00	117.79	413.24	18718.62	387+00.00	39.04	100.10	25595.05	407+00.00	3.71	6.87	26946.97
325+00.00	59.87	248.11	4253.91	346+00.00	115.85	322.20	10996.56	368+00.00	118.92	438.35	19156.97	387+05.17	41.18	7.68	25602.73	407+57.27	2.52	6.61	26953.58
326+00.00	91.40	280.14	4534.04	347+00.00	125.87	447.64	11444.20	369+00.00	110.28	424.44	19581.41	388+00.00	8.68	87.55	25690.28	408+00.00	2.39	3.89	26957.47
327+00.00	104.00	361.83	4895.87	348+00.00	158.37	526.38	11970.58	370+00.00	113.06	413.58	19994.99	389+00.00	2.64	20.96	25711.24	409+00.00	38.12	75.01	27032.48
328+00.00	111.76	399.57	5295.44	349+00.00	87.74	455.75	12426.33	370+79.20	107.90	324.07	20319.06	390+00.00	25.77	52.61	25763.85	410+00.00	48.87	161.09	27193.57
329+00.00	79.52	354.22	5649.66	350+00.00	89.09	327.48	12753.80	371+00.29	93.26	78.55	20397.61	391+00.00	47.67	135.99	25899.84	411+00.00	71.83	223.52	27417.09
330+00.00	53.84	246.95	5896.61	351+00.00	86.42	325.03	13078.83	372+00.00	95.09	347.82	20745.43	392+00.00	39.47	161.37	26061.21	412+00.00	71.81	266.00	27683.09
331+00.00	5.23	109.38	6005.99	352+00.00	79.78	307.78	13386.60	373+00.00	114.60	388.33	21133.75	392+25.71	48.32	41.80	26103.01	413+00.00	65.07	253.48	27936.57
332+00.00	44.78	92.61	6098.59	352+05.23	79.71	15.44	13402.04	374+00.00	116.36	427.71	21561.46	393+00.00	23.64	99.00	26202.01	414+00.00	62.79	236.78	28173.36
333+00.00	85.84	241.89	6340.49	353+00.00	75.84	272.99	13675.03	375+00.00	150.72	494.59	22056.05	394+00.00	57.38	150.03	26352.05	415+00.00	87.37	278.08	28451.43
334+00.00	96.17	337.06	6677.55	354+00.00	59.04	249.76	13924.79	376+00.00	108.49	480.01	22536.06	395+00.00	36.44	173.75	26525.80	415+31.34	48.45	78.80	28530.24
335+00.00	99.54	362.42	7039.97	355+00.00	69.19	237.45	14162.24	376+78.20	107.96	313.43	22849.50	396+00.00	29.16	121.49	26647.28				
336+00.00	101.20	371.74	7411.71	356+00.00	93.54	301.35	14463.58	377+00.00	103.20	85.26	22934.76	397+00.00	24.51	99.39	26746.68				
337+00.00	85.82	346.33	7758.03	357+00.00	86.27	332.98	14796.56	378+00.00	77.61	334.84	23269.59	398+00.00	31.28	103.32	26850.00				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

HYDROTERRA

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 17 OF 18

GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22				GROSS VOLUME PLACED AS OF 07-15-22			
Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)	Station	Area (Sq. Ft.)	Volume (Cu. Yds.)	Cum. Vol. (Cu. Yds.)
316+61.77	172.20	0.00	0.00	338+00.00	139.37	482.02	11089.53	358+00.00	120.03	453.20	21689.48	379+00.00	119.11	429.66	32503.35	398+87.36	34.86	171.94	37749.47
317+00.00	140.90	221.68	221.68	338+08.71	142.52	45.45	11134.99	359+00.00	132.92	468.42	22157.91	380+00.00	125.26	452.54	32955.89	399+00.00	24.83	13.98	37763.45
318+00.00	230.62	688.01	909.70	339+00.00	142.85	482.46	11617.45	360+00.00	159.29	541.13	22699.03	381+00.00	129.91	472.54	33428.43	400+00.00	35.77	112.21	37875.66
319+00.00	173.31	748.02	1657.72	340+00.00	122.14	490.72	12108.17	361+00.00	154.48	581.06	23280.09	382+00.00	81.97	392.37	33820.80	401+00.00	24.03	110.73	37986.39
320+00.00	145.07	589.59	2247.31	341+00.00	168.61	538.43	12646.60	362+00.00	136.63	539.10	23819.19	382+31.53	90.55	100.71	33921.51	402+00.00	41.39	121.14	38107.53
321+00.00	181.36	604.50	2851.80	342+00.00	158.44	605.64	13252.24	363+00.00	154.66	539.42	24358.61	383+00.00	147.89	302.36	34223.87	403+00.00	64.08	195.32	38302.84
322+00.00	257.44	812.60	3664.40	343+00.00	200.48	664.66	13916.90	364+00.00	130.93	528.86	24887.47	384+00.00	105.13	468.56	34692.43	404+00.00	16.02	148.35	38451.19
323+00.00	127.60	713.04	4377.44	344+00.00	92.30	542.19	14459.09	365+00.00	128.19	479.86	25367.33	385+00.00	42.58	273.53	34965.96	405+00.00	7.60	43.74	38494.93
323+39.83	101.14	168.70	4546.13	344+70.25	101.11	251.61	14710.70	366+00.00	133.47	484.56	25851.89	386+00.00	24.77	124.72	35090.68	406+00.00	15.35	42.49	38537.42
324+00.00	115.86	241.82	4787.96	345+00.00	98.48	109.95	14820.65	367+00.00	133.44	494.27	26346.16	387+00.00	47.44	133.72	35224.39	407+00.00	24.04	72.93	38610.35
325+00.00	84.87	371.74	5159.69	346+00.00	141.02	443.54	15264.18	368+00.00	157.15	538.13	26884.29	387+05.17	49.64	9.29	35233.68	407+57.27	18.32	44.91	38655.27
326+00.00	102.19	346.42	5506.11	347+00.00	165.52	567.67	15831.85	369+00.00	133.24	537.77	27422.06	388+00.00	28.07	136.48	35370.16	408+00.00	46.48	51.28	38706.55
327+00.00	130.23	430.39	5936.50	348+00.00	214.74	704.18	16536.03	370+00.00	130.90	489.14	27911.20	389+00.00	18.63	86.48	35456.64	409+00.00	92.71	257.76	38964.30
328+00.00	151.35	521.45	6457.95	349+00.00	147.75	671.26	17207.29	370+79.20	122.41	371.51	28282.71	390+00.00	45.67	119.07	35575.72	410+00.00	111.63	378.40	39342.71
329+00.00	128.07	517.43	6975.38	350+00.00	183.57	613.59	17820.89	371+00.29	106.39	89.34	28372.06	391+00.00	66.69	208.07	35783.79	411+00.00	112.95	415.89	39758.59
330+00.00	140.18	496.75	7472.13	351+00.00	185.86	684.15	18505.03	372+00.00	128.88	434.44	28806.50	392+00.00	57.13	229.30	36013.09	412+00.00	118.05	427.77	40186.37
331+00.00	29.66	314.52	7786.65	352+00.00	123.14	572.23	19077.26	373+00.00	156.06	527.66	29334.16	392+25.71	63.47	57.42	36070.50	413+00.00	79.54	365.90	40552.27
332+00.00	109.39	257.51	8044.16	352+05.23	123.06	23.83	19101.09	374+00.00	175.61	614.21	29948.37	393+00.00	54.74	162.62	36233.12	414+00.00	79.40	294.34	40846.61
333+00.00	136.09	454.59	8498.76	353+00.00	125.11	435.56	19536.65	375+00.00	181.91	662.07	30610.44	394+00.00	116.79	317.64	36550.76	415+00.00	126.27	380.87	41227.48
334+00.00	143.20	517.20	9015.95	354+00.00	109.24	433.99	19970.64	376+00.00	122.21	563.18	31173.62	395+00.00	70.44	346.71	36897.48	415+31.34	107.75	135.78	41363.27
335+00.00	147.95	539.16	9555.12	355+00.00	109.75	405.53	20376.16	376+78.20	126.15	359.65	31533.27	396+00.00	59.23	240.13	37137.61				
336+00.00	149.71	551.23	10106.35	356+00.00	115.01	416.21	20792.37	377+00.00	124.31	101.13	31634.40	397+00.00	53.45	208.66	37346.27				
337+00.00	120.92	501.17	10607.52	357+00.00	124.70	443.91	21236.28	378+00.00	112.91	439.29	32073.69	398+00.00	71.43	231.26	37577.53				

STATE OF LOUISIANA
KEITH J. ROBERTS
REGISTERED PROFESSIONAL LAND SURVEYOR
08/02/22

REVISED BY:	DATE:
KJR–MLL	08–02–22 SHOW SECTION VIEW DATA FOR STATION 349+00

DUNE CONTAINMENT IMPROVEMENTS- INCREMENT 4

HYDROTERRA

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT (BA-0171)
RESUME WORK
PROGRESS SURVEY (07-15-22)
DUNE CONTAINMENT IMPROVEMENTS
INCREMENT 4
VOLUME REPORT
LAFOURCHE & JEFFERSON PARISHES, LA.

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

DATE: 07/22/2022 | JOB# 2221011 | FILE: Caminada_RESUME WORK_INC 4_DUNE PROGRESS_071522_REV 01.dwg | SHEET: 18 OF 18