

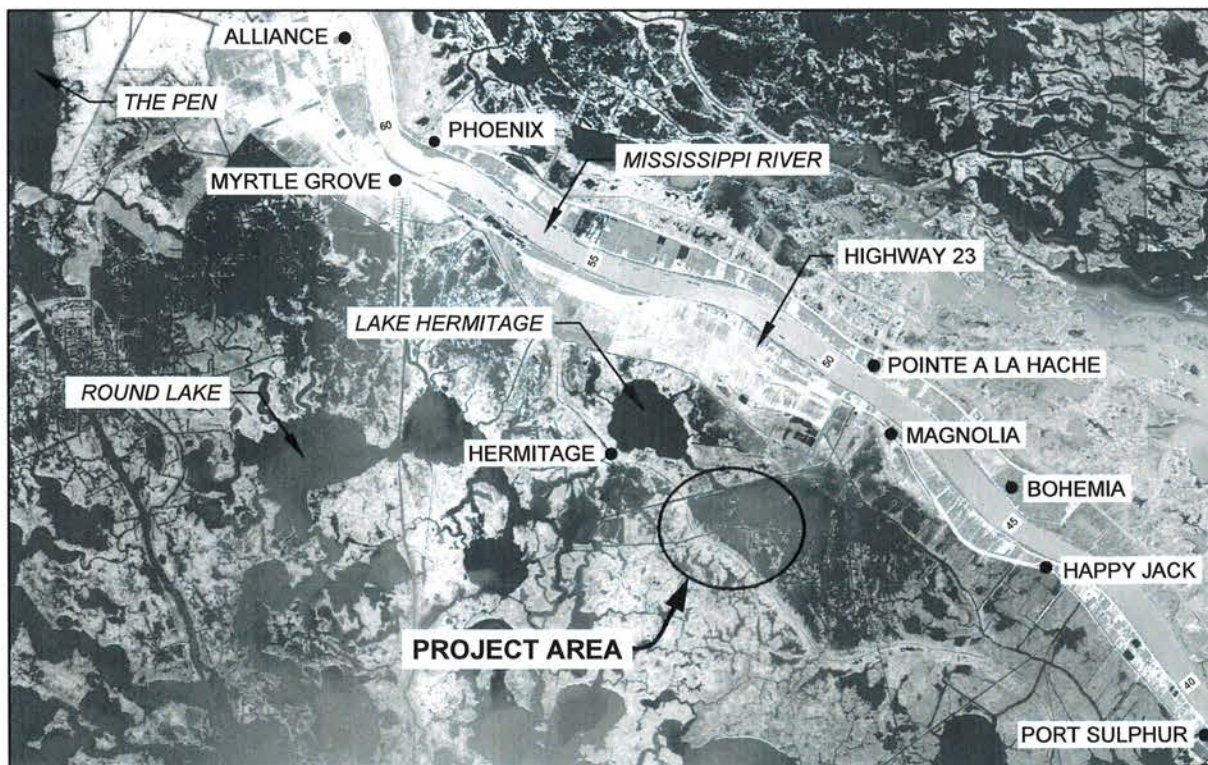
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STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT
PROJECT NO. BA-0240
PLAQUEMINES PARISH, LOUISIANA



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TITLE SHEET	DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730
	APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU

LICENSURE CLASSIFICATION REQUIREMENTS
HEAVY CONSTRUCTION OR DREDGING

DATE: MAR 2022

SHEET 1 OF 73

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
3. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
4. ANY DAMAGE TO EXISTING U.S. COAST GUARD AIDS TO NAVIGATION OR PRIVATE AIDS TO NAVIGATION SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
5. THE MARSH CREATION AREAS, BORROW AREAS, EARTHEN CONTAINMENT DIKES, AND EARTHEN RIDGE MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREAS.
6. THE PIPELINE INFORMATION SHOWN ON THE PLANS IS A COMPILATION OF PRIOR MAGNETOMETER SURVEYS MEETING ASCE CI 38-02 QUALITY LEVEL B, TOP OF PIPE PROBINGS, AND GIS PIPELINE LOCATION RECORDS MEETING ASCE CI 38-02 QUALITY LEVEL D. THE PIPELINE LOCATIONS SHALL BE CONSIDERED APPROXIMATE AND CANNOT BE CONFIRMED FOR ACCURACY AND COMPLETENESS, THEREBY REQUIRING THE CONTRACTOR TO PROVIDE AN INDEPENDENT MAGNETOMETER SURVEY PRIOR TO CONSTRUCTION, WHICH CONFIRMS HORIZONTAL AND VERTICAL LOCATIONS OF VERIFIED AND/OR UNVERIFIED PIPELINES IN THE PROJECT WORK AREAS AS PER THE SPECIFICATIONS. A VERIFIED PIPELINE SHALL MEAN A PIPELINE WHOSE LOCATION IS DISCOVERED OR CONFIRMED VIA MAGNETOMETER SURVEYS. AN UNVERIFIED PIPELINE SHALL MEAN PIPELINES WHOSE LOCATIONS WERE NOT DISCOVERED/VERIFIED VIA MAGNETOMETER SURVEYS, BUT THERE IS EXISTING DOCUMENTATION FROM OIL/GAS DATABASES TO SUPPORT THE PRESENCE OF A POTENTIAL PIPELINE.
7. THE UTILITY INFORMATION SHOWN ON THE PLANS NEAR THE LA. HIGHWAY 23 DREDGE PIPELINE CORRIDOR CROSSING IS A COMPILATION OF PRIOR SURVEYS MEETING ASCE CI 38-02 QUALITY LEVEL C, AND GIS UTILITY LOCATION RECORDS MEETING ASCE CI 38-02 QUALITY LEVEL D. THE UTILITY LOCATIONS SHALL BE CONSIDERED APPROXIMATE AND CANNOT BE CONFIRMED FOR ACCURACY AND COMPLETENESS, THEREBY REQUIRING THE CONTRACTOR TO PROVIDE AN INDEPENDENT SURVEY PRIOR TO CONSTRUCTION, WHICH CONFIRMS LOCATIONS OF UTILITIES IN THIS WORK AREA AS PER THE SPECIFICATIONS.
8. THE OIL/GAS WELL INFORMATION SHOWN ON THE PLANS IS A COMPILATION OF PRIOR MAGNETOMETER SURVEYS AND GIS OIL/GAS WELL LOCATION RECORDS. THE OIL/GAS WELL LOCATIONS SHALL BE CONSIDERED APPROXIMATE AND CANNOT BE CONFIRMED FOR ACCURACY AND COMPLETENESS, THEREBY REQUIRING THE CONTRACTOR TO PROVIDE AN INDEPENDENT MAGNETOMETER SURVEY PRIOR TO CONSTRUCTION AS PER THE SPECIFICATIONS. A VERIFIED WELLHEAD SHALL MEAN A WELLHEAD WHOSE LOCATION WAS DISCOVERED/VERIFIED BY A MAGNETOMETER SURVEY OR THAT THERE IS EXISTING DOCUMENTATION FROM OIL/GAS DATABASES TO SUPPORT THE PRESENCE OF A WELL HEAD. AN UNVERIFIED WELLHEAD SHALL MEAN A WELLHEAD WHOSE LOCATION WAS NOT DISCOVERED/VERIFIED BY A MAGNETOMETER SURVEY, AND THAT THERE IS MINIMAL EXISTING DOCUMENTATION TO SUPPORT THE PRESENCE OF A WELL HEAD.
9. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, EQUIPMENT ACCESS CORRIDORS, MARSH CREATION AREAS, EARTHEN CONTAINMENT DIKES AND ASSOCIATED BORROW AREAS, AND EARTHEN RIDGE AND ASSOCIATED BORROW AREAS PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, SIGNATURE WIDTH, AND CONTRACTOR'S INTERPRETATION OF DATA SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
10. PIPELINES AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. WHILE EFFORTS WERE MADE TO DELINEATE PIPELINES, METAL OBJECTS, AND OTHER SUBSURFACE OBSTRUCTIONS, ADDITIONAL HAZARDS MAY EXIST WITHIN THE EQUIPMENT ACCESS CHANNEL AND PROJECT AREA. THE REMOVAL OF EXISTING ABANDONED PIPELINES SHALL ADHERE TO TS-1100.
11. THE CONTRACTOR SHALL NOT EXCAVATE OR SPUD WITHIN 500' OF ANY EXISTING PIPELINE/UTILITY IN THE MISSISSIPPI RIVER OR WITHIN 75' OF ANY OTHER EXISTING PIPELINE/WELLHEAD UNLESS OTHERWISE NOTED.

NOTIFICATIONS:

1. THE CONTRACTOR SHALL ADHERE TO THE MOST CURRENT PUBLICATIONS OF "RECOMMENDED BEST PRACTICES GUIDE FOR SAFE DREDGING NEAR UNDERWATER GAS & HAZARDOUS LIQUID PIPELINES", WWW.CDMCS.ORG, AND " WORKING SAFELY NEAR UNDERWATER PIPELINES", WWW.CAMOGROUP.ORG .
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS FOURTEEN (14) DAYS PRIOR TO WORK. PIPELINES LOCATED WITHIN 150' OF THE WORK SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL AT 1-800-272-3020 FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.
- GULF SOUTH PIPELINE COMPANY, LP
CONTACT: GERALD ROSER
PHONE: (504) 415-4321
- SHELL PIPELINE COMPANY, LP
CONTACT: DAVID BERGERON
PHONE: (225) 474-7089
- TARGA RESOURCES OPERATING, LLC
CONTACT: KEITH ADAMS
PHONE: (225) 788-3787
- HIGH POINT GAS TRANSMISSION, LLC
C/O THIRD COAST MIDSTREAM
CONTACT: ROBIN ASEVADO
PHONE: (504) 800-6686
- PHILLIPS 66 PIPELINE, LLC
CONTACT: TODD TULLIO
PHONE: (405) 879-4871
- ATMOS ENERGY CORPORATION
CONTACT: BRIAN P. BLUM
PHONE: (504) 214-6356
EMERGENCY PHONE: 1-800-322-8667
- VENTURE GLOBAL GATOR EXPRESS
CONTACT: GERMAN ORTEGA
PHONE: (713) 231-6398
- PERDIDO ENERGY, LLC
CONTACT: JACOB SANCHEZ
PHONE: (832) 260-6213
- ENTERGY LOUISIANA LLC
CONTACT: ALEX PADILLA
PHONE: (504) 402-0553
EMERGENCY PHONE: 1-800-968-8243
- PLAQUEMINES PARISH GOVERNMENT
(WATERLINE)
CONTACT: JOHN HELMERS
PHONE: (504) 934-6297
3. THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED IN THE SPECIFICATIONS AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK AND ADHERE TO CPRA LAND RIGHTS PROTOCOL.
4. THE CONTRACTOR SHALL NOTIFY THE USACE NOV CONTACT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO PERFORMING DPC WORK WITHIN THE VICINITY OF THE NOV LEVEE OR STAGING AREA.
- USACE
CONTACT: KEVIN WAGNER
PHONE: (504) 862-2509



COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GENERAL NOTES AND NOTIFICATIONS

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

DATE: MAR. 2022

SHEET 2 OF 73

DESIGNED BY: A. LINSON, P.E.

APPROVED BY: R. JOFFRION, P.E.

STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

BY

DESCRIPTION

DATE

REV.

DESIGN NOTES:

1.

ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE FOLLOWING MONUMENT DATA:
- | SURVEY MONUMENT | GEOID | ELEVATION | NORTHING | EASTING |
|------------------|-------|-----------|------------|--------------|
| 876 1602 C TIDAL | 12B | 0.51' | 388,177.25 | 3,741,375.10 |
| C 195 | 12B | 1.09' | 380,462.01 | 3,780,155.39 |
| BA04C-SM-01 | 12B | 2.52' | 379,068.29 | 3,762,442.52 |
2.

THE BORROW AREAS, MARSH CREATION AREAS, EARTHEN CONTAINMENT DIKE, EARTHEN RIDGE, DREDGE PIPELINE CORRIDOR, AND EQUIPMENT ACCESS CORRIDORS SURVEY DATA ARE BASED ON SURVEYS PERFORMED BY HYDRO TERRA TECHNOLOGIES, LLC IN OCTOBER 2019 TO DECEMBER 2019, MARCH 2020 TO MAY 2020, AND NOVEMBER 2020 TO MARCH 2021 FOR THE CPRA. BACKGROUND IMAGERY WAS TAKEN IN 2018. THE CONTRACTOR SHOULD BE FAMILIAR WITH THE SURVEY REPORT AND MAGNETOMETER DATA PROVIDED IN THE SPECIFICATION APPENDICES.
3.

DATA FROM STATION CRMS 0260 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12B. MHW = 0.99' AND MLW = 0.22' WITHIN PROJECT AREA.
4.

A GEOTECHNICAL SUBSURFACE INVESTIGATION WAS PERFORMED BY EUSTIS ENGINEERING, LLC IN MAY 2020 TO JUNE 2020 FOR THE RESTORATION AREAS, AND DECEMBER 2020 FOR THE MISSISSIPPI RIVER. THE CONTRACTOR SHOULD BE FAMILIAR WITH THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT PROVIDED IN THE SPECIFICATION APPENDICES.

DREDGING NOTES:

1.

THE MISSISSIPPI RIVER BORROW AREA DREDGING TEMPLATES ARE BASED ON THE USACE NEW ORLEANS DISTRICT MISSISSIPPI RIVER LIMITS OF PERMISSIBLE EXCAVATION REQUIREMENTS.
2.

THE CONTRACTOR SHALL ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON THE PLANS.
3.

DREDGE ANCHOR LIMITS SHALL BE MARKED WITH BUOYS AS SHOWN ON THE PLANS IN ACCORDANCE WITH USCG REGULATIONS.
4.

DREDGING BEYOND THE MISSISSIPPI RIVER BORROW AREA LIMITS SHOWN ON THE PLANS WILL NOT BE ALLOWED.
5.

THE CONTRACTOR SHALL SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND THE MARITIME NAVIGATION SAFETY ASSOCIATION (MNSA), DELINEATING THE LOCATION OF THE DREDGE AND CUTTER HEAD, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE SPECIFICATIONS.
6.

THE MISSISSIPPI RIVER MILES SHOWN ON THE PLANS ARE REFERENCED FROM ABOVE HEAD OF PASSES (AHP).
7.

THE POINT CELESTE BORROW AREA WAS PREVIOUSLY DREDGED FROM AUGUST 2012 TO MAY 2015.
8.

SHOULD THE CONTRACTOR SELECT THE POINT CELESTE BORROW AREA, THE CONTRACTOR SHALL BEGIN DREDGING IN THE PORTION OF THE BORROW AREA NORTH OF RM 50.5.
9.

ONLY ONE (1) OF THE PERMITTED MISSISSIPPI RIVER BORROW AREAS CAN BE DREDGED AT ANY GIVEN TIME. AT NO TIME CAN BOTH ANCHORAGES BE BLOCKED SIMULTANEOUSLY.
10.

A CONSISTENCY DETERMINATION (LDNR COASTAL USE PERMIT NO. P20210230 DATED 6.16.21) HAS BEEN ISSUED TO THE APPLICANT, WOODLAND BORROW PITS, LLC, FOR AN EXISTING BORROW PIT NEAR THE DOWNSTREAM BOUNDARY OF THE PROPOSED POINT CELESTE ANCHORAGE BORROW AREA. THE APPLICANT SHALL NOT IMPACT THE CONTRACTOR'S CONSTRUCTION ACTIVITIES, SHALL NOT IMPACT SEDIMENT AVAILBILIY FOR THIS PROJECT, AND IS REQUIRED TO SEEK CPRA REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK.

ACRONYMS:

AHP	ABOVE HEAD OF PASSES	OHL	OVERHEAD POWER LINE
CMF	CONSTRUCTED MARSH FILL	PL	VERIFIED PIPELINE
DPC	DREDGE PIPE CORRIDOR	SNG	SOUTHERN NATURAL GAS
EAC	EQUIPMENT ACCESS CORRIDOR	SP	SETTLEMENT PLATE
ECD	EARTHEN CONTAINMENT DIKE	SW	SHIPWRECK
ECD BA	EARTHEN CONTAINMENT DIKE BORROW AREA	TS	TEMPORARY SPOIL
HPG	HIGH POINT GAS	TOP	TOP OF PIPE
LWRP	LOW WATER REFERENCE PLANE	UPL	UNVERIFIED PIPELINE
MCA	MARSH CREATION AREA	USACE	UNITED STATES ARMY CORPS OF ENGINEERS
MRBA	MISSISSIPPI RIVER BORROW AREA	USCG	UNITED STATES COAST GUARD
MR&T	MISSISSIPPI RIVER AND TRIBUTARY	WL	WATERLINE
NOV	NEW ORLEANS TO VENICE		

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY¹
1	MOBILIZATION AND DEMOBILIZATION (TS-100)	LS	1
2	SURVEYS (TS-200)	LS	1
3	SETTLEMENT PLATES (TS-270)	EA	15
4	EARTHEN CONTAINMENT DIKES (TS-300)	LF	31,890
5	EARTHEN RIDGE (TS-320)	LF	4,400
6	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH I (TS-330)	LS	1
7	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH II (TS-330)	LS	1
8	EQUIPMENT ACCESS CORRIDOR DREDGING - REACH III (TS-330)	LS	1
9	HYDRAULIC DREDGING AND MARSH CREATION - MCA-1 (TS-420)²	CY	708,500
10	HYDRAULIC DREDGING AND MARSH CREATION - MCA-2 (TS-420)²	CY	1,440,700
11	HYDRAULIC DREDGING AND MARSH CREATION - MCA-3 (TS-420)²	CY	638,000
12	ABANDONED PIPELINE REMOVAL (TS-1100)	LF	2,900

ALTERNATE BID 1

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY¹
13	SURVEYS - MCA-4A (TS-200)	LS	1
14	SETTLEMENT PLATES - MCA-4A (TS-270)	EA	2
15	EARTHEN CONTAINMENT DIKES - MCA-4A (TS-300)	LF	5,080
16	DEDUCT EARTHEN CONTAINMENT DIKES - MCA-3 (TS-300)	LF	-1,650
17	HYDRAULIC DREDGING AND MARSH CREATION - MCA-4A (TS-420)²	CY	559,500
18	DEDUCT HYDRAULIC DREDGING AND MARSH CREATION - MCA-3 (TS-420)²	CY	-20,600

ALTERNATE BID 2

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY¹
19	SURVEYS - MCA-4B (TS-200)	LS	1
20	SETTLEMENT PLATES - MCA-4B (TS-270)	EA	2
21	EARTHEN CONTAINMENT DIKES - MCA-4B (TS-300)	LF	4,700
22	DEDUCT EARTHEN CONTAINMENT DIKES - MCA-4A (TS-300)	LF	-1,860
23	HYDRAULIC DREDGING AND MARSH CREATION - MCA-4B (TS-420)²	CY	459,300
24	DEDUCT HYDRAULIC DREDGING AND MARSH CREATION - MCA-4A (TS-420)²	CY	-24,800

1.

THE QUANTITIES SHOWN WERE CALCULATED BASED ON SURVEYS CONDUCTED IN OCTOBER 2019 TO DECEMBER 2019, MARCH 2020 TO MAY 2020, AND NOVEMBER 2020 TO MARCH 2021. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER FOR ANY ITEM COVERED BY A UNIT PRICE, WITHOUT ADJUSTMENT OF THE UNIT PRICE. REFER TO SP-19 "ADJUSTMENT OF QUANTITIES."
2.

QUANTITY IS BASED ON THE MARSH CREATION FILL. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE MARSH CREATION AREA(S).

UNIT ABBREVIATIONS:

CY	CUBIC YARD
EL	ELEVATION
FT	FOOT
LF	LINEAR FOOT
LS	LUMP SUM
MCY	MILLION CUBIC YARDS
NTS	NOT TO SCALE
SF	SQUARE FOOT



DESIGN NOTES, DREDGING NOTES, AND SUMMARY OF ESTIMATED QUANTITIES

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730

APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 3 OF 73

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

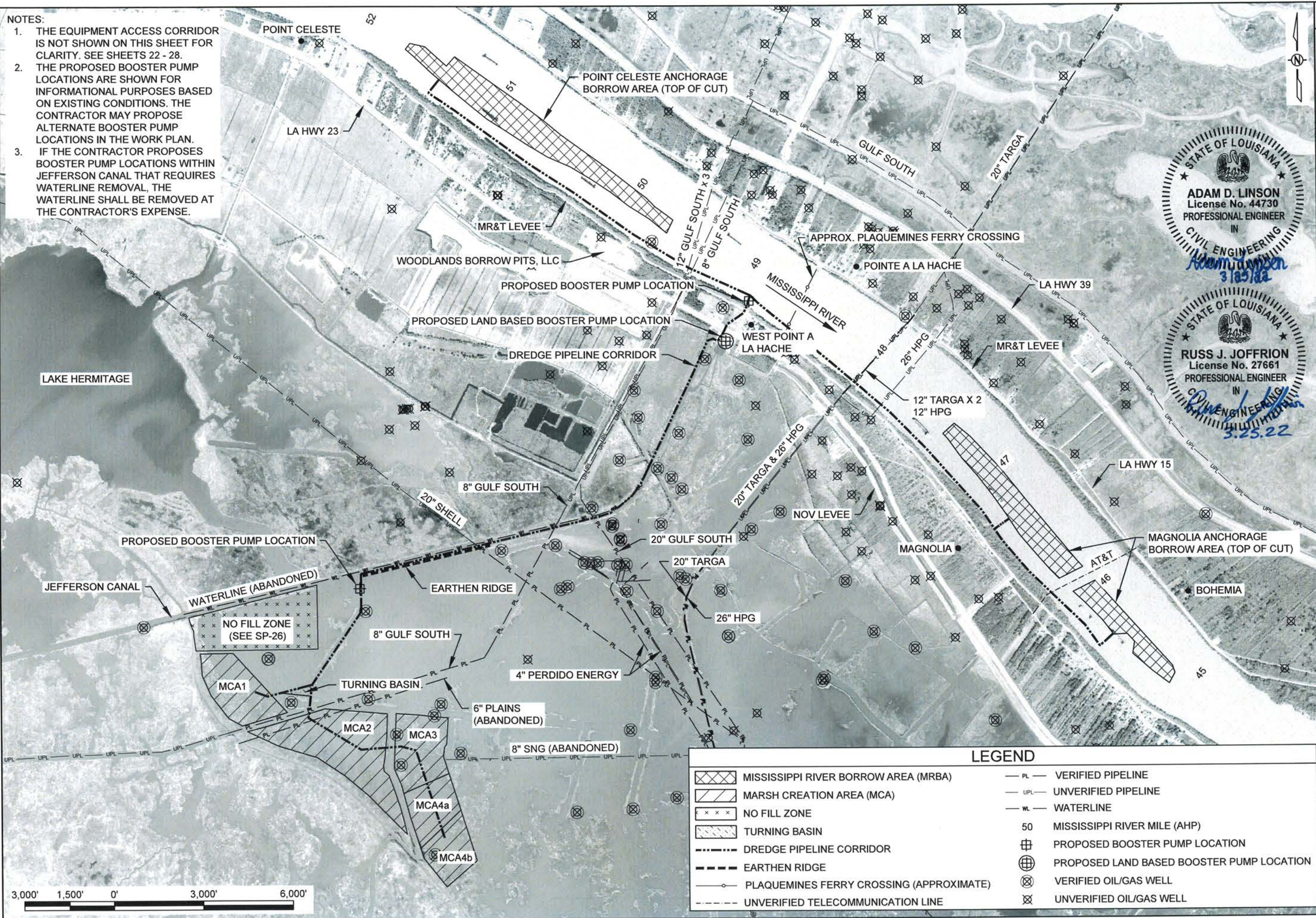
BY

DESCRIPTION

DATE

REV.

- NOTES:
1. THE EQUIPMENT ACCESS CORRIDOR IS NOT SHOWN ON THIS SHEET FOR CLARITY. SEE SHEETS 22 - 28.
 2. THE PROPOSED BOOSTER PUMP LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES BASED ON EXISTING CONDITIONS. THE CONTRACTOR MAY PROPOSE ALTERNATE BOOSTER PUMP LOCATIONS IN THE WORK PLAN.
 3. IF THE CONTRACTOR PROPOSES BOOSTER PUMP LOCATIONS WITHIN JEFFERSON CANAL THAT REQUIRES WATERLINE REMOVAL, THE WATERLINE SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.



LEGEND

	MISSISSIPPI RIVER BORROW AREA (MRBA)		PL	VERIFIED PIPELINE
	MARSH CREATION AREA (MCA)		UPL	UNVERIFIED PIPELINE
	NO FILL ZONE		WL	WATERLINE
	TURNING BASIN	50		MISSISSIPPI RIVER MILE (AHP)
	DREDGE PIPELINE CORRIDOR			PROPOSED BOOSTER PUMP LOCATION
	EARTHEN RIDGE			PROPOSED LAND BASED BOOSTER PUMP LOCATION
	PLAQUEMINES FERRY CROSSING (APPROXIMATE)			VERIFIED OIL/GAS WELL
	UNVERIFIED TELECOMMUNICATION LINE			UNVERIFIED OIL/GAS WELL

STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/18/22

STATE OF LOUISIANA
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3.25.22

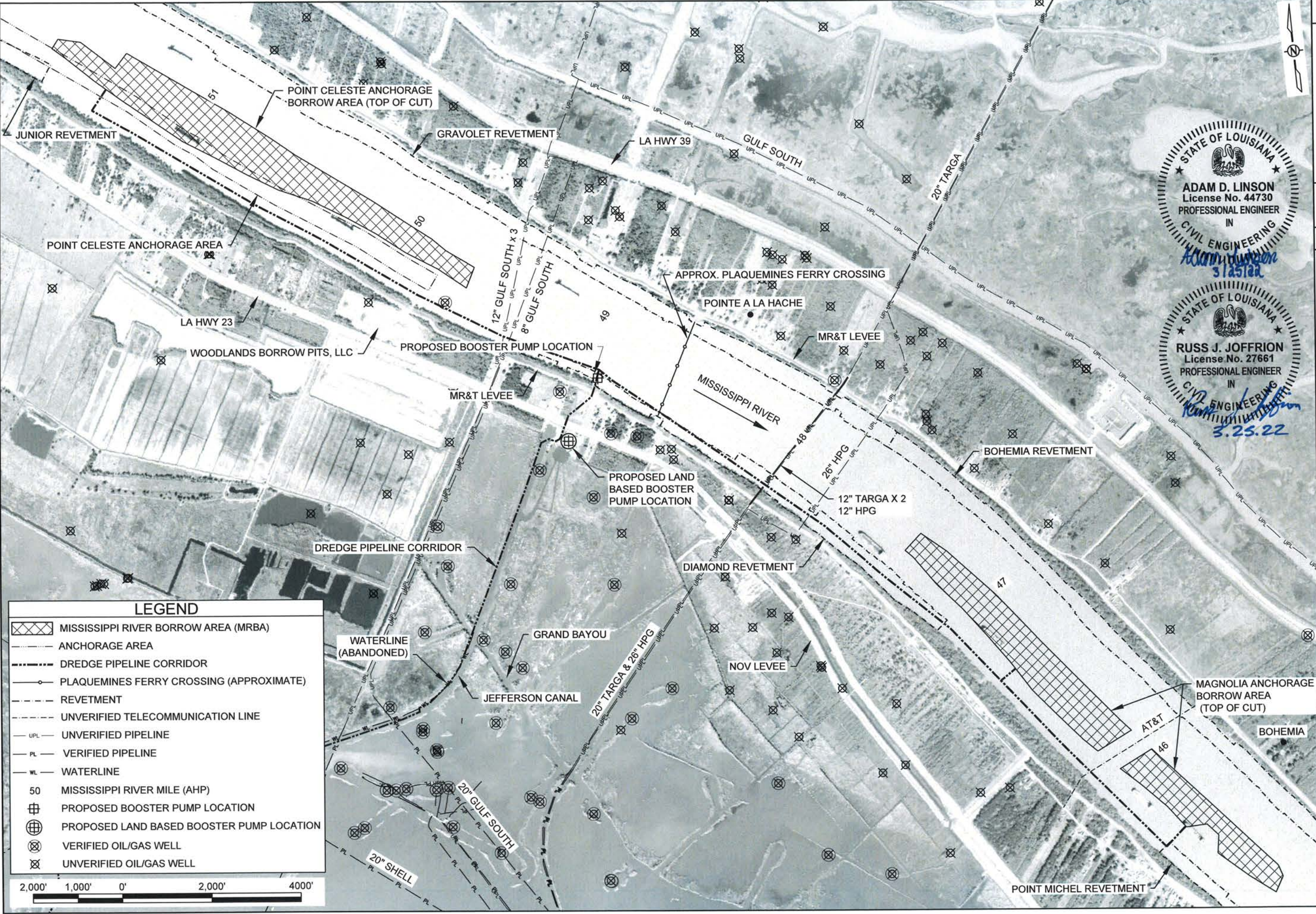
COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

PROJECT LAYOUT

GRANDE CHENIERE RIDGE,
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661
DRAWN BY: K. CANTU

DATE: MAR. 2022
SHEET 4 OF 73



COASTAL PROTECTION AND RESTORATION AUTHORITY		BORROW AREA LAYOUT		GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730	STATE PROJECT NUMBER: BA-0240	
		APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661	DRAWN BY: K. CANTU	
REV.	DATE	DATE: MAR. 2022			
DESCRIPTION	BY	SHEET 5 OF 73			

POINT CELESTE ANCHORAGE BORROW AREA		
	NORTHING	EASTING
1	402,109.34	3,756,496.84
2	401,998.08	3,756,991.76
3	401,341.51	3,757,721.60
4	401,655.29	3,758,003.88
5	400,124.49	3,760,176.17
6	399,458.43	3,761,051.21
7	399,027.02	3,761,574.72
8	397,853.99	3,763,201.69
9	397,287.39	3,763,930.12
10	396,880.22	3,764,463.53
11	396,590.31	3,764,753.61
12	396,308.90	3,765,148.27
13	396,158.78	3,765,349.82
14	395,718.31	3,765,130.92
15	396,196.49	3,764,538.49
16	396,620.68	3,763,858.20
17	397,108.38	3,763,223.52
18	397,550.87	3,762,556.37
19	397,964.27	3,761,868.33
20	398,290.12	3,761,117.42
21	398,704.30	3,760,429.94
22	399,143.63	3,759,760.52
23	399,569.88	3,759,081.72
24	400,073.85	3,758,458.72
25	400,580.59	3,757,837.70
26	401,100.32	3,757,226.02
27	401,653.69	3,756,638.51
28	401,909.21	3,756,347.75

DREDGE ANCHOR LIMITS		
	NORTHING	EASTING
A	402,249.48	3,756,444.90
2.1	401,941.07	3,757,815.33
3.1	400,225.35	3,760,250.06
4.1	399,556.43	3,761,128.84
5.1	399,126.05	3,761,651.10
6.1	397,954.06	3,763,276.64
7.1	397,386.41	3,764,006.42
8.1	396,974.52	3,764,546.00
9.1	396,686.06	3,764,834.63
10.1	396,409.92	3,765,221.90
B	396,196.65	3,765,508.23

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	AREA OF AVOIDANCE
	ANCHORAGE AREA
	DREDGE ANCHOR LIMITS
	DREDGE PIPELINE CORRIDOR
	REVETMENT
	UNVERIFIED PIPELINE
	BOUY
50	MISSISSIPPI RIVER MILE (AHP)
	POTENTIAL OBSTRUCTION
	VERIFIED OIL/GAS WELL
	UNVERIFIED OIL/GAS WELL

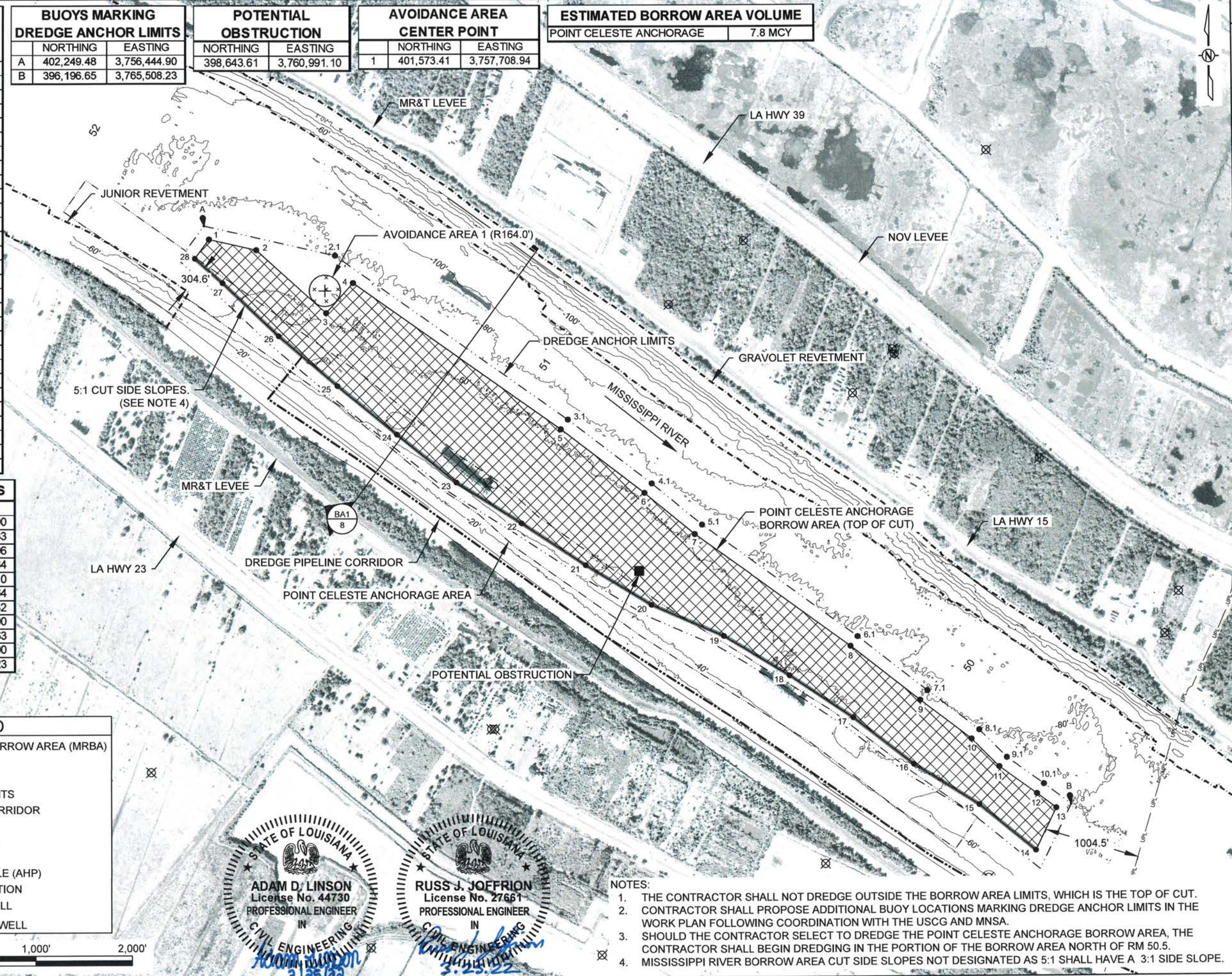


BUOYS MARKING DREDGE ANCHOR LIMITS		
	NORTHING	EASTING
A	402,249.48	3,756,444.90
B	396,196.65	3,765,508.23

POTENTIAL OBSTRUCTION		
	NORTHING	EASTING
	398,643.61	3,760,991.10

AVOIDANCE AREA CENTER POINT		
	NORTHING	EASTING
1	401,573.41	3,757,708.94

ESTIMATED BORROW AREA VOLUME	
POINT CELESTE ANCHORAGE	7.8 MCY



STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

STATE OF LOUISIANA
RUSS J. JOFFRION
License No. 27681
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

- NOTES:
1. THE CONTRACTOR SHALL NOT DREDGE OUTSIDE THE BORROW AREA LIMITS, WHICH IS THE TOP OF CUT.
 2. CONTRACTOR SHALL PROPOSE ADDITIONAL BOUY LOCATIONS MARKING DREDGE ANCHOR LIMITS IN THE WORK PLAN FOLLOWING COORDINATION WITH THE USCG AND MNSA.
 3. SHOULD THE CONTRACTOR SELECT TO DREDGE THE POINT CELESTE ANCHORAGE BORROW AREA, THE CONTRACTOR SHALL BEGIN DREDGING IN THE PORTION OF THE BORROW AREA NORTH OF RM 50.5.
 4. MISSISSIPPI RIVER BORROW AREA CUT SIDE SLOPES NOT DESIGNATED AS 5:1 SHALL HAVE A 3:1 SIDE SLOPE.

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

POINT CELESTE ANCHORAGE BORROW AREA PLAN VIEW

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27681

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR 2022
SHEET 6 OF 73

MAGNOLIA ANCHORAGE BORROW AREA

	NORTHING	EASTING
30	389,296.39	3,774,827.73
31	388,851.69	3,775,369.51
32	387,778.40	3,776,382.18
33	386,671.77	3,777,266.90
34	385,205.83	3,778,497.79
35	384,715.01	3,778,907.71
36	384,464.21	3,779,135.48
37	384,068.71	3,778,338.96
38	384,356.31	3,778,041.83
39	384,956.62	3,777,512.59
40	385,566.03	3,776,994.24
41	386,244.77	3,776,559.03
42	386,895.97	3,776,090.78
43	387,532.17	3,775,604.55
44	388,131.80	3,775,074.49
45	388,781.68	3,774,604.67
46	388,951.58	3,774,436.64

47	384,002.52	3,779,554.79
48	381,145.92	3,782,149.16
49	380,888.47	3,782,230.94
50	380,545.87	3,782,042.57
51	380,969.76	3,781,475.50
52	381,498.81	3,780,860.80
53	381,546.76	3,780,809.47
54	381,946.35	3,780,870.51
55	382,212.85	3,780,628.47
56	382,187.17	3,780,165.70
57	382,684.35	3,779,784.22
58	383,251.98	3,779,215.79
59	383,629.28	3,778,803.10

DREDGE ANCHOR LIMITS

	NORTHING	EASTING
C	389,460.48	3,774,824.83
31.1	388,943.26	3,775,454.97
32.1	387,860.46	3,776,476.62
33.1	386,750.99	3,777,363.60
34.1	385,286.08	3,778,593.62
35.1	384,797.12	3,779,001.99
36.1	381,209.76	3,782,260.04
D	380,875.22	3,782,366.31

LEGEND

- MISSISSIPPI RIVER BORROW AREA (MRBA)
- AREA OF AVOIDANCE
- ANCHORAGE AREA
- DREDGE ANCHOR LIMITS
- DREDGE PIPELINE CORRIDOR
- REVETMENT
- UNVERIFIED TELECOMMUNICATION LINE
- UNVERIFIED PIPELINE
- BOUY
- MISSISSIPPI RIVER MILE (AHP)
- SHIPWRECK
- VERIFIED OIL/GAS WELL
- UNVERIFIED OIL/GAS WELL

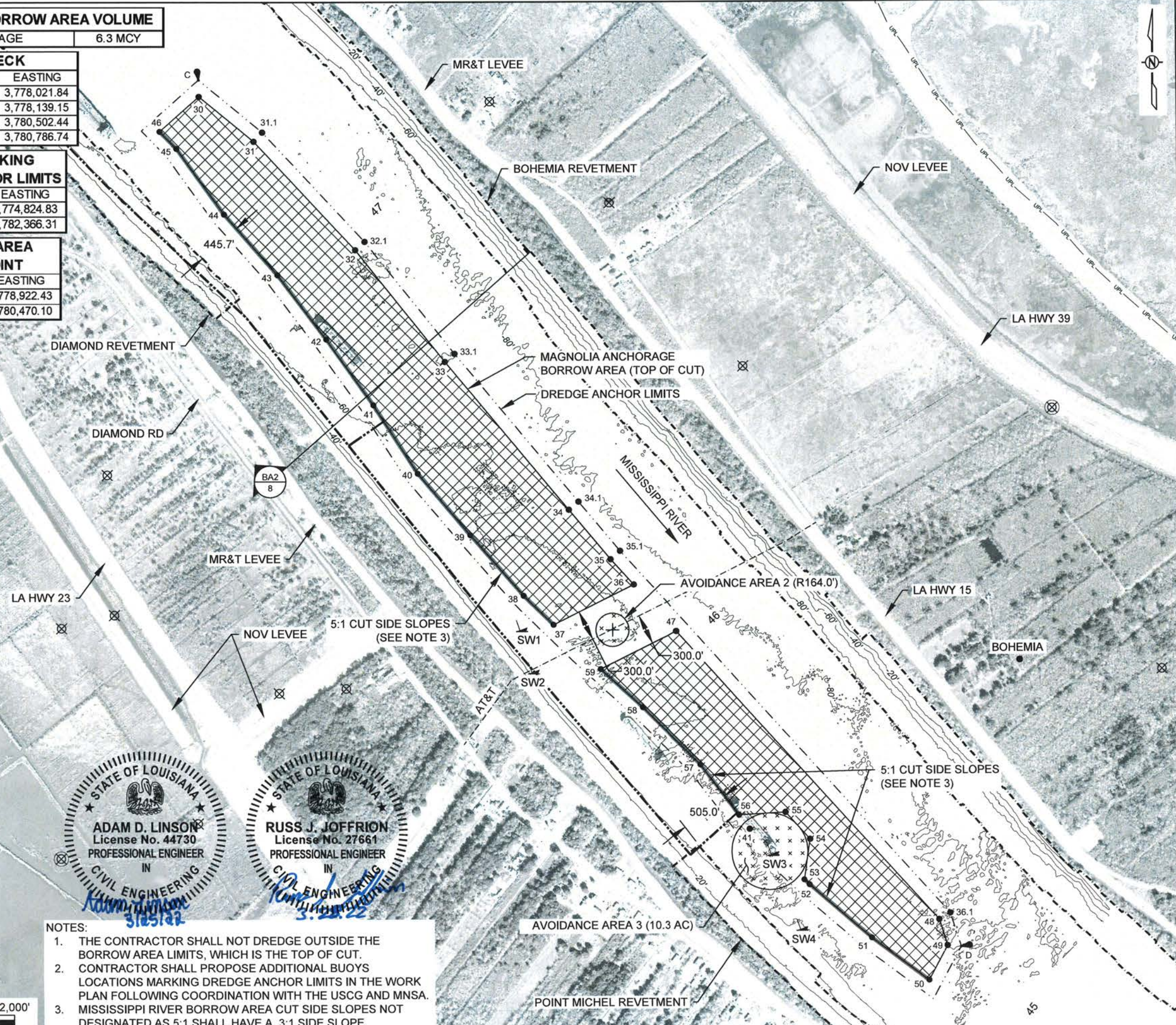


ESTIMATED BORROW AREA VOLUME

SHIP WRECK		
	NORTHING	EASTING
SW1	384,058.10	3,778,021.84
SW2	383,640.73	3,778,139.15
SW3	381,840.48	3,780,502.44
SW4	381,099.92	3,780,786.74

BUOYS MARKING DREDGE ANCHOR LIMITS		
	NORTHING	EASTING
C	389,460.48	3,774,824.83
D	380,875.22	3,782,366.31

AVOIDANCE AREA CENTER POINT		
	NORTHING	EASTING
2	384,015.69	3,778,922.43
3	381,824.84	3,780,470.10



- NOTES:
- THE CONTRACTOR SHALL NOT DREDGE OUTSIDE THE BORROW AREA LIMITS, WHICH IS THE TOP OF CUT.
 - CONTRACTOR SHALL PROPOSE ADDITIONAL BUOYS LOCATIONS MARKING DREDGE ANCHOR LIMITS IN THE WORK PLAN FOLLOWING COORDINATION WITH THE USCG AND MNSA.
 - MISSISSIPPI RIVER BORROW AREA CUT SIDE SLOPES NOT DESIGNATED AS 5:1 SHALL HAVE A 3:1 SIDE SLOPE.

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MAGNOLIA ANCHORAGE BORROW AREA PLAN VIEW

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

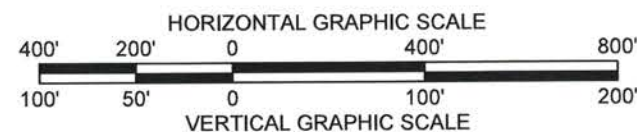
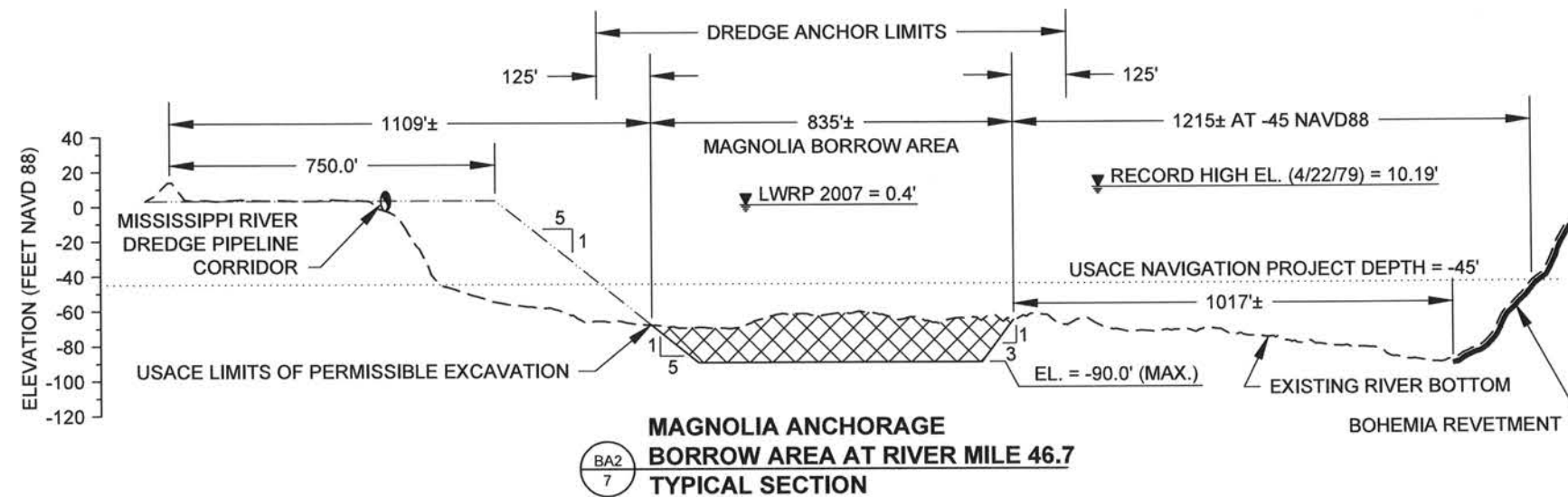
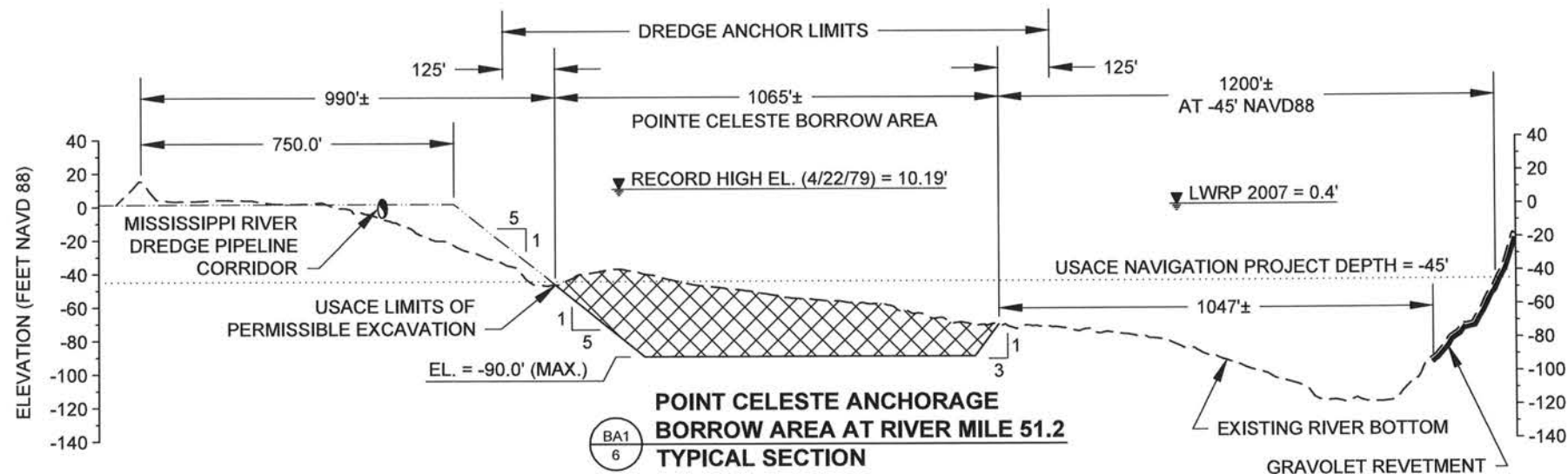
DESIGNED BY: A. LINSON, P.E.
APPROVED BY: R. JOFFRION, P.E.
DRAWN BY: K. CANTU

STATE PROJECT NUMBER: BA-0240

DATE: MAR 2022

PE NO. 44730
PE NO. 27661

SHEET 7 OF 73



NOTES:

1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON SURVEY BY HYDRO TERRA TECHNOLOGIES, LLC COMPLETED IN NOVEMBER TO DECEMBER OF 2019.
2. DREDGE PIPELINE TO BE ROUTED ALONG THE RIVERBANK AND MAY BE SUBMERGED OR FLOATING.

LEGEND	
	MISSISSIPPI RIVER BORROW AREA
	NOVEMBER - DECEMBER 2019 SURVEY
	APPROXIMATE EXISTING GRADE
	EXISTING REVETMENT



COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL BORROW AREA SECTIONS

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

DATE: MAR. 2022

SHEET 8 OF 73

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

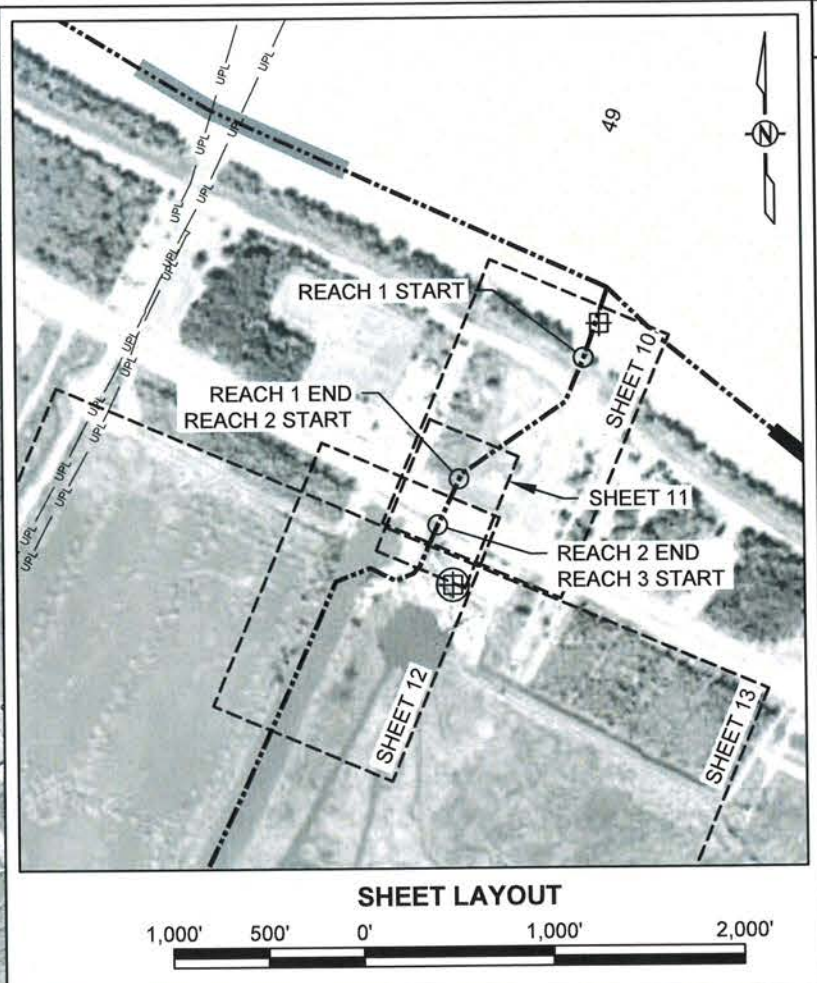
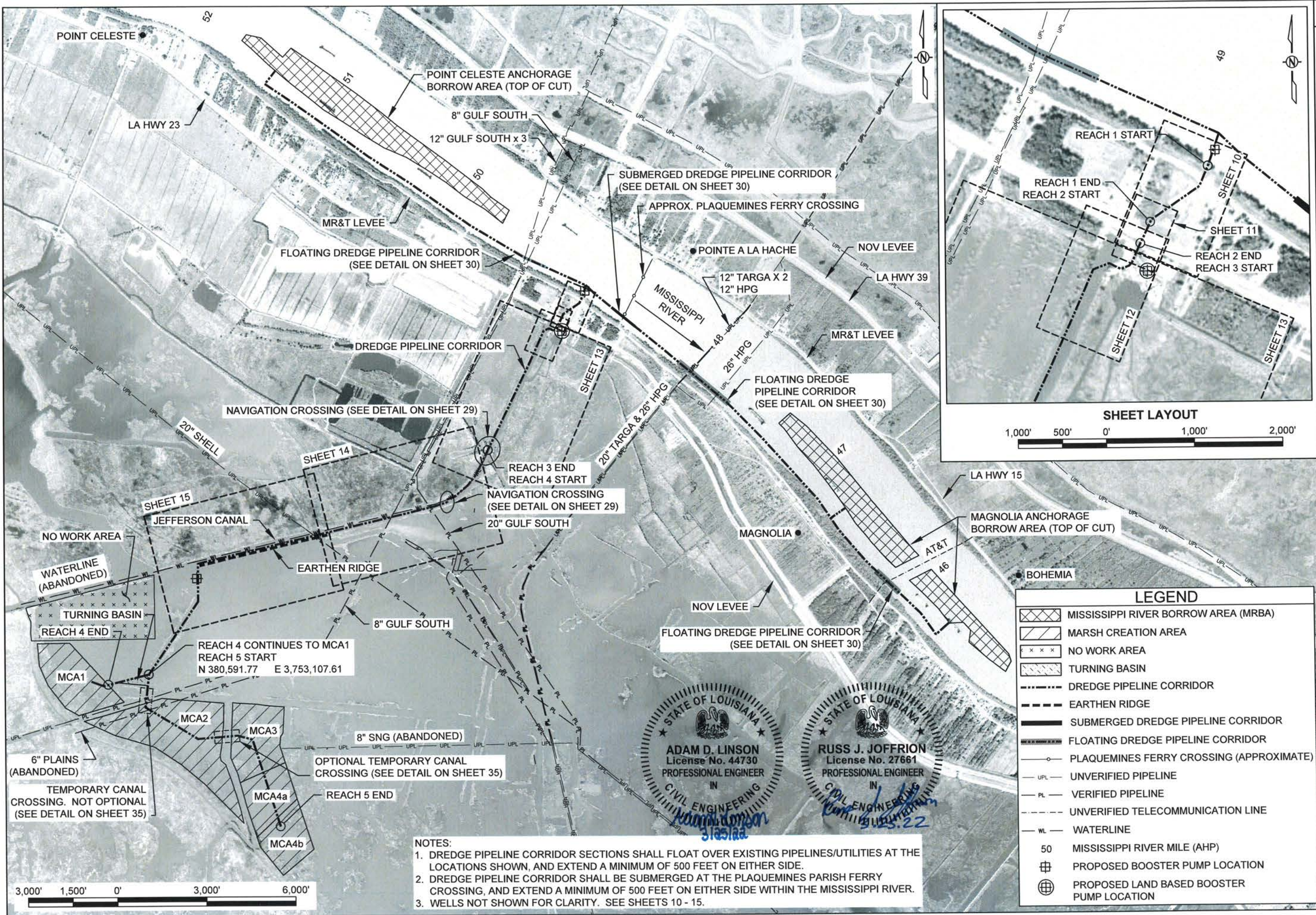
DRAWN BY: K. CANTU

DESCRIPTION

DATE

REV.

BY

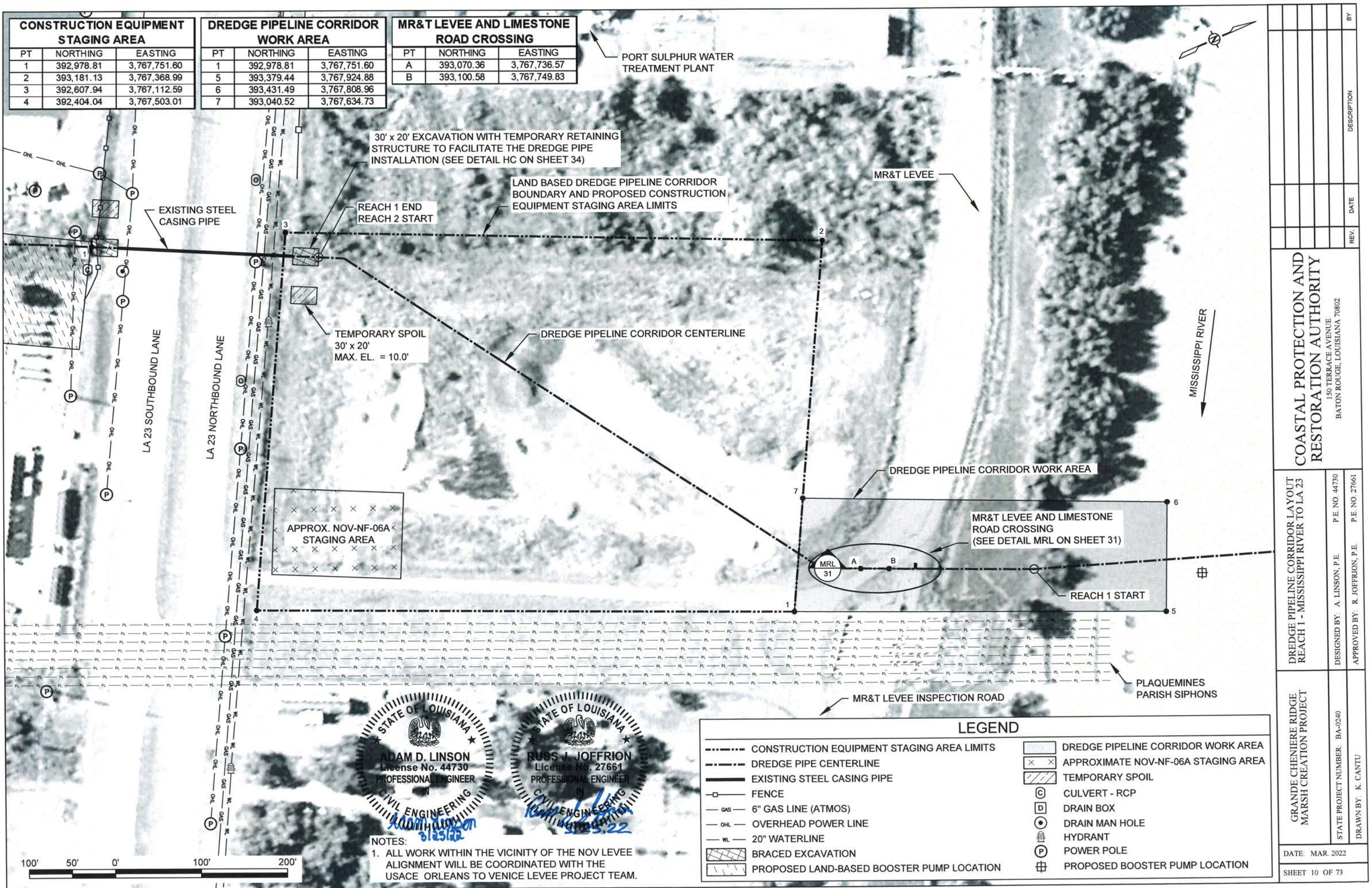


LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	MARSH CREATION AREA
	NO WORK AREA
	TURNING BASIN
	DREDGE PIPELINE CORRIDOR
	EARTHEN RIDGE
	SUBMERGED DREDGE PIPELINE CORRIDOR
	FLOATING DREDGE PIPELINE CORRIDOR
	PLAQUEMINES FERRY CROSSING (APPROXIMATE)
	UNVERIFIED PIPELINE
	VERIFIED PIPELINE
	UNVERIFIED TELECOMMUNICATION LINE
	WATERLINE
	MISSISSIPPI RIVER MILE (AHP)
	PROPOSED BOOSTER PUMP LOCATION
	PROPOSED LAND BASED BOOSTER PUMP LOCATION

NOTES:
1. DREDGE PIPELINE CORRIDOR SECTIONS SHALL FLOAT OVER EXISTING PIPELINES/UTILITIES AT THE LOCATIONS SHOWN, AND EXTEND A MINIMUM OF 500 FEET ON EITHER SIDE.
2. DREDGE PIPELINE CORRIDOR SHALL BE SUBMERGED AT THE PLAQUEMINES PARISH FERRY CROSSING, AND EXTEND A MINIMUM OF 500 FEET ON EITHER SIDE WITHIN THE MISSISSIPPI RIVER.
3. WELLS NOT SHOWN FOR CLARITY. SEE SHEETS 10 - 15.



COASTAL PROTECTION AND RESTORATION AUTHORITY		DESCRIPTION	DATE	REV.	BY
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
DREDGE PIPELINE CORRIDOR OVERALL LAYOUT		DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730		
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661		
		STATE PROJECT NUMBER: BA-0240			
		DRAWN BY: K. CANTU			
		DATE: MAR. 2022			
		SHEET 9 OF 73			



CONSTRUCTION EQUIPMENT STAGING AREA		
PT	NORTHING	EASTING
1	392,978.81	3,767,751.60
2	393,181.13	3,767,368.99
3	392,607.94	3,767,112.59
4	392,404.04	3,767,503.01

DREDGE PIPELINE CORRIDOR WORK AREA		
PT	NORTHING	EASTING
1	392,978.81	3,767,751.60
5	393,379.44	3,767,924.88
6	393,431.49	3,767,808.96
7	393,040.52	3,767,634.73

MR&T LEVEE AND LIMESTONE ROAD CROSSING		
PT	NORTHING	EASTING
A	393,070.36	3,767,736.57
B	393,100.58	3,767,749.83

30' x 20' EXCAVATION WITH TEMPORARY RETAINING STRUCTURE TO FACILITATE THE DREDGE PIPE INSTALLATION (SEE DETAIL HC ON SHEET 34)

LAND BASED DREDGE PIPELINE CORRIDOR BOUNDARY AND PROPOSED CONSTRUCTION EQUIPMENT STAGING AREA LIMITS

TEMPORARY SPOIL 30' x 20' MAX. EL. = 10.0'

APPROX. NOV-NF-06A STAGING AREA

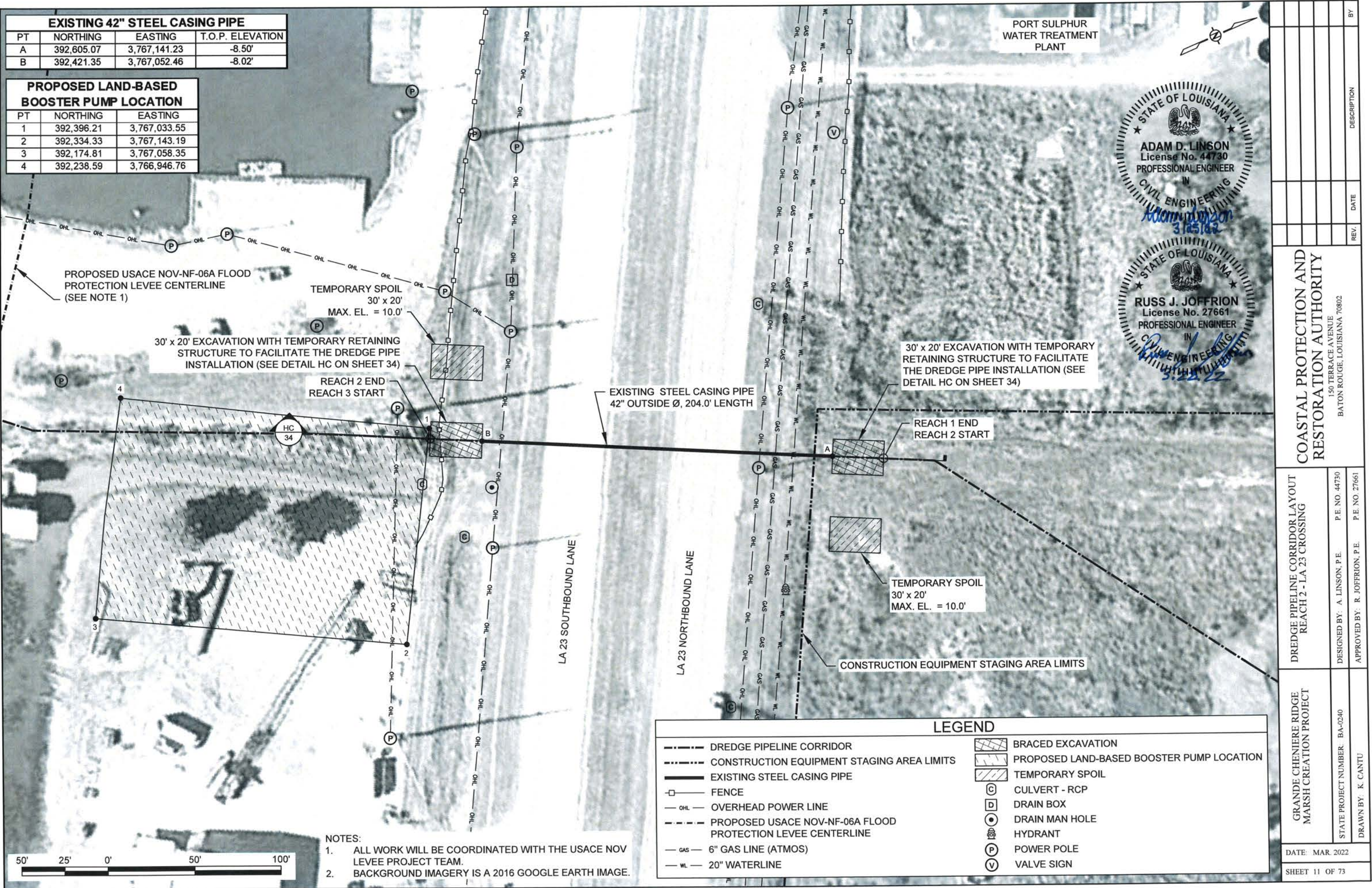
MR&T LEVEE AND LIMESTONE ROAD CROSSING (SEE DETAIL MRL ON SHEET 31)



NOTES:
1. ALL WORK WITHIN THE VICINITY OF THE NOV LEVEE ALIGNMENT WILL BE COORDINATED WITH THE USACE ORLEANS TO VENICE LEVEE PROJECT TEAM.

LEGEND	
-----	CONSTRUCTION EQUIPMENT STAGING AREA LIMITS
-----	DREDGE PIPE CENTERLINE
-----	EXISTING STEEL CASING PIPE
-□-	FENCE
-GAS-	6" GAS LINE (ATMOS)
-OHL-	OVERHEAD POWER LINE
-WL-	20" WATERLINE
[Hatched Box]	BRACED EXCAVATION
[Dashed Box]	PROPOSED LAND-BASED BOOSTER PUMP LOCATION
[Shaded Box]	DREDGE PIPELINE CORRIDOR WORK AREA
[X X Box]	APPROXIMATE NOV-NF-06A STAGING AREA
[Hatched Box]	TEMPORARY SPOIL
(C)	CULVERT - RCP
(D)	DRAIN BOX
(M)	DRAIN MAN HOLE
(H)	HYDRANT
(P)	POWER POLE
(B)	PROPOSED BOOSTER PUMP LOCATION

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
DREDGE PIPELINE CORRIDOR LAYOUT REACH 1 - MISSISSIPPI RIVER TO LA 23		DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730			
		APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240			
		DRAWN BY: K. CANTU			
		DATE: MAR. 2022			
		SHEET 10 OF 73			



EXISTING 42" STEEL CASING PIPE			
PT	NORTHING	EASTING	T.O.P. ELEVATION
A	392,605.07	3,767,141.23	-8.50'
B	392,421.35	3,767,052.46	-8.02'

PROPOSED LAND-BASED BOOSTER PUMP LOCATION		
PT	NORTHING	EASTING
1	392,396.21	3,767,033.55
2	392,334.33	3,767,143.19
3	392,174.81	3,767,058.35
4	392,238.59	3,766,946.76

PORT SULPHUR
WATER TREATMENT
PLANT



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR LAYOUT
REACH 2 - LA 23 CROSSING

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DATE: MAR 2022

SHEET 11 OF 73

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730

APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

DESCRIPTION

DATE

REV.

BY

LEGEND

- DREDGE PIPELINE CORRIDOR

--- CONSTRUCTION EQUIPMENT STAGING AREA LIMITS

--- EXISTING STEEL CASING PIPE

□ FENCE

--- OHL --- OVERHEAD POWER LINE

--- GAS --- 6" GAS LINE (ATMOS)

--- WL --- 20" WATERLINE
- BRACED EXCAVATION

PROPOSED LAND-BASED BOOSTER PUMP LOCATION

TEMPORARY SPOIL

CULVERT - RCP

DRAIN BOX

DRAIN MAN HOLE

HYDRANT

POWER POLE

VALVE SIGN

NOTES:

- ALL WORK WILL BE COORDINATED WITH THE USACE NOV LEVEE PROJECT TEAM.
- BACKGROUND IMAGERY IS A 2016 GOOGLE EARTH IMAGE.

DREDGE PIPELINE CORRIDOR
AT THE NOV LEVEE

PT	NORTHING	EASTING
1	392,394.34	3,767,039.41
2	392,184.65	3,766,944.21
3	392,144.88	3,766,909.76
4	392,107.23	3,766,814.32
5	392,174.83	3,766,681.64

JEFFERSON CANAL

PROPOSED USACE NOV-NF-06A FLOOD
PROTECTION LEVEE CENTERLINE
(SEE NOTE 1)

SEE NOTE 2

LA 23 SOUTHBOUND LANE

TEMPORARY SPOIL 30' x 20'
MAX. EL. = 10.0'

REACH 2 END
REACH 3 START

USACE NOV-NF-06 FLOOD PROTECTION LEVEE
CROSSING (SEE DETAIL LC ON SHEET 32)

30' x 20' EXCAVATION WITH TEMPORARY RETAINING
STRUCTURE TO FACILITATE THE DREDGE PIPE
INSTALLATION (SEE DETAIL HC ON SHEET 34)

LEGEND

- DREDGE PIPELINE CORRIDOR
- EXISTING STEEL CASING PIPE
- FENCE
- PROPOSED USACE NOV-NF-06A FLOOD PROTECTION LEVEE CENTERLINE
- OVERHEAD POWER LINE
- BRACED EXCAVATION
- LAND-BASED BOOSTER PUMP LOCATION
- TEMPORARY SPOIL
- POWER POLE
- DRAIN BOX
- CULVERT - RCP
- DRAIN MAN HOLE
- VERIFIED OIL/GAS WELL



- NOTES:
- ALL WORK WITHIN THE VICINITY OF THE NOV LEVEE ALIGNMENT WILL BE COORDINATED WITH THE USACE NEW ORLEANS TO VENICE LEVEE PROJECT TEAM.
 - CONSTRUCTION OF THE NOV FLOOD PROTECTION LEVEE HAS BEGUN FOR THE REACH WITHIN JEFFERSON CANAL. SITE CONDITIONS MAY VARY FROM THE IMAGERY SHOWN ON THIS SHEET.

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DREDGE PIPELINE CORRIDOR LAYOUT
REACH 3 - LA 23 CROSSING
TO GRAND BAYOU

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 12 OF 73

DESCRIPTION

DATE

REV.

BY



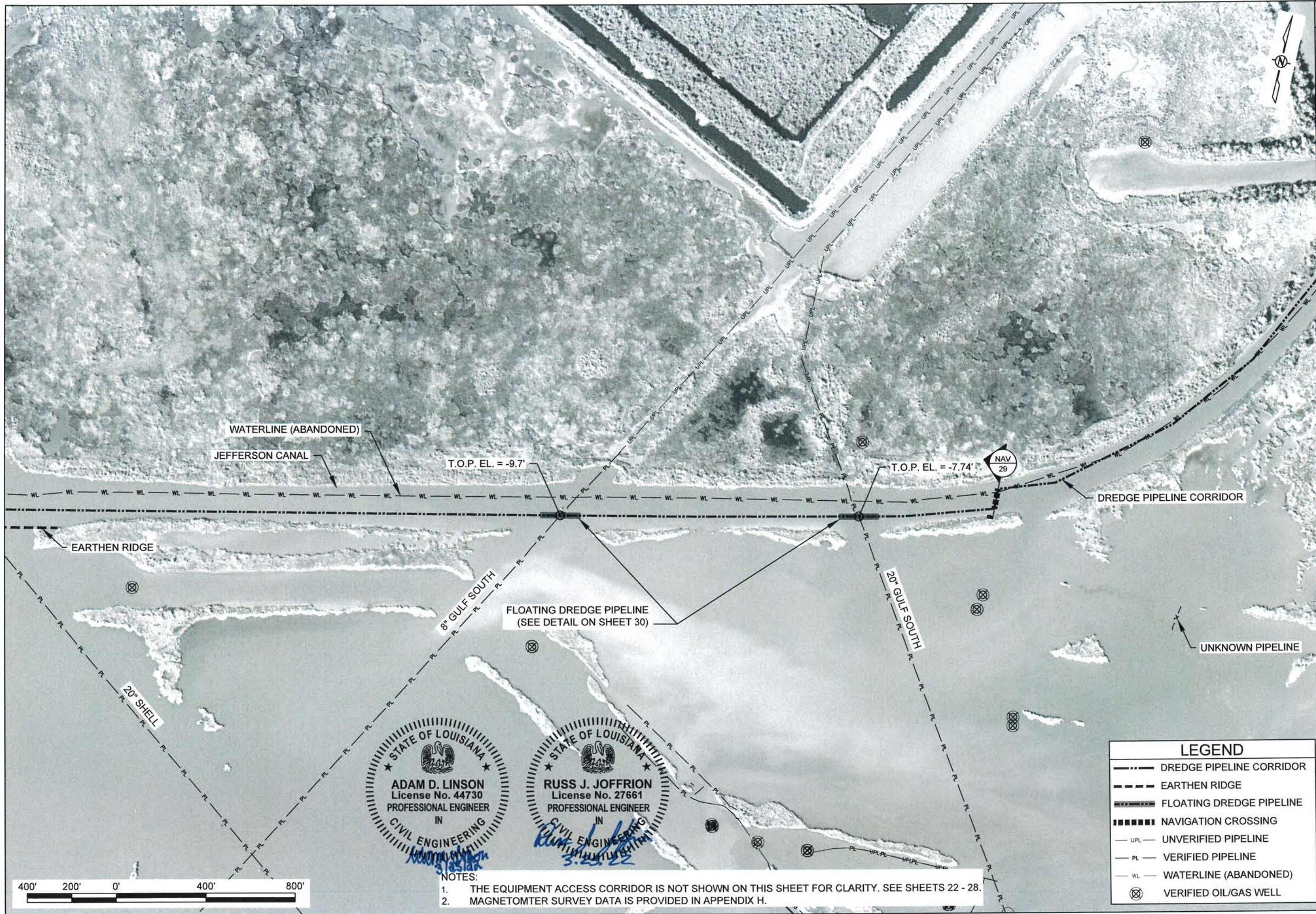
NOTES:

1. ALL WORK WITHIN THE VICINITY OF THE NOV LEVEE ALIGNMENT WILL BE COORDINATED WITH THE USACE NEW ORLEANS TO VENICE LEVEE PROJECT TEAM.



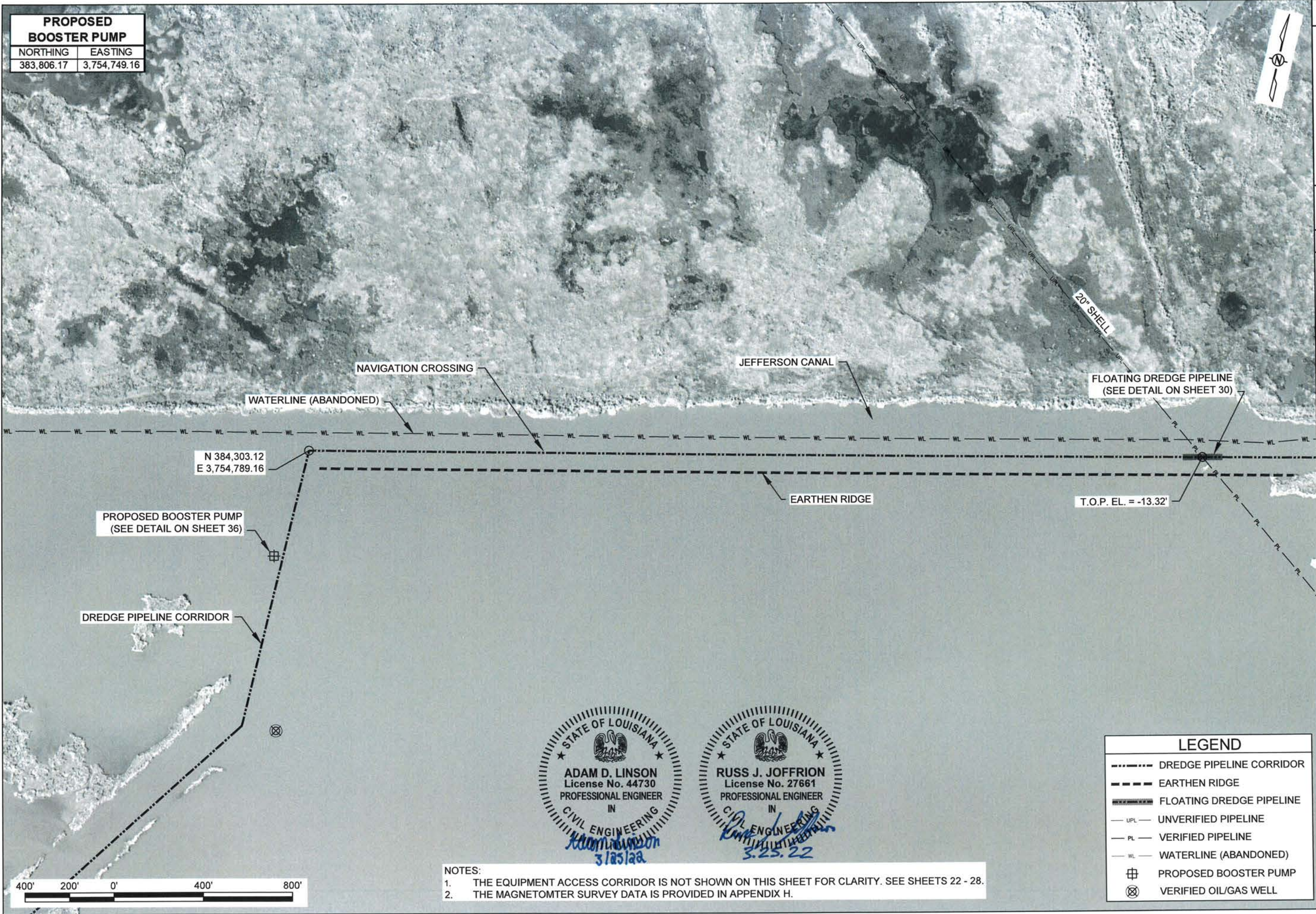
LEGEND	
	DREDGE PIPELINE CORRIDOR
	NAVIGATION CROSSING
	PROPOSED USACE NOV-NF-06A FLOOD PROTECTION LEVEE CENTERLINE
	UNVERIFIED PIPELINE
	WATERLINE (ABANDONED)
	VERIFIED OIL/GAS WELL

GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT		DREDGE PIPELINE CORRIDOR LAYOUT REACH 3 - JEFFERSON CANAL TO GRAND BAYOU		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802											
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730											
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661											
DATE: MAR. 2022												REV.	DATE	DESCRIPTION	BY
SHEET 13 OF 73															



DATE: MAR. 2022		COASTAL PROTECTION AND RESTORATION AUTHORITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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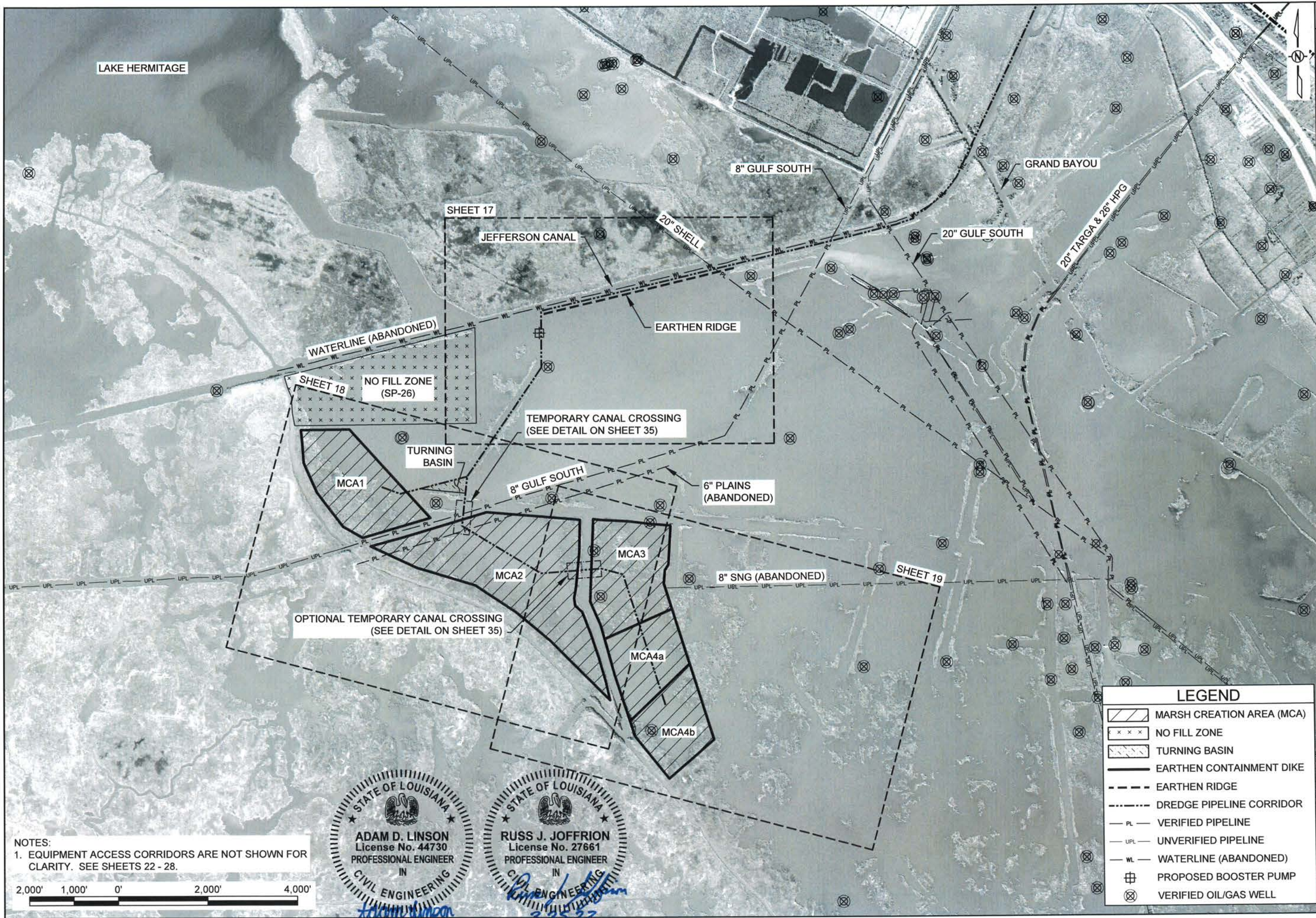
PROPOSED BOOSTER PUMP	
NORTHING	EASTING
383,806.17	3,754,749.16



- NOTES:
1. THE EQUIPMENT ACCESS CORRIDOR IS NOT SHOWN ON THIS SHEET FOR CLARITY. SEE SHEETS 22 - 28.
 2. THE MAGNETOMETER SURVEY DATA IS PROVIDED IN APPENDIX H.

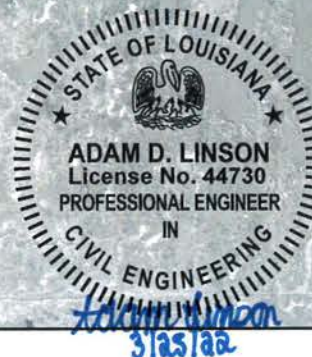
LEGEND	
	DREDGE PIPELINE CORRIDOR
	EARTHEN RIDGE
	FLOATING DREDGE PIPELINE
	UNVERIFIED PIPELINE
	VERIFIED PIPELINE
	WATERLINE (ABANDONED)
	PROPOSED BOOSTER PUMP
	VERIFIED OIL/GAS WELL

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	DREDGE PIPELINE CORRIDOR LAYOUT REACH 4 - GRAND BAYOU TO THE EARTHEN RIDGE	COASTAL PROTECTION AND RESTORATION AUTHORITY									
		150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-0240	DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730	REV.	DATE	DESCRIPTION	BY					
DRAWN BY: K. CANTU	APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661									
DATE: MAR. 2022											
SHEET 15 OF 73											



NOTES:
1. EQUIPMENT ACCESS CORRIDORS ARE NOT SHOWN FOR CLARITY. SEE SHEETS 22 - 28.

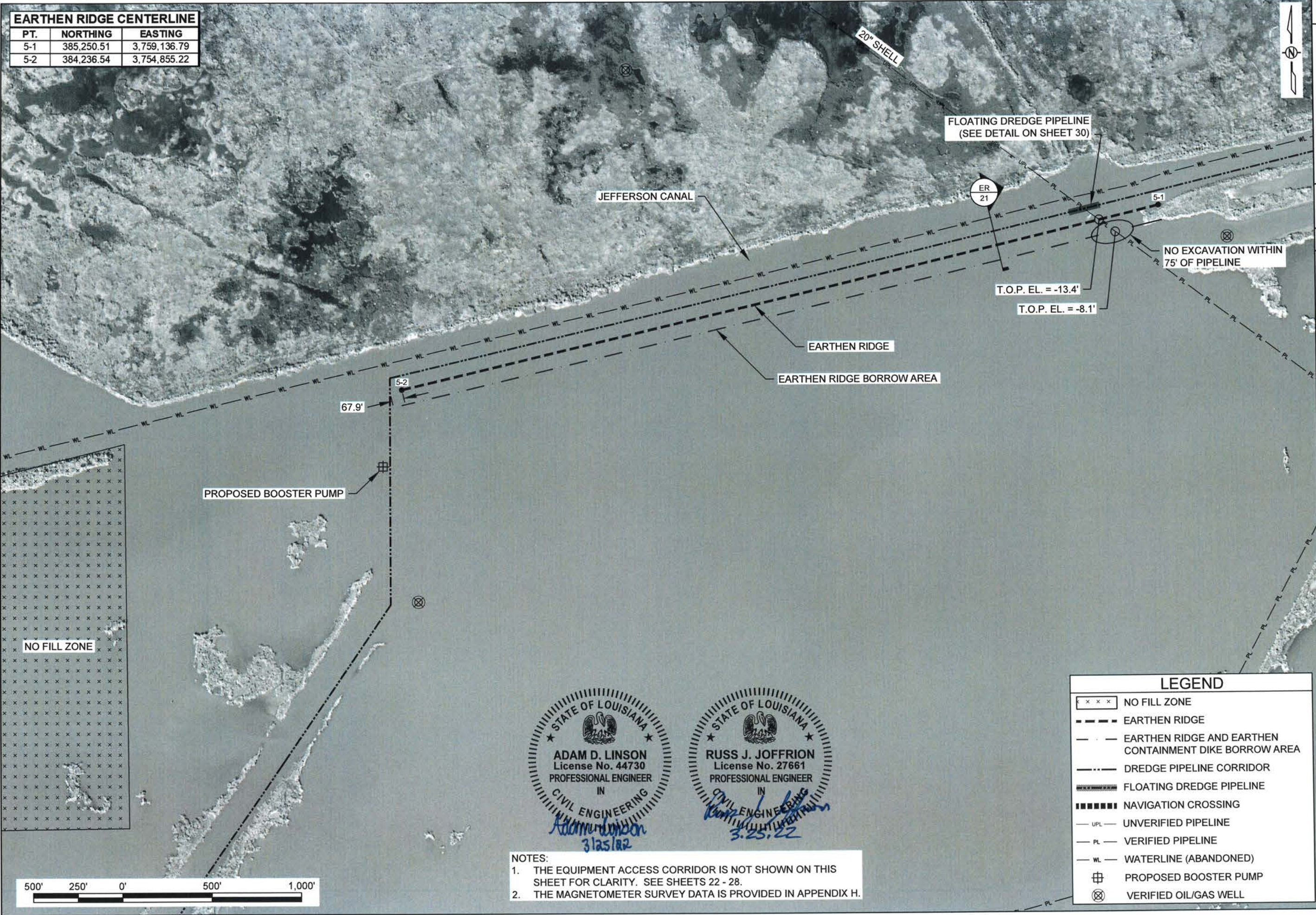
2,000' 1,000' 0' 2,000' 4,000'



LEGEND	
	MARSH CREATION AREA (MCA)
	NO FILL ZONE
	TURNING BASIN
	EARTHEN CONTAINMENT DIKE
	EARTHEN RIDGE
	DREDGE PIPELINE CORRIDOR
	VERIFIED PIPELINE
	UNVERIFIED PIPELINE
	WATERLINE (ABANDONED)
	PROPOSED BOOSTER PUMP
	VERIFIED OIL/GAS WELL

COASTAL PROTECTION AND RESTORATION AUTHORITY		DATE	DESCRIPTION	BY
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802				
MARSH CREATION AREA OVERALL LAYOUT		DESIGNED BY:	P.E. NO.	
		A. LINSON, P.E.	44730	
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		APPROVED BY:	P.E. NO.	
		R. JOFFRION, P.E.	27661	
		STATE PROJECT NUMBER:	BA-0240	
		DRAWN BY:	K. CANTU	
		DATE:	MAR 2022	
		SHEET 16 OF 73		

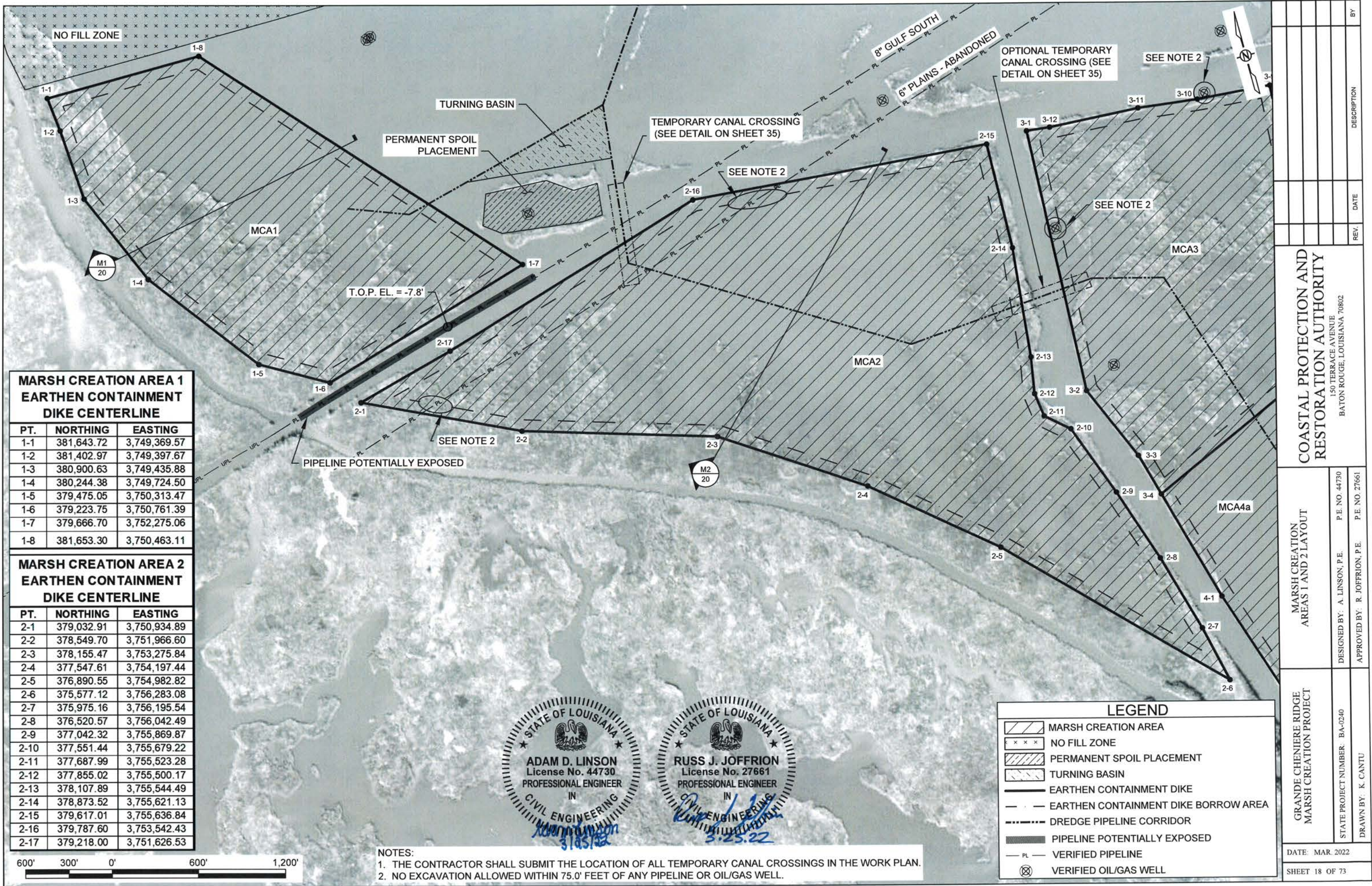
EARTHEN RIDGE CENTERLINE		
PT.	NORTHING	EASTING
5-1	385,250.51	3,759,136.79
5-2	384,236.54	3,754,855.22



- NOTES:
1. THE EQUIPMENT ACCESS CORRIDOR IS NOT SHOWN ON THIS SHEET FOR CLARITY. SEE SHEETS 22 - 28.
 2. THE MAGNETOMETER SURVEY DATA IS PROVIDED IN APPENDIX H.

LEGEND	
	NO FILL ZONE
	EARTHEN RIDGE
	EARTHEN RIDGE AND EARTHEN CONTAINMENT DIKE BORROW AREA
	DREDGE PIPELINE CORRIDOR
	FLOATING DREDGE PIPELINE
	NAVIGATION CROSSING
	UNVERIFIED PIPELINE
	VERIFIED PIPELINE
	WATERLINE (ABANDONED)
	PROPOSED BOOSTER PUMP
	VERIFIED OIL/GAS WELL

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		EARTHEN RIDGE LAYOUT		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802							
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730							
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661							
DATE: MAR. 2022						REV.		DATE		DESCRIPTION	
SHEET 17 OF 73										BY	





MARSH CREATION AREA 3
EARTHEN CONTAINMENT
DIKE CENTERLINE

PT.	NORTHING	EASTING
3-1	379,629.47	3,755,935.24
3-2	377,777.93	3,755,857.18
3-3	377,247.48	3,756,087.66
3-4	376,946.55	3,756,169.86
3-5	377,612.10	3,757,689.98
3-6	378,174.76	3,757,510.81
3-7	378,483.38	3,757,539.07
3-8	378,603.07	3,757,618.24
3-9	379,478.59	3,757,671.91
3-10	379,521.82	3,757,156.12
3-11	379,574.37	3,756,735.92
3-12	379,610.39	3,756,099.34

MARSH CREATION AREA 4a
EARTHEN CONTAINMENT
DIKE CENTERLINE

PT.	NORTHING	EASTING
3-4	376,946.55	3,756,169.86
4-1	376,150.26	3,756,387.39
4-2	375,106.78	3,756,727.83
4-3	376,385.35	3,758,082.12
3-5	377,612.10	3,757,689.98

MARSH CREATION AREA 4b
EARTHEN CONTAINMENT
DIKE CENTERLINE

PT.	NORTHING	EASTING
4-2	375,106.78	3,756,727.83
4-3	376,385.35	3,758,082.12
4-4	374,690.58	3,758,623.21
4-5	373,818.61	3,757,603.93
4-6	374,767.99	3,756,838.36

- NOTES:
1. THE CONTRACTOR SHALL SUBMIT THE LOCATION OF ALL TEMPORARY CANAL CROSSINGS IN THE WORK PLAN.
 2. NO EXCAVATION ALLOWED WITHIN 75.0' FEET OF ANY PIPELINE OR OIL/GAS WELL.

LEGEND

- MARSH CREATION AREA
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- DREDGE PIPELINE CORRIDOR
- PL VERIFIED PIPELINE
- VERIFIED OIL/GAS WELL

STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/15/22

STATE OF LOUISIANA
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3.25.22

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION
AREAS 3 AND 4 LAYOUT

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DATE: MAR. 2022
SHEET 19 OF 73

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

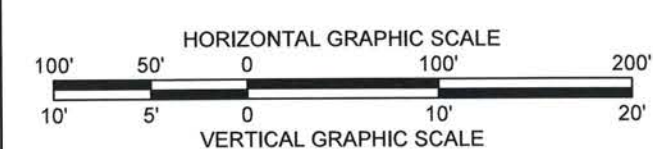
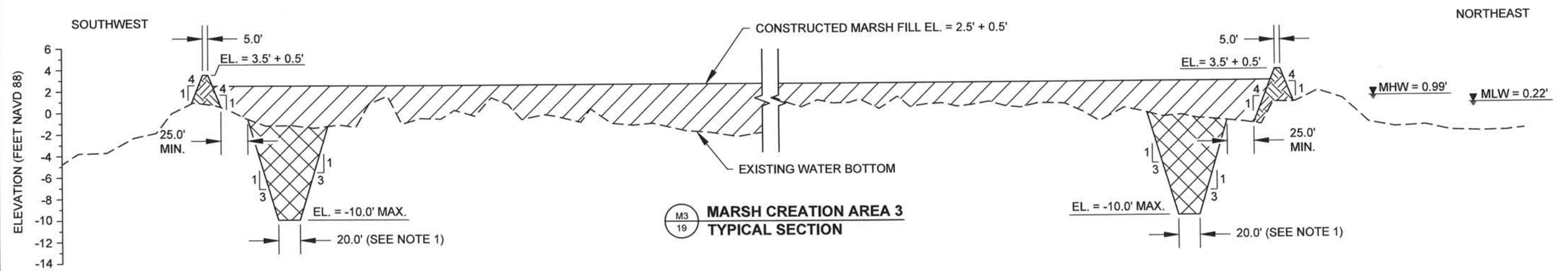
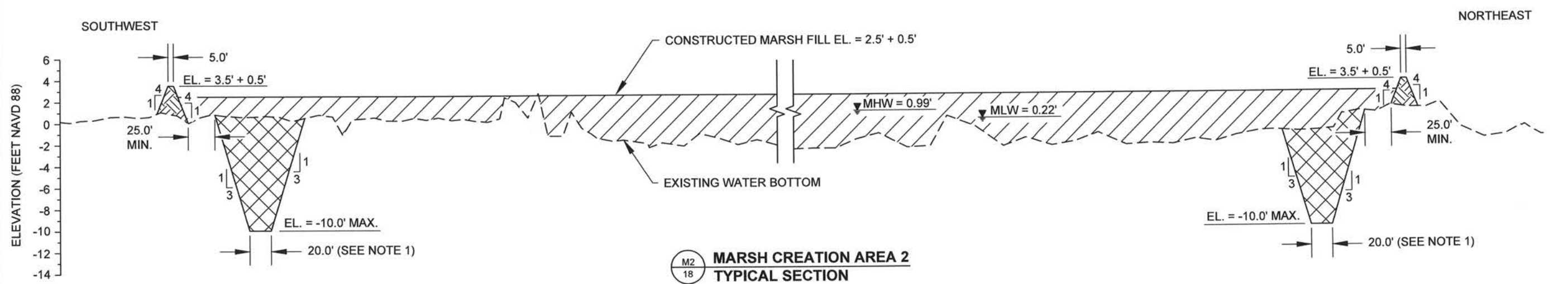
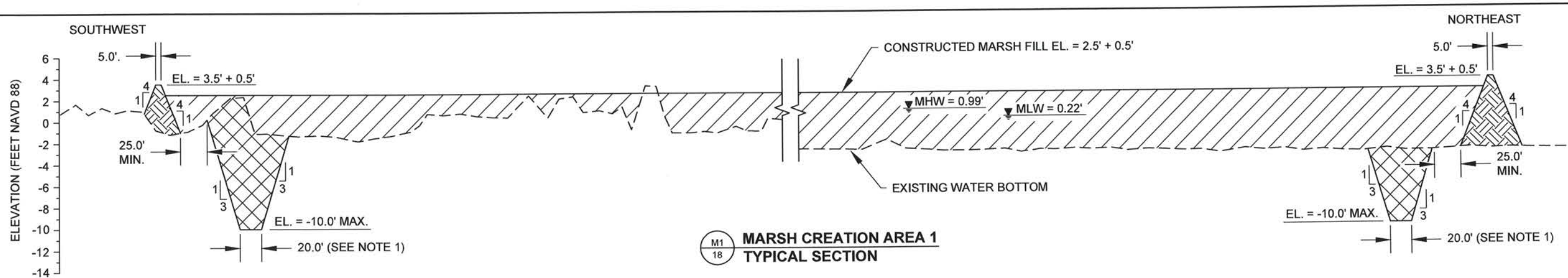
STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

BY

DESCRIPTION

DATE

REV.



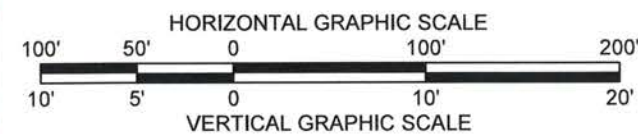
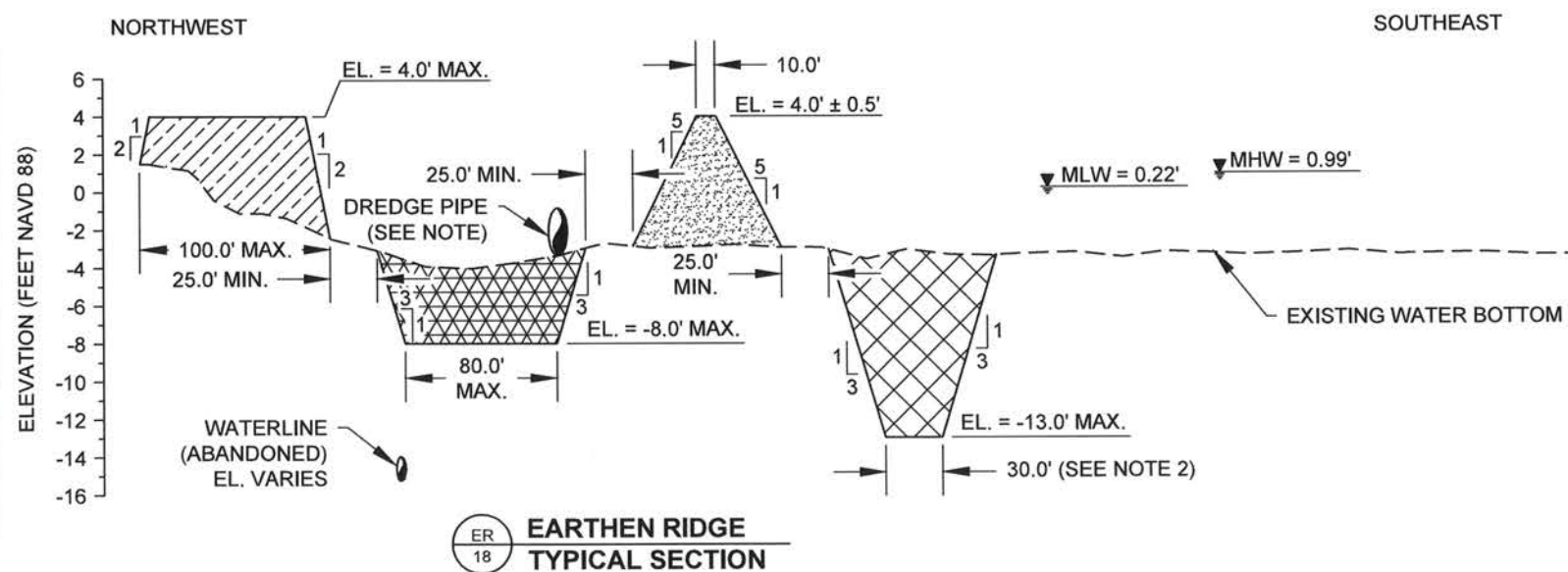
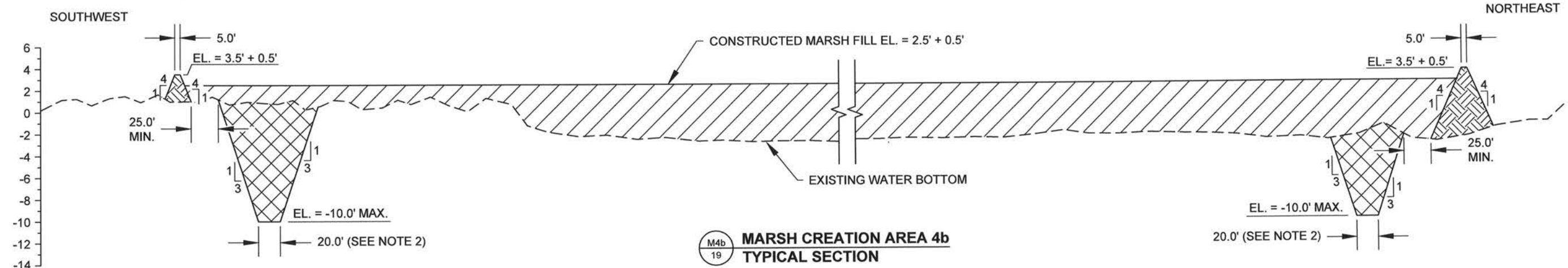
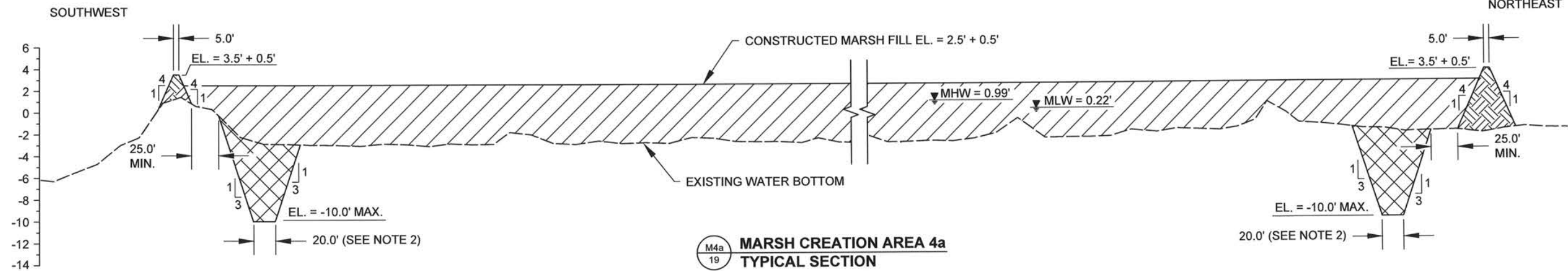
STATE OF LOUISIANA
 ADAM D. LINSON
 License No. 44730
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
 3/25/22

STATE OF LOUISIANA
 RUSS J. JOFFRION
 License No. 27661
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
 3-25-22

NOTES:
 1. THE DIMENSION SHOWN FOR THE BOTTOM WIDTH OF THE EARTHEN CONTAINMENT DIKE BORROW AREA IS FOR INFORMATIONAL PURPOSES ONLY AND VARIES.

LEGEND	
	BORROW AREA
	EARTHEN CONTAINMENT DIKE
	MARSH CREATION FILL
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	TYPICAL MARSH CREATION AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. APPROVED BY: R. JOFFRION, P.E. DRAWN BY: K. CANTU	P.E. NO. 44730 P.E. NO. 27661	BY
				DESCRIPTION
				DATE
				REV.
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DATE: MAR. 2022	SHEET 20 OF 73	



- NOTES:
1. THE CONTRACTOR SHALL INCLUDE IN THE WORK PLAN THE MEANS AND METHODS FOR DREDGE PIPE PLACEMENT WITHIN THE DREDGE PIPELINE CORRIDOR.
 2. THE DIMENSION SHOWN FOR THE BOTTOM WIDTH OF THE EARTHEN CONTAINMENT DIKE AND EARTHEN RIDGE BORROW AREA IS FOR INFORMATIONAL PURPOSES ONLY AND VARIES.



LEGEND	
	EARTHEN CONTAINMENT DIKE
	EARTHEN RIDGE
	EARTHEN CONTAINMENT DIKE/EARTHEN RIDGE BORROW AREA
	MARSH CREATION FILL
	POTENTIAL EQUIPMENT ACCESS DREDGING
	PERMANENT SPOIL
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL MARSH CREATION
AREA AND EARTHEN
RIDGE SECTIONS

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

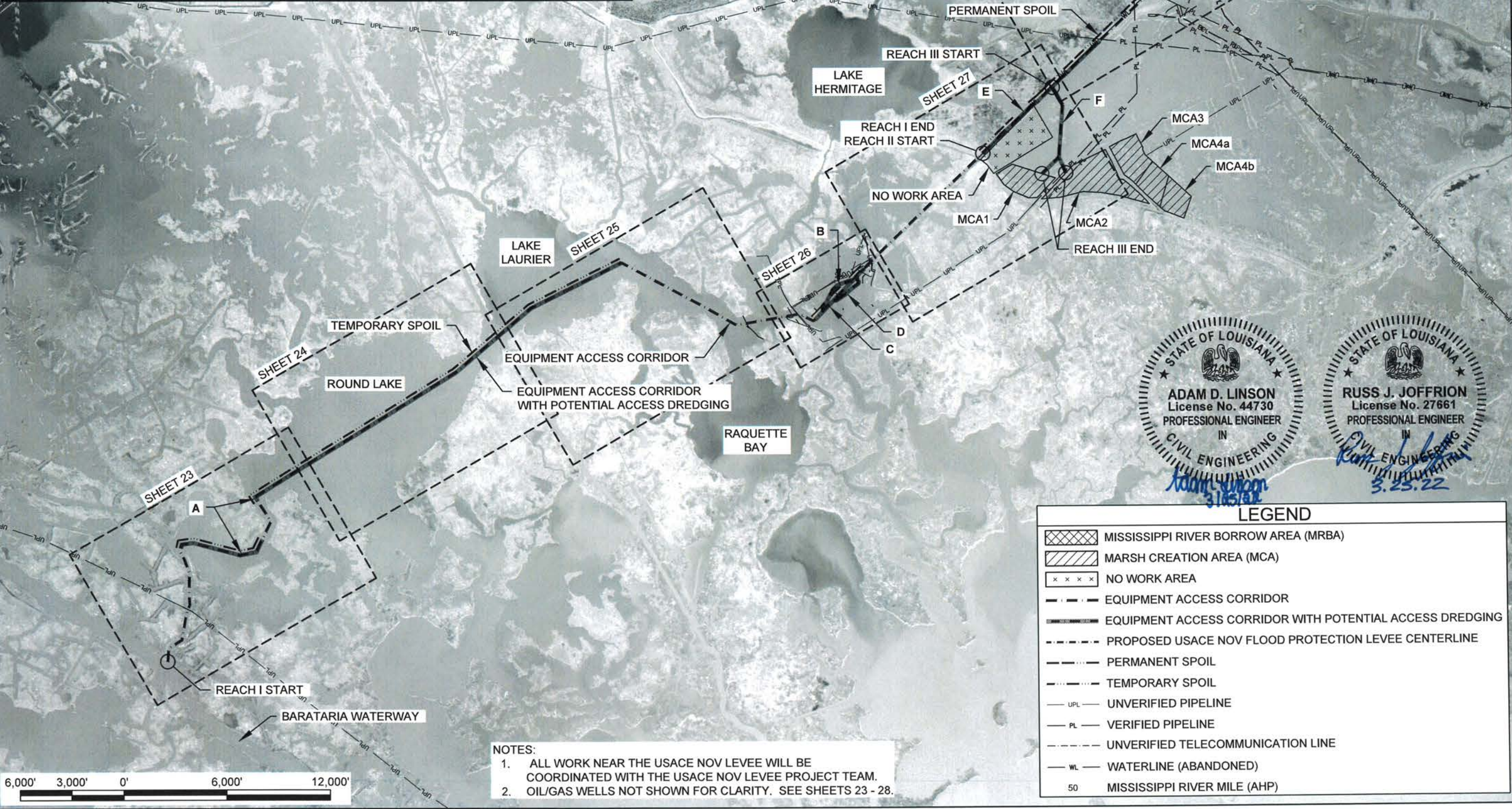
DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR. 2022
SHEET 21 OF 73

ESTIMATED ACCESS DREDGE QUANTITIES				
REACH		AREA	TOTAL VOLUME OF FLOATATION DREDGE (CY)	TOTAL LENGTH OF FLOATATION DREDGE (LF)
I	A	WESTERN ACCESS ROUTE	330,190	31,670
	B	UNNAMED LAKE NORTH ROUTE	64,810	4,430
	C	UNNAMED LAKE CENTRAL ROUTE	58,470	4,170
	D	UNNAMED LAKE SOUTHERN ROUTE	69,070	4,460
II	E	JEFFERSON CANAL	126,540	9,560
III	F	DPC FROM JEFFERSON CANAL TO MCAS	131,330	6,640
MAXIMUM POTENTIAL TOTALS¹			657,130	52,330

NOTES:
1. ACCOUNTS FOR THE ROUTE THROUGH THE UNNAMED LAKE THAT REQUIRES THE MOST CY OF ACCESS DREDGING.
2. SEE SHEET 29 FOR EQUIPMENT ACCESS CORRIDOR TYPICAL SECTIONS.



NOTES:
1. ALL WORK NEAR THE USACE NOV LEVEE WILL BE COORDINATED WITH THE USACE NOV LEVEE PROJECT TEAM.
2. OIL/GAS WELLS NOT SHOWN FOR CLARITY. SEE SHEETS 23 - 28.

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	MARSH CREATION AREA (MCA)
	NO WORK AREA
	EQUIPMENT ACCESS CORRIDOR
	EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
	PROPOSED USACE NOV FLOOD PROTECTION LEVEE CENTERLINE
	PERMANENT SPOIL
	TEMPORARY SPOIL
	UNVERIFIED PIPELINE
	VERIFIED PIPELINE
	UNVERIFIED TELECOMMUNICATION LINE
	WATERLINE (ABANDONED)
50	MISSISSIPPI RIVER MILE (AHP)

COASTAL PROTECTION AND RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EQUIPMENT ACCESS CORRIDOR OVERALL PLAN VIEW

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT

DATE: MAR. 2022

SHEET 22 OF 73

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

REV. DATE DESCRIPTION BY



1,000' 500' 0' 1,000' 2,000'

NOTES:
1. TEMPORARY SPOIL SHALL HAVE A 50-FT GAP EVERY 1,000 FEET.

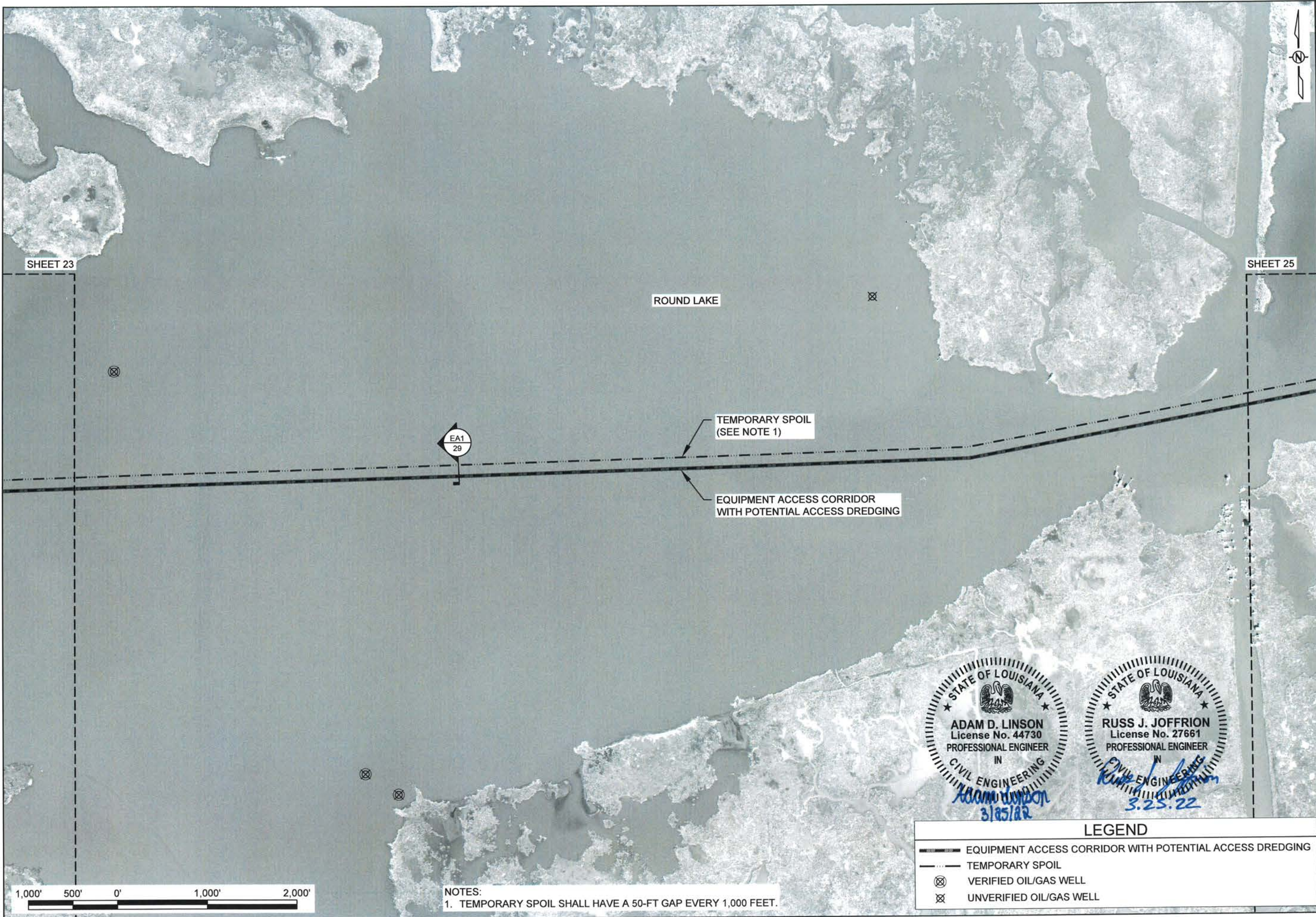


LEGEND

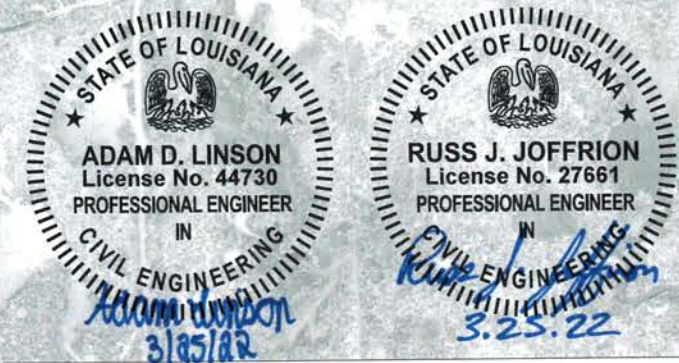
- EQUIPMENT ACCESS CORRIDOR
- EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
- PL — VERIFIED PIPELINE
- UPL — UNVERIFIED PIPELINE
- TEMPORARY SPOIL
- ⊗ VERIFIED OIL/GAS WELL
- ⊗ UNVERIFIED OIL/GAS WELL

SHEET 24

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR PLAN VIEW		DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730			
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
STATE PROJECT NUMBER: BA-0240		DRAWN BY: K. CANTU			
DATE: MAR. 2022					
SHEET 23 OF 73					

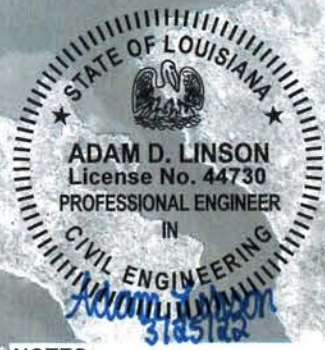
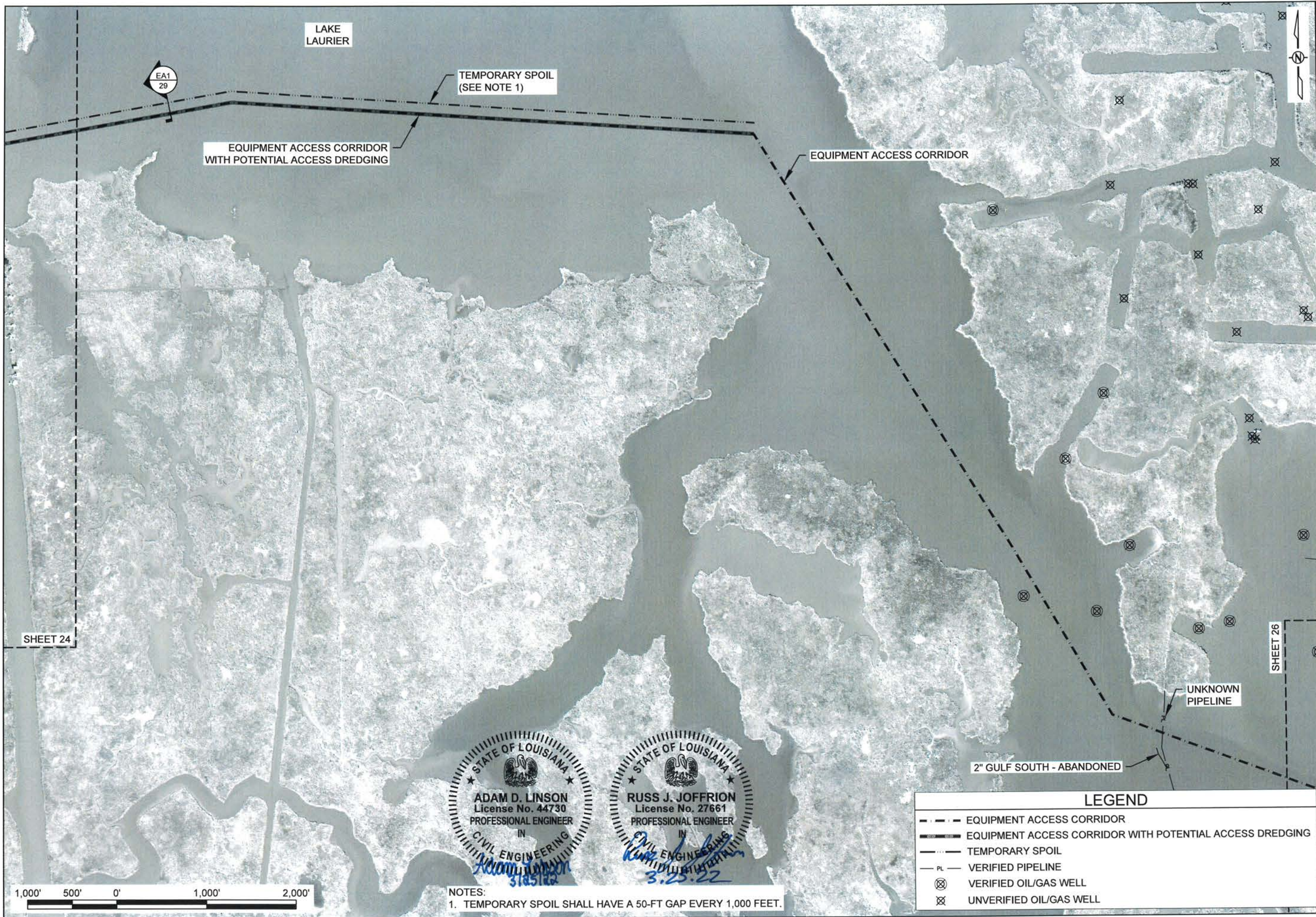


NOTES:
1. TEMPORARY SPOIL SHALL HAVE A 50-FT GAP EVERY 1,000 FEET.



LEGEND	
	EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
	TEMPORARY SPOIL
	VERIFIED OIL/GAS WELL
	UNVERIFIED OIL/GAS WELL

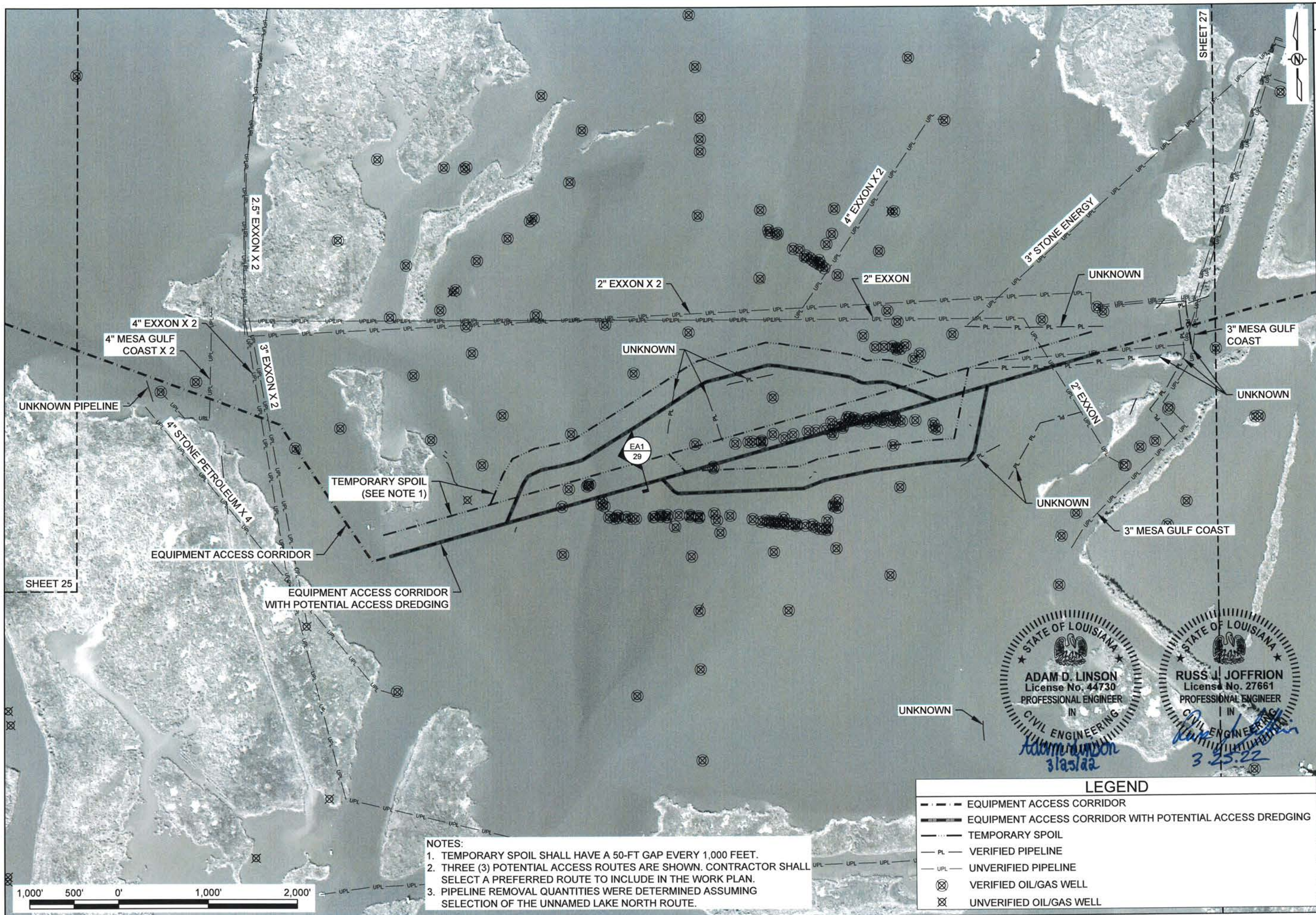
DATE: MAR 2022		EQUIPMENT ACCESS CORRIDOR PLAN VIEW		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802													
SHEET 24 OF 73																	
GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT				DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730											
STATE PROJECT NUMBER: BA-0240				APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661											
DRAWN BY: K. CANTU																	
														REV.	DATE	DESCRIPTION	BY



NOTES:
1. TEMPORARY SPOIL SHALL HAVE A 50-FT GAP EVERY 1,000 FEET.

LEGEND	
	EQUIPMENT ACCESS CORRIDOR
	EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
	TEMPORARY SPOIL
	VERIFIED PIPELINE
	VERIFIED OIL/GAS WELL
	UNVERIFIED OIL/GAS WELL

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR PLAN VIEW		DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730 APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240 DRAWN BY: K. CANTU			
		DATE: MAR. 2022			
		SHEET 25 OF 73			



- NOTES:
- 1. TEMPORARY SPOIL SHALL HAVE A 50-FT GAP EVERY 1,000 FEET.
 - 2. THREE (3) POTENTIAL ACCESS ROUTES ARE SHOWN. CONTRACTOR SHALL SELECT A PREFERRED ROUTE TO INCLUDE IN THE WORK PLAN.
 - 3. PIPELINE REMOVAL QUANTITIES WERE DETERMINED ASSUMING SELECTION OF THE UNNAMED LAKE NORTH ROUTE.

LEGEND	
	EQUIPMENT ACCESS CORRIDOR
	EQUIPMENT ACCESS CORRIDOR WITH POTENTIAL ACCESS DREDGING
	TEMPORARY SPOIL
	VERIFIED PIPELINE
	UNVERIFIED PIPELINE
	VERIFIED OIL/GAS WELL
	UNVERIFIED OIL/GAS WELL

STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/23/22

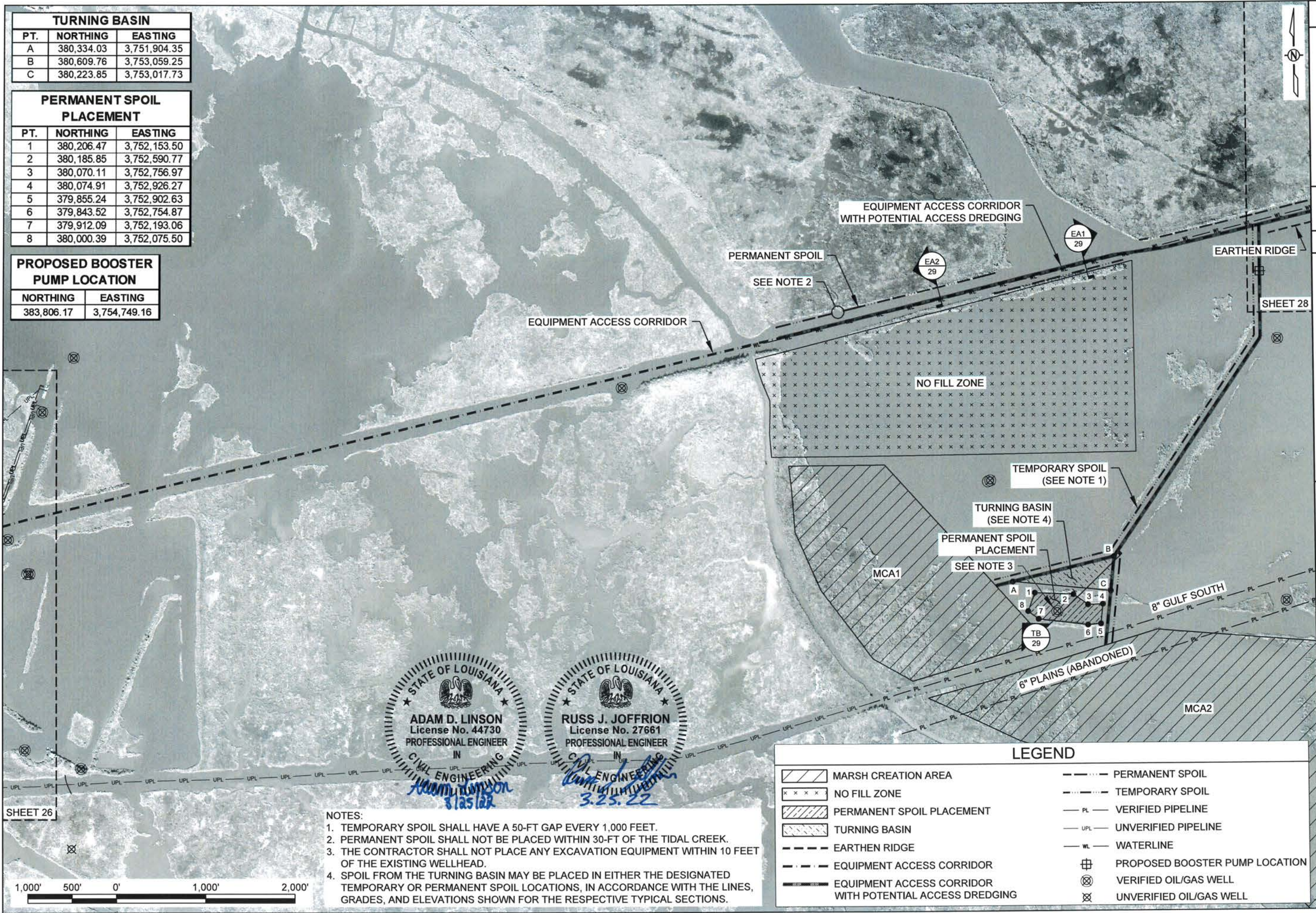
STATE OF LOUISIANA
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3.25.22

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR PLAN VIEW		DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730			
		APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240			
		DRAWN BY: K. CANTU			
		DATE: MAR. 2022			
		SHEET 26 OF 73			

TURNING BASIN		
PT.	NORTHING	EASTING
A	380,334.03	3,751,904.35
B	380,609.76	3,753,059.25
C	380,223.85	3,753,017.73

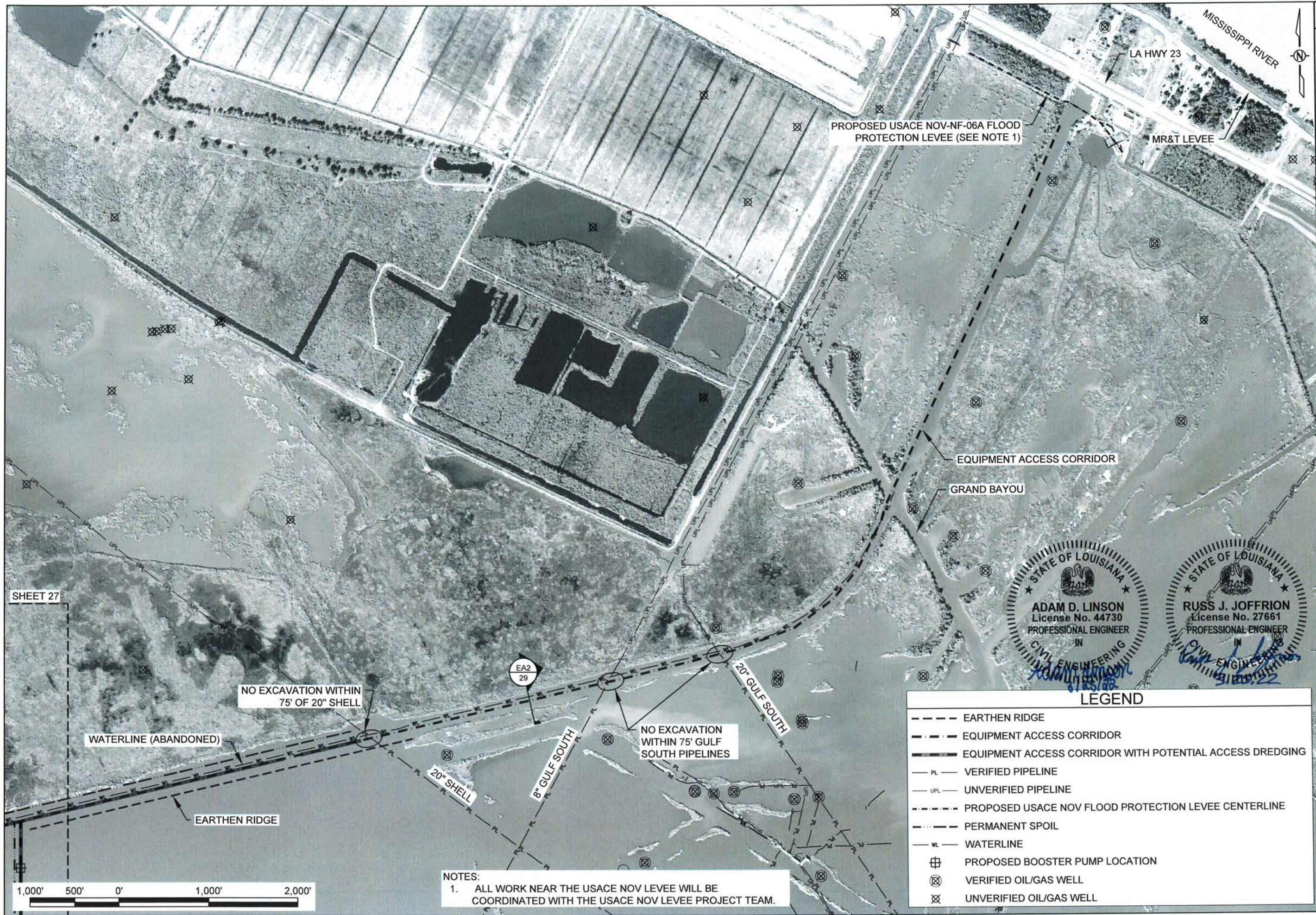
PERMANENT SPOIL PLACEMENT		
PT.	NORTHING	EASTING
1	380,206.47	3,752,153.50
2	380,185.85	3,752,590.77
3	380,070.11	3,752,756.97
4	380,074.91	3,752,926.27
5	379,855.24	3,752,902.63
6	379,843.52	3,752,754.87
7	379,912.09	3,752,193.06
8	380,000.39	3,752,075.50

PROPOSED BOOSTER PUMP LOCATION	
NORTHING	EASTING
383,806.17	3,754,749.16



- NOTES:
1. TEMPORARY SPOIL SHALL HAVE A 50-FT GAP EVERY 1,000 FEET.
 2. PERMANENT SPOIL SHALL NOT BE PLACED WITHIN 30-FT OF THE TIDAL CREEK.
 3. THE CONTRACTOR SHALL NOT PLACE ANY EXCAVATION EQUIPMENT WITHIN 10 FEET OF THE EXISTING WELLHEAD.
 4. SPOIL FROM THE TURNING BASIN MAY BE PLACED IN EITHER THE DESIGNATED TEMPORARY OR PERMANENT SPOIL LOCATIONS, IN ACCORDANCE WITH THE LINES, GRADES, AND ELEVATIONS SHOWN FOR THE RESPECTIVE TYPICAL SECTIONS.

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR PLAN VIEW	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730	
		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661	
		STATE PROJECT NUMBER: BA-0240		DRAWN BY: K. CANTU	
		DATE: MAR 2022		SHEET 27 OF 73	

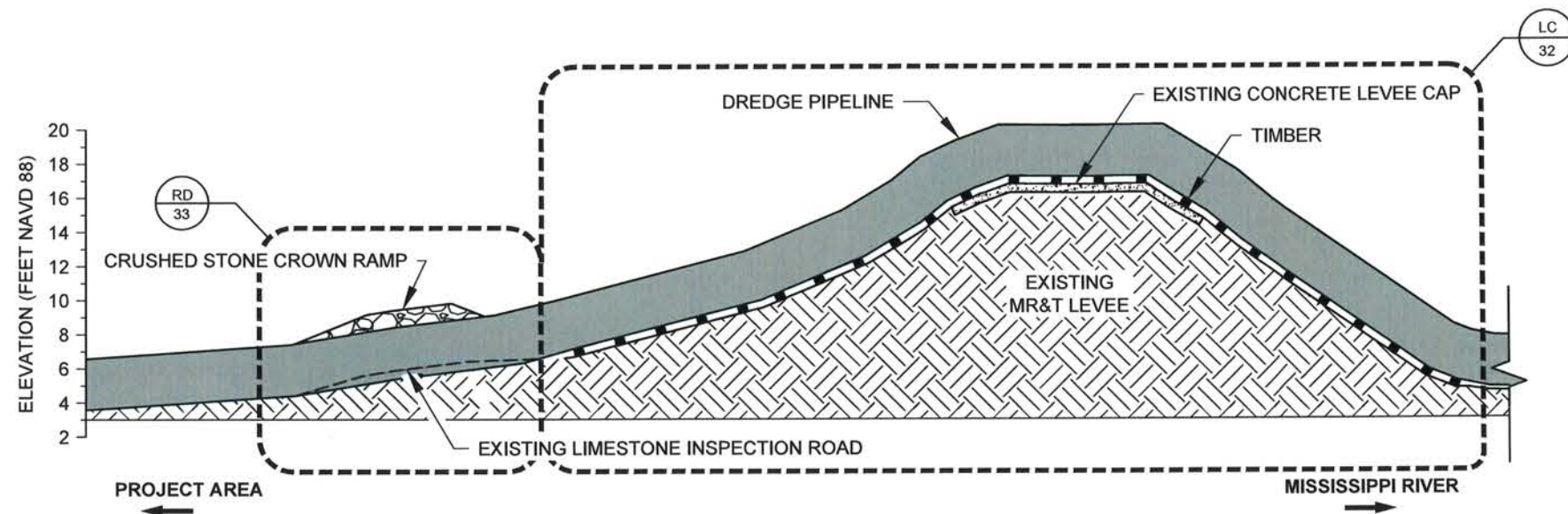


COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802				REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR PLAN VIEW							
GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT							
STATE PROJECT NUMBER: BA-0240				DESIGNED BY: A. LINSON, P.E.			
DRAWN BY: K. CANTU				APPROVED BY: R. JOFFRION, P.E.			
DATE: MAR 2022				P.E. NO. 44730			
SHEET 28 OF 73				P.E. NO. 27661			

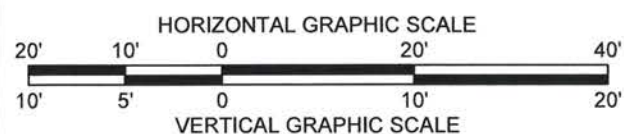


NOTES:
1. MINIMUM PIPELINE OFFSET DISTANCES MAY VARY BASED ON PRODUCT TYPE AND PIPELINE OWNER/OPERATOR SPECIFICATIONS.

[illegible]

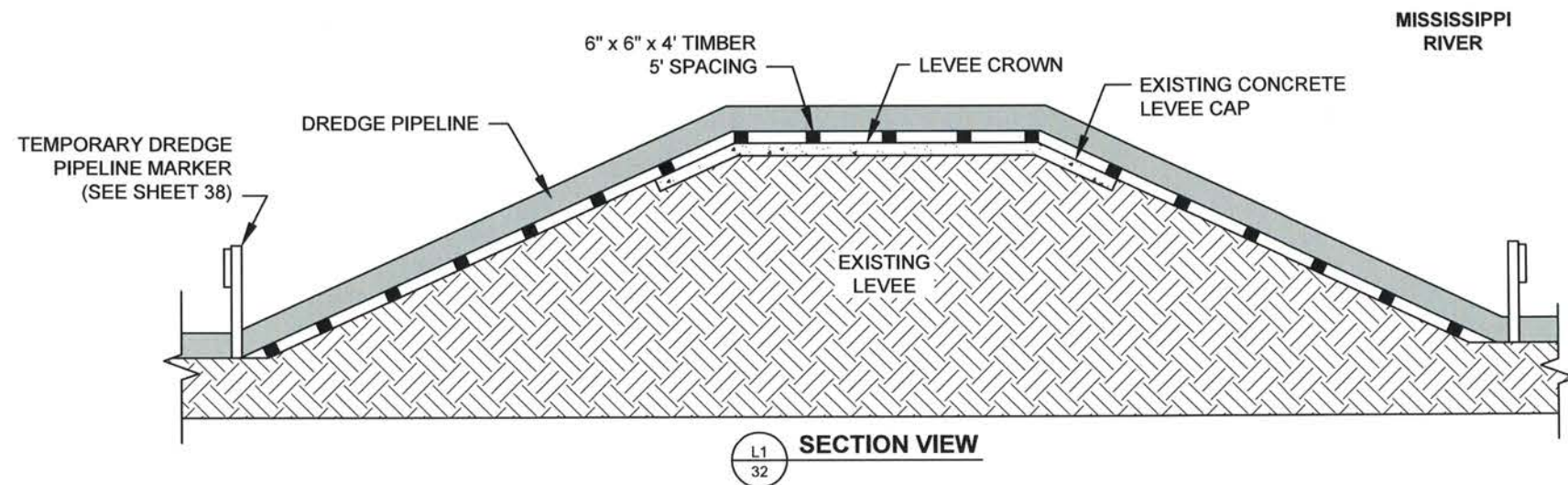
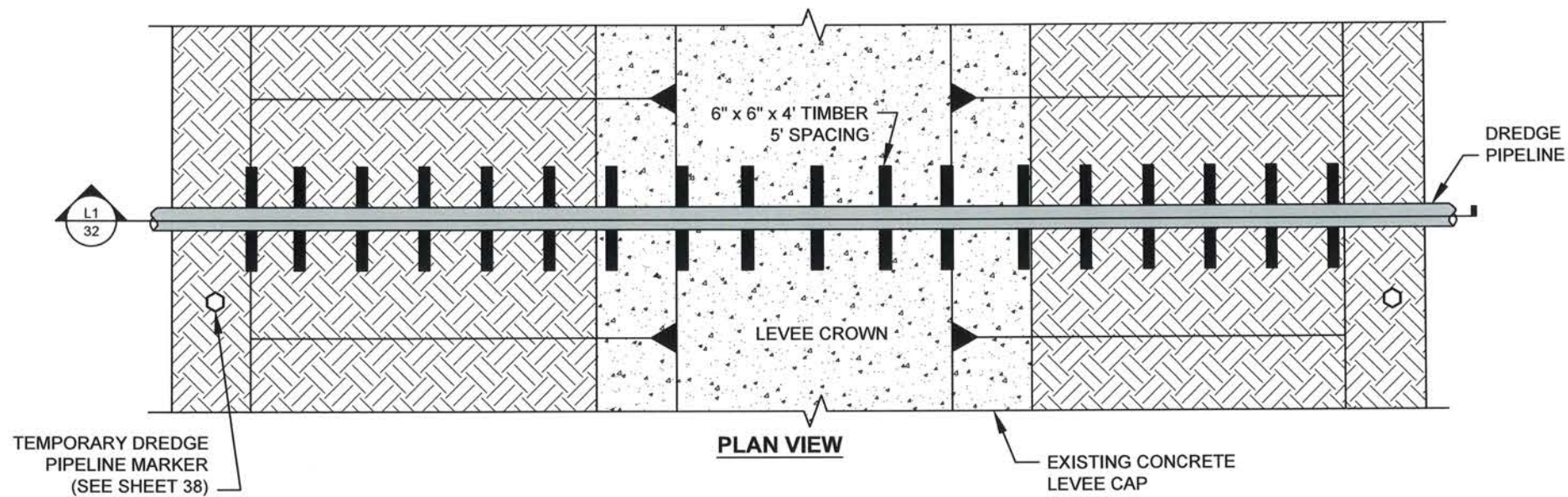


MISSISSIPPI RIVER LEVEE AND ADJACENT LIMESTONE ROAD CROSSING SECTION



LEGEND	
	MISSISSIPPI RIVER LEVEE
	LIMESTONE ROAD
	CONCRETE LEVEE CAP
	EXISTING GROUND
	TIMBER

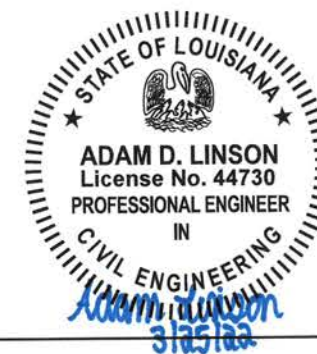
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	SHEET 31 OF 73			
				TYPICAL MISSISSIPPI RIVER LEVEE SECTION			
				DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730 APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
				COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802			
				REV.	DATE	DESCRIPTION	BY



LC
12.31 MISSISSIPPI RIVER AND TRIBUTARY (MR&T) AND
NEW ORLEANS TO VENICE (NOV) LEVEE CROSSING
NOT TO SCALE

NOTES:

1. TEMPORARY PIPELINE MARKERS INDICATING CONTRACTOR, CONTENTS, AND ADDRESS FOR CONTACTING CONTRACTOR SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR THE DREDGE PIPELINE.



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MISSISSIPPI RIVER LEVEE AND
NOV FLOOD PROTECTION
LEVEE CROSSING DETAILS

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661
STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR. 2022

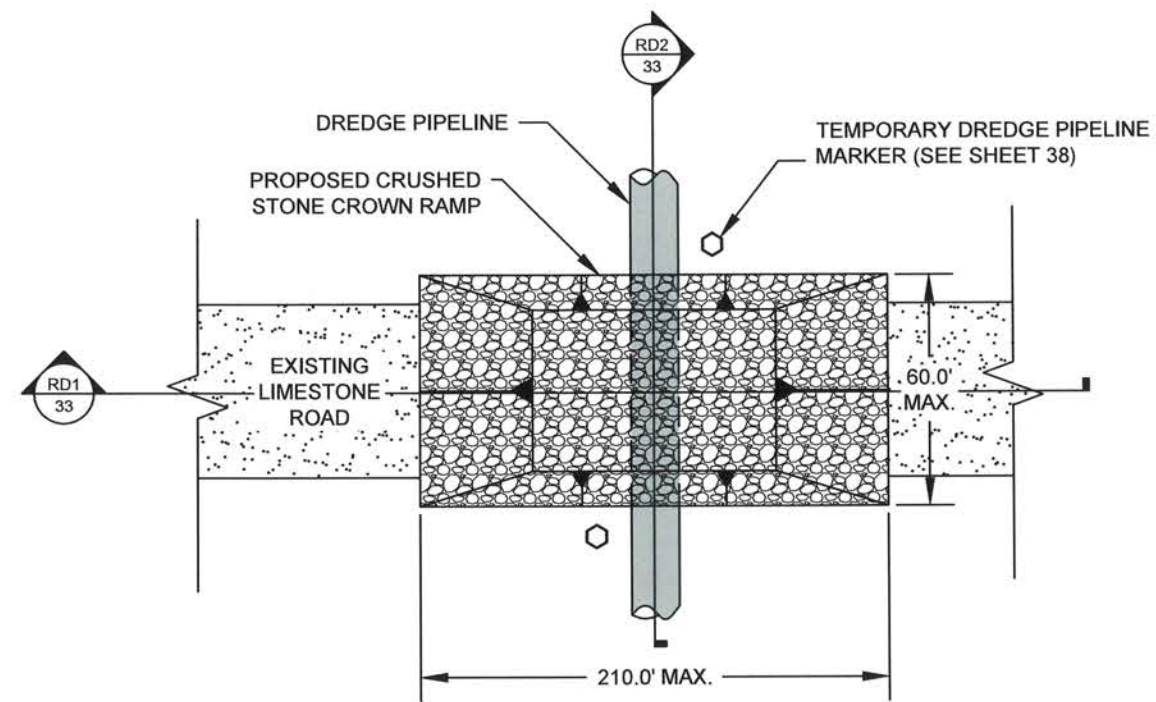
SHEET 32 OF 73

BY

DESCRIPTION

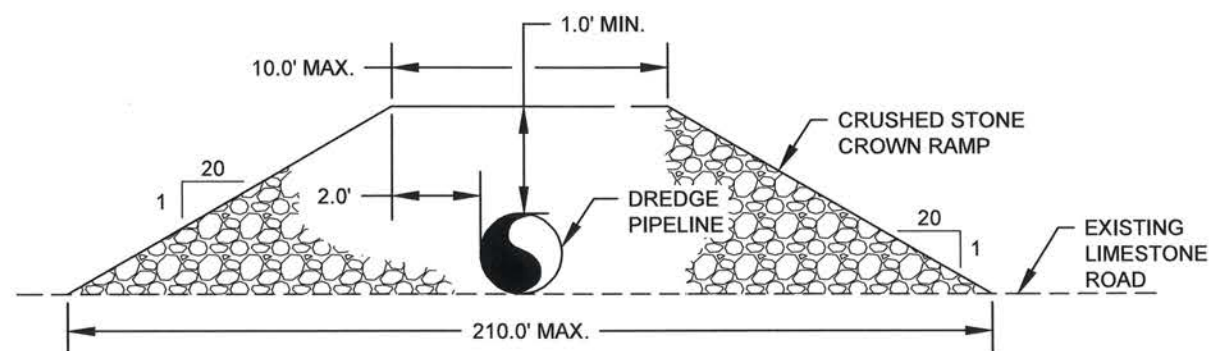
DATE

REV.

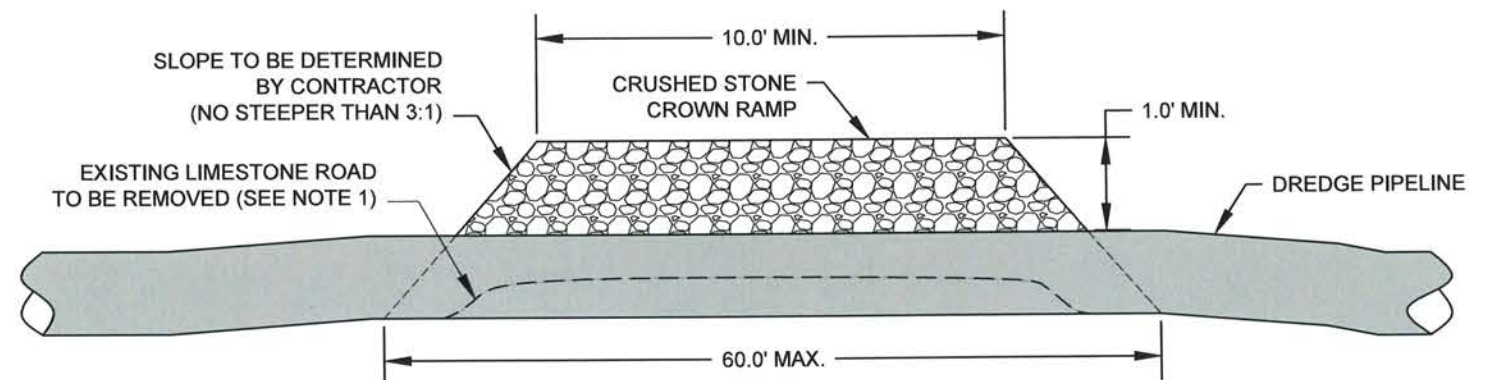


PLAN VIEW

RD 31
LIMESTONE ROAD CROSSING
NOT TO SCALE



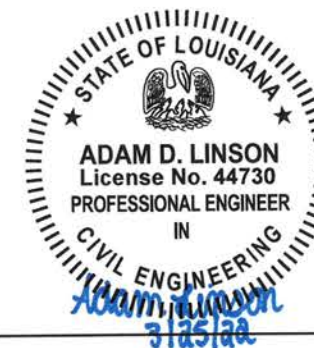
RD1 33
LIMESTONE ROAD CROSSING SECTION
NOT TO SCALE



RD2 33
LIMESTONE ROAD CROSSING PROFILE
NOT TO SCALE

NOTES:

1. THE EXISTING LIMESTONE INSPECTION ROAD MAY BE REMOVED FOR DREDGE PIPELINE PLACEMENT AND BACKFILLED AS SHOWN ON THE CROSSING DETAILS. AFTER THE REMOVAL OF DREDGE PIPE, THE ROAD SHALL BE REBUILT TO PRIOR CONDITIONS.
2. THE CROWN RAMP OVER THE DREDGE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LADOTD 2016 STANDARD SPECIFICATION 1003.05.1.
3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE CROSSING NEAR DREDGE PIPELINE.



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

LIMESTONE ROAD
CROSSING DETAILS

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

DATE: MAR. 2022

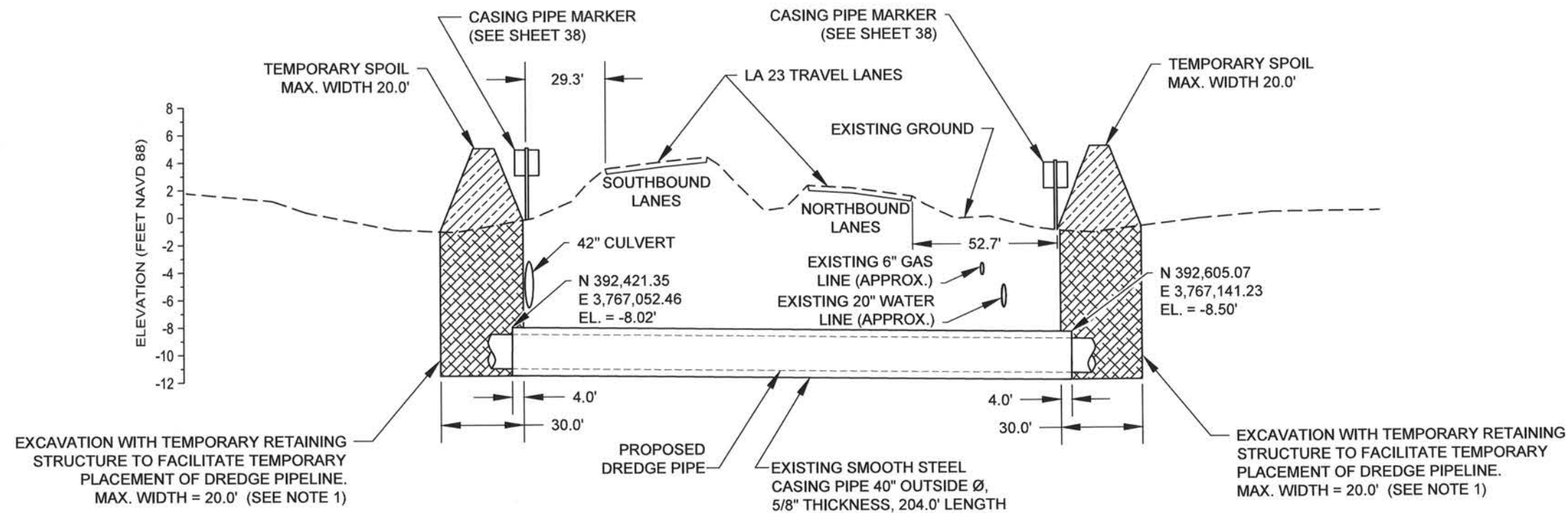
SHEET 33 OF 73

BY

DESCRIPTION

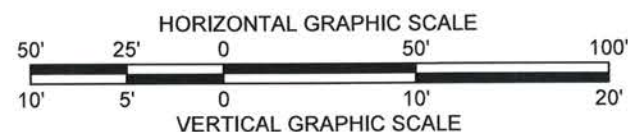
DATE

REV.



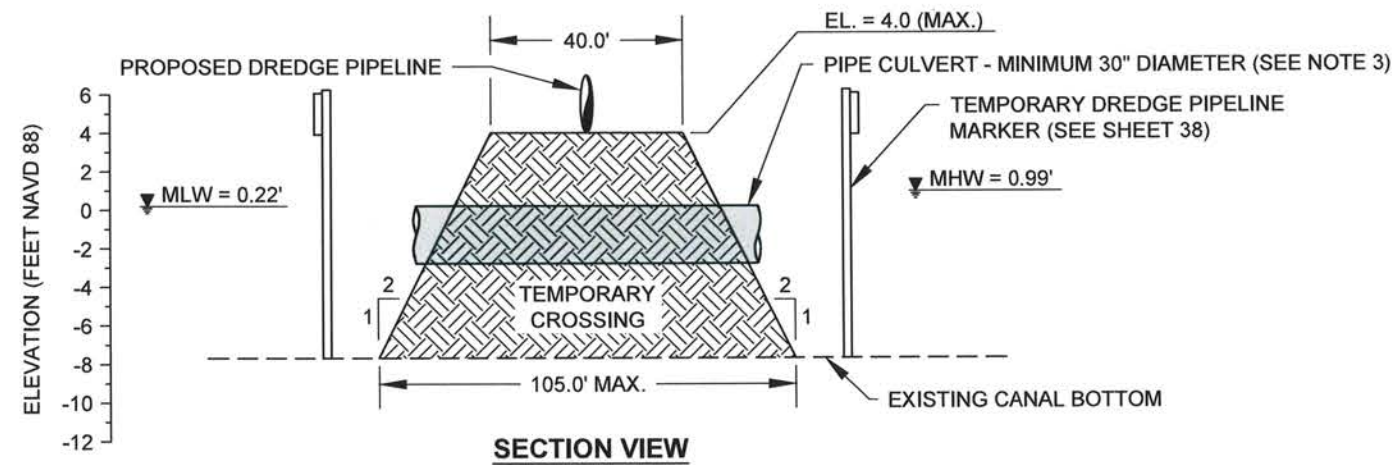
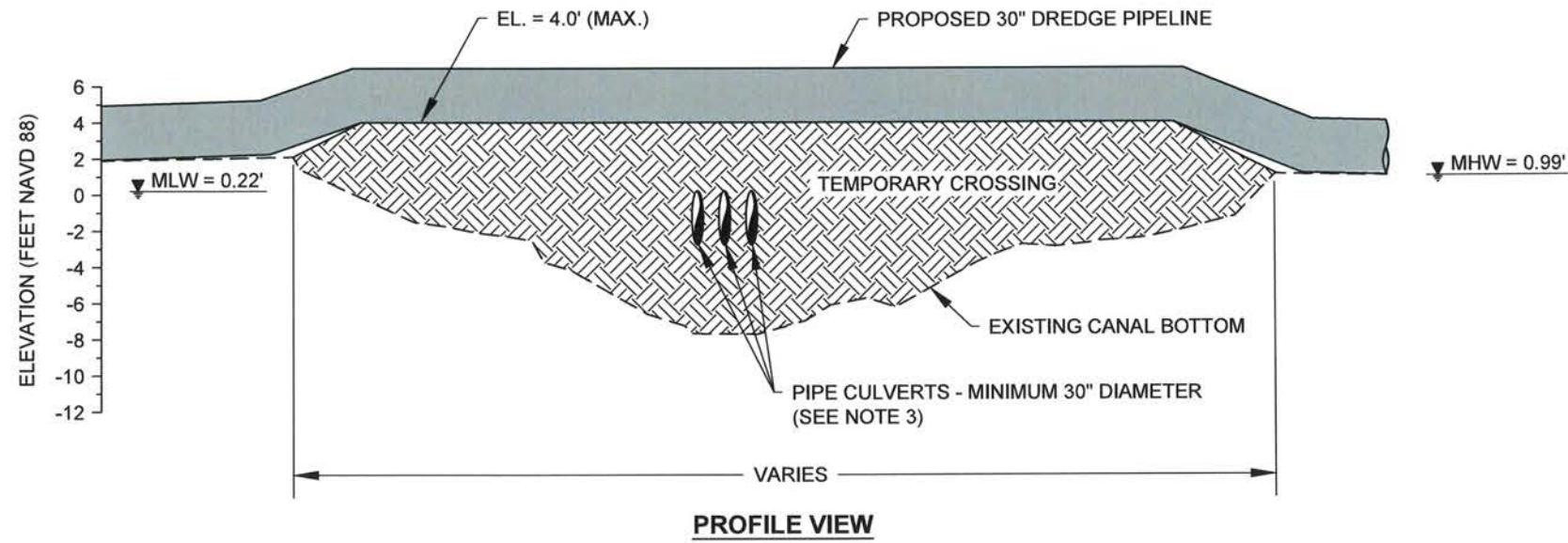
HC 11 LA 23 HIGHWAY CROSSING
TYPICAL SECTION

- NOTES:
1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE BRACED EXCAVATION ON BOTH SIDES AT THE LOCATIONS SHOWN ON SHEET 11.
 2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO THE EXCAVATION UPON INSTALLATION OF THE DREDGE PIPELINE. AFTER ACCEPTANCE OF ALL MARSH CREATION AREAS AND PRIOR TO DEMOBILIZATION, ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE THE DREDGE PIPELINE. THE CASING SHALL BE CAPPED, AND THE EXCAVATION SHALL BE BACKFILLED AFTER REMOVAL OF THE DREDGE PIPELINE.
 3. THE PROPOSED TEMPORARY RETAINING STRUCTURE (TRS) DESIGN SHALL BE SUBMITTED IN THE TRS PLAN AND SUBJECT TO APPROVAL BY THE ENGINEER. REFER TO TS-101 IN THE SPECIFICATIONS.
 4. THE UTILITIES SHOWN SHOULD BE VERIFIED BY PRE-CONSTRUCTION SURVEY. UTILITY INFORMATION SHOWN IS TAKEN FROM BA-0042 AS-BUILT INFORMATION.



LEGEND	
	EXCAVATION
	TEMPORARY SPOIL
	EXISTING GROUND

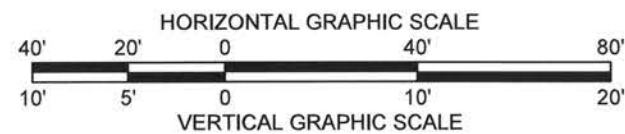
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
HIGHWAY CROSSING SECTION	GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730	
		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661	
		STATE PROJECT NUMBER: BA-0240		DRAWN BY: K. CANTU	
		DATE: MAR. 2022		SHEET 34 OF 73	



TEMPORARY CANAL CROSSING

NOTES:

1. THE TEMPORARY CANAL CROSSINGS SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE MISSISSIPPI RIVER BORROW AREA(S).
2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.
3. THE TOP OF PIPE ELEVATION SHALL BE PLACED AT THE MLW.
4. BOARD MATS MAY BE REQUIRED ON TEMPORARY CANAL CROSSINGS FOR EQUIPMENT AND DREDGE PIPELINE PLACEMENT AS PER THE PIPELINE OPERATOR CROSSING REQUIREMENTS.



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TEMPORARY CANAL
CROSSING DETAIL

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

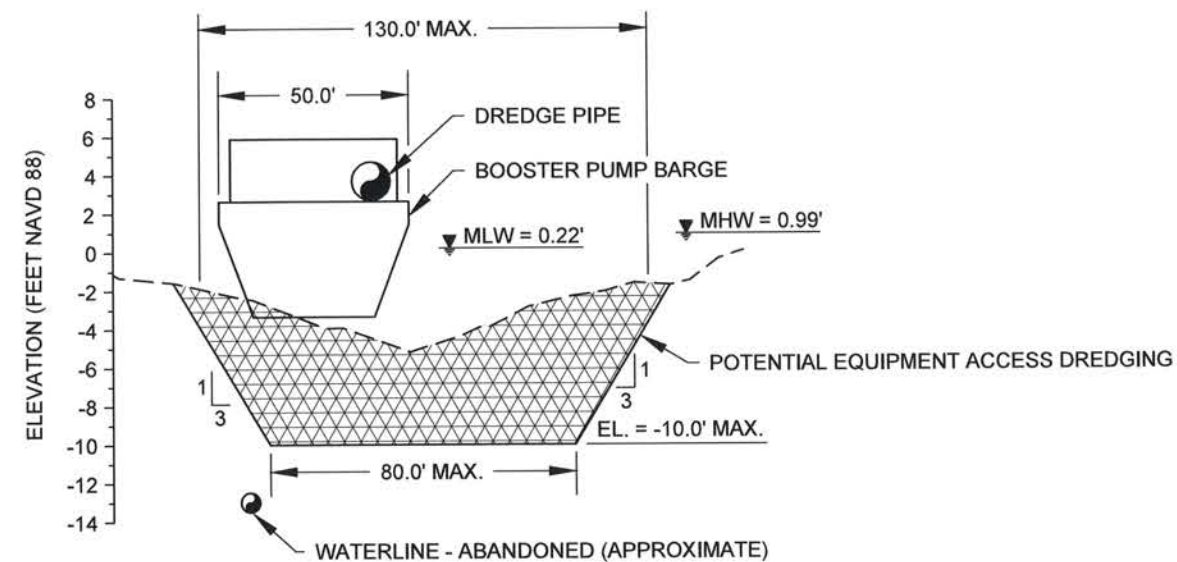
DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

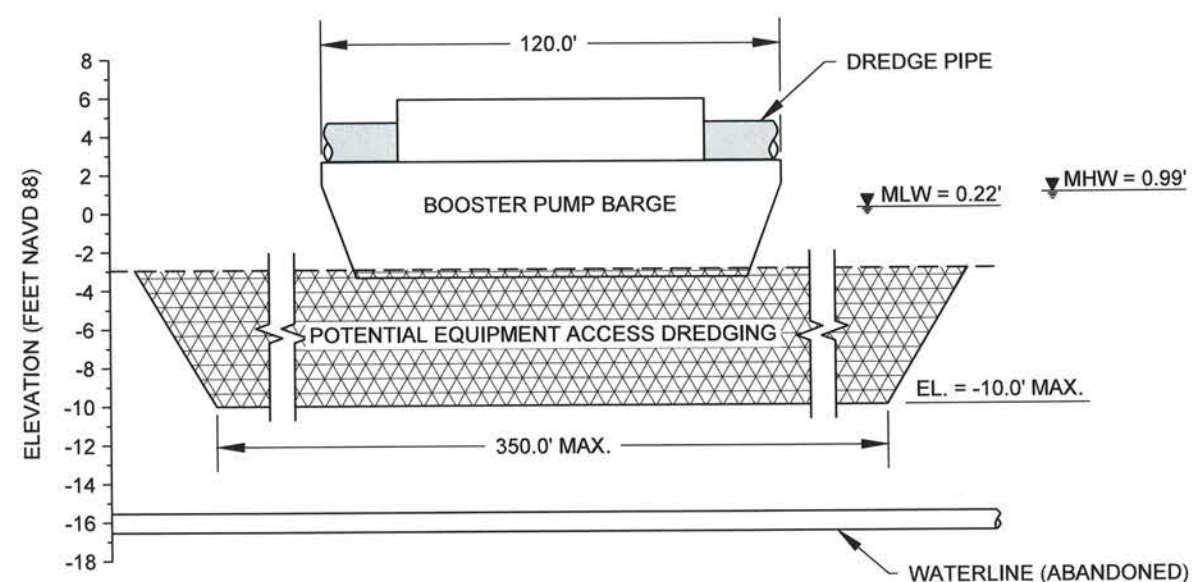
DATE: MAR. 2022

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REV.	DATE	DESCRIPTION	BY

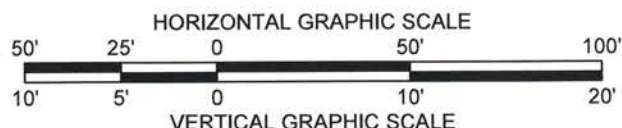


**BOOSTER PUMP
TYPICAL SECTION**



**BOOSTER PUMP
TYPICAL PROFILE**

- NOTES:
1. THE PROPOSED BOOSTER PUMP BARGE AND SIZE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. THE CONTRACTOR'S PROPOSED BOOSTER PUMP EQUIPMENT AND LOCATIONS SHALL BE SUBMITTED IN THE WORK PLAN. IF THE CONTRACTOR PROPOSES ADDITIONAL AND/OR ALTERNATE BOOSTER PUMP LOCATIONS THAT REQUIRE WATERLINE REMOVAL, THE WATERLINE SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
 3. THE BOOSTER PUMP(S) SHALL REMAIN FLOATING AND SHALL NOT BE ANCHORED WITHIN FIVE-HUNDRED FEET (500') OF INFRASTRUCTURE OR PIPELINES THROUGHOUT THE DURATION OF THE WORK, UNLESS OTHERWISE SPECIFIED ON THE PLANS.



STATE OF LOUISIANA

ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

STATE OF LOUISIANA

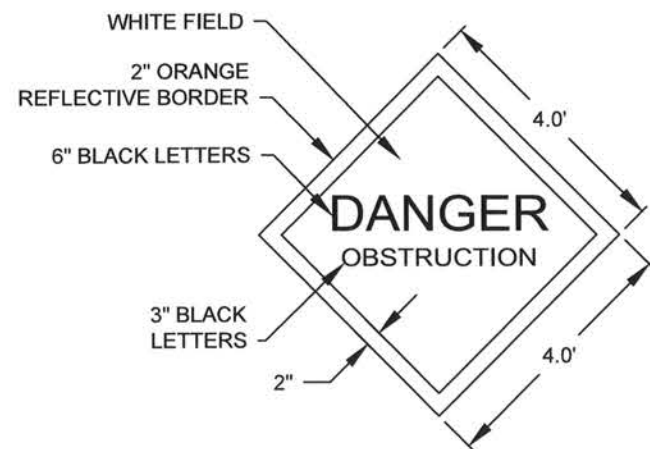
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

LEGEND

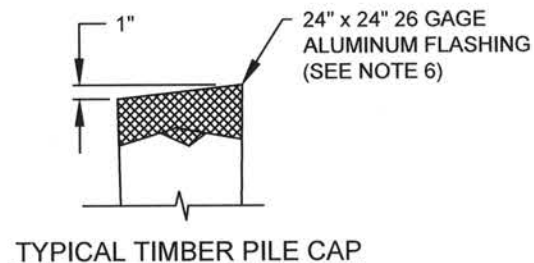
POTENTIAL EQUIPMENT ACCESS DREDGING

EXISTING WATER BOTTOM

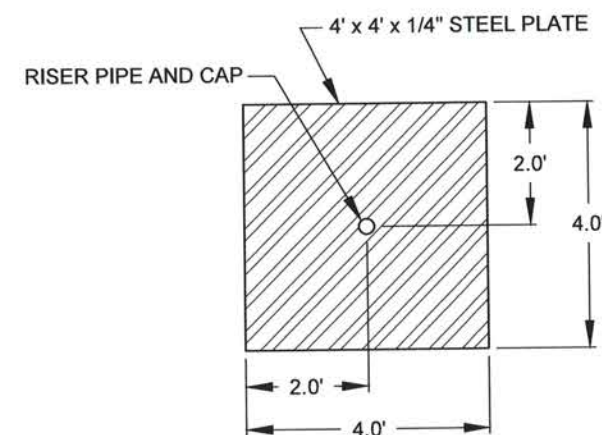
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		TYPICAL DREDGING FOR BOOSTER PUMP PLACEMENT SECTION AND PROFILE		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802								
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730								
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661					REV.	DATE	DESCRIPTION	BY
DATE: MAR. 2022												
SHEET 36 OF 73												



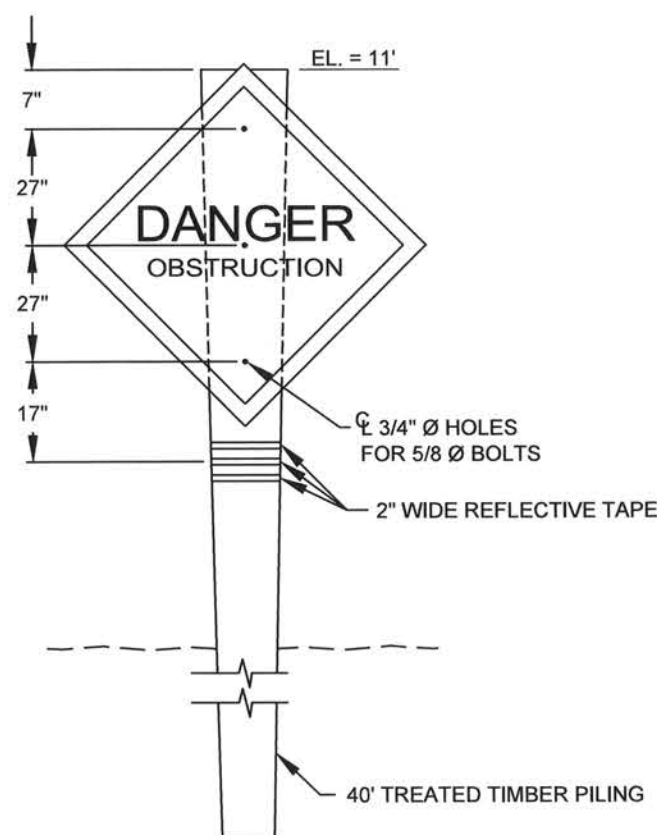
SIGN DETAIL



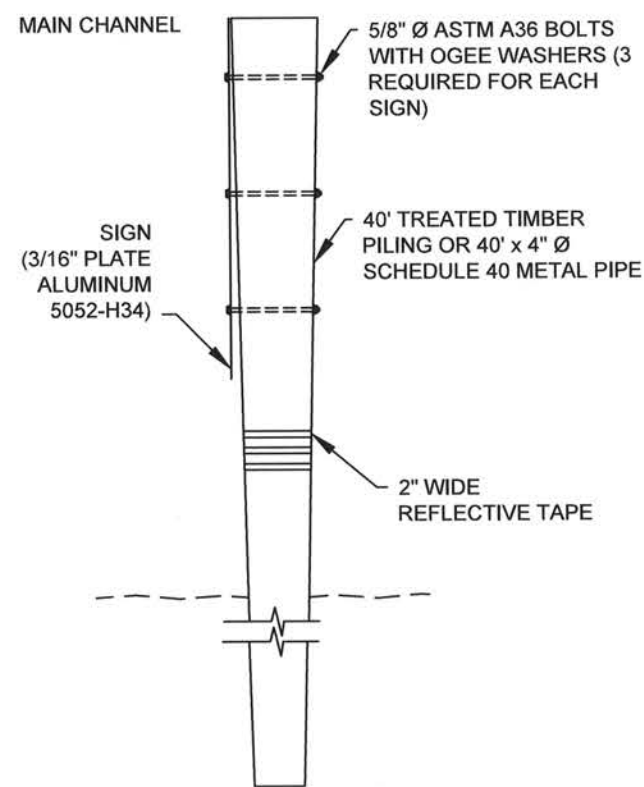
TYPICAL TIMBER PILE CAP



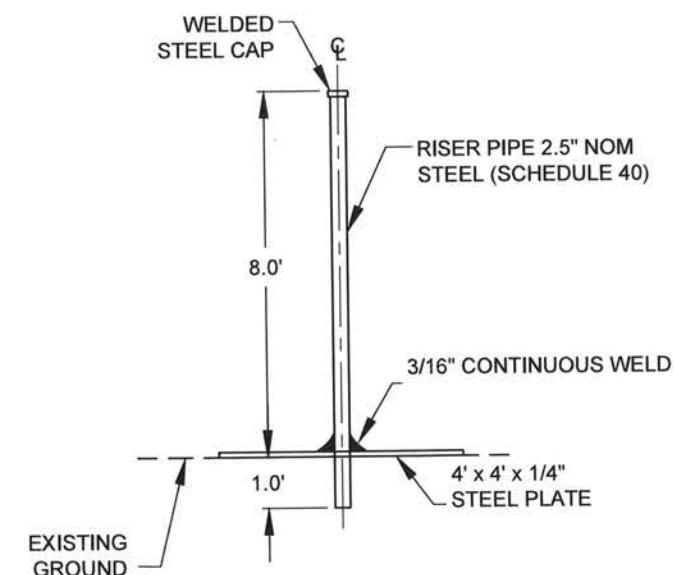
PLAN VIEW



WARNING SIGN ELEVATION



WARNING SIGN ELEVATION



PROFILE VIEW

MARSH CREATION AREA SETTLEMENT PLATE
NTS

- NOTES:
1. TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, MAY BE REQUIRED BY UNITED STATES COAST GUARD. REFER TO TS-150 IN THE SPECIFICATIONS.
 2. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS AND BE IN ACCORDANCE WITH 33 CFR §66--PRIVATE AIDS TO NAVIGATION.
 3. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
 4. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.08 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
 5. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPAP2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
 6. TIMBER PILING SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
 7. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

TEMPORARY WARNING SIGN DETAIL
NOT TO SCALE



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TEMPORARY WARNING SIGN
AND SETTLEMENT PLATE DETAILS

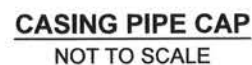
DESIGNED BY: A. LINSON, P.E.
APPROVED BY: R. JOFFRION, P.E.

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

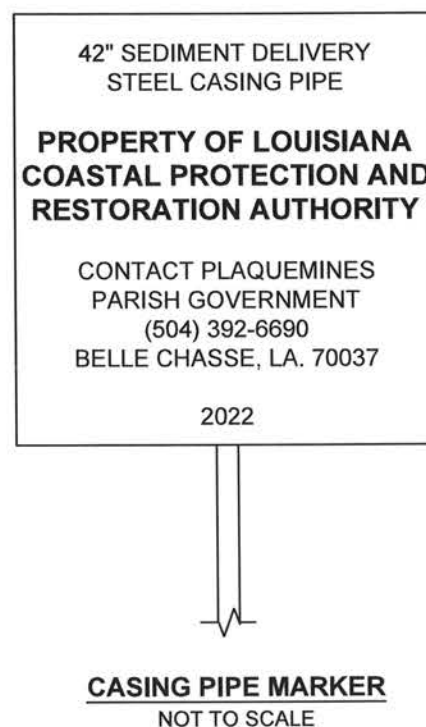
DATE: MAR. 2022

SHEET 37 OF 73



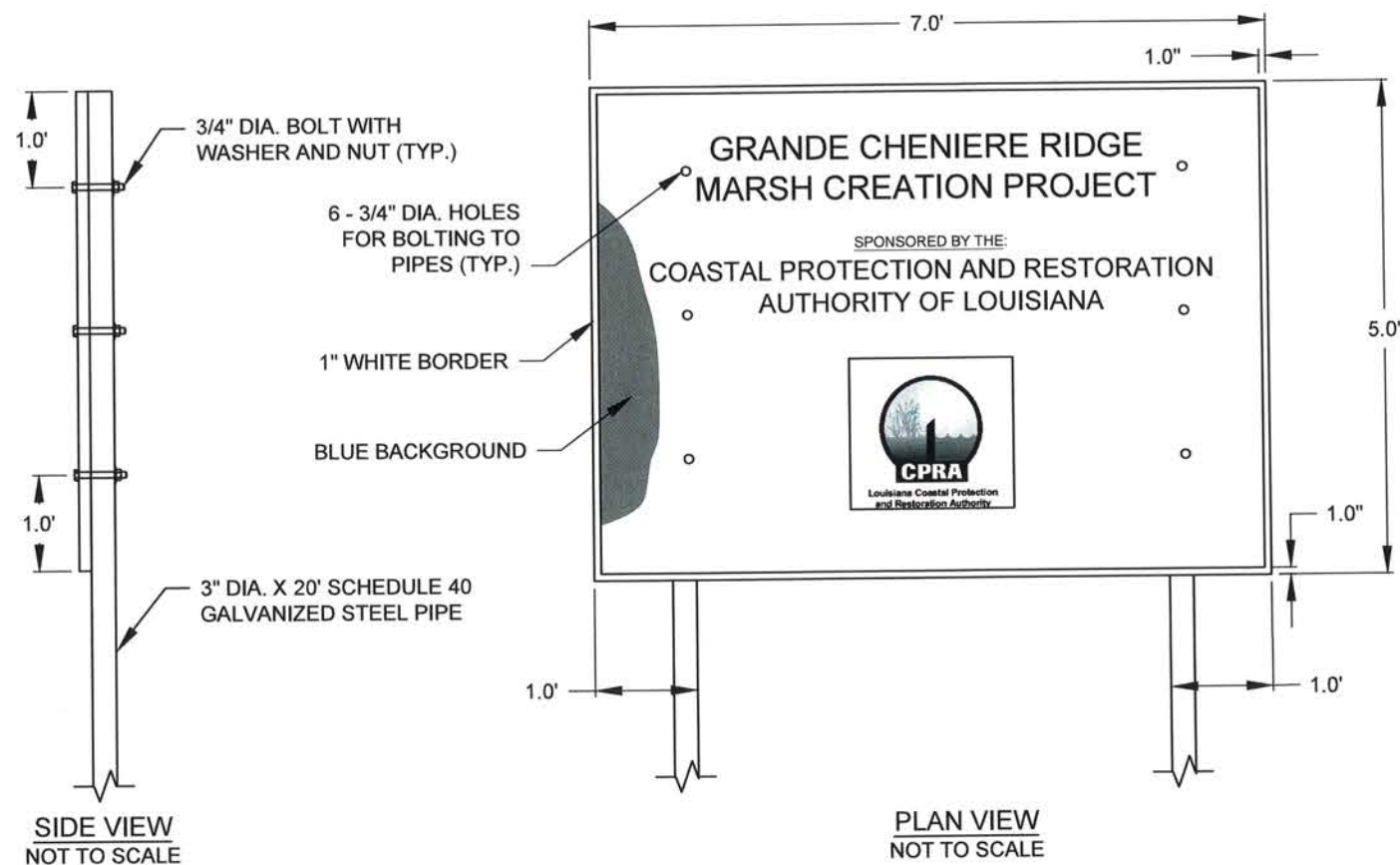
CASING PIPE CAP NOTES:

- CASING PIPE CAP NOTES:
1. STEEL CASING PIPE CAPS SHALL BE 1/2" THICK AND SHALL BE COATED WITH COAL TAR EPOXY-POLYAMIDE PAINT, IN ACCORDANCE WITH LOUISIANA STANDARD SPECIFICATION FOR ROADS AND BRIDGES, SPECIFICATION 1000.8, AS PUBLISHED BY DOTD, LATEST EDITION.
 2. CAPS SHALL BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AFTER DREDGING OPERATIONS ARE COMPLETE, ALL MARSH CREATION AREAS HAVE BEEN ACCEPTED, AND DREDGE SLURRY PIPELINE HAS BEEN REMOVED. CAPS SHALL BE WELDED TO CASING PIPE AND SHALL BE WATER TIGHT.



CASING PIPE MARKER NOTES:

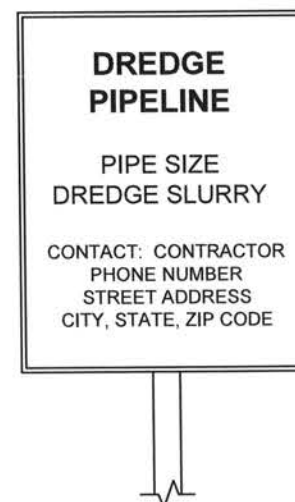
1. ONE MARKER SHALL BE PLACED ON EACH SIDE OF THE HIGHWAY AT EACH END OF THE CASING PIPE.
2. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LADOTD SECTION 729 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY DOTD, LATEST EDITION.
3. A PROPOSED DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN THE WORK PLAN PRIOR TO CONSTRUCTION.



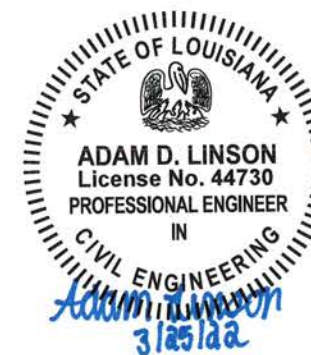
PROJECT FUNDING SIGN
TYPICAL DETAIL

PROJECT FUNDING SIGN NOTES:

1. THE PROJECT SIGN SHALL BE MOUNTED ON TWO (2), THREE (3) INCH DIAMETER BY TWENTY (20) FOOT LONG, SCHEDULE 40 GALVANIZED STEEL PIPES EMBEDDED TO A DEPTH OF AT LEAST TEN (10) FOOT. SIGN SHALL BE ATTACHED TO PIPES WITH SIX (6), 3/4" DIA. X 4" A307 (HDG) BOLTS WITH WASHERS AND NUTS.
2. BOTTOM EDGE OF SIGN SHALL BE APPROXIMATELY FIVE (5) FOOT ABOVE THE GROUND.
3. SIGN PLACEMENT AT THE DIRECTION OF ENGINEER.
4. SIGN SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LADOTD SECTION 729 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY DOTD, LATEST EDITION.



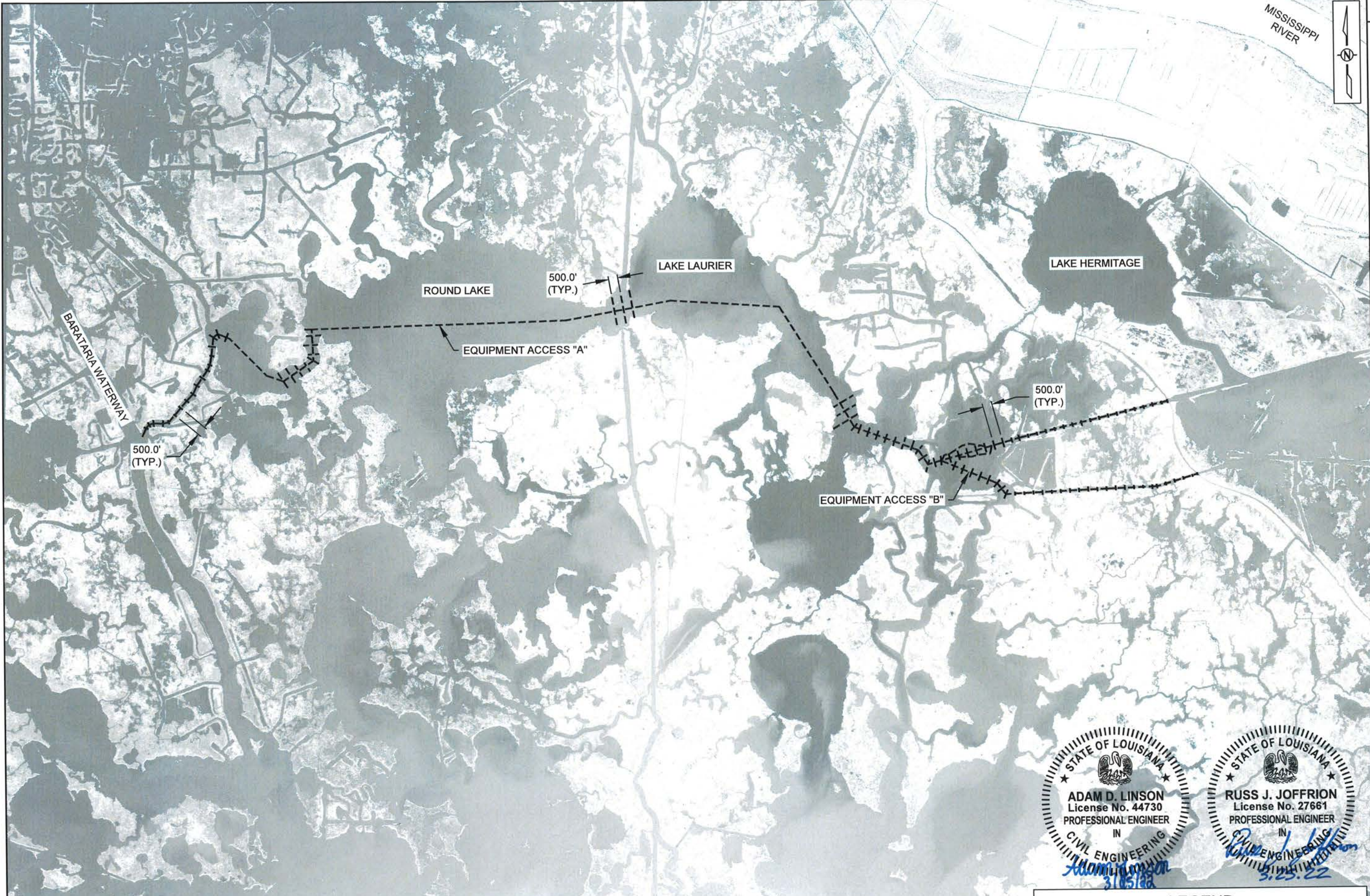
**TEMPORARY DREDGE PIPELINE
MARKER TYPICAL DETAIL**
NOT TO SCALE



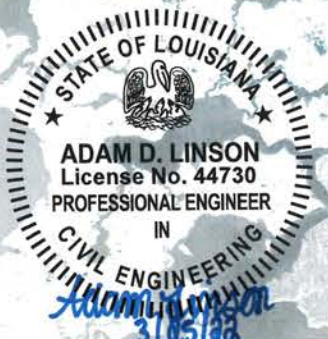
DREDGE PIPELINE MARKER NOTES:

- DREDGE PIPELINE MARKER NOTES:
1. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTION 729 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LADOTD, LATEST EDITION.
 2. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF THE MARKERS.
 3. MARKERS SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE DREDGE PIPELINE AND REMOVED AFTER THE REMOVAL OF THE DREDGE PIPELINE.
 4. MARKERS SHALL BE INSTALLED ON BOTH SIDES OF THE CROSSING.

GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT		CASING PIPE CAP, CASING PIPE MARKER, DREDGE PIPELINE MARKER, AND PROJECT FUNDING SIGN DETAILS		<div> <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div> </div>					
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730					
		APPROVED BY: B. JOERSON, P.E.		P.E. NO. 27661					
DATE: MAR. 2022									
SHEET 38 OF 73									



NOTES:
1. BATHYMETRIC AND MAGNETOMETER DATA IS PROVIDED IN APPENDIX H.
2. SOME SURVEY TRANSECTS NOT SHOWN FOR CLARITY.



LEGEND	
----	BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
EQUIPMENT ACCESS CORRIDOR DESIGN SURVEY LAYOUT		DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730		
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661		
STATE PROJECT NUMBER: BA-0240					
DRAWN BY: K. CANTU					
DATE: MAR. 2022					
SHEET 39 OF 73					



GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240	DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730
		DRAWN BY: K. CANTU	APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661
		EQUIPMENT ACCESS CORRIDOR DESIGN SURVEY LAYOUT		
		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		
		DATE: MAR. 2022	REV.	BY
		SHEET 40 OF 73		

SOIL BORING		
	NORTHING	EASTING
B-1	401,618.69	3,757,142.34
B-2	400,327.68	3,759,088.60
B-3	398,432.94	3,761,576.97
B-4	396,391.22	3,764,487.18
B-5	388,395.32	3,775,159.18
B-6	386,272.30	3,777,095.87
B-7	383,977.21	3,778,942.92
B-8	381,619.74	3,781,007.31
B-13	392,612.24	3,766,892.53



LEGEND

 BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT
 MISSISSIPPI RIVER BORROW AREA (MRBA)

49

 MISSISSIPPI RIVER MILE (AHP)

●

 SOIL BORING

2,000'

1,000'

0'

2,000'

4,000'

STATE OF LOUISIANA

ADAM D. LINSON

License No. 44730

PROFESSIONAL ENGINEER

CIVIL ENGINEERING

STATE OF LOUISIANA

RUSS J. JOFFRION

License No. 27661

PROFESSIONAL ENGINEER

CIVIL ENGINEERING

<div> <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE</div> <div>BATON ROUGE, LOUISIANA 70802</div> </div>	REV.	DATE	DESCRIPTION	BY
<div> <div>MISSISSIPPI RIVER BORROW AREAS</div> <div>DESIGN SURVEY LAYOUT</div> </div>	DESIGNED BY:	A. LINSON, P.E.	P.E. NO. 44730	
	APPROVED BY:	R. JOFFRION, P.E.	P.E. NO. 27661	
	STATE PROJECT NUMBER:	BA-0240		
	DRAWN BY:	K. CANTU		
<div> <div>GRANDE CHENIERE RIDGE MARSH CREATION PROJECT</div> </div>	DATE: MAR. 2022			
	SHEET 41 OF 73			

SOIL BORING		
	NORTHING	EASTING
B-1	382,985.27	3,749,602.29
B-2	380,970.55	3,750,831.26
B-3	379,636.92	3,752,226.84
B-4	379,787.19	3,753,523.42
B-5	378,736.77	3,754,327.06
B-6	382,512.94	3,753,101.36
B-7	382,442.31	3,757,257.38
B-8	381,398.17	3,761,299.38
B-14	375,800.34	3,756,525.84
B-17	378,011.61	3,756,811.85
B-19	383,540.61	3,754,663.09
R-1	381,782.41	3,749,391.03
R-2	378,336.63	3,752,693.06
R-3	376,272.69	3,755,376.88
JCB-1	383,653.76	3,751,608.84
JCB-2	384,896.05	3,757,090.78

CONE PENETRATION TEST (CPT)		
	NORTHING	EASTING
CPT-1	382,257.26	3,749,919.17
CPT-2	382,306.40	3,750,627.70
CPT-3	381,095.55	3,750,643.31
CPT-4	380,455.78	3,751,230.37
CPT-5	380,764.68	3,752,619.32
CPT-6	378,990.12	3,753,195.68
CPT-7	379,596.67	3,755,652.58
CPT-8	378,624.34	3,754,434.43
CPT-9	378,649.85	3,755,556.78
CPT-10	377,524.24	3,754,855.83
CPT-11	381,413.55	3,755,536.68
CPT-12	384,366.16	3,758,007.17
CPT-13	381,047.53	3,758,696.22
CPTR-1	381,544.15	3,749,330.49
CPTR-2	379,650.61	3,749,990.90
CPT-1	383,785.73	3,753,375.19
CPT-2	384,326.40	3,755,241.15
CPT-6	381,675.92	3,753,618.81
CPT-10	379,565.04	3,756,851.98
CPT-12	376,898.99	3,757,942.76
CPT-13	374,134.84	3,757,872.71
CPT-15	377,889.70	3,755,830.67
CPT-17	383,498.92	3,751,728.50
CPT-18	384,743.50	3,757,105.50
B-CPT-14	377,124.24	3,756,534.01
B-CPT-17	377,996.56	3,756,773.88
B-CPT-19	383,526.06	3,754,663.28

NOTE: REFERENCE EUSTIS REPORT NO. 24364



LAKE HERMITAGE

JEFFERSON CANAL

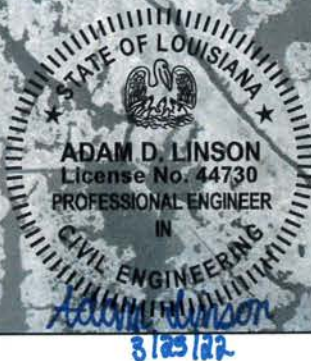
GRAND BAYOU

EARTHEN RIDGE

500.0' (TYP.)

BAYOU GRANDE CHENIERE

500.0' (TYP.)



LEGEND	
---	SURVEY TRANSECT
●	SOIL BORING
◆	CONE PENETRATION TEST (CPT)

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREAS
DESIGN SURVEY LAYOUT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730

APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

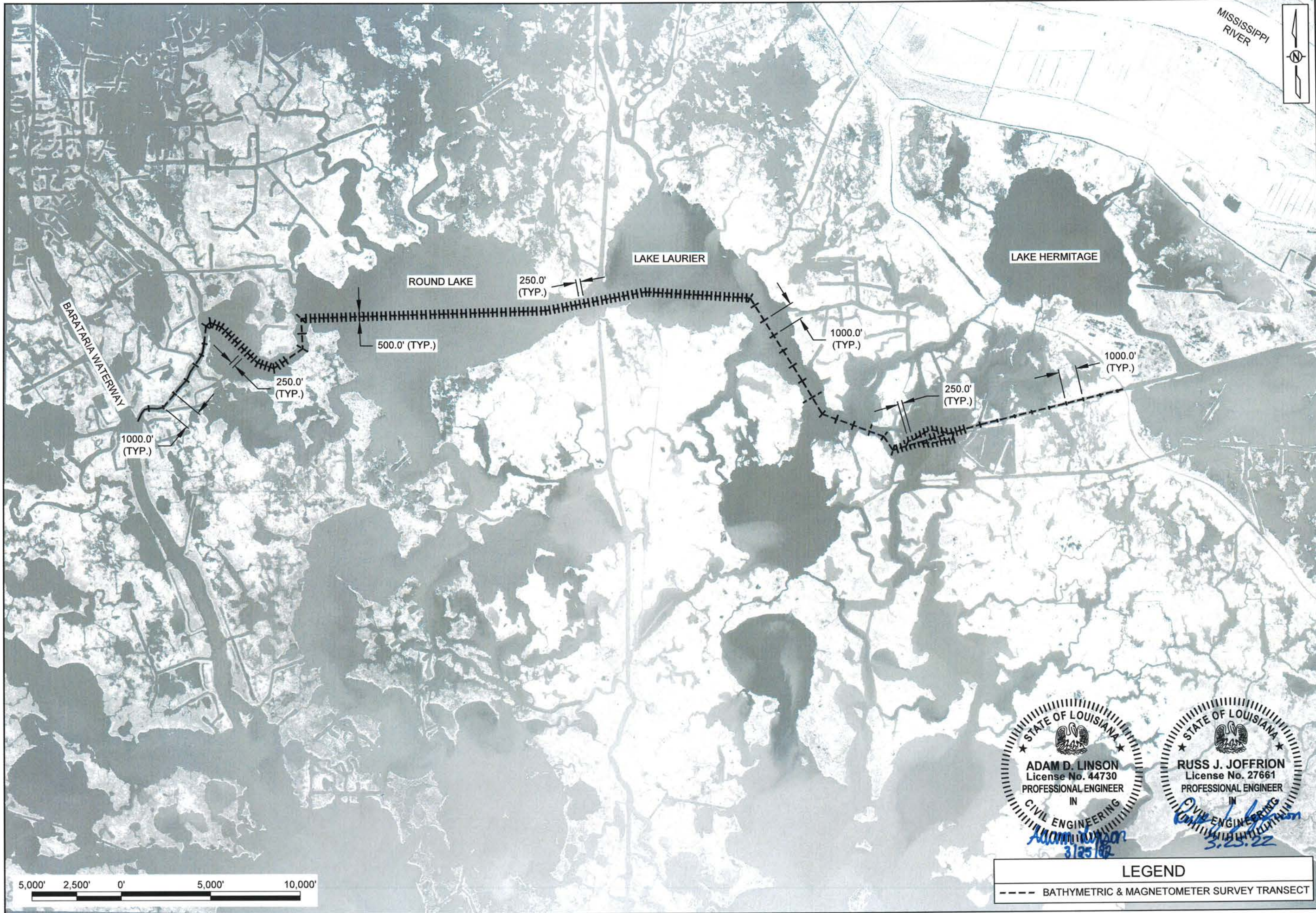
GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

DATE: MAR. 2022

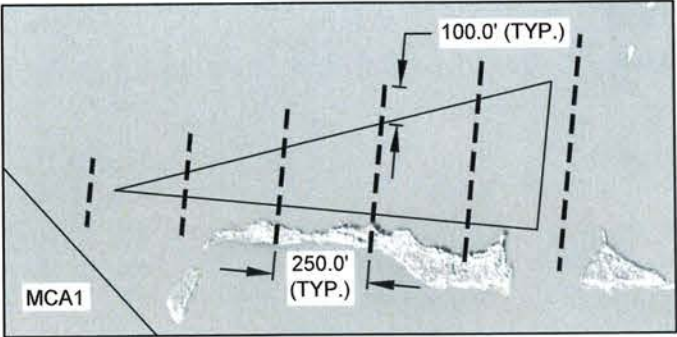
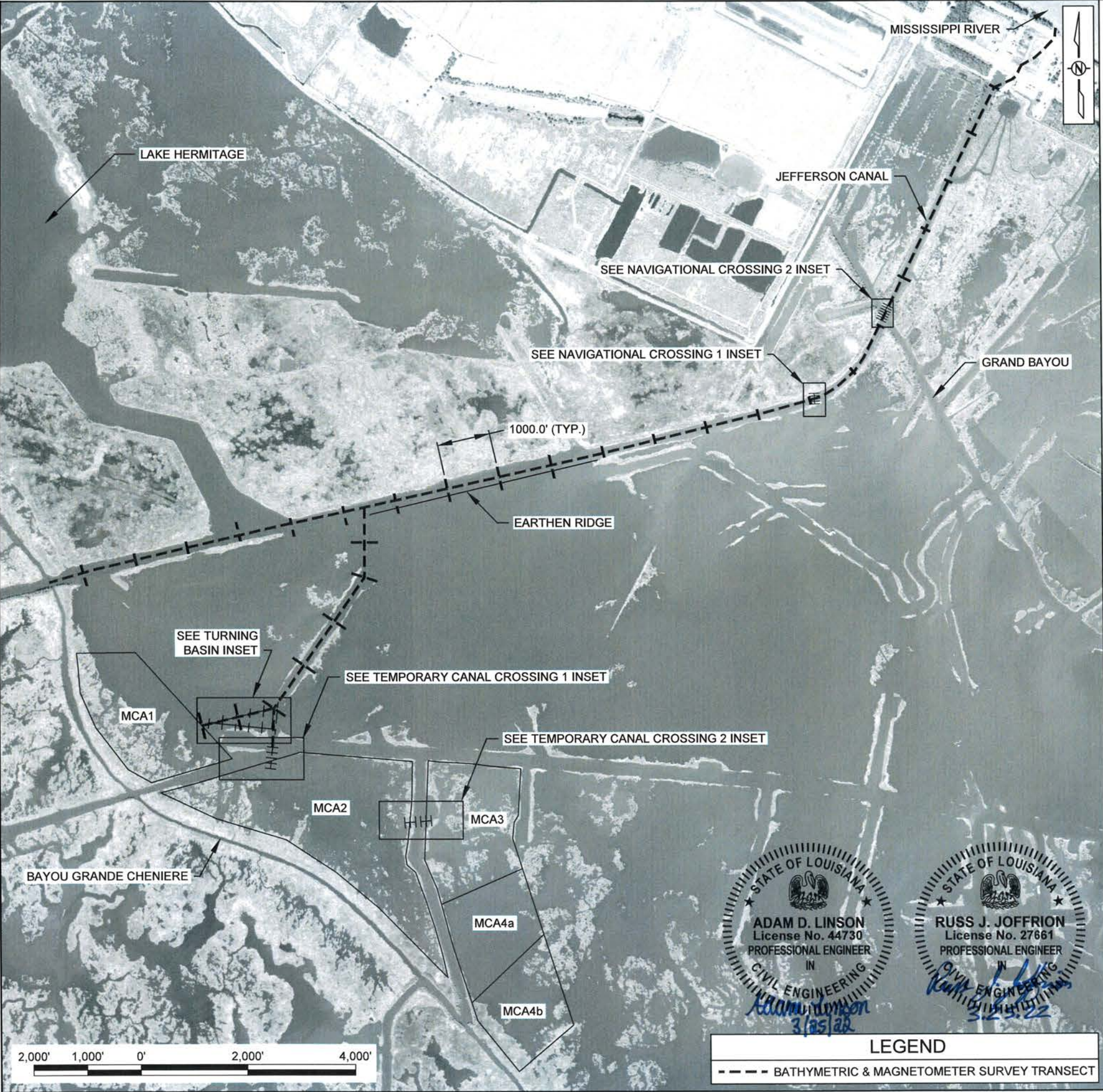
SHEET 42 OF 73



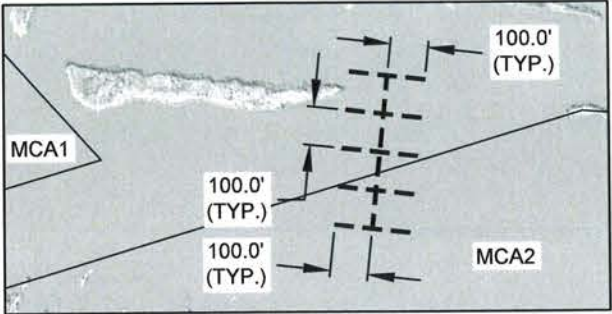
DATE: MAR. 2022		EQUIPMENT ACCESS CORRIDOR CONSTRUCTION SURVEY LAYOUT		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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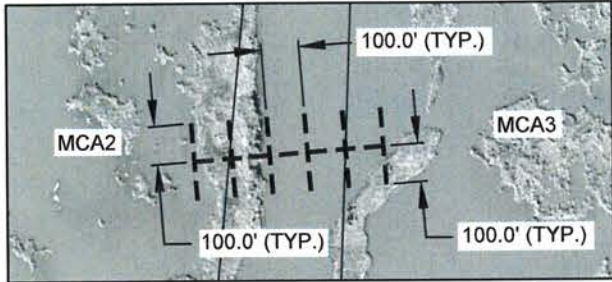
LEGEND	
---	BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT



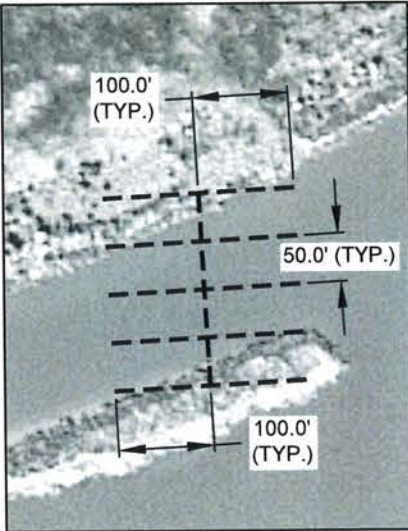
TURNING BASIN



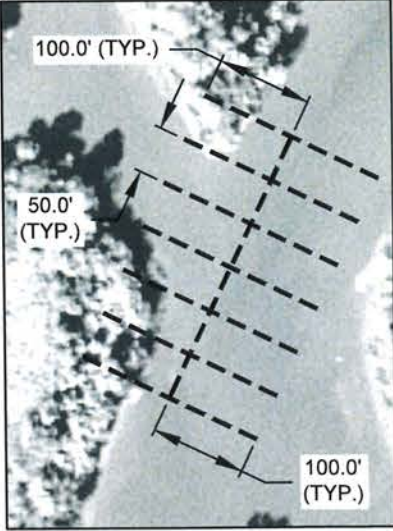
TEMPORARY CANAL CROSSING 1



TEMPORARY CANAL CROSSING 2



NAVIGATIONAL CROSSING 1



NAVIGATIONAL CROSSING 2



STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/25/22

STATE OF LOUISIANA
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/25/22

LEGEND

--- BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

EQUIPMENT ACCESS/DREDGE PIPELINE
CORRIDOR AND TURNING BASIN
CONSTRUCTION SURVEY LAYOUT

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DATE: MAR. 2022

SHEET 44 OF 73

DESIGNED BY: A. LINSON, P.E.

STATE PROJECT NUMBER: BA-0240

APPROVED BY: R. JOFFRION, P.E.

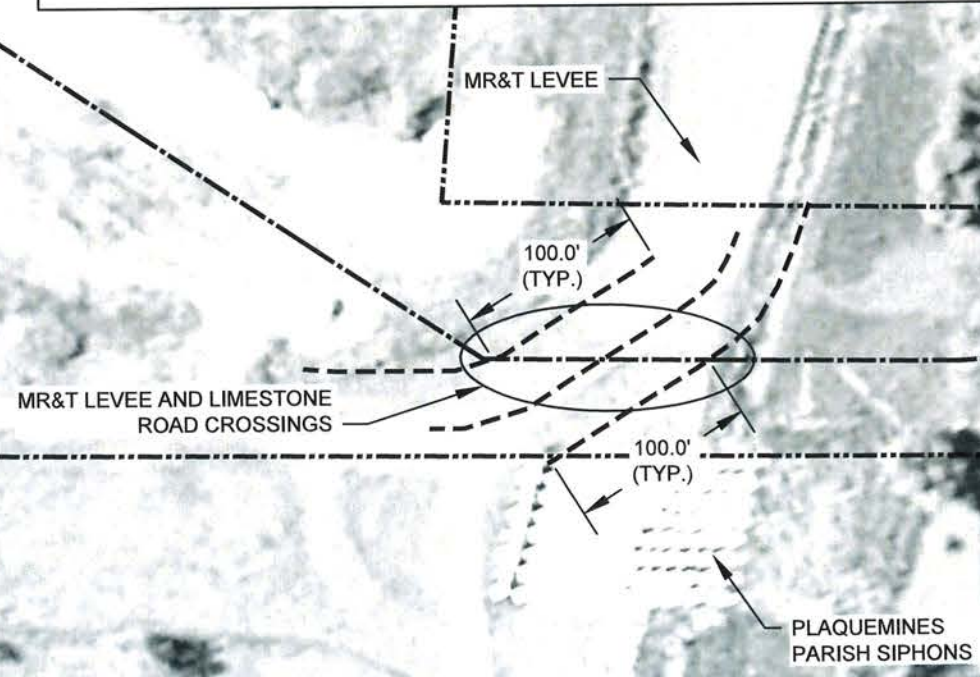
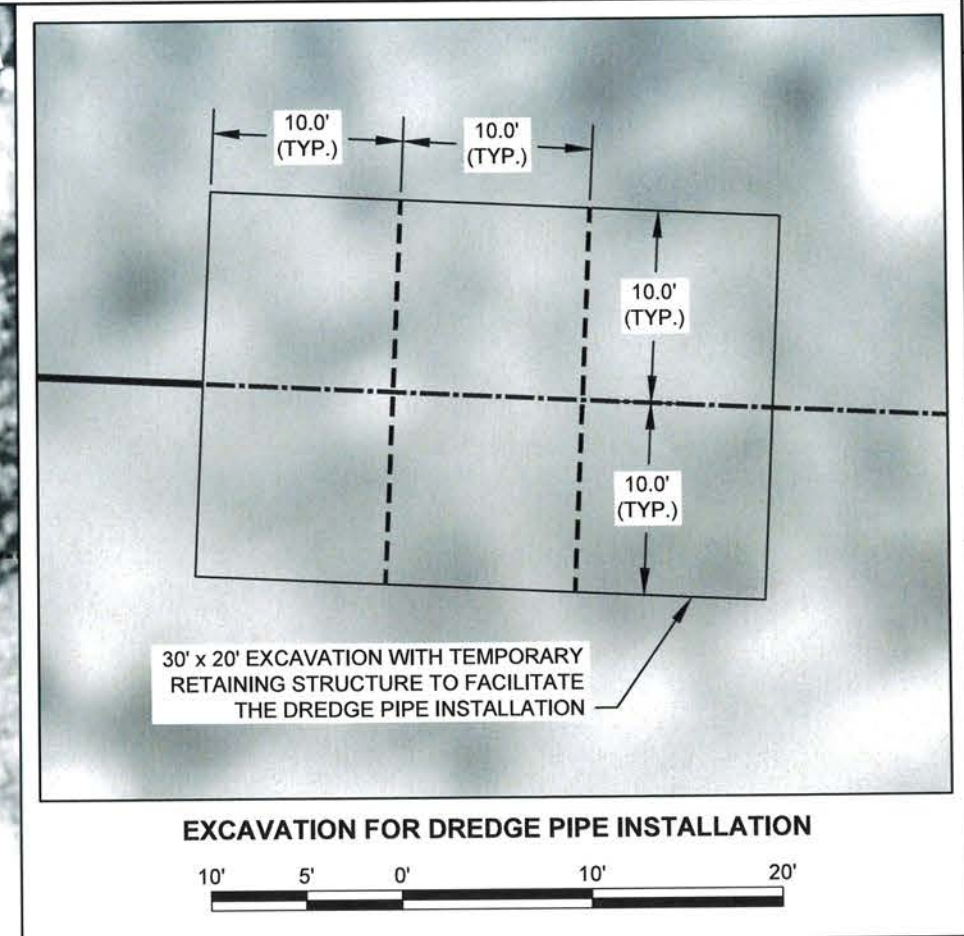
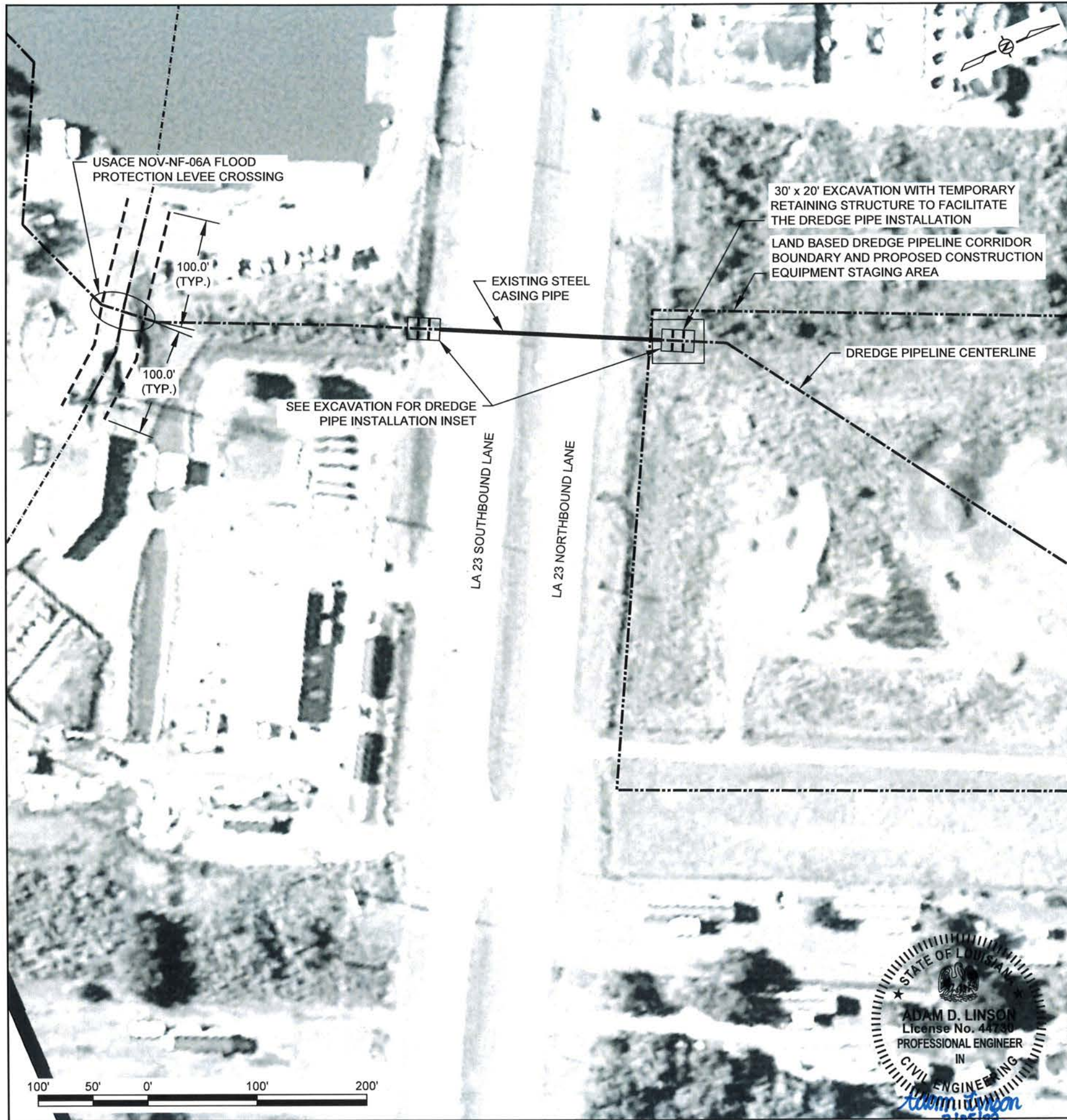
DRAWN BY: K. CANTU

REV.

DATE

DESCRIPTION

BY



STATE OF LOUISIANA
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/15/22

STATE OF LOUISIANA
RUSS J. JOEFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/15/22

LEGEND	
---	CONSTRUCTION EQUIPMENT STAGING AREA
---	DREDGE PIPE CENTERLINE
---	EXISTING STEEL CASING PIPE
---	BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT
---	PROPOSED USACE NOV-NF-06A FLOOD PROTECTION LEVEE CENTERLINE

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
MR&T LEVEE TO NOV FLOOD PROTECTION LEVEE CONSTRUCTION SURVEY LAYOUT		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730	
		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661	
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240			
		DRAWN BY: K. CANTU			
DATE: MAR. 2022					
SHEET 45 OF 73					



GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		MISSISSIPPI RIVER BORROW AREAS CONSTRUCTION SURVEY LAYOUT		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802				REV.	DATE	DESCRIPTION	BY
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730							
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661							
DATE: MAR 2022											
SHEET 46 OF 73											

SETTLEMENT PLATES		
	NORTHING	EASTING
SP-1	381,332.61	3,750,400.00
SP-2	380,970.43	3,749,770.86
SP-3	380,514.35	3,751,176.89
SP-4	379,619.87	3,750,769.24
SP-5	378,911.92	3,752,323.37
SP-6	379,570.04	3,753,567.09
SP-7	378,762.89	3,754,332.78
SP-8	377,583.43	3,754,908.08
SP-9	379,405.34	3,755,312.75
SP-10	379,051.70	3,756,786.10
SP-11	377,972.34	3,756,271.37
SP-12	377,789.00	3,757,302.68
SP-13	377,142.16	3,757,374.80
SP-14	375,850.13	3,756,664.56
SP-15	375,413.66	3,757,961.62
SP-16	374,553.57	3,757,511.61
SP-17	384,326.25	3,755,273.34
SP-18	384,688.84	3,756,804.36
SP-19	385,040.46	3,758,337.98



LEGEND	
---	BATHYMETRIC & MAGNETOMETER SURVEY TRANSECT
X	SETTLEMENT PLATE

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREAS
CONSTRUCTION SURVEY LAYOUT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730

APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 47 OF 73

REV.	DATE	DESCRIPTION	BY

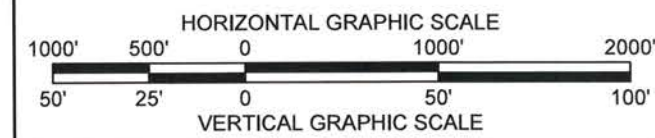
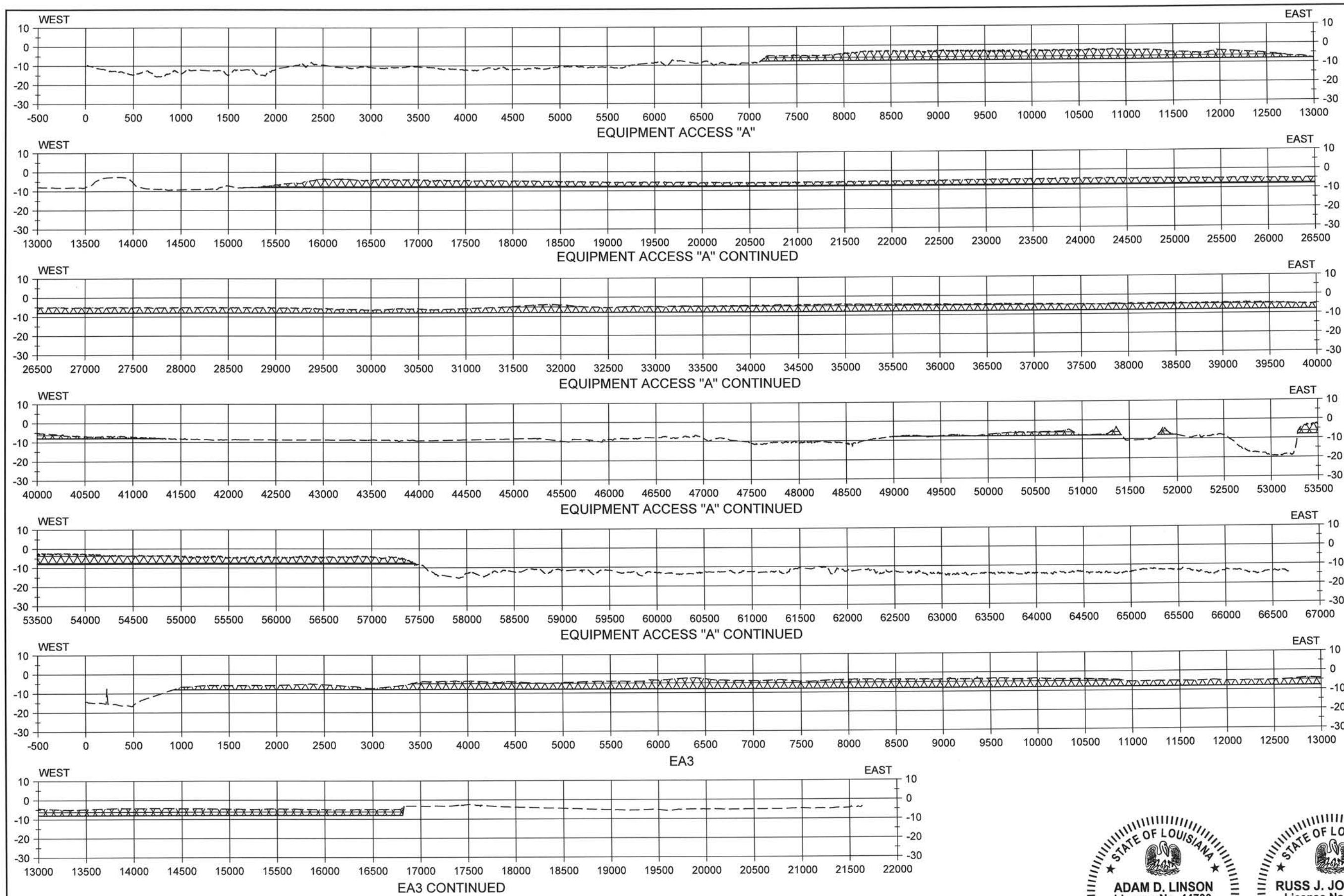


STATE OF LOUISIANA
★
ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3/25/22

STATE OF LOUISIANA
★
RUSS J. JOFFRION
License No. 27661
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
3.25.22

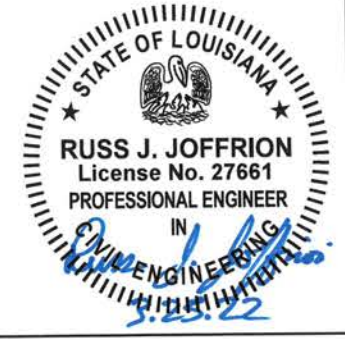
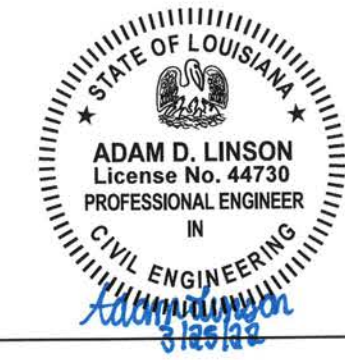
LEGEND
--- SURVEY TRANSECT

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU
MARSH CREATION AREAS CONSTRUCTION SURVEY LAYOUT		DESIGNED BY: A. LINSON, P.E.	APPROVED BY: R. JOFFRION, P.E.
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		P.E. NO. 44730	P.E. NO. 27661
REV.	DATE	DESCRIPTION	BY
DATE: MAR. 2022		SHEET 48 OF 73	

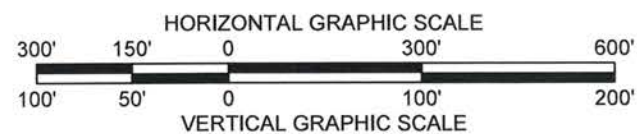
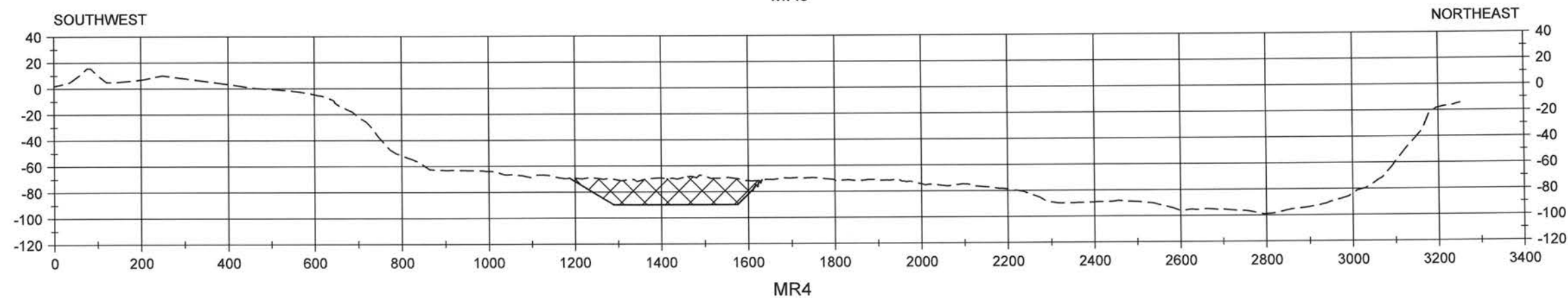
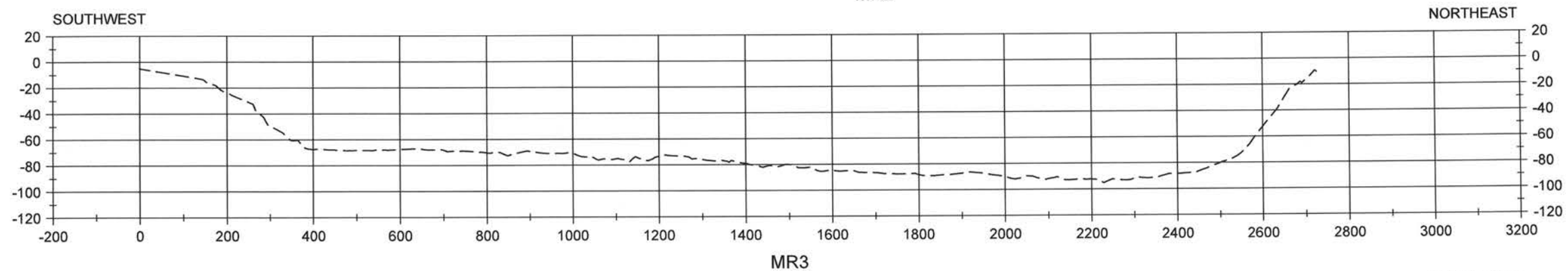
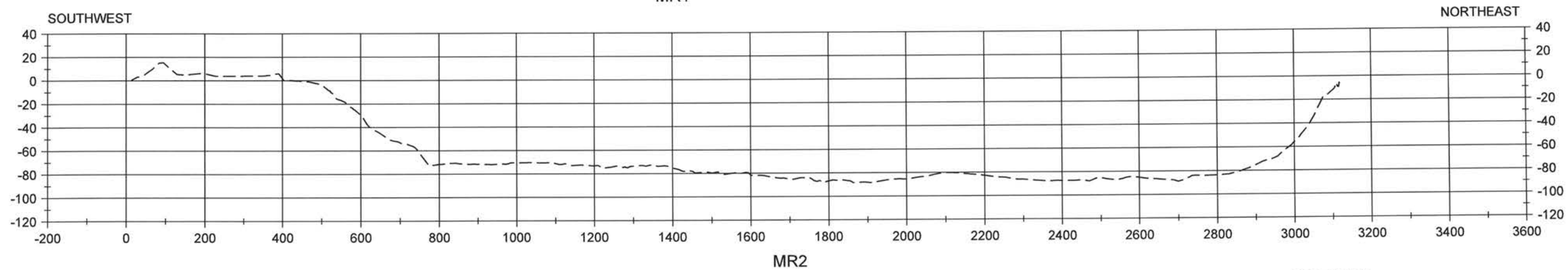
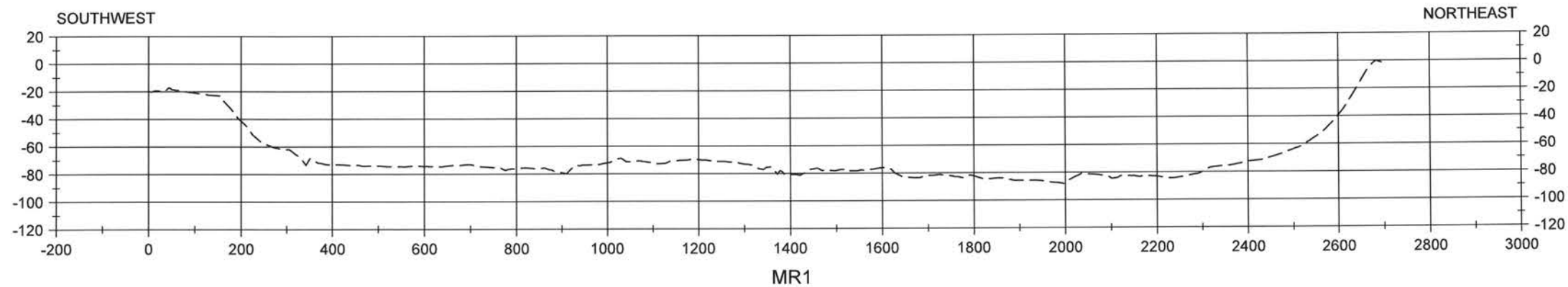


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND	
	POTENTIAL EQUIPMENT ACCESS DREDGING
	EXISTING WATER BOTTOM



COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	REV.	DATE	BY
EQUIPMENT ACCESS CORRIDOR PROFILES	DESIGNED BY:	A. LINSON, P.E.	P.E. NO. 44730
	APPROVED BY:	R. JOFFRION, P.E.	P.E. NO. 27661
	DRAWN BY:	K. CANTU	
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER:	BA-0240	
	DATE:	MAR. 2022	
	SHEET	49 OF 73	

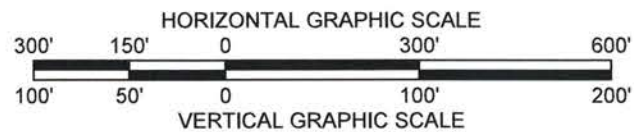
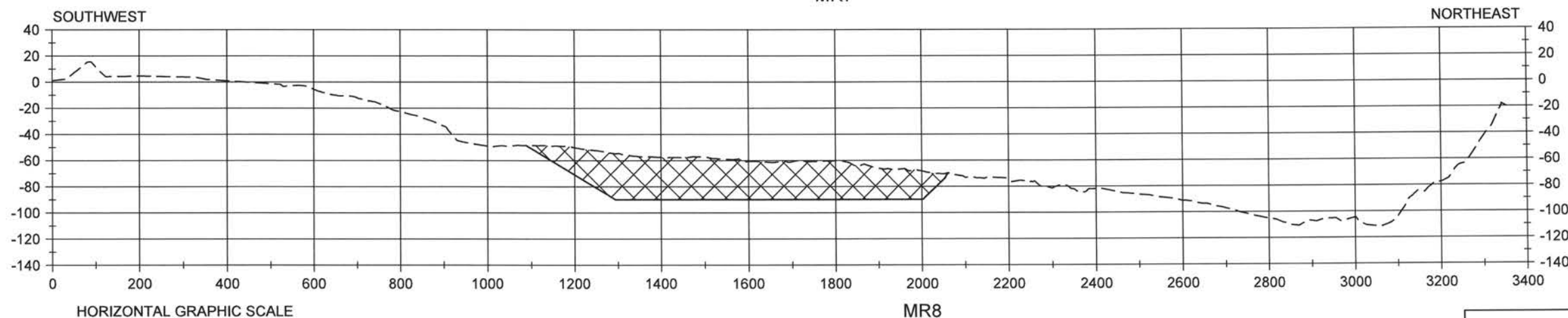
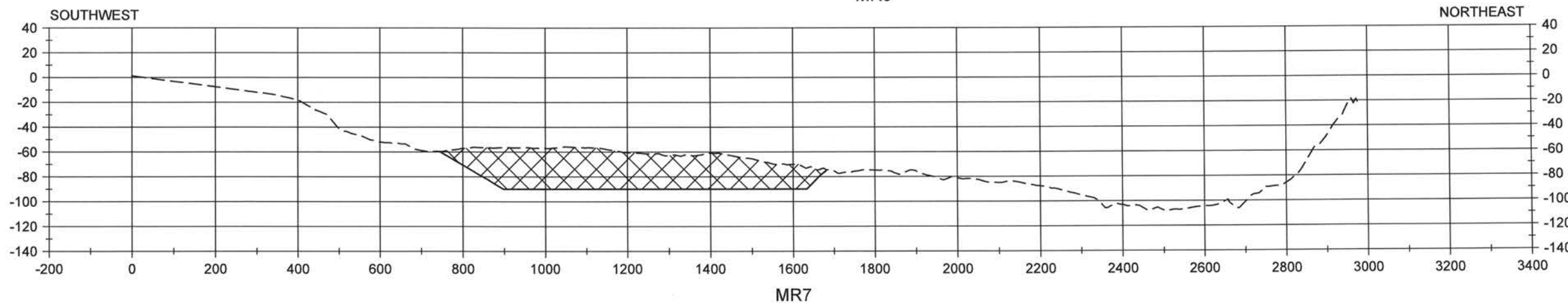
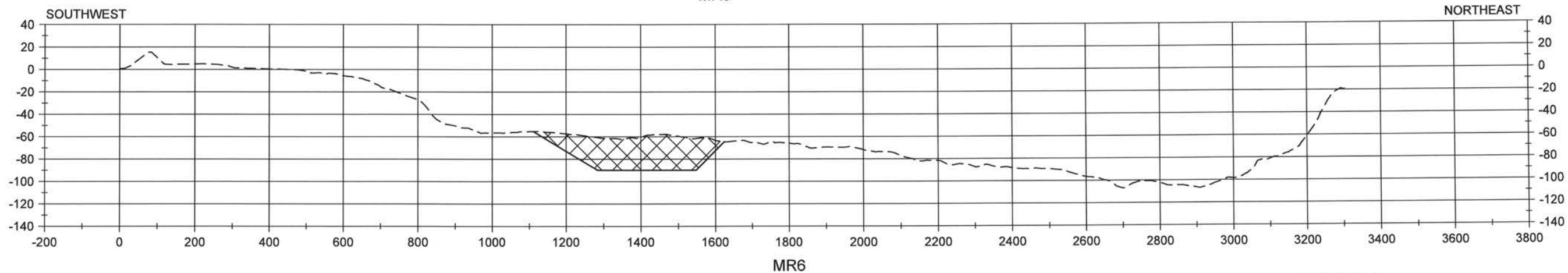
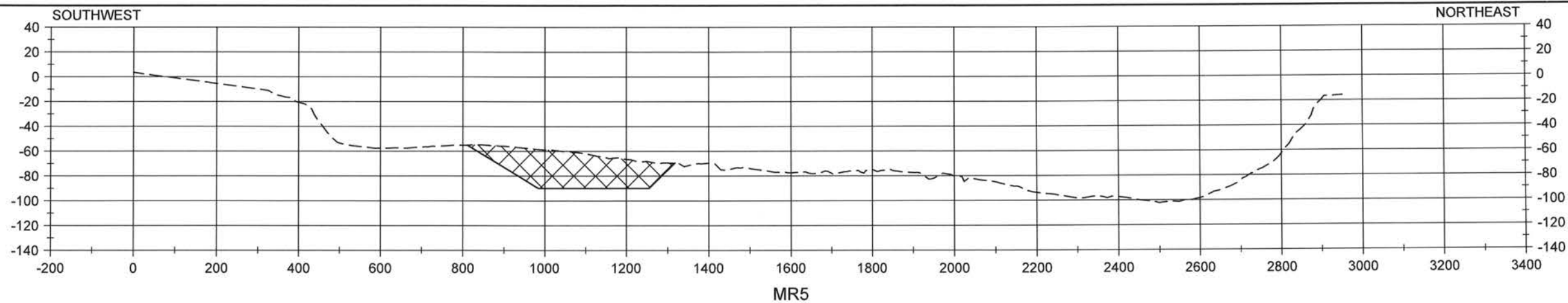


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM



COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	POINT CELESTE ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730	APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661	BY
				DATE
				REV.
				DESCRIPTION
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	SHEET 50 OF 73

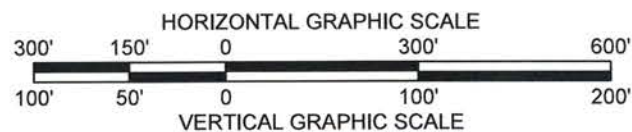
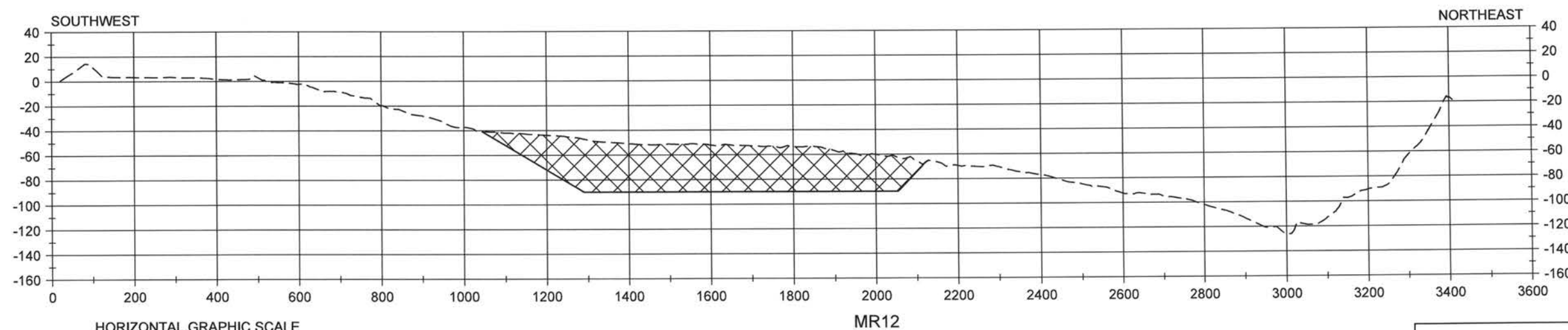
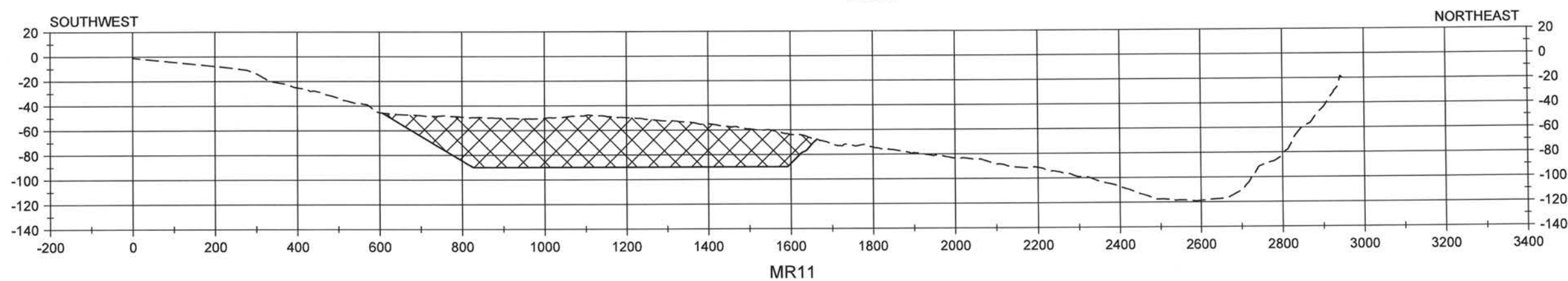
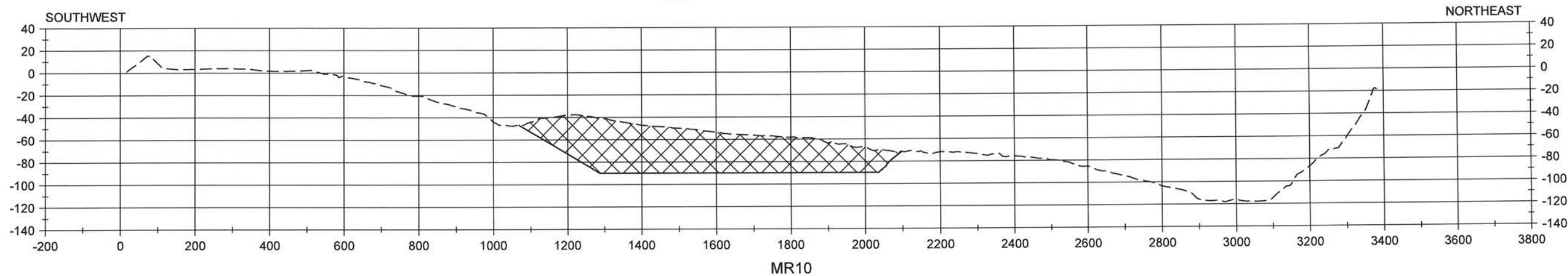
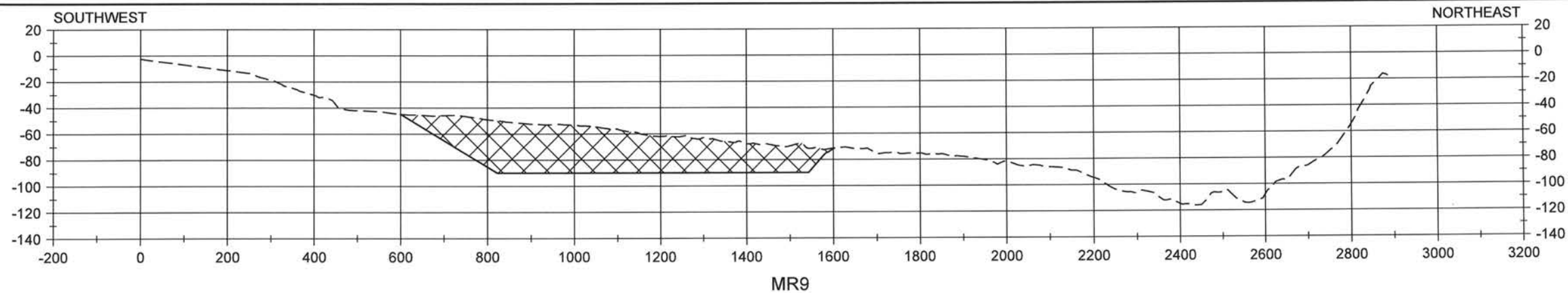


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

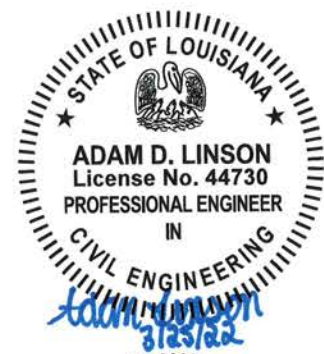


COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	POINT CELESTE ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 44730 P.E. NO. 27661	BY
				DATE
				REV.
GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	SHEET 51 OF 73



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

POINT CELESTE ANCHORAGE
BORROW AREA SECTIONS

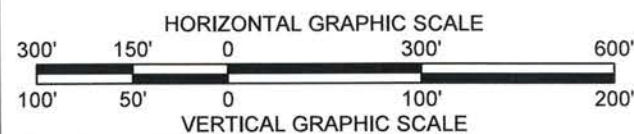
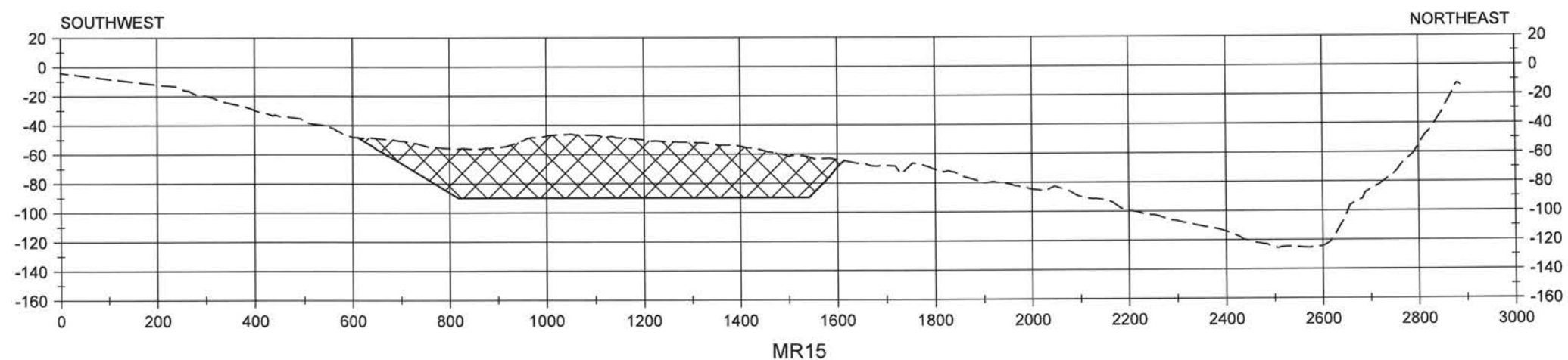
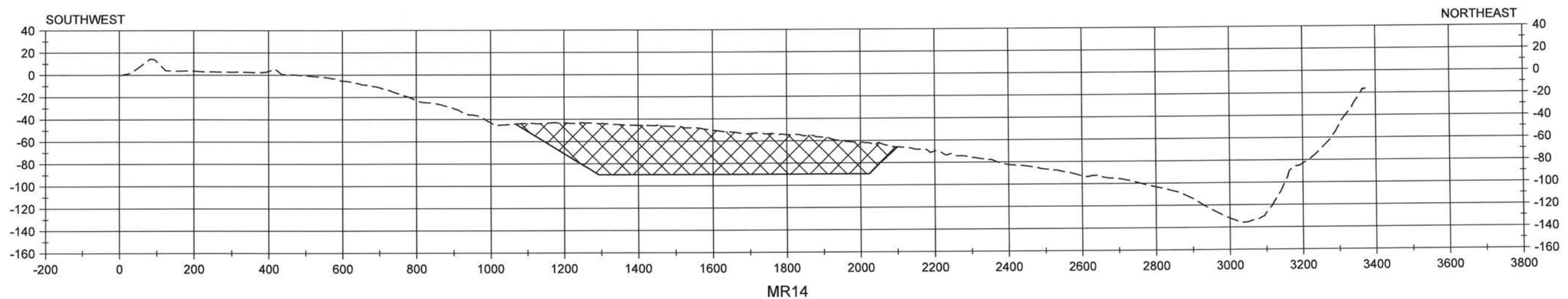
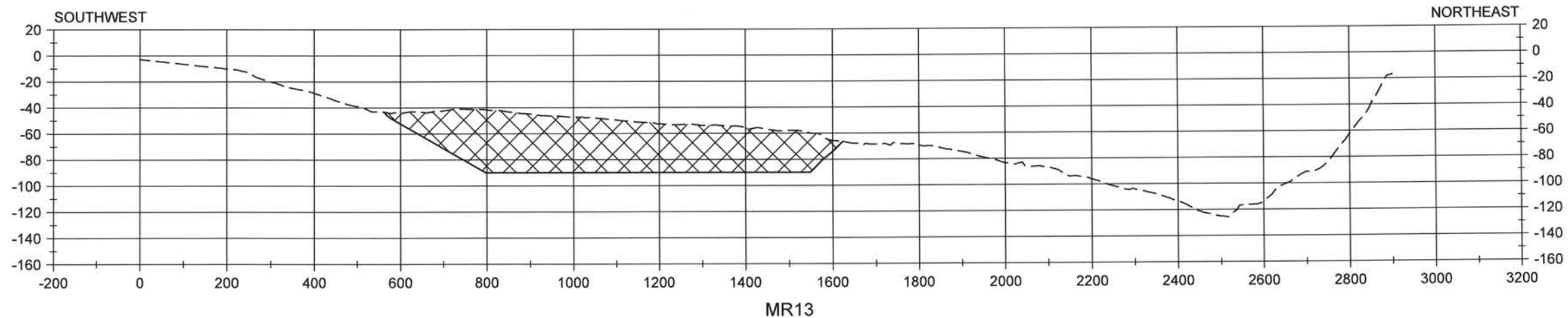
GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661

STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 52 OF 73

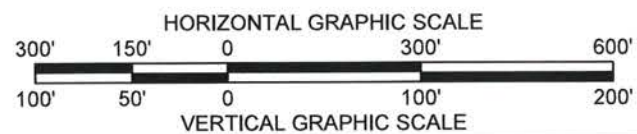
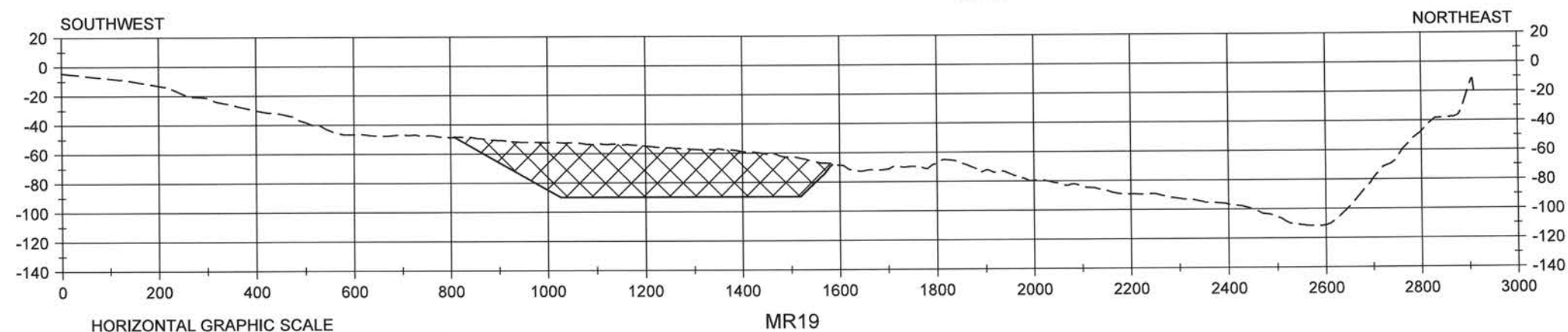
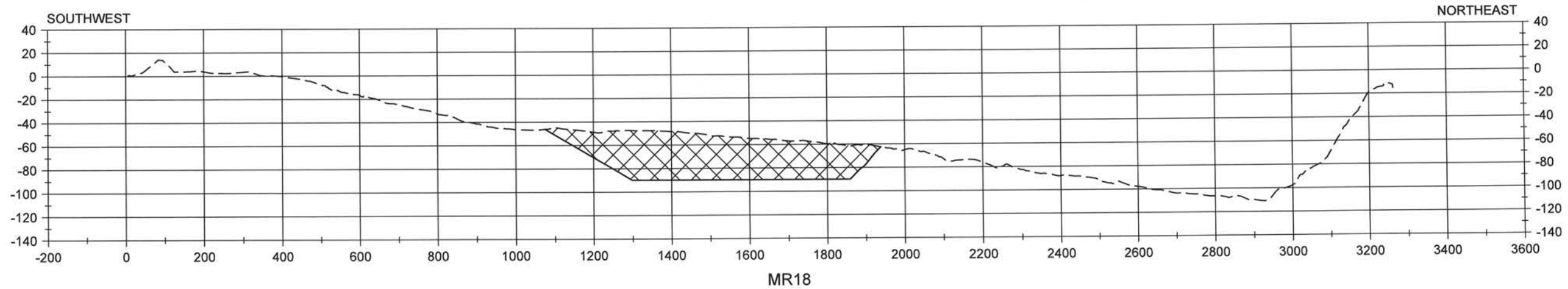
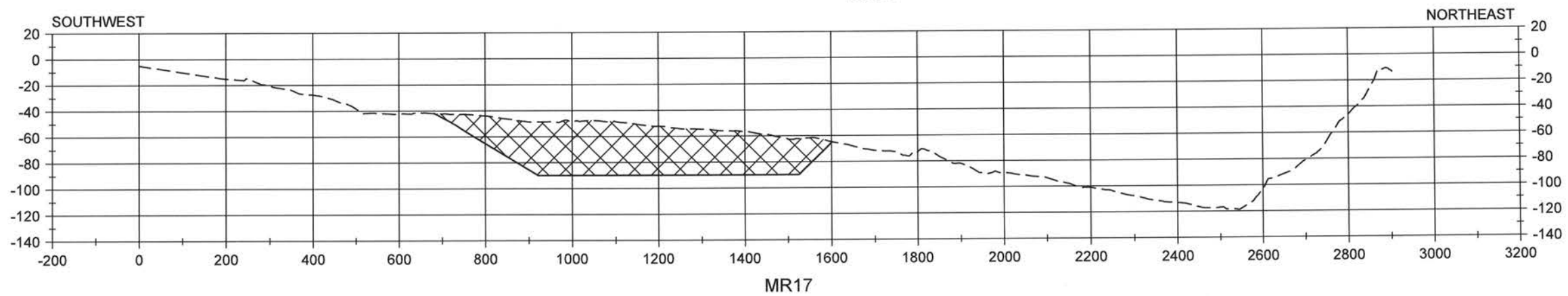
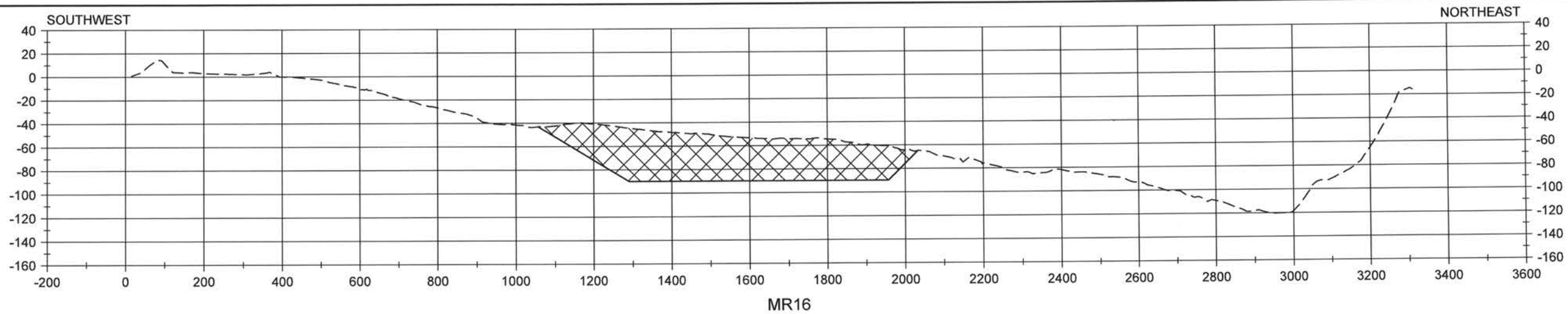


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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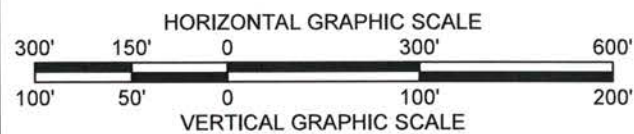
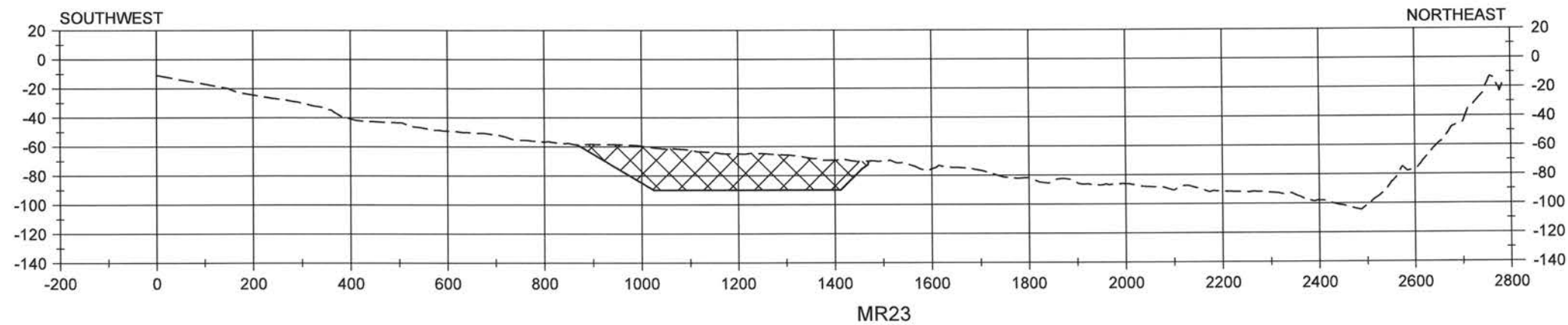
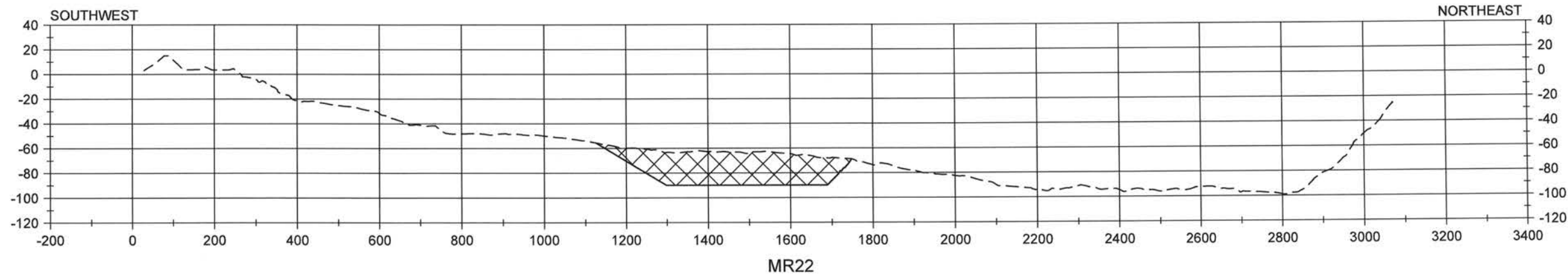
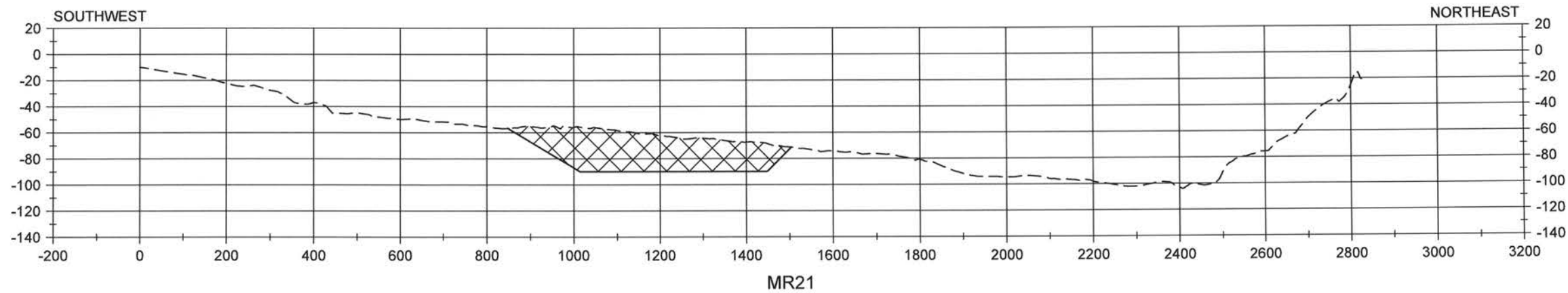
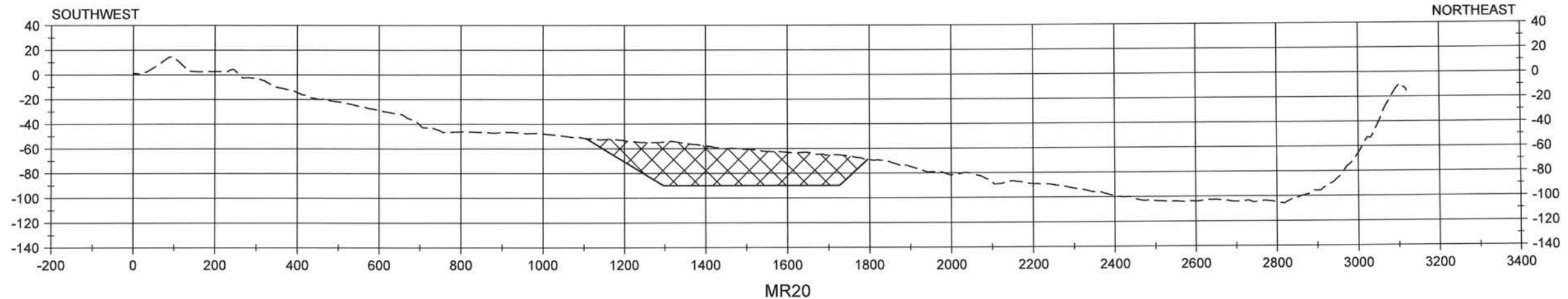


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

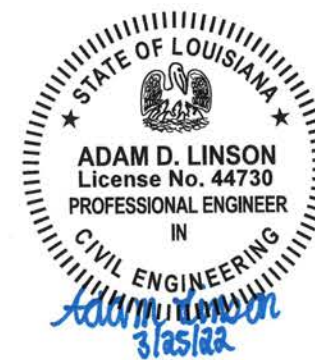


LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	POINT CELESTE ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730	APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661	BY
				DATE
				REV.
				DESCRIPTION
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	SHEET 54 OF 73

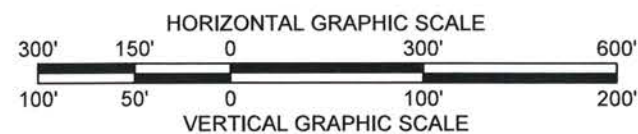
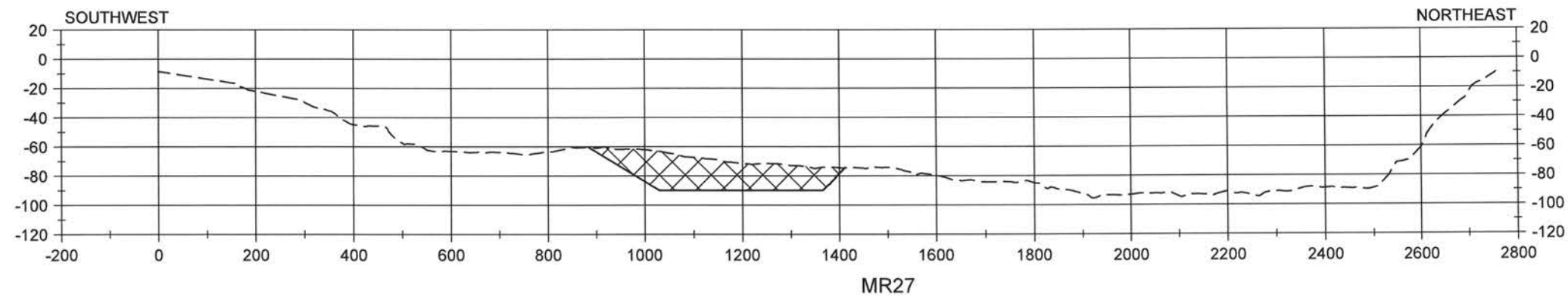
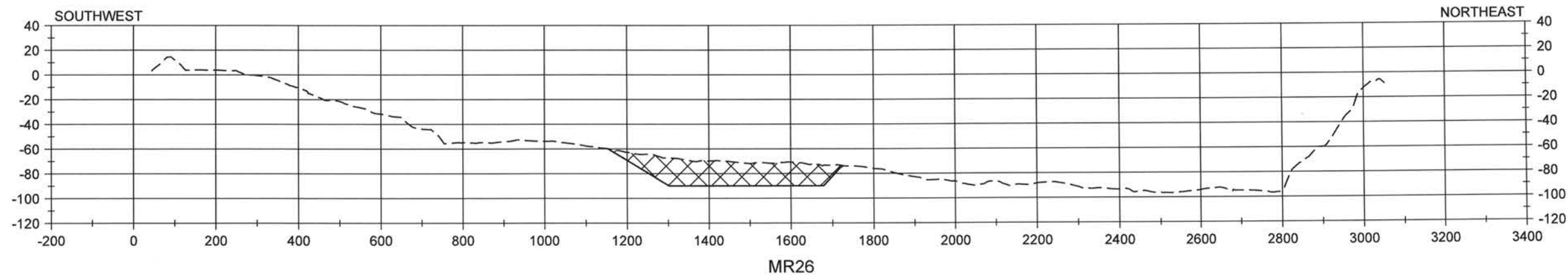
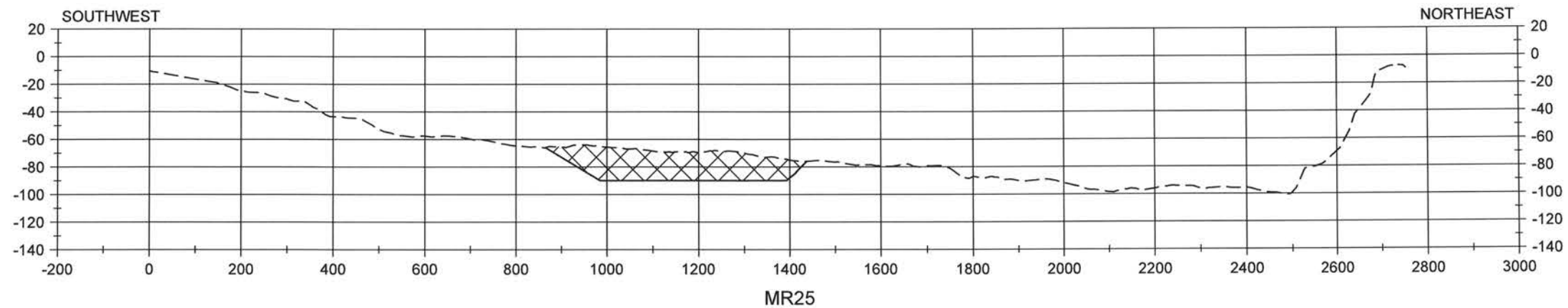
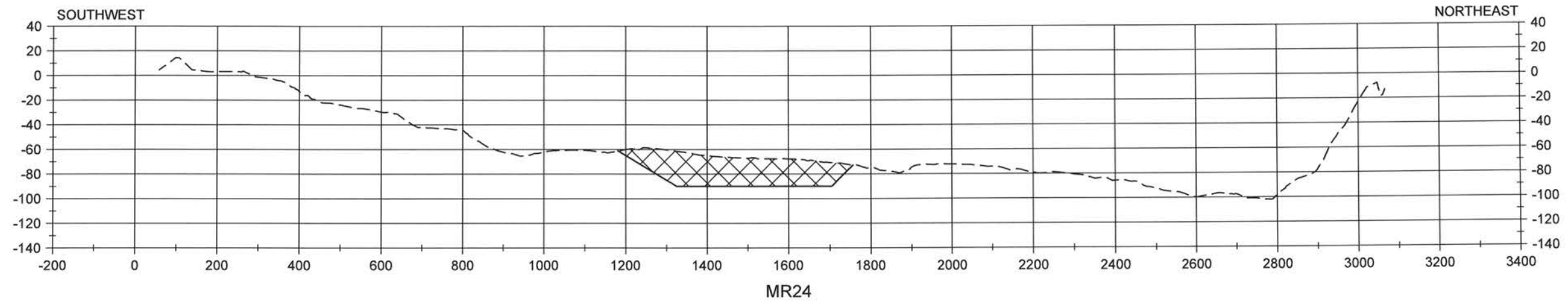


NOTE:
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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	POINT CELESTE ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730 APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661	DATE	DESCRIPTION	BY
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	SHEET 55 OF 73	

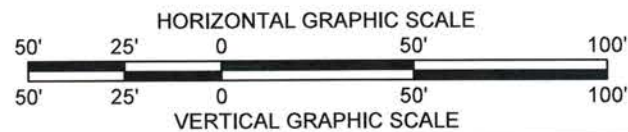
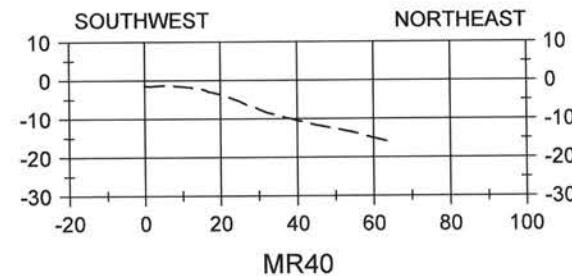
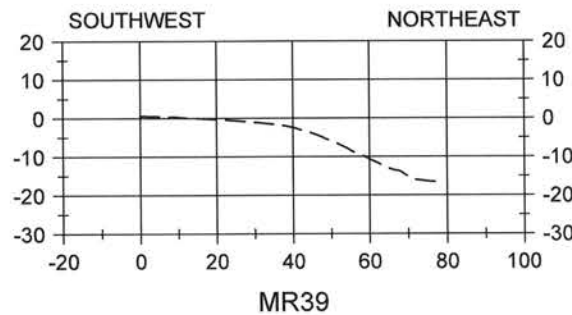
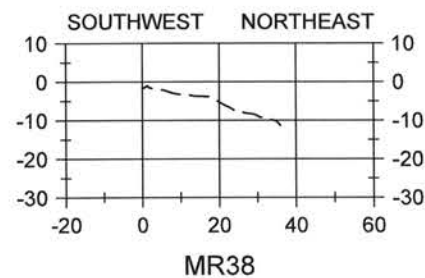
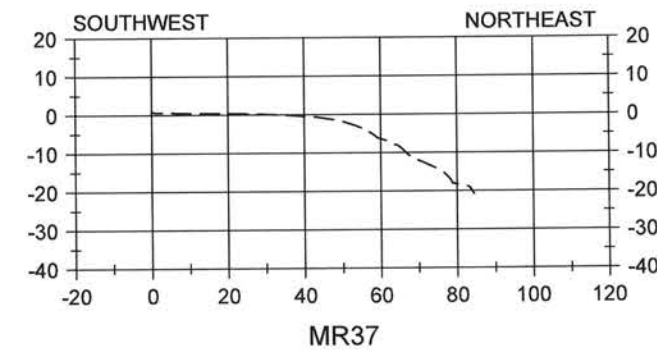
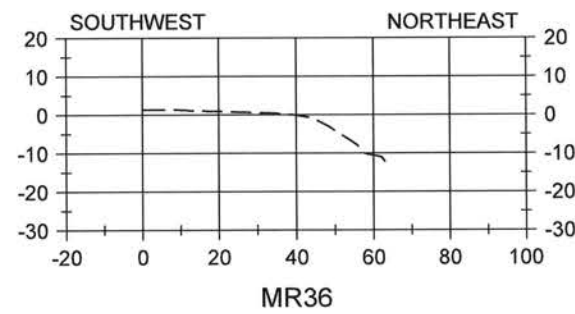
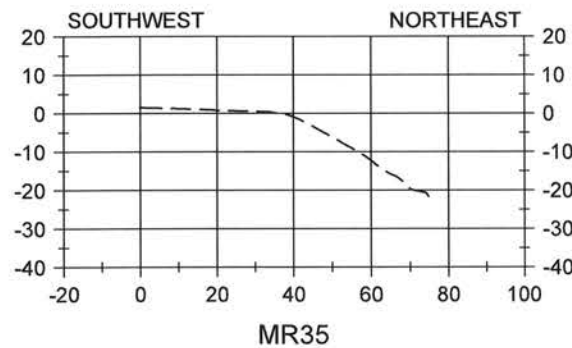
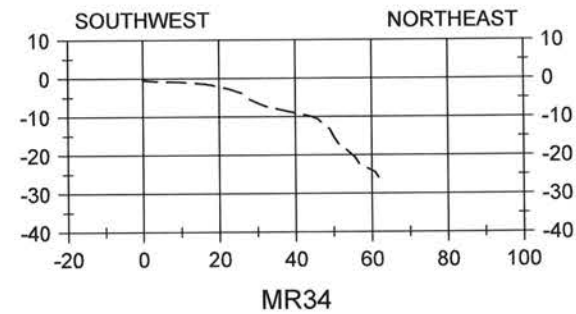
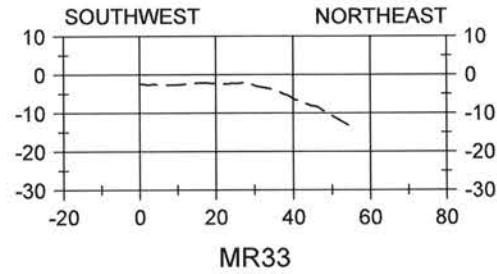
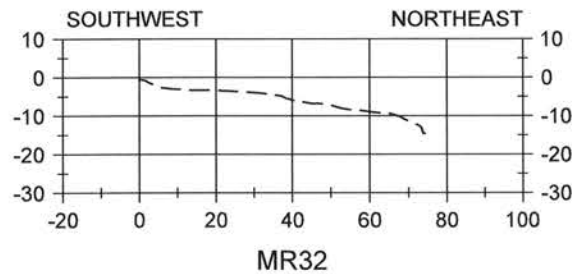


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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		POINT CELESTE ANCHORAGE BORROW AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802								
STATE PROJECT NUMBER BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730								
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661				REV.	DATE			DESCRIPTION
DATE: MAR. 2022												
SHEET 56 OF 73												

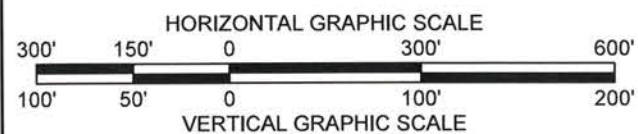
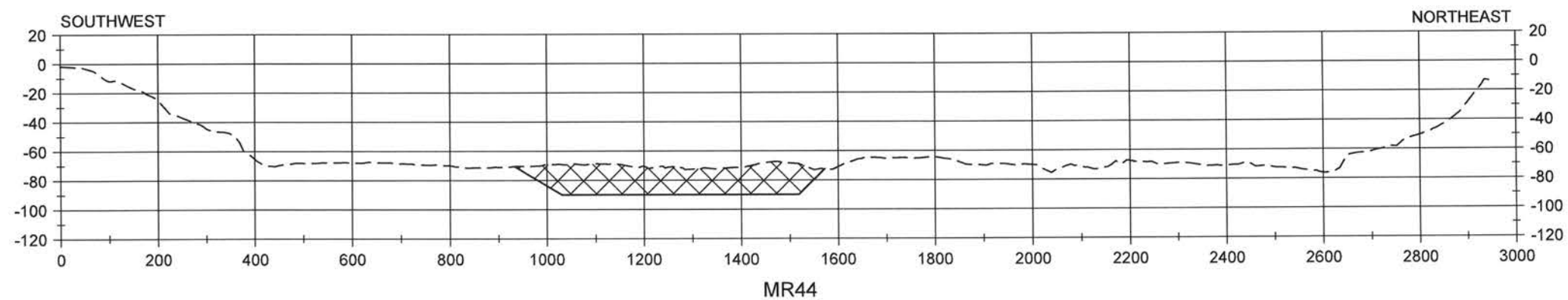
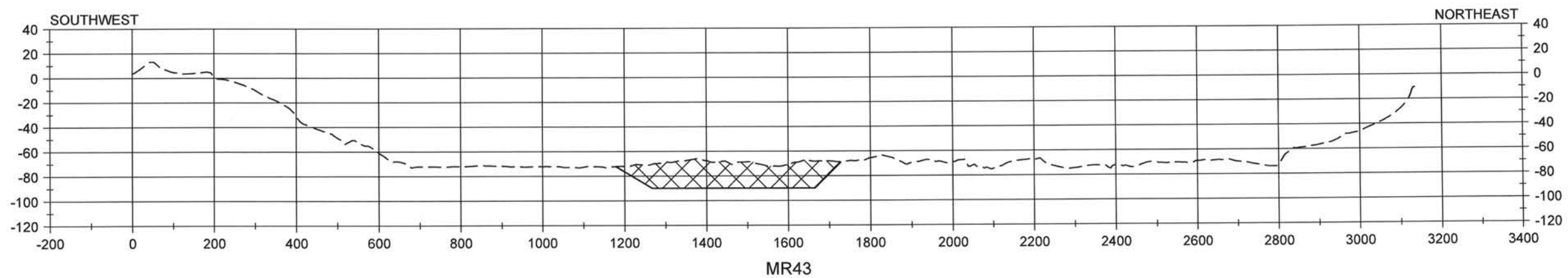
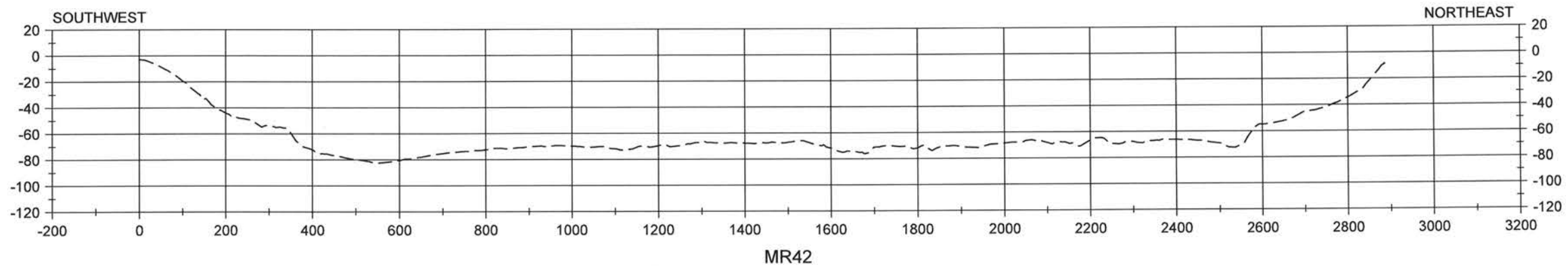
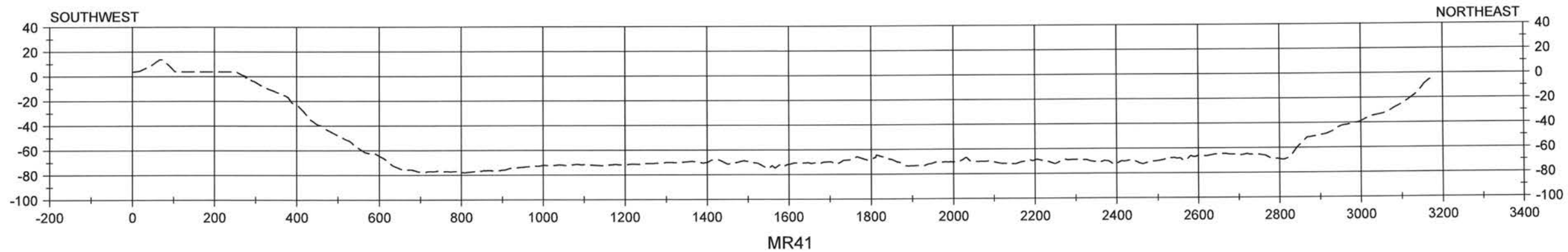


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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND
--- EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
MISSISSIPPI RIVER SECTIONS BETWEEN POINT CELESTE ANCHORAGE AND MAGNOLIA ANCHORAGE		DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730 APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661			
		GRANDE CHENIERE RIDGE MARSH CREATION PROJECT STATE PROJECT NUMBER: BA-0240 DRAWN BY: K. CANTU			
		DATE: MAR. 2022			
		SHEET 58 OF 73			

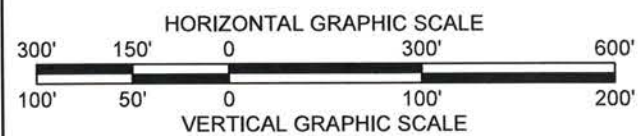
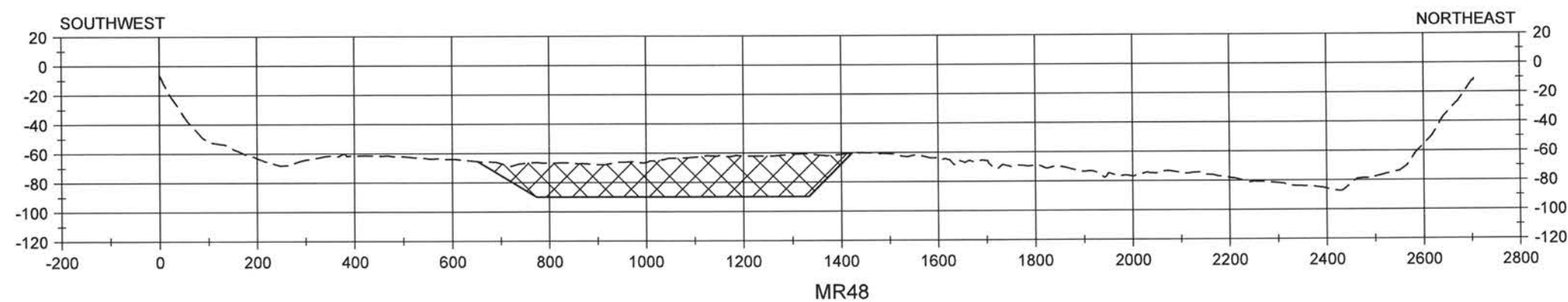
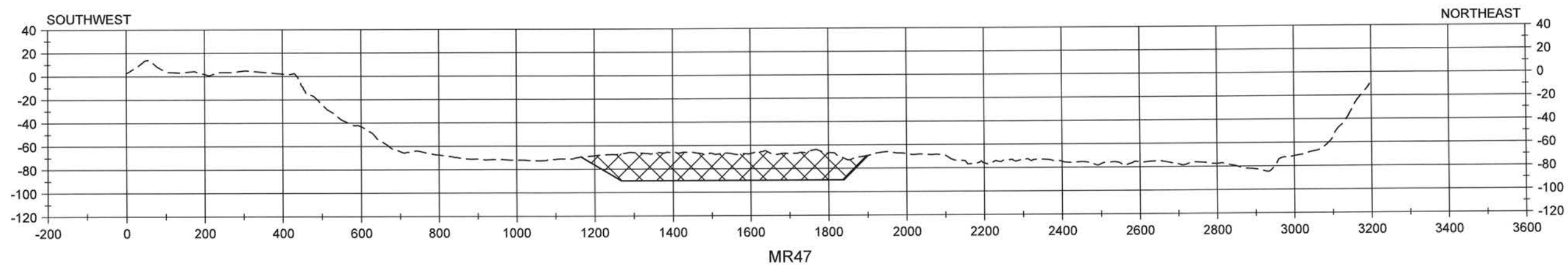
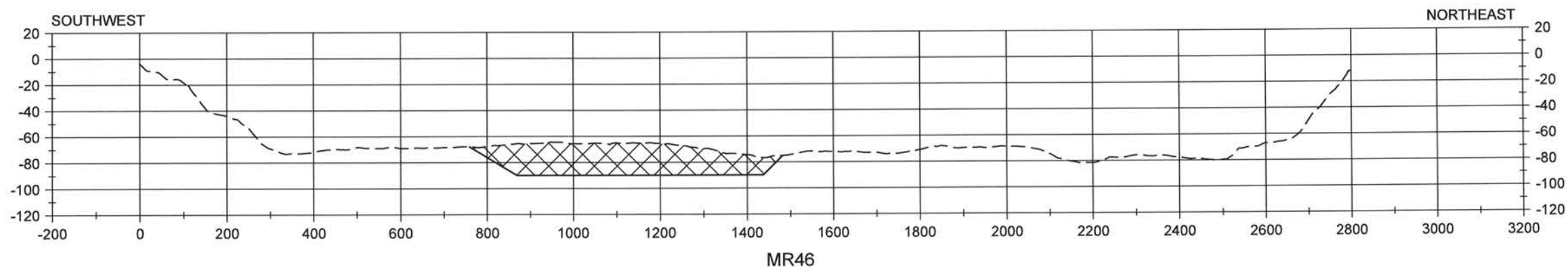
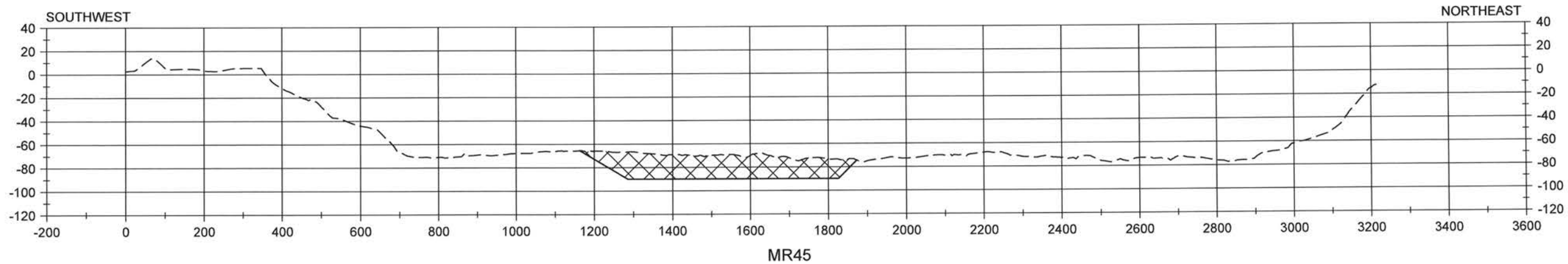


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

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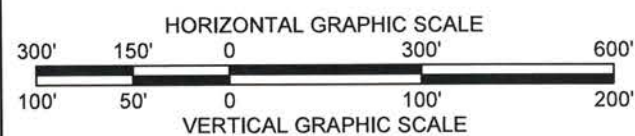
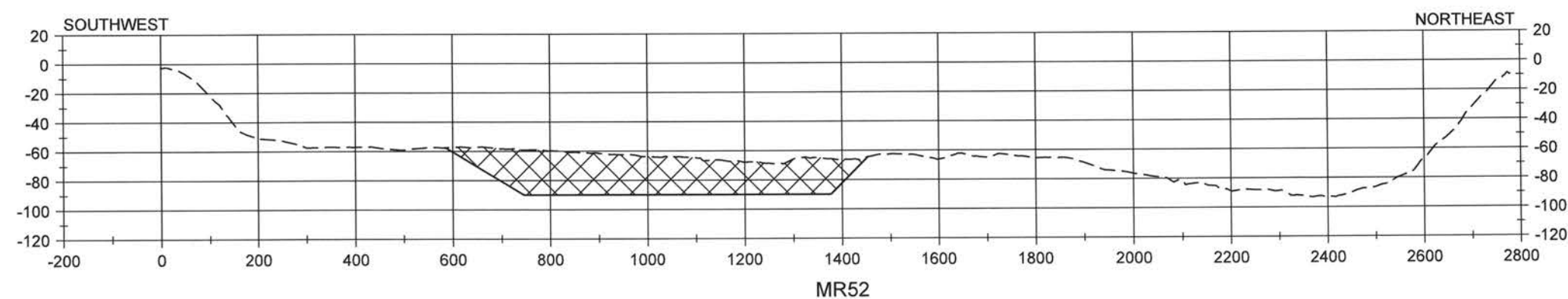
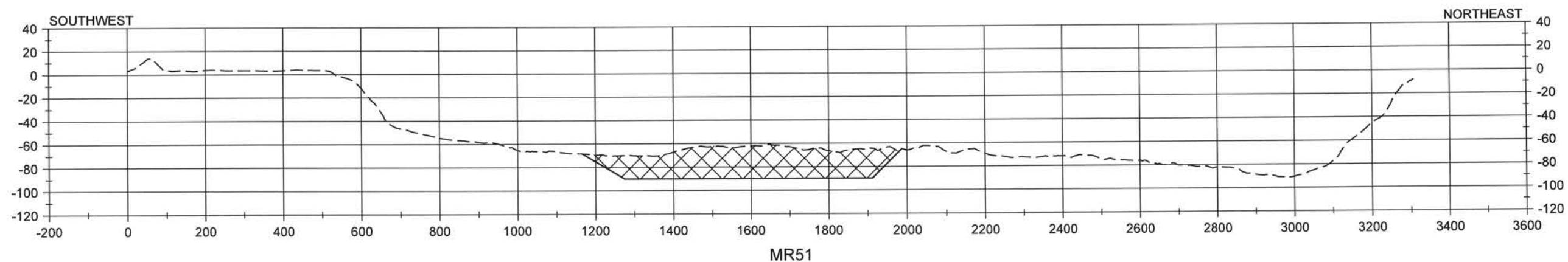
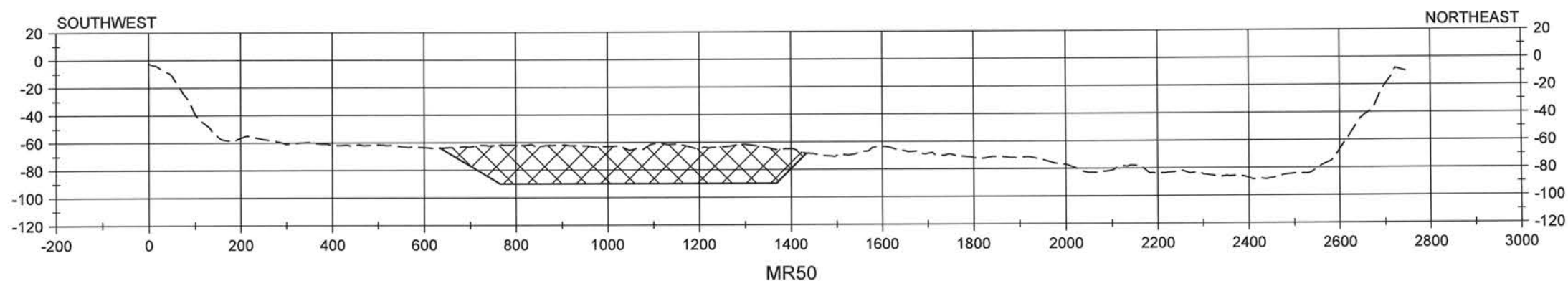
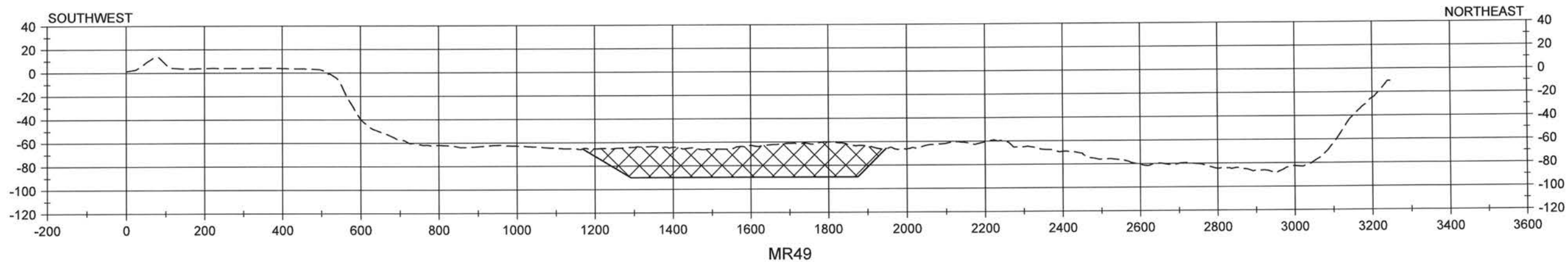


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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

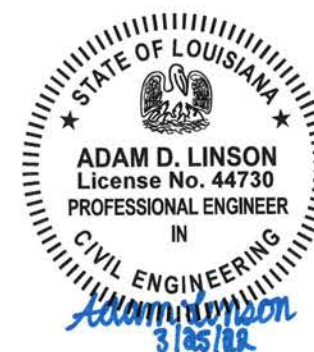


LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		MAGNOLIA ANCHORAGE BORROW AREA SECTIONS		GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	
		DESIGNED BY: A. LINSON, P.E.	P.E. NO. 44730	STATE PROJECT NUMBER: BA-0240	
		APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 27661		

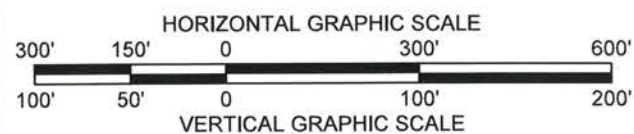
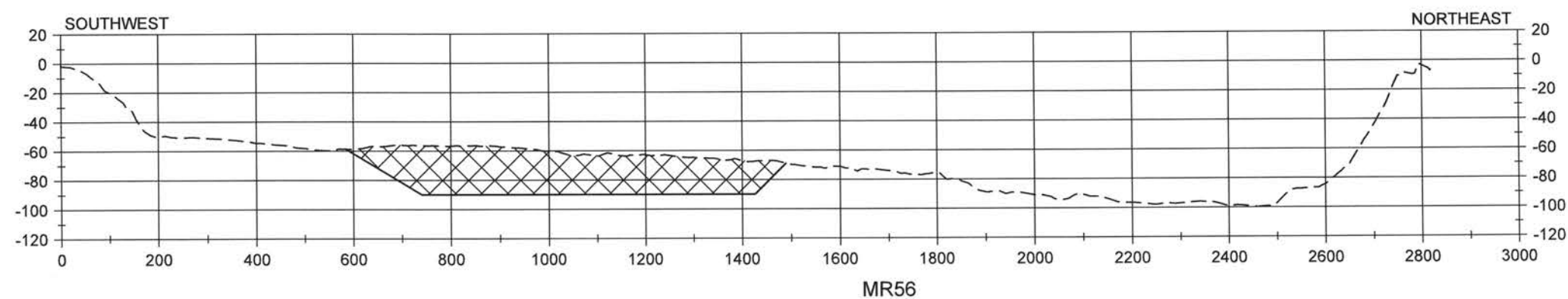
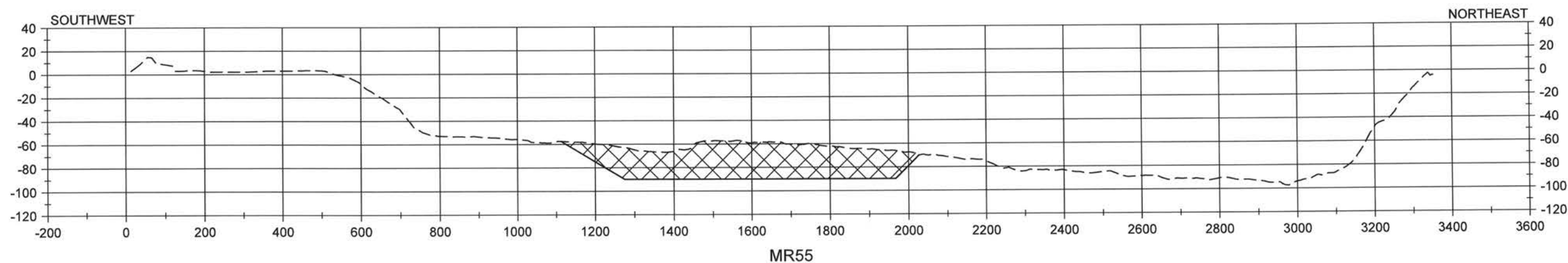
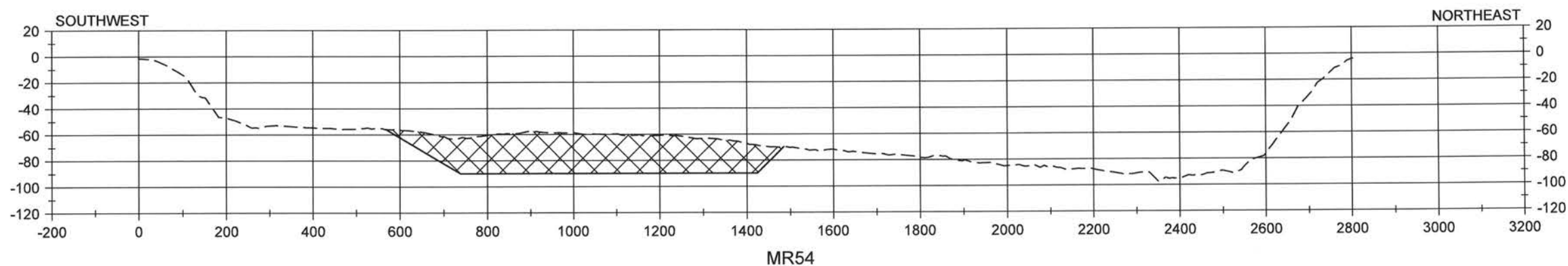
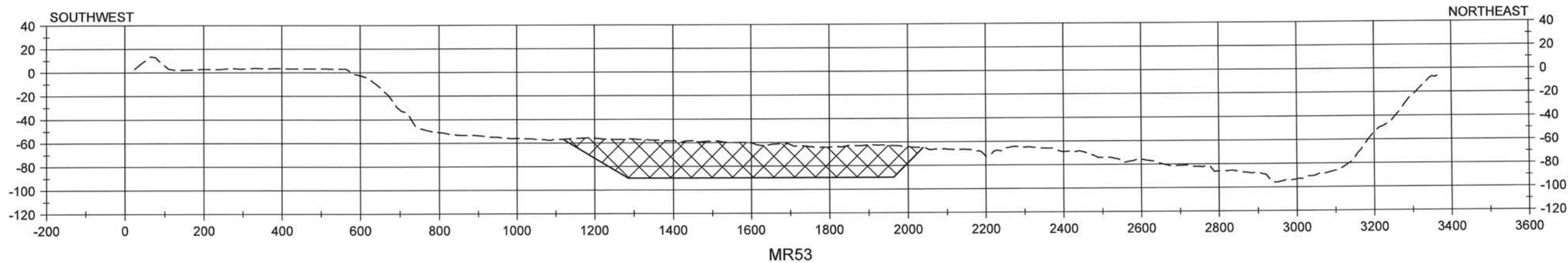


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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

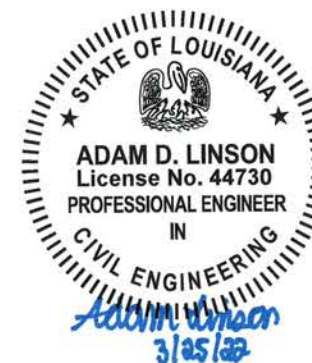


LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802								
		MAGNOLIA ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E.		P.E. NO 44730					
			APPROVED BY: B. JOFFRION, P.E.		P.E. NO 27661					
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT				STATE PROJECT NUMBER: BA-0240						
DATE: MAR. 2022										
SHEET 61 OF 73										

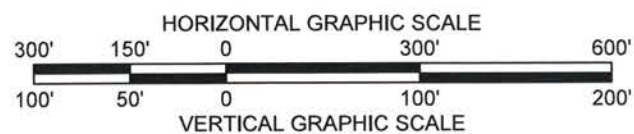
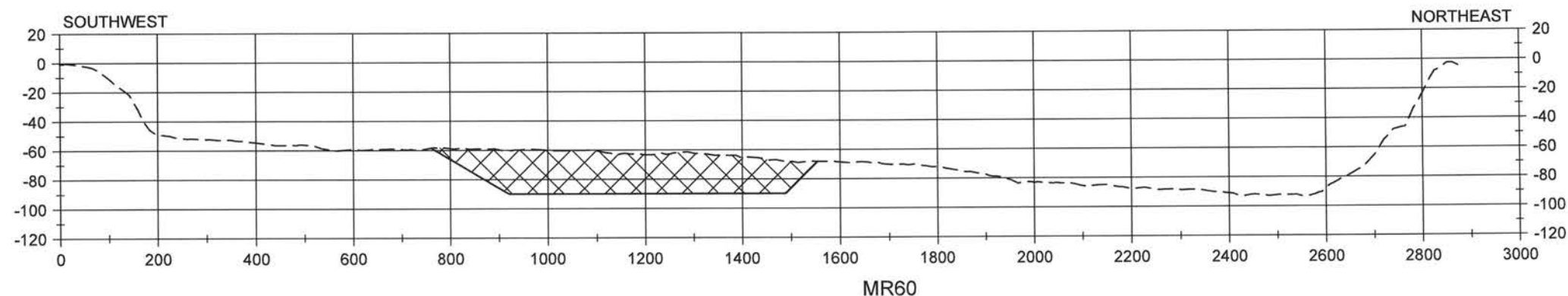
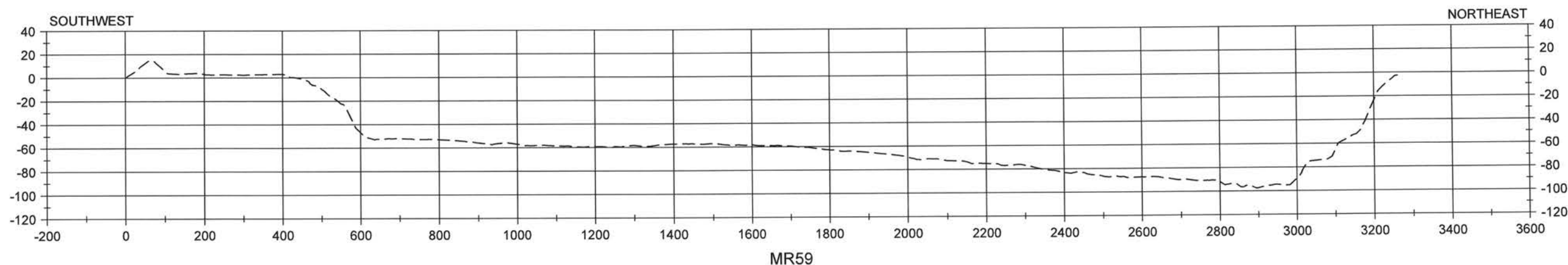
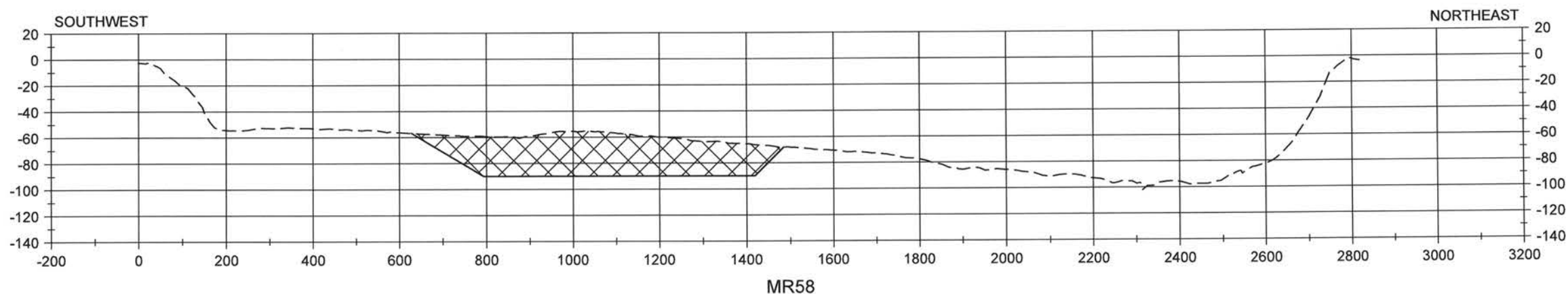
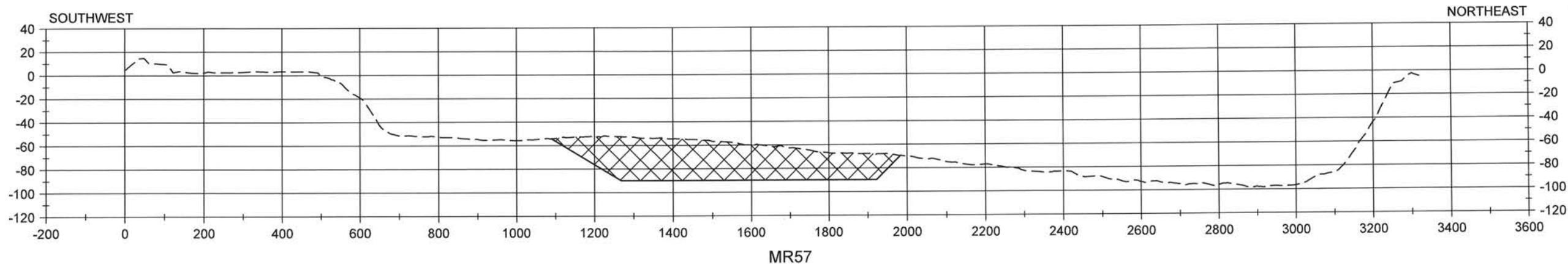


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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

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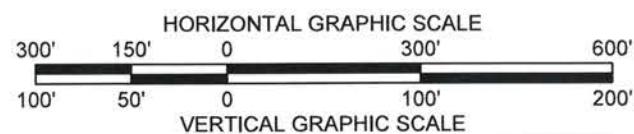
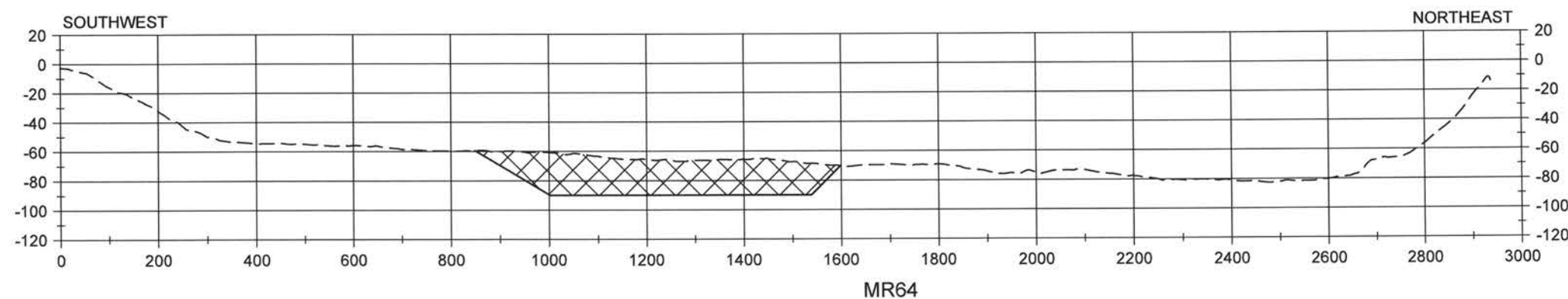
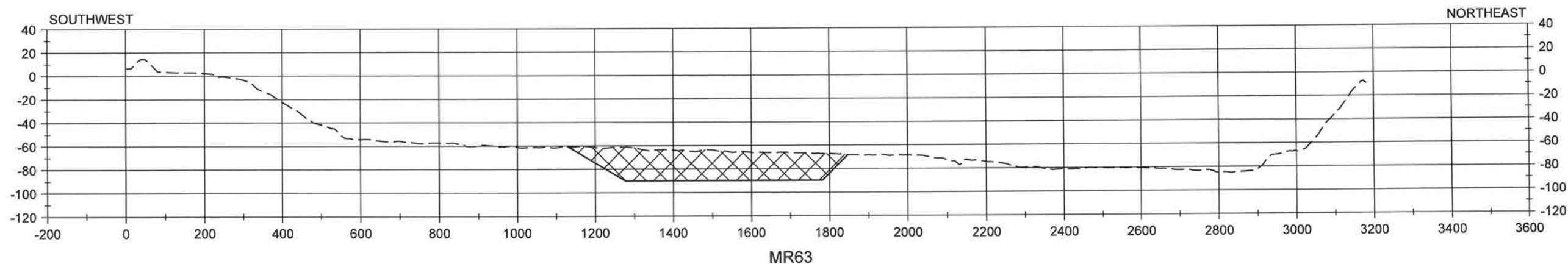
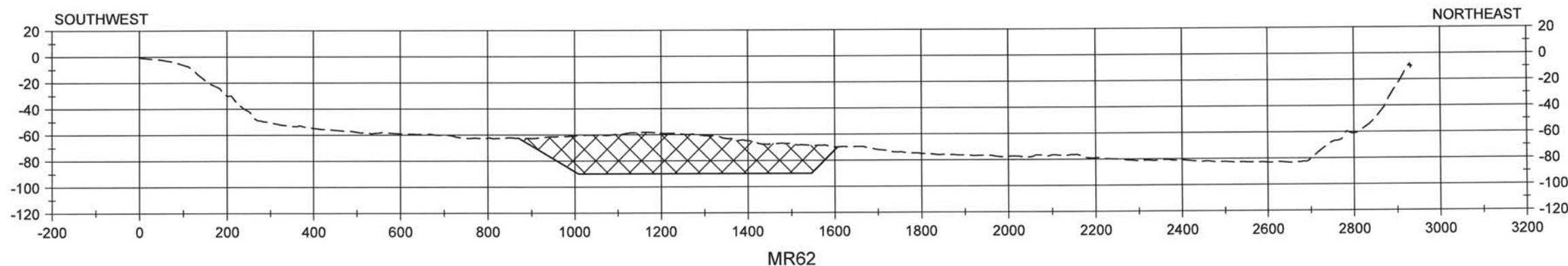
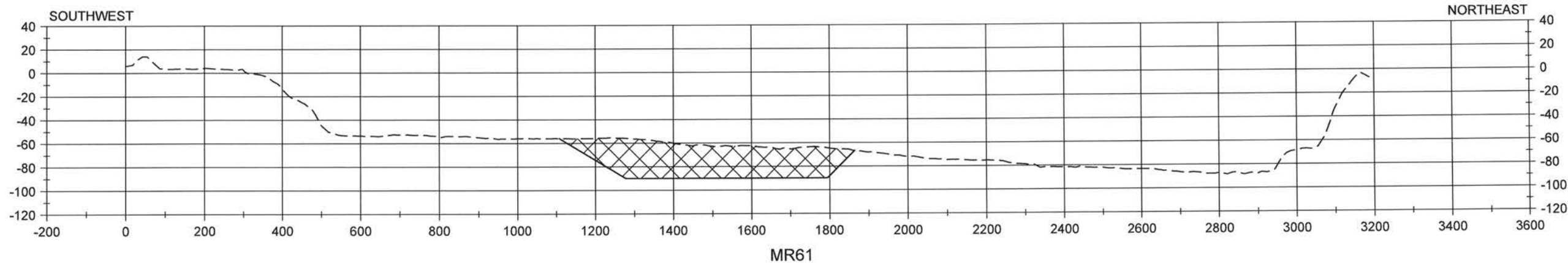


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		MAGNOLIA ANCHORAGE BORROW AREA SECTIONS		GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		DATE: MAR. 2022	
		DESIGNED BY: A. LINSON, P.E.		STATE PROJECT NUMBER: BA-0240		SHEET 63 OF 73	
		P.E. NO 44730					
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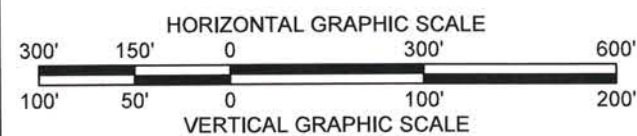
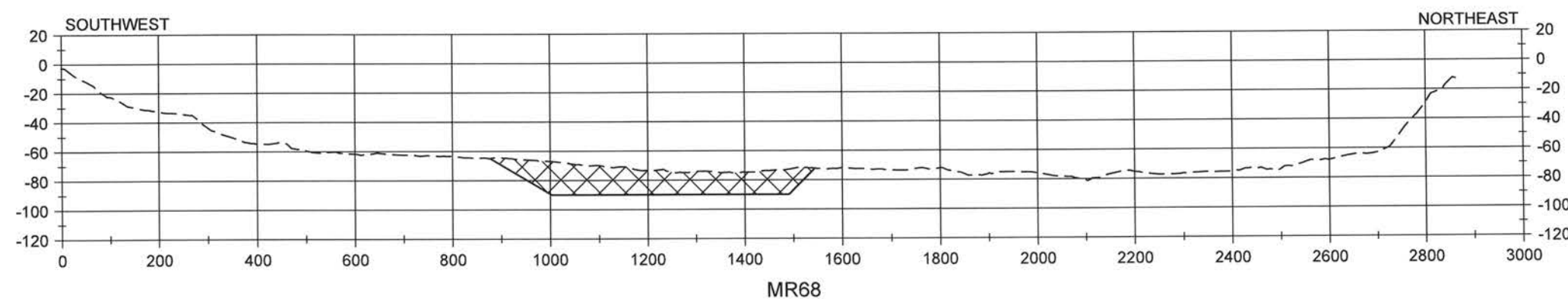
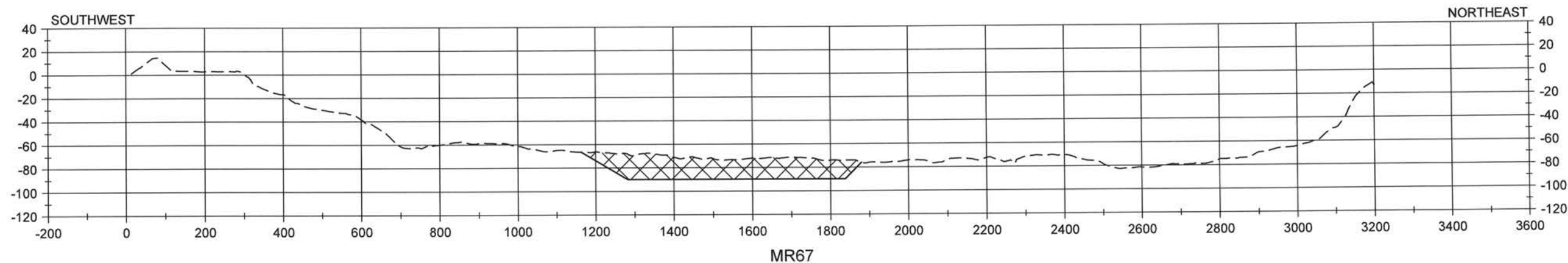
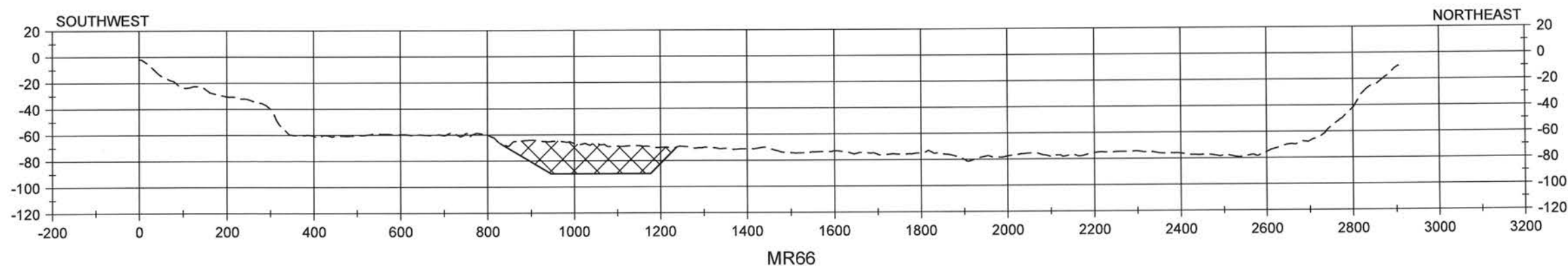
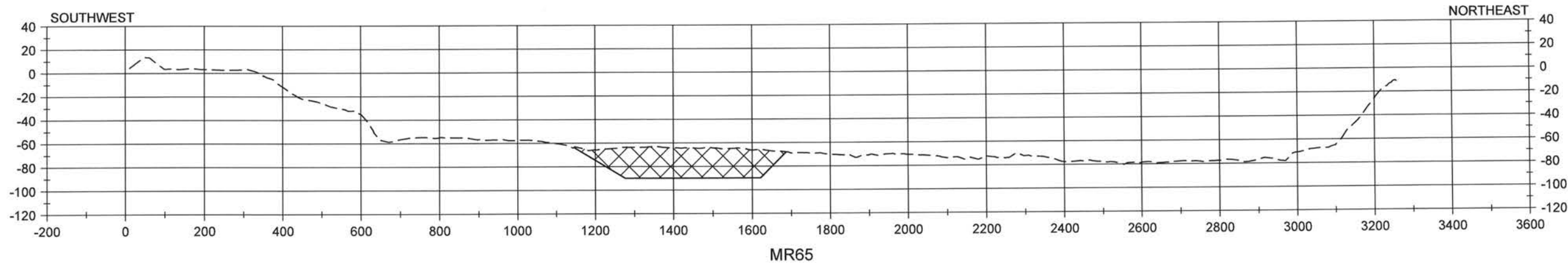


NOTE:
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AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



LEGEND	
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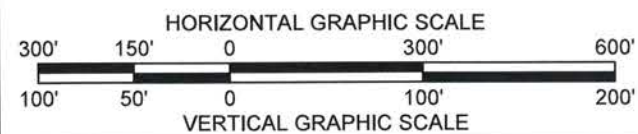
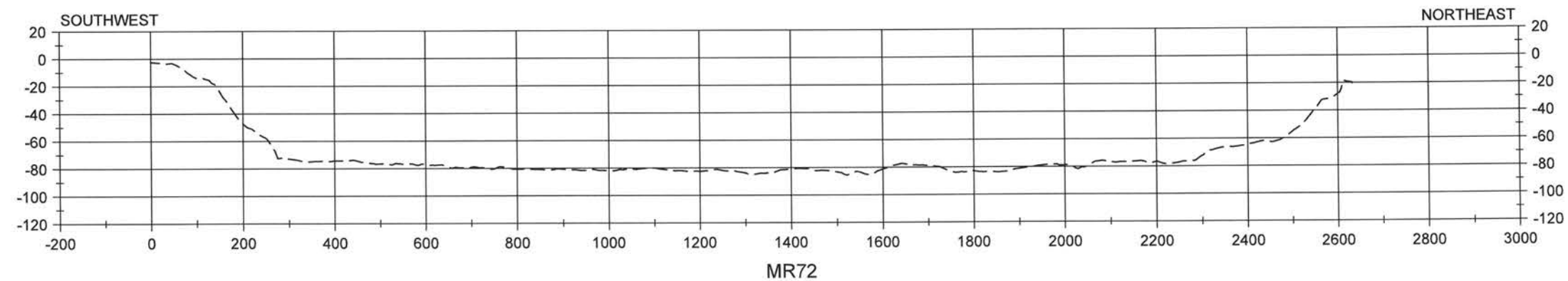
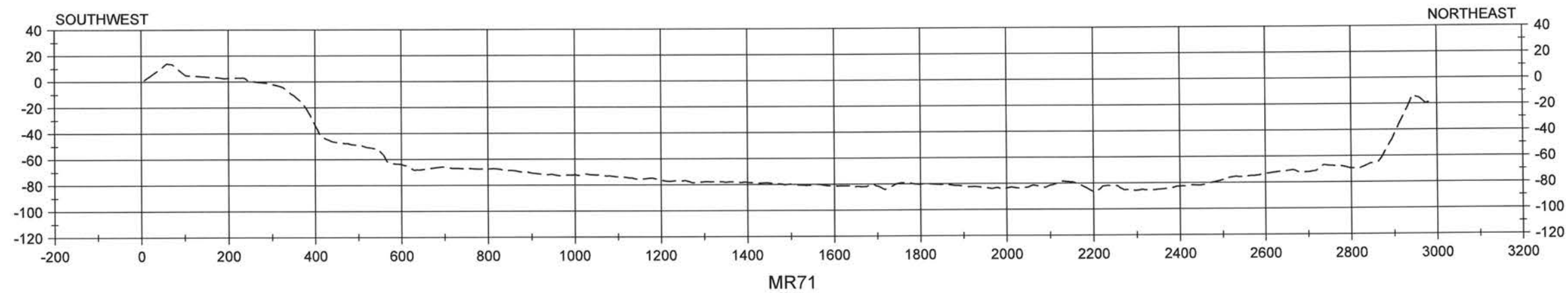
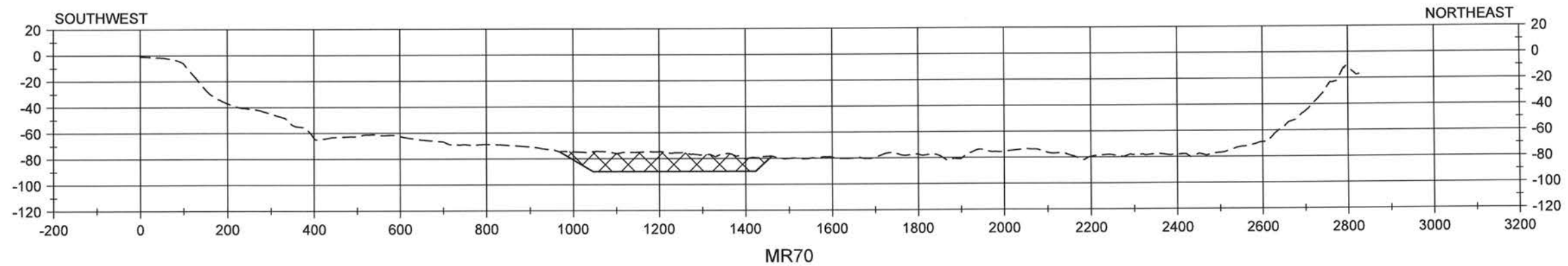
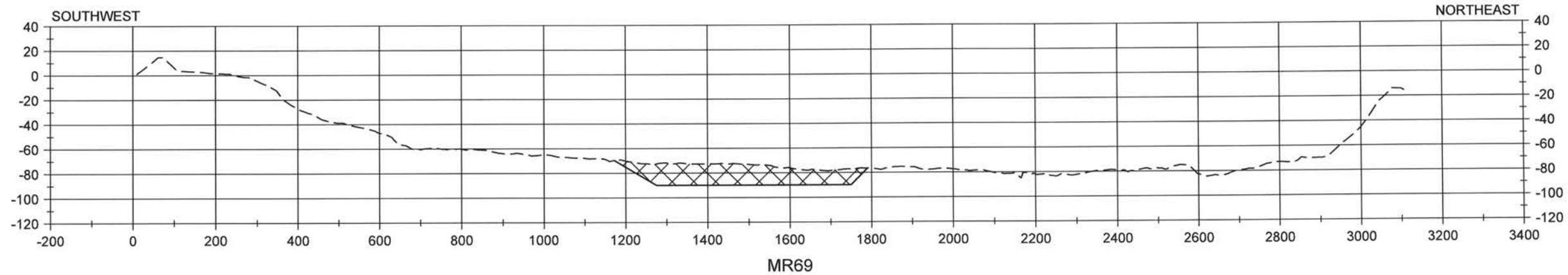


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



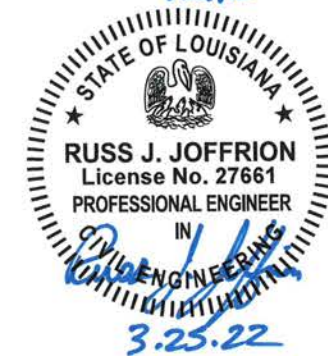
LEGEND	
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	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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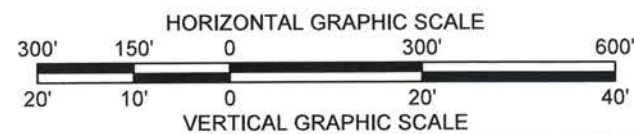
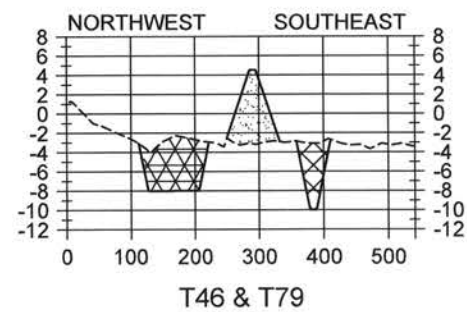
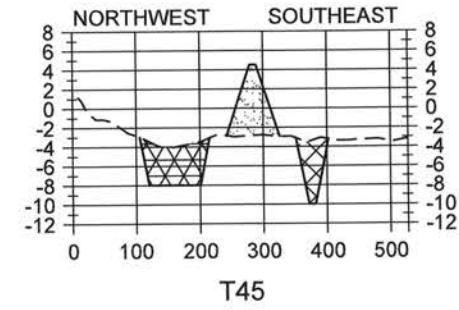
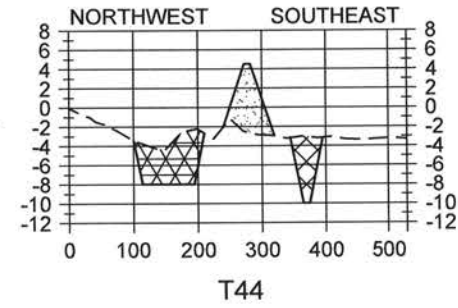
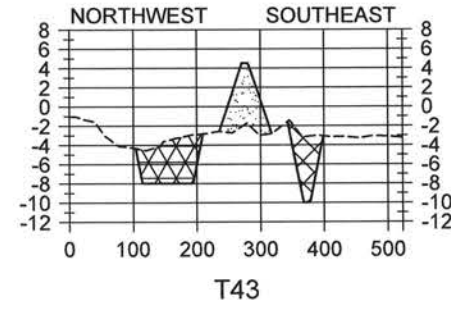
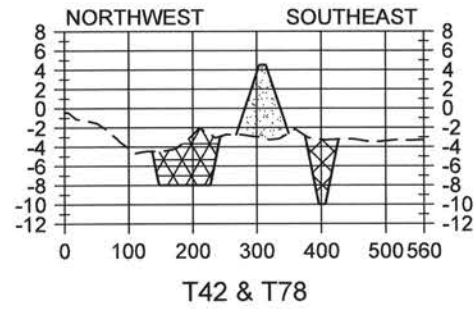
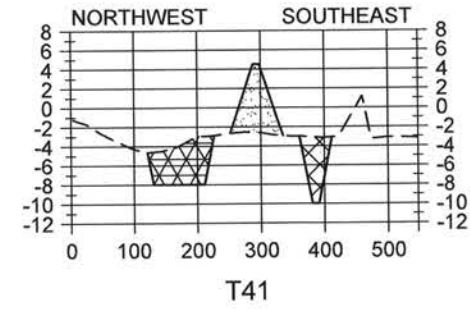
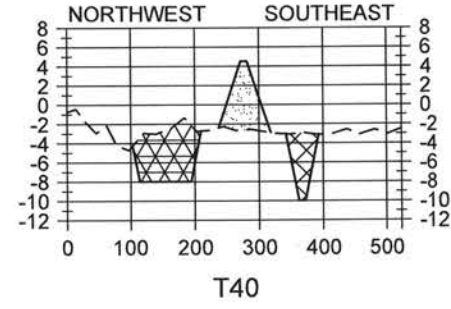
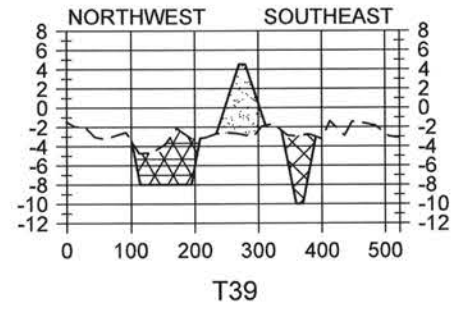
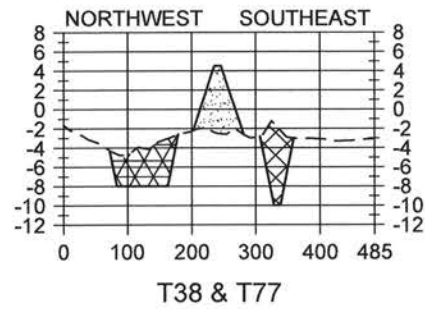


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND	
	MISSISSIPPI RIVER BORROW AREA (MRBA)
	EXISTING WATER BOTTOM



COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	MAGNOLIA ANCHORAGE BORROW AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. APPROVED BY: R. JOFFRION, P.E.	P.E. NO. 44730 P.E. NO. 27661	BY
				DATE
				REV.
				DESCRIPTION
GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240 DRAWN BY: K. CANTU	DATE: MAR 2022	SHEET 66 OF 73	

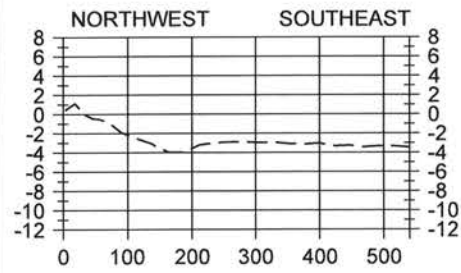


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

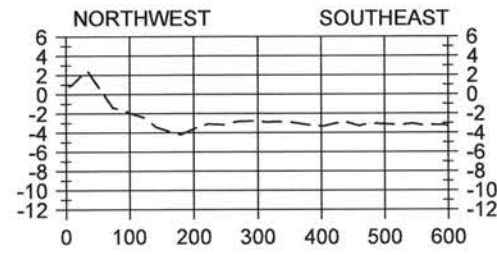


LEGEND	
	EARTHEN RIDGE
	EARTHEN RIDGE BORROW AREA
	EQUIPMENT ACCESS CORRIDOR
	EXISTING GROUND

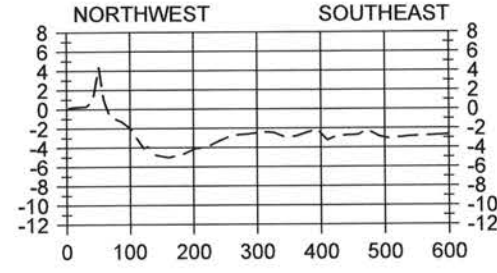
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT		EARTHEN RIDGE SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-0240		DESIGNED BY: A. LINSON, P.E.		P.E. NO. 44730									
DRAWN BY: K. CANTU		APPROVED BY: R. JOFFRION, P.E.		P.E. NO. 27661									
DATE: MAR 2022				REV.	DATE	DESCRIPTION		BY					
SHEET 67 OF 73													



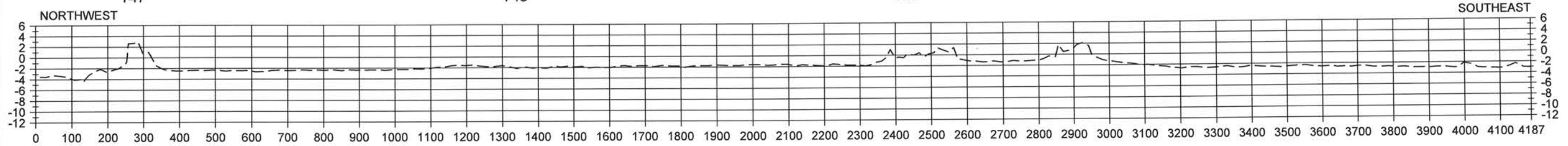
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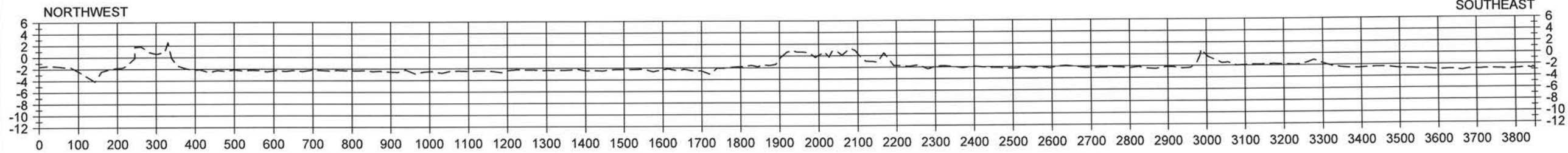
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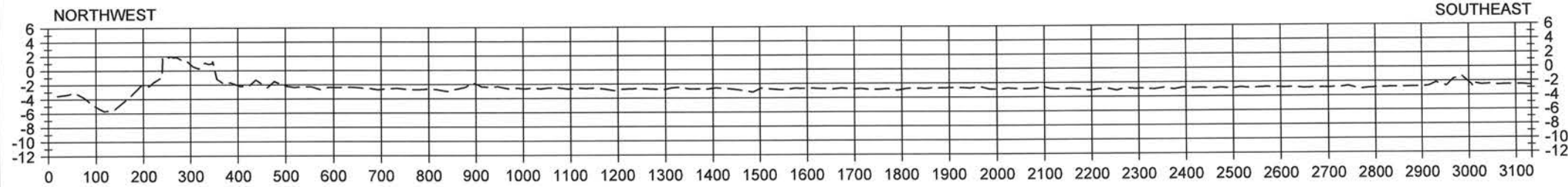
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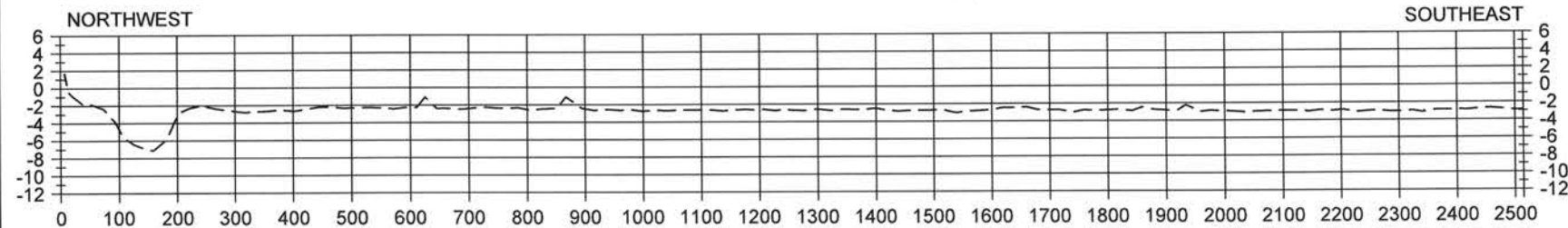
T50 & T80



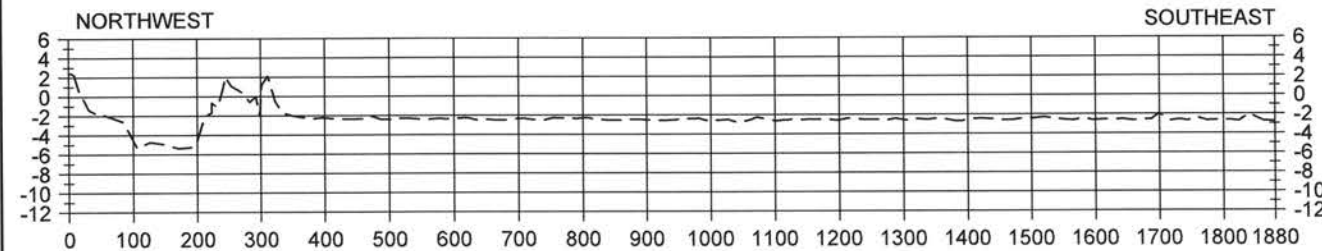
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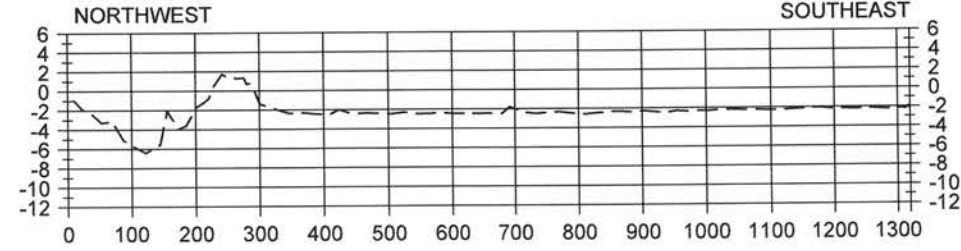
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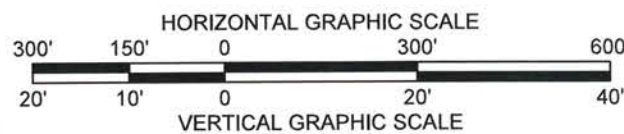
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T54



T55

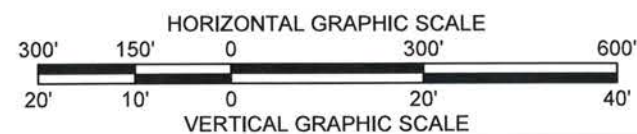
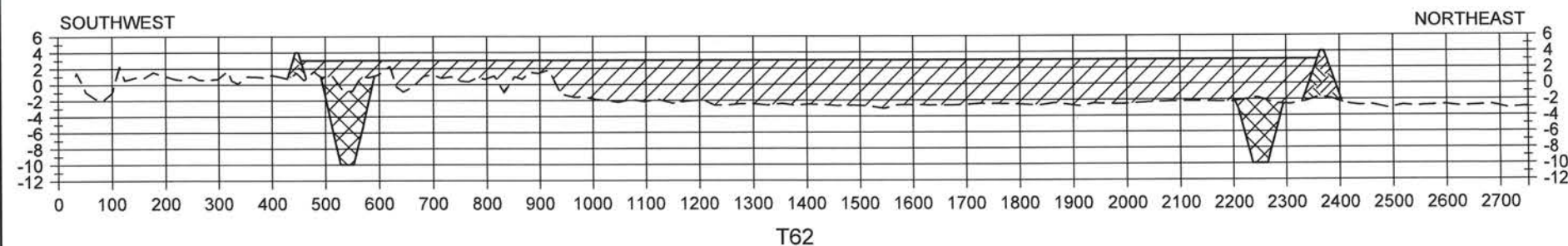
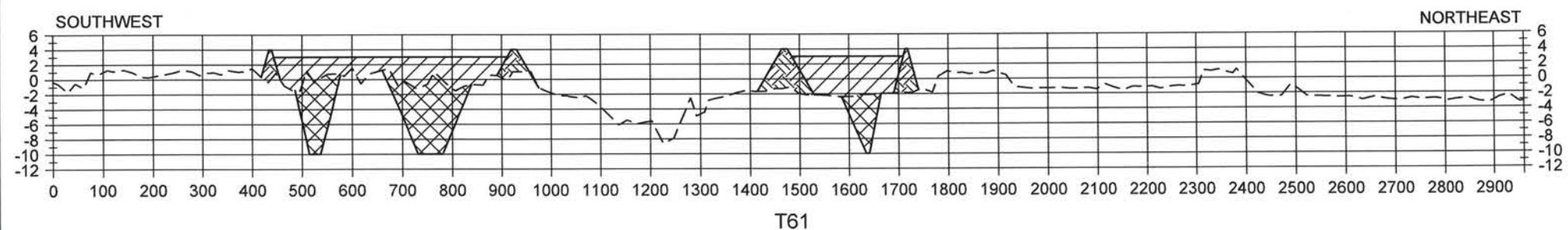
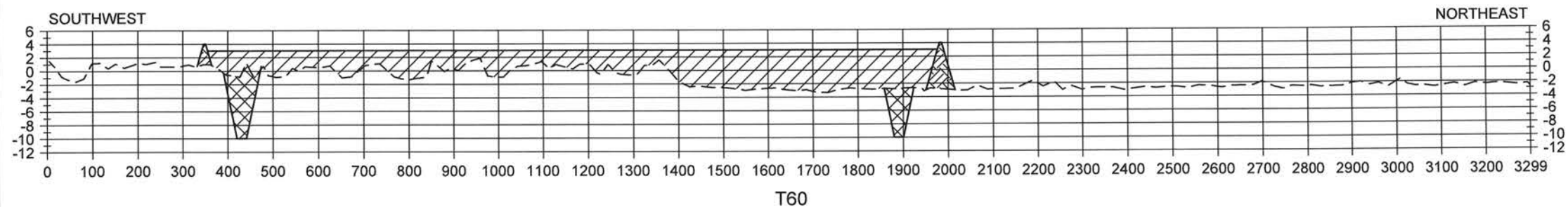
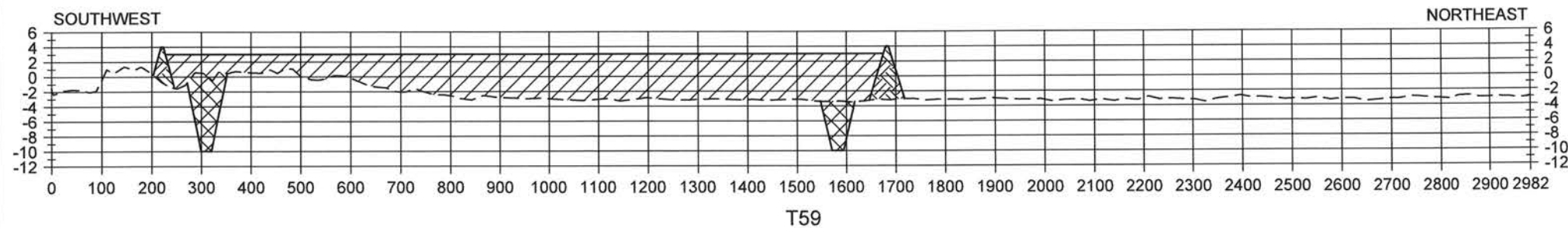
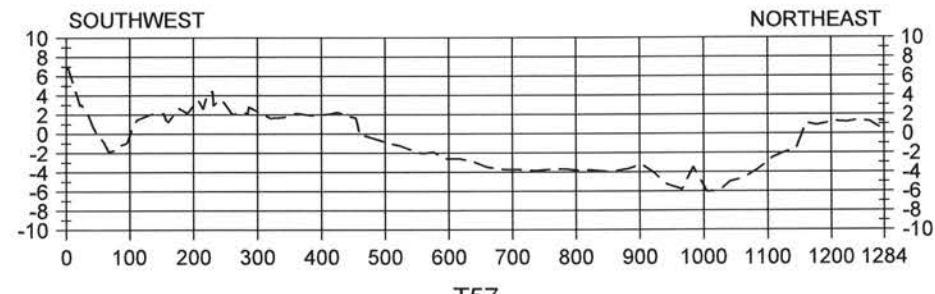


NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

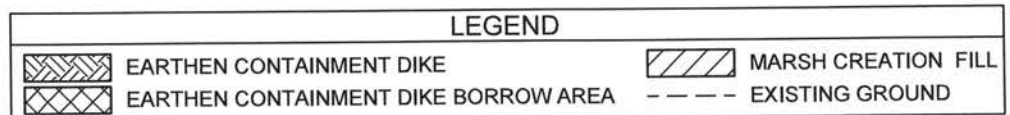


LEGEND	
---	EXISTING GROUND

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	MARSH CREATION AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730	APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661	BY
				DATE
				REV.
				DESCRIPTION
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU	DATE: MAR. 2022	
			SHEET 68 OF 73	



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



STATE OF LOUISIANA

★ ★

ADAM D. LINSON
License No. 44730
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Adam D. Linson
3/25/02

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION
AREA SECTIONS

GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO 44730

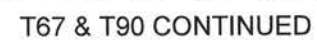
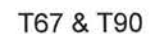
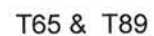
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661





STATE PROJECT NUMBER: BA-0240

DRAWN BY: K. CANTU

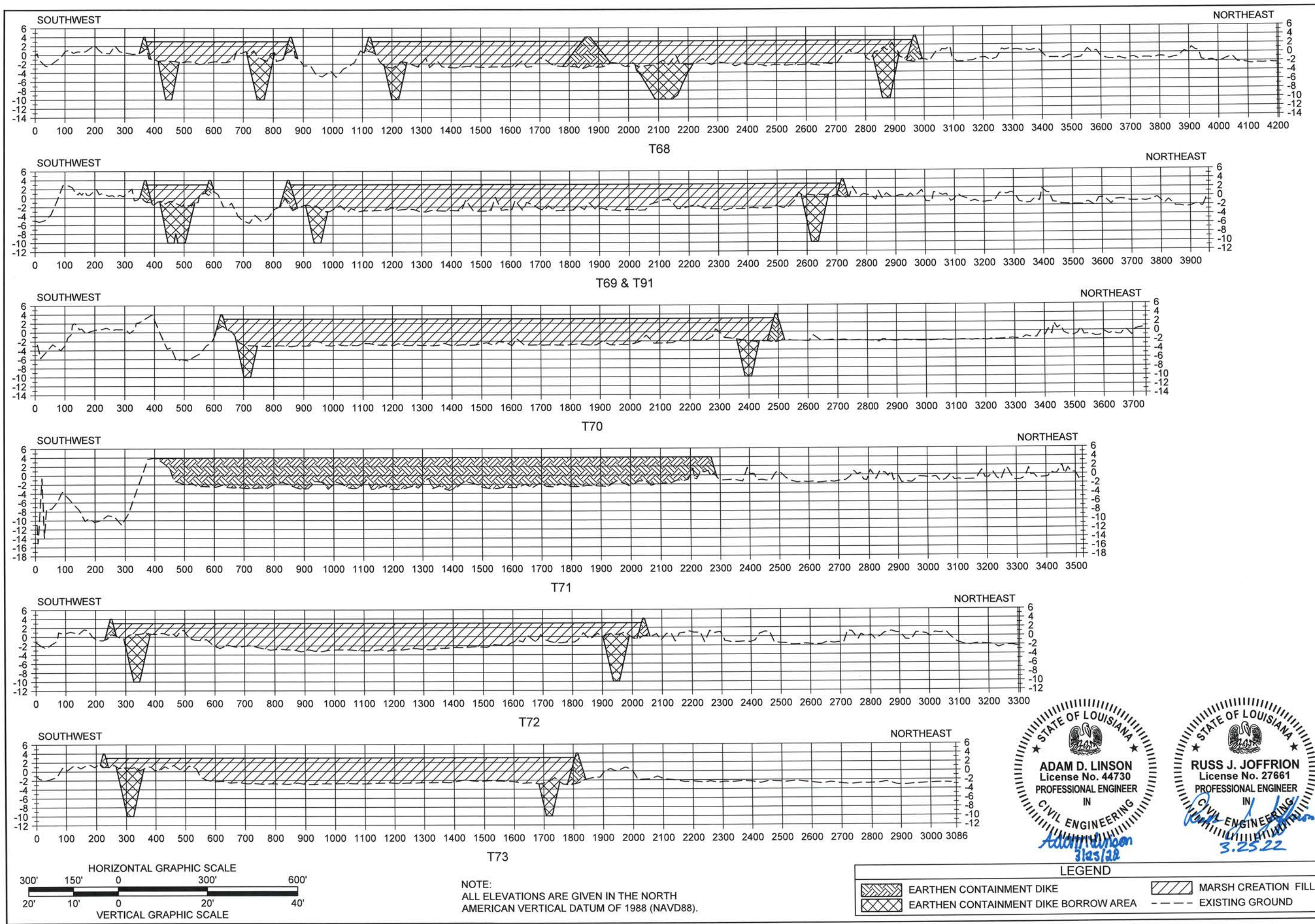
DATE: MAR. 2022

SHEET 69 OF 73

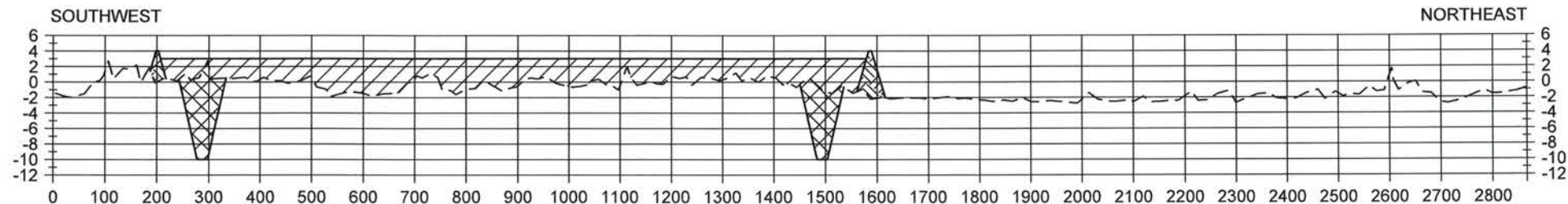


 EARTHEN CONTAINMENT DIKE
 EARTHEN CONTAINMENT DIKE BORROW AREA
 MARSH CREATION FILL
 EXISTING GROUND

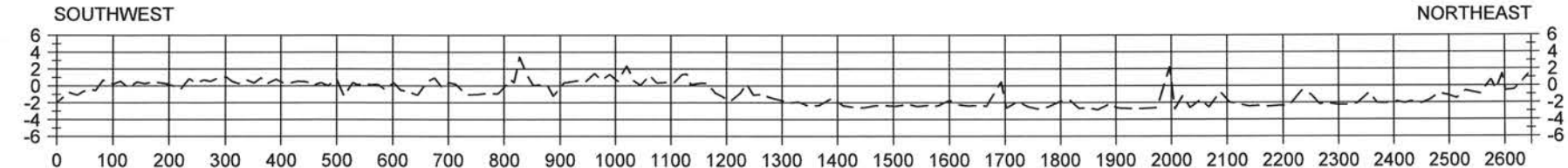
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<p>STATE PROJECT NUMBER: BA-0240</p>				<p>APPROVED BY: R. JOFFERION, P.E. P.E. NO. 27661</p>						
<p>DATE: MAR. 2022</p>										
<p>SHEET 70 OF 73</p>										



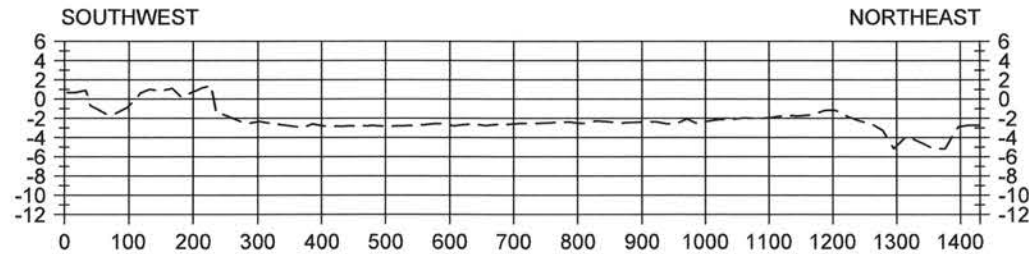
					BY
					DESCRIPTION
					DATE
					REV.
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
MARSH CREATION AREA SECTIONS					
DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730 APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661					
GRANDE CHENIERE RIDGE MARSH CREATION PROJECT					
STATE PROJECT NUMBER: BA-0240 DRAWN BY: K. CANTU					
DATE: MAR. 2022					
SHEET 71 OF 73					



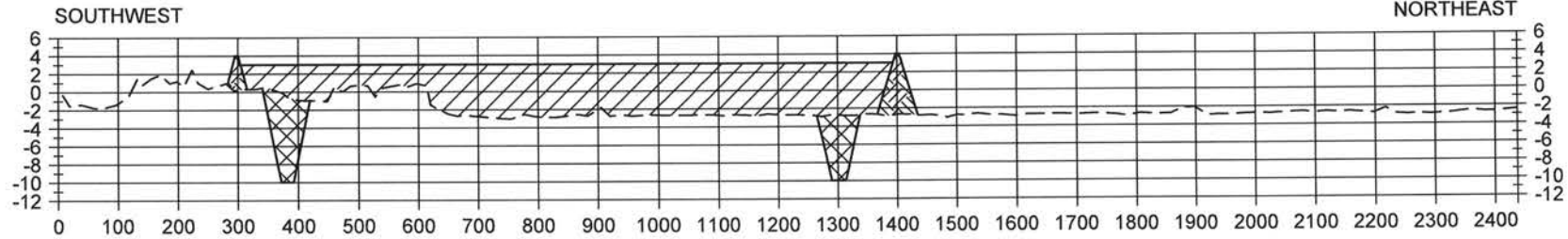
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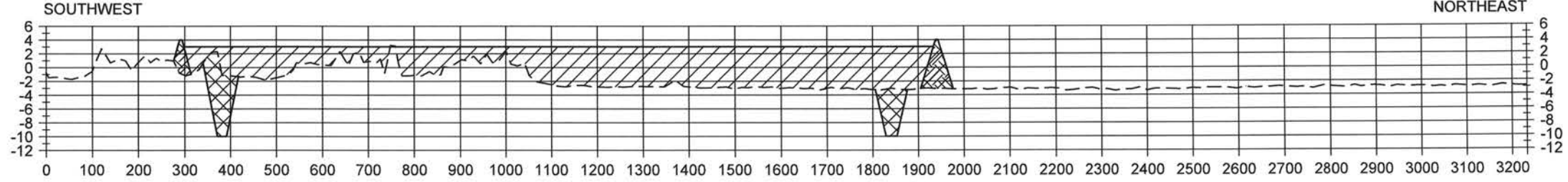
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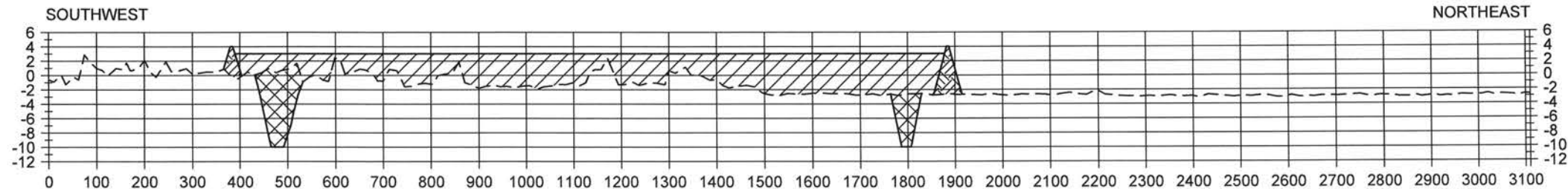
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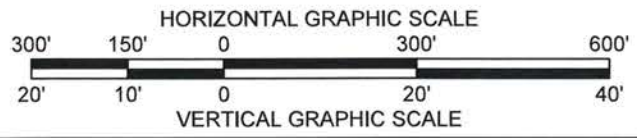
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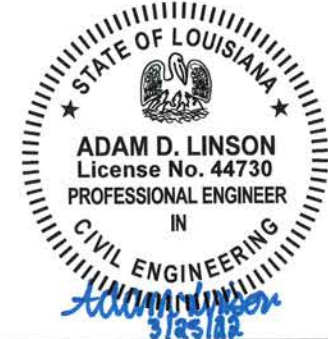
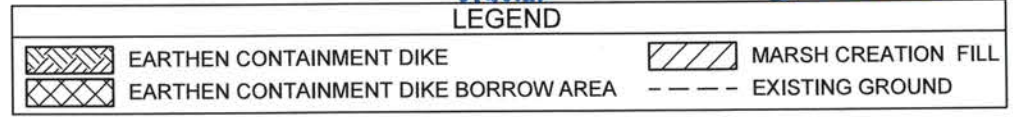
T84



T85



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION
AREA SECTIONS

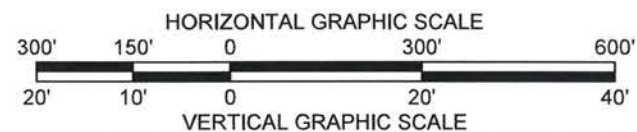
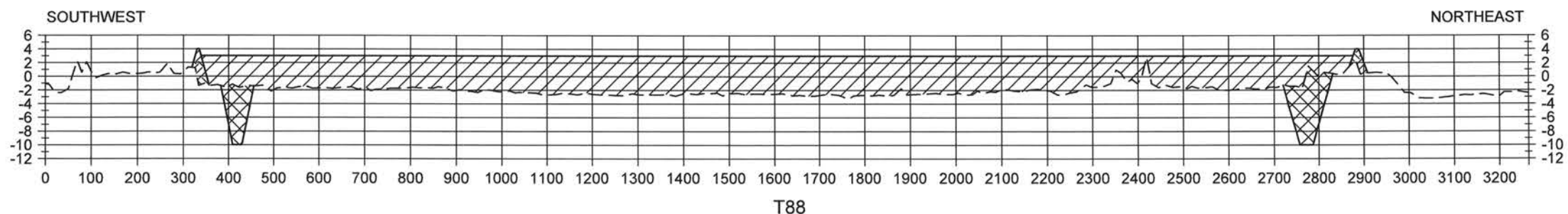
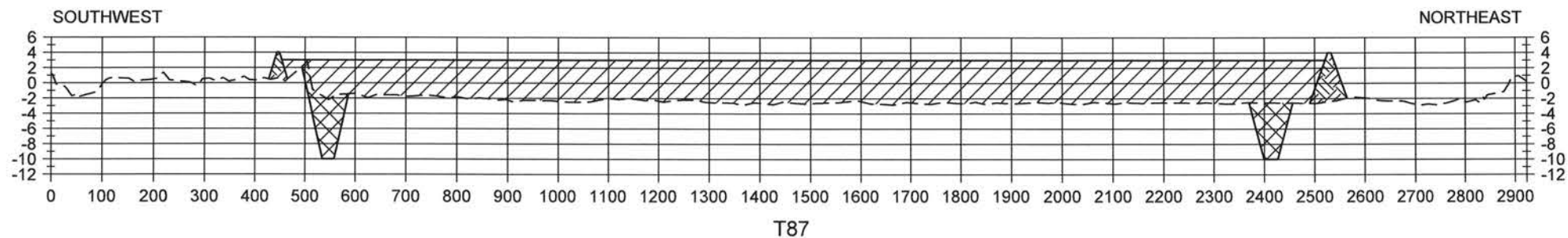
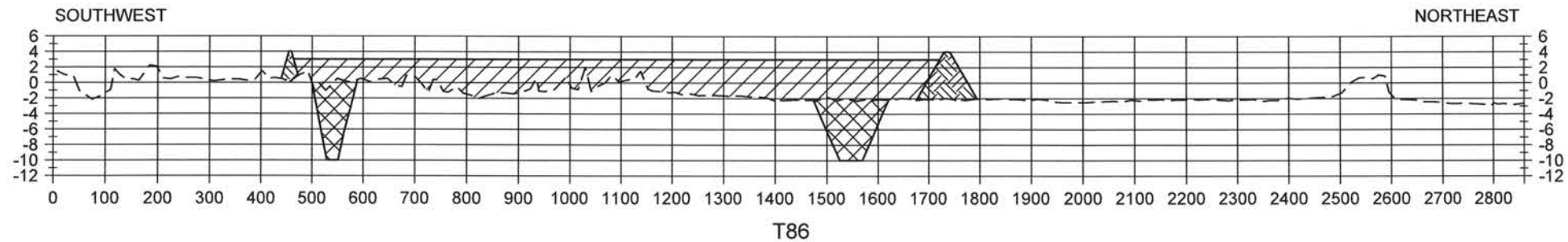
GRANDE CHENIERE RIDGE
MARSH CREATION PROJECT

DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730
APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661
STATE PROJECT NUMBER: BA-0240
DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 72 OF 73

REV.	DATE	DESCRIPTION	BY



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

	EARTHEN CONTAINMENT DIKE BORROW AREA		MARSH CREATION FILL
	EXISTING GROUND		



COASTAL PROTECTION AND
RESTORATION AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA SECTIONS	DESIGNED BY: A. LINSON, P.E. P.E. NO. 44730	APPROVED BY: R. JOFFRION, P.E. P.E. NO. 27661
GRANDE CHIENIERE RIDGE MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0240	DRAWN BY: K. CANTU
DATE: MAR. 2022		
SHEET 73 OF 73		

REV.	DATE	DESCRIPTION	BY