

Appendix J

As-Built Drawings

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STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

CAMINADA HEADLAND BACK
BARRIER MARSH CREATION PROJECT
PROJECT NO. BA-0171
LAFOURCHE AND JEFFERSON PARISHES



As-Built Record Drawings
Construction Completed
on 11-12-2022

LICENSURE CLASSIFICATION REQUIREMENTS
HEAVY CONSTRUCTION OR DREDGING



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

TITLE SHEET

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 1 OF 53

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 NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
5.

THE MARSH CREATION AREA, BORROW AREAS, AND CONTAINMENT DIKES MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
6.

THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, AND MARSH CREATION AREA PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
7.

THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREA.
8.

BACKGROUND IMAGERY WAS TAKEN IN 2016.
9.

THE PIPELINE AND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. 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.

NOTIFICATIONS:

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.

CHEVRON USA, INC.
CONTACT: TODD DORE
PHONE: (985) 773-6389

ARROWHEAD/HARVEST PIPELINE
CONTACT: ANTHONY ARELLANO
PHONE: (504) 912-4426

LOOP, LLC
CONTACT: CINDY GARDNER-LEBLANC
PHONE: (985) 276-6299

XTO OFFSHORE, INC./XTO ENERGY, INC.
CONTACT: DAVID DUFOUR
PHONE: (817) 870-2800
EMAIL: DAVID_DUFOUR@XTOENERGY.COM

TRANSCANADA/ANR PIPELINE CO.
RICARDO "RICK" LOPEZ
PHONE: (337) 266-4695
EMAIL: RICARDO_LOPEZ@TRANSCANADA.COM

2.

THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED BELOW AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK.

EDWARD WISNER DONATION CO.
CONTACT: AMANDA PHILIPS
PHONE: (504) 210-1152

CAILLOUET LAND, LLC
CONTACT: JAY CAILLOUET
PHONE: (985) 665-2123

LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES
CONTACT: JULIA LIGHTNER
PHONE: (504) 286-4041

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:

SECONDARY SURVEY MONUMENT

CRMSBA-SM-19

ELEVATION

2.45'

NORTHING

250,130.9

EASTING

3,674,132.84

GEOID

12A

2.

THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED FROM MAY 2015 THROUGH JULY 2015 BY MORRIS P. HEBERT AND FROM FEBRUARY 2017 THROUGH MARCH 2017 BY HYDROTERRA TECHNOLOGIES FOR THE CPRA. ELEVATIONS ARE REFERENCED TO NAVD88, US FEET, GEOID 12A.

3.

DATA FROM STATION CRMS0292 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12A. MHW = +0.84' AND MLW = -0.59'

4.

A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THE BORROW AREA BY EUSTIS ENGINEERING IN JANUARY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017 AND ON THE MARSH CREATION AREA BY GEOENGINEERS IN MAY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE APPENDICIES OF THE SPECIFICATIONS.

ENVIRONMENTAL NOTES:

1.

THE CONTRACTOR SHALL COMPLY WITH THE SPECIAL PROVISION FOR NESTING BIRDS AND ANY OTHER ENVIRONMENTAL REQUIREMENTS IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID			
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY¹
1	HYDRAULIC DREDGE MOBILIZATION AND DEMOBILIZATION (TS-100)	LUMP SUM	1
2	DREDGE PIPELINE MOBILIZATION, INSTALL, & DEMOBILIZATION (TS-101)	LUMP SUM	1
3	GENERAL MOBILIZATION & DEMOBILIZATION (TS-102)	LUMP SUM	1
4	SURVEYS (TS-210)	LUMP SUM	1
5	DAILY BIRD ABATEMENT (TS-211)	DAY	226
6	GRADE STAKES (TS-220)	EACH	50
7	INSTRUMENTED SETTLEMENT PLATES (TS-251)	EACH	17
8	EARTHEN CONTAINMENT DIKES (TS-300)	LINEAR FOOT	44,442
9	PRIORITY EARTHEN DIKE (TS-301)	LUMP SUM	0
10	HYDRAULIC DREDGING AND MARSH FILL (TS-400)	CUBIC YARD	2,470,200
11	NO-WORK ZONE (TS-511)	LUMP SUM	1

1.

THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MAY 2015 THROUGH JULY 2015 AND FROM FEBRUARY 2017 THROUGH MARCH 2017. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

2.

QUANTITY IS BASED ON THE BORROW AREA CUT VOLUMES. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE BORROW AREA.

ACRONYMS & ABBREVIATIONS:

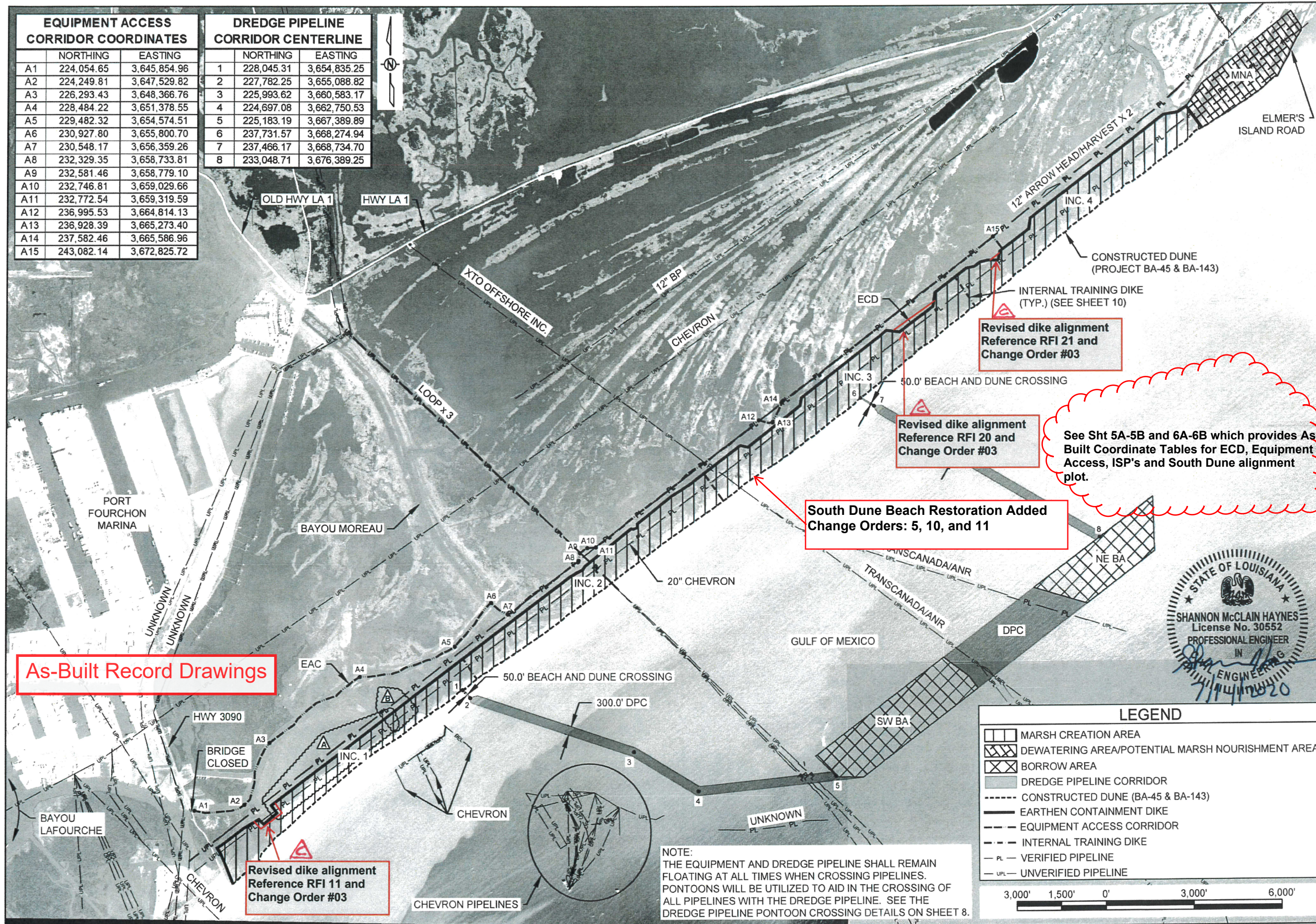
BA	BORROW AREA	INC	INCREMENT
CMF	CONSTRUCTED MARSH FILL	ISP	INSTRUMENTED SETTLEMENT PLATE
CPT	CONE PENETRATION TEST	LF	LINEAR FOOT
CY	CUBIC YARD	LS	LUMP SUM
DPC	DREDGE PIPE CORRIDOR	MCA	MARSH CREATION AREA
EAC	EQUIPMENT ACCESS CORRIDOR	MNA	MARSH NOURISHMENT AREA
ECD	EARTHEN CONTAINMENT DIKE	PL	PIPELINE
EL	ELEVATION	SF	SQUARE FOOT
FT	FOOT	TS	TEMPORARY SPOIL

As-Built Record Drawings

REVISED THE ESTIMATED QUANTITY FOR BID ITEM 8.	2/18/2020	BY
REVISED THE ESTIMATED QUANTITY FOR BID ITEM 10.	2/18/2020	KC
ADDED BID ITEM 11.	3/8/2020	KC
REVISED ESTIMATED QUANTITY FOR BID ITEMS 8 & 9.	7/14/2020	KC
11/2/2020 Revised for C24# 03	DATE	BY
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		
GENERAL NOTES	DESIGNED BY: A. TAYLOR, P.E. 04/1999	APPROVED BY: S. HAYNES, P.E.
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171	DRAWN BY: K. CANTU
DATE: FEB. 2020		
SHEET 2 OF 53		

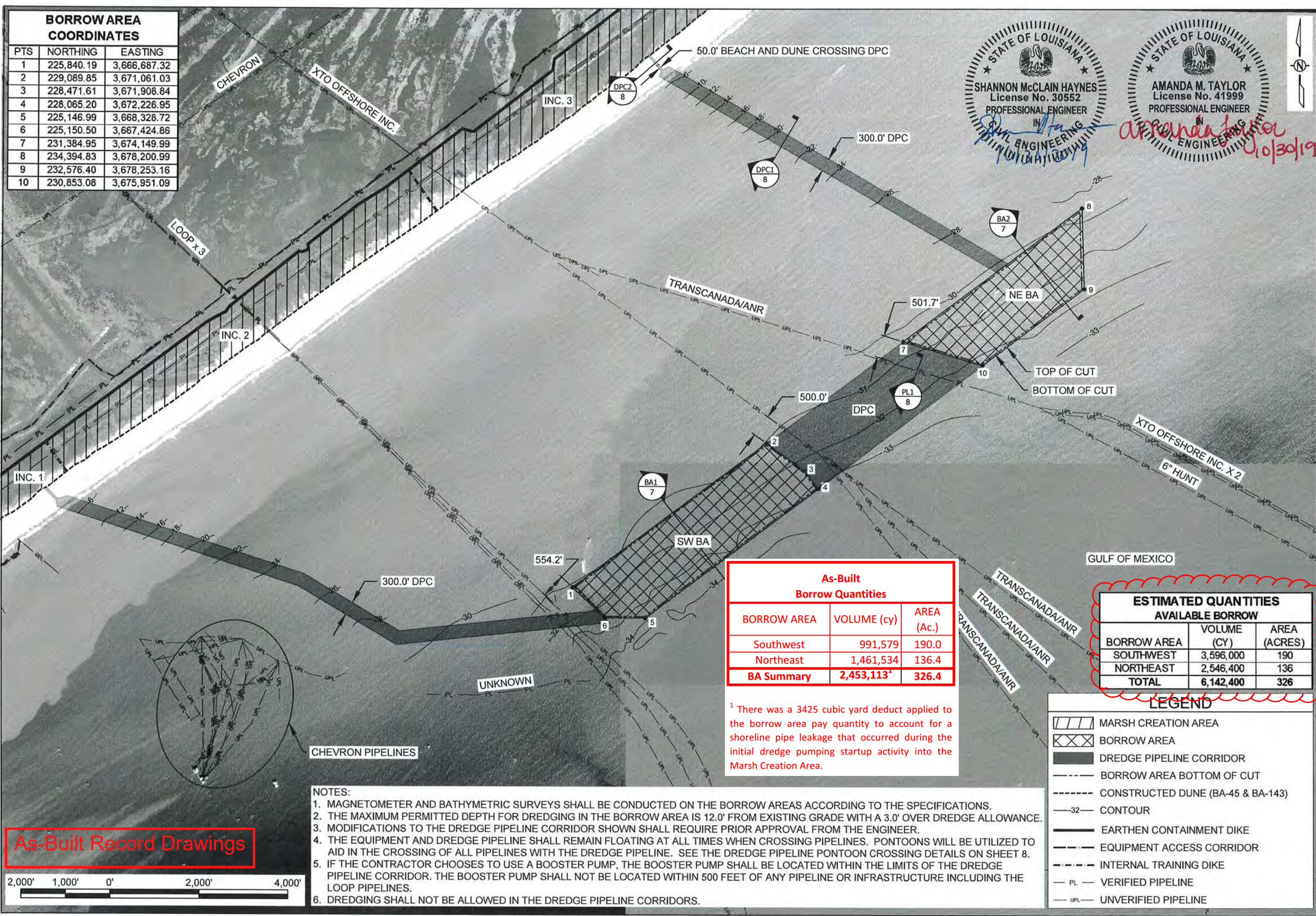
ITEM No.	Description	UNIT	Contract Quantity	Unit Price Bid	Bid Amount	Revised Contract Quantity	Unit Price Bid	Revised Contract Value
1	Hydraulic Dredge Mobilization and Demobilization (TS-100)	LS	1	\$ 3,000,000.00	\$ 3,000,000.00	1	\$ 3,000,000.00	\$ 3,000,000.00
2	Dredge Pipeline Mobilization, Installation and Demobilization (TS-101)	LS	1	\$ 4,500,000.00	\$ 4,500,000.00	1	\$ 4,500,000.00	\$ 4,500,000.00
3	General Mobilization and Demobilization (TS-102)	LS	1	\$ 600,000.00	\$ 600,000.00	1	\$ 600,000.00	\$ 600,000.00
4	Surveys (TS-210) CO#4	LS	1	\$ 285,000.00	\$ 285,000.00	1	\$ 289,117.60	\$ 289,117.60
5	Daily Bird Abatement (TS-211) CO#9 , CO#11	Day	136	\$ 1,329.41	\$ 180,800.00	136	\$ 800.00	\$ 108,800.00
6	Grade Stakes (TS-220)	EA	50	\$ 105.00	\$ 5,250.00	50	\$ 105.00	\$ 5,250.00
7	Instrumental Settlement Plates (TS-251)	EA	17	\$ 5,000.00	\$ 85,000.00	17	\$ 5,000.00	\$ 85,000.00
8	Earthen Containment Dikes (TS-300) CO#1, CO#3, CO#10 (Removal of 350 LF)	LF	48,138	\$ 142.00	\$ 6,835,596.00	44,092	\$ 142.00	\$ 6,261,064.00
9	Priority Earthen Dike (TS-301) CO#3 (Eliminated Priority Dikes)	LS	1	\$ 350,000.00	\$ 350,000.00	0	\$ 350,000.00	\$ -
10	Hydraulic Dredging and Marsh Creation (TS-400) CO#1, CO#11 (Removal of 20,512 CY)	CY	2,624,810	\$ 6.00	\$ 15,748,860.00	2,449,688	\$ 6.00	\$ 14,698,128.00
Additional Contract Item (Change Orders)								
11	No Work Zone (TS-511) CO#2, CO#4	LS				1	\$ 121,045.00	\$ 121,045.00
12	South Dune Mob/Demob CO#5	LS				1	\$ 23,550.00	\$ 23,550.00
13	South Dune Construction CO#5, CO#10 (Removal of 15,539 CY)	CY				44,461	\$ 6.85	\$ 304,557.85
14	South Dune Equipment Access Canal Dredging CO#5	LS				1	\$ 18,330.00	\$ 18,330.00
15	South Dune Sand Fence Installation CO#5, CO#10 (Removal of 34,560 LF)	LF				12,670	\$ 9.70	\$ 122,899.00
16	South Dune Surveys CO#5	LS				1	\$ 122,570.00	\$ 122,570.00
17	South Dune Airboat w/Operator CO#5, CO#10 (Removal of 10 Days)	EA				80	\$ 1,055.56	\$ 84,444.80
18	Caillouet Road Construction: Mob/Demob via Elmer's Rd CO#6, CO#10 (Removal of Remaining 50%)	LS				0.5	\$ 44,950.00	\$ 22,475.00
19	Caillouet Road Construction: Haul and Build Rd up to 1,275 CY CO#6	CY				1,275	\$ 62.24	\$ 79,356.00
20	Caillouet Road Construction: Haul and Build Rd over 1,275 CY CO#6, CO#10 (Removal of 342 CY)	CY				58	\$ 49.50	\$ 2,871.00
21	Caillouet Road Construction: Additional Airboat CO#6, CO#10 (Removal of 9 Days)	DAY				5	\$ 1,042.00	\$ 5,210.00
22	Caillouet Road Construction: Site Overhead CO#6, CO#10 (Removal of 9 Days)	DAY				5	\$ 2,259.00	\$ 11,295.00
23	Post Storm Zeta Damages CO#7	LS				1	\$ 837,855.80	\$ 837,855.80
24	Post Storm Ida LiDar Survey CO#8	LS				1	\$ 26,737.76	\$ 26,737.76
25	Post Storm Ida RTK Survey CO#8	LS				1	\$ 7,009.26	\$ 7,009.26
26	Enhanced Bird Abatement Effort for Southern Containment Dike CO#9	LS				1	\$ 62,026.36	\$ 62,026.36
27	Post Ida Pre-con Survey of MCA CO#10	LS				1	\$ 55,735.90	\$ 55,735.90
28	Post Ida South Dune Mobilization CO#10	LS				1	\$ 51,092.93	\$ 51,092.93
29	Post Ida South Dune Construction Rebuild CO#10, CO#11 (Increase of 8,455 CY)	CY				92,906	\$ 7.06	\$ 656,353.94
30	Post Ida Earthen Containment Dike (ECD) Mobilization CO#10	LS				1	\$ 156,314.49	\$ 156,314.49
31	Post Ida Earthen Containment Dike (ECD) Construction Rebuild CO#10	LF				44,442	\$ 49.19	\$ 2,186,187.95
32	Post Ida Earthen Containment Dike (ECD) Maintenance CO#10	LS				1	\$ 174,576.20	\$ 174,576.20
33	Post Ida Internal Training Dike Construction Rebuild CO#10, CO#11 (Removal of 382 LF)	LF				2,918	\$ 13.74	\$ 40,085.29
34	Post Ida Caillouet Road Construction Mobilization CO#10	LS				1	\$ 15,693.21	\$ 15,693.21
35	Post Ida Caillouet Road Construction Road Improvements CO#10, CO#11 (Increase of 28 CY)	CY				705	\$ 62.53	\$ 44,083.62
36	Post Ida Re-installation No Work Zone CO#10	LS				1	\$ 60,927.54	\$ 60,927.54
37	Post Ida Re-Adjustment of Primary Weirs CO#10	EA				4	\$ 6,611.38	\$ 26,445.51
38	Post Ida Re-Adjustment of Secondary Weirs CO#10	EA				16	\$ 2,486.84	\$ 39,789.45
39	Post Ida Re-Installation of Filters/Boards CO#10	LS				1	\$ 37,302.61	\$ 37,302.61
40	Post Ida Sand Fence Installation along South Dune CO#10, CO#11 (Removal of 2,671 LF)	LF				44,559	\$ 11.19	\$ 498,650.07
41	Post Ida ISP Replacement CO#10, CO#11 (Increase of 2)	EA				7	\$ 5,350.00	\$ 37,450.01
42	Post Ida ISP Re-Adjustment CO#10, CO#11 (Decrease of 2)	EA				10	\$ 1,318.03	\$ 13,180.25
43	Post Ida Grade Stakes Replacement CO#10, CO#11 (Decrease of 3)	EA				47	\$ 112.35	\$ 5,280.41
44	Post Ida Combined Surveying CO#10	LS				1	\$ 539,843.60	\$ 539,843.60
45	Post Ida Bird Abatement - Tier 1 Effort CO#10, CO#11 (Increase of 22 Days)	DAY				28	\$ 856.00	\$ 23,967.87
46	Post Ida Bird Abatement - Tier 2 Effort CO#10, CO#11 (Increase of 10 Days)	DAY				117	\$ 1,498.00	\$ 175,265.78
47	Post Ida Bird Abatement - Tier 3 Effort CO#10, CO#11 (Removal of 21 Days)	DAY				1	\$ 1,712.00	\$ 1,712.00
48	Post Ida Air Boats, UTV's and GLDD Site Personnel CO#10	DAY				120	\$ 3,403.36	\$ 408,403.22
49	Post Ida Repair Support- 966 FEL & 4x4 Pick-up w/Operators CO#10	DAY				120	\$ 1,955.95	\$ 234,714.49
50	Post Ida Security and Escort for Elmer's Island Rd. CO#10, CO#11 (Removal of 101 Days)	DAY				19	\$ 280.53	\$ 5,330.02
51	Post Ida Elmer's Island Rd. Improvements CO#10, CO#11 (Decrease in \$89,062.12)	LS				1	\$ 19,602.00	\$ 19,602.00
52	Post Ida Shore Pipeline Repairs / Re-Installation CO#10	DAY				10	\$ 8,072.33	\$ 80,723.27
53	Post Ida Submerged Pipeline Repairs / Re-Installation CO#10	DAY				6	\$ 14,007.78	\$ 84,046.70
54	Post Ida Pre-Con Survey of ECD CO#11 (Increase of \$44,684.00)	LS				1	\$ 44,684.00	\$ 44,684.00
					\$ 31,590,506.00			\$ 37,117,034.77

DREDGE PIPELINE CORRIDOR CENTERLINE		
	NORTHING	EASTING
1	228,045.31	3,654,835.25
2	227,782.25	3,655,088.82
3	225,993.62	3,660,583.17
4	224,697.08	3,662,750.53
5	225,183.19	3,667,389.89
6	237,731.57	3,668,274.94
7	237,466.17	3,668,734.70
8	233,048.71	3,676,389.25



CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	PROJECT LAYOUT	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		A	2/18/2020	REVISED THE EARTHEN CONTAINMENT DIKE CENTERLINE ALIGNMENT IN INC. 1.	KC
		STATE PROJECT NUMBER: BA-0171	DESIGNED BY: A. TAYLOR, P.E. 04/1999	A	7/13/2020	REVISED THE EARTHEN CONTAINMENT DIKE CENTERLINE ALIGNMENT IN INC. 1.	KC
DRAWN BY: K. CANTU	APPROVED BY: S. HAYNES, P.E.			A	11/2/2020	Revised CA #D3	KR
				REV.	DATE	DESCRIPTION	BY

BORROW AREA COORDINATES		
PTS	NORTHING	EASTING
1	225,840.19	3,666,687.32
2	229,089.85	3,671,061.03
3	228,471.61	3,671,908.84
4	228,065.20	3,672,226.95
5	225,146.99	3,668,328.72
6	225,150.50	3,667,424.86
7	231,384.95	3,674,149.99
8	234,394.83	3,678,200.99
9	232,576.40	3,678,253.16
10	230,853.08	3,675,951.09



REV.	DATE	DESCRIPTION	BY

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

As-Built Borrow Quantities		
BORROW AREA	VOLUME (cy)	AREA (Ac.)
Southwest	991,579	190.0
Northeast	1,461,534	136.4
BA Summary	2,453,113 ¹	326.4

¹ There was a 3425 cubic yard deduct applied to the borrow area pay quantity to account for a shoreline pipe leakage that occurred during the initial dredge pumping startup activity into the Marsh Creation Area.

ESTIMATED QUANTITIES AVAILABLE BORROW		
BORROW AREA	VOLUME (CY)	AREA (ACRES)
SOUTHWEST	3,596,000	190
NORTHEAST	2,546,400	136
TOTAL	6,142,400	326


LEGEND	
	MARSH CREATION AREA
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	BORROW AREA BOTTOM OF CUT
	CONSTRUCTED DUNE (BA-45 & BA-143)
	CONTOUR
	EARTHEN CONTAINMENT DIKE
	EQUIPMENT ACCESS CORRIDOR
	INTERNAL TRAINING DIKE
	VERIFIED PIPELINE
	UNVERIFIED PIPELINE

- NOTES:
1. MAGNETOMETER AND BATHYMETRIC SURVEYS SHALL BE CONDUCTED ON THE BORROW AREAS ACCORDING TO THE SPECIFICATIONS.
 2. THE MAXIMUM PERMITTED DEPTH FOR DREDGING IN THE BORROW AREA IS 12.0' FROM EXISTING GRADE WITH A 3.0' OVER DREDGE ALLOWANCE.
 3. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER.
 4. THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
 5. IF THE CONTRACTOR CHOOSES TO USE A BOOSTER PUMP, THE BOOSTER PUMP SHALL BE LOCATED WITHIN THE LIMITS OF THE DREDGE PIPELINE CORRIDOR. THE BOOSTER PUMP SHALL NOT BE LOCATED WITHIN 500 FEET OF ANY PIPELINE OR INFRASTRUCTURE INCLUDING THE LOOP PIPELINES.
 6. DREDGING SHALL NOT BE ALLOWED IN THE DREDGE PIPELINE CORRIDORS.

As-Built Record Drawings



CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	BORROW AREA LAYOUT	
	DESIGNED BY: A. TAYLOR, P.E. 041999	APPROVED BY: S. HAYNES, P.E.
	STATE PROJECT NUMBER: BA-0171	DRAWN BY: K. CANTU
DATE: OCT. 2019		
SHEET 4 OF 53		

EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES			ESTIMATED INCREMENT MARSH FILL	
PT.	NORTHING	EASTING	INC.	VOLUME (CY)
1	221,636.87	3,647,154.37	1	<div> 803,140</div>
2	222,183.92	3,646,929.56		
3	222,682.07	3,646,704.31		
4	222,827.04	3,646,622.19		
5	223,038.13	3,646,927.50		
6	223,471.29	3,647,500.00		
7	223,751.26	3,647,980.32		
8	223,587.26	3,648,144.32		
9	Deleted From Contract			
10	224,160.76	3,648,845.89		
11	224,409.10	3,648,657.88		
12	227,213.22	3,652,361.85		
13	DELETED FROM CONTRACT			
14	227,517.11	3,652,765.44	2	500,960
15	229,080.83	3,654,842.18		
16	228,407.88	3,655,313.39		
17	230,726.36	3,657,027.57		
18	231,779.25	3,658,425.89		
19	231,905.96	3,658,640.24		
20	232,019.89	3,658,866.45		
21	232,143.73	3,658,951.14		
22	233,389.27	3,660,516.66		
23	233,374.94	3,660,582.33		
24	233,428.19	3,660,722.39		
25	233,552.29	3,660,721.55		
26	233,913.92	3,661,176.09		
27	234,461.58	3,661,864.44		
28	234,838.89	3,662,459.65		
29	235,228.21	3,662,969.38		
30	234,310.89	3,663,611.69	3	666,330
30	234,310.89	3,663,611.69		
29	235,228.21	3,662,969.38		
31	236,158.98	3,664,188.06		
32	236,098.01	3,664,441.20		
33	236,897.94	3,665,468.28		

ESTIMATED QUANTITIES	
MARSH CREATION AREA	
VOLUME (CY)	AREA (ACRES)
2,470,200	972
EARTHEN CONTAINMENT DIKE	
VOLUME (CY)	LENGTH (FT)
353,837	44,596

Per final Payment/CO's this is 44,092 ft

See Sht 5A for As-Built Point Data, for the ECD's, Equipment Access, ISP's for Increment 1 and 2.

Revised dike alignment Reference RFI 11 and CO #03



- NOTES:
1. MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM ENGINEER.
 2. THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
 3. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 100' OF THE LOOP PIPELINES AND WITHIN 50' OF ALL OTHER PIPELINES. THE CONTRACTOR SHALL SUBMIT THE WORK SEQUENCE IN THESE AREAS IN THE WORK PLAN PRIOR TO THE EARTHEN CONTAINMENT DIKE CONSTRUCTION.
 4. THE CONTRACTOR SHALL CONSTRUCT INTERNAL TRAINING DIKES AS SHOWN ON THE PLANS AND AS DEEMED NECESSARY BY THE CONTRACTOR. THE GEOMETRY OF THE INTERNAL TRAINING DIKES SHALL BE CONSISTENT WITH THE DETAIL ON SHEET 10.
 5. PLACEMENT OF SLURRY SHALL PROGRESS IN AN EASTERLY DIRECTION FROM INCREMENT 1 TO INCREMENT 4.
 6. THE DREDGE PIPELINE TRUNK LINE SHALL BE LOCATED IN BETWEEN THE DUNE AND CHEVRON PIPELINE WITHIN THE MARSH CREATION AREA.
 7. THE PIPELINE INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO THE BEGINNING CONSTRUCTION.
 8. SECONDARY WEIRS MAY BE INSTALLED ALONG THE NORTHERN DIKE. SECONDARY WEIRS SHALL NOT BE INSTALLED ALONG THE WESTERN DIKE OR EXISTING DUNE.

LEGEND

- MARSH CREATION AREA
- DREDGE PIPELINE CORRIDOR
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- EQUIPMENT ACCESS CORRIDOR
- CONSTRUCTED DUNE (BA-45 & BA-143)
- INTERNAL TRAINING DIKE
- PL — VERIFIED PIPELINE
- UPL — UNVERIFIED PIPELINE
- EXISTING ROCK PLUG
- EXISTING EARTHEN PLUG
- EXISTING WOODEN GATE

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

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION AREA LAYOUT

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171

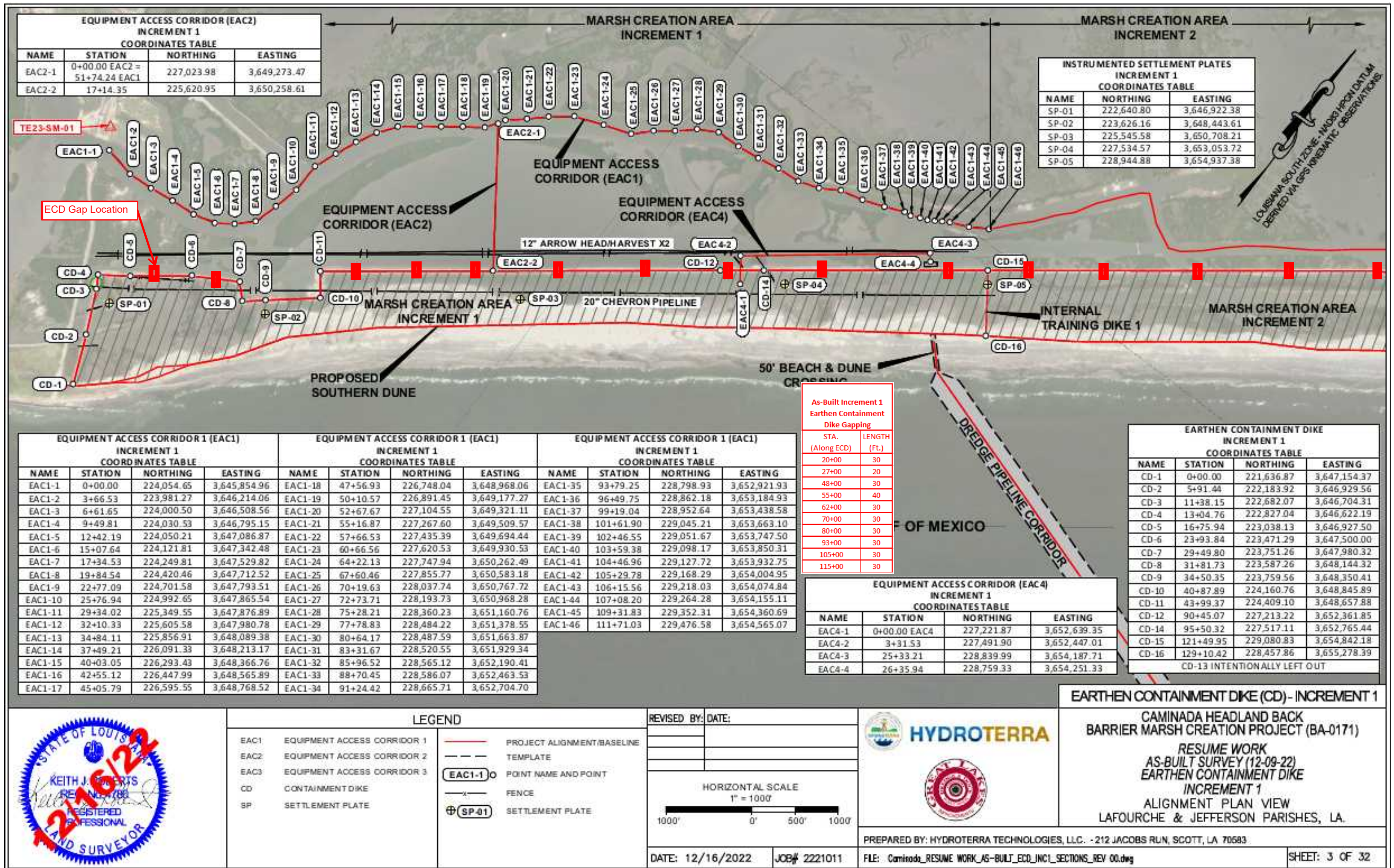
DRAWN BY: K. CANTU

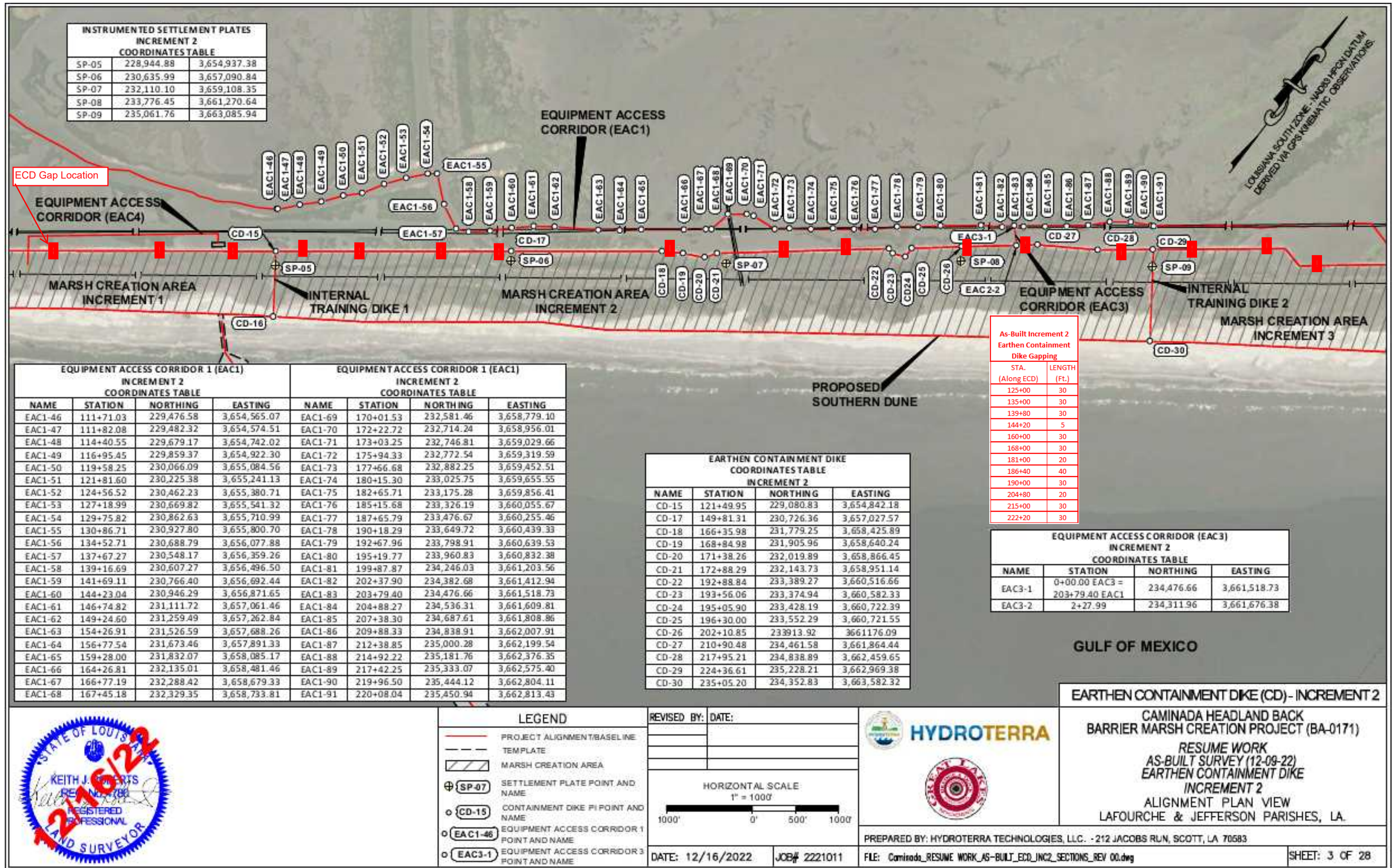
DATE: FEB 2020

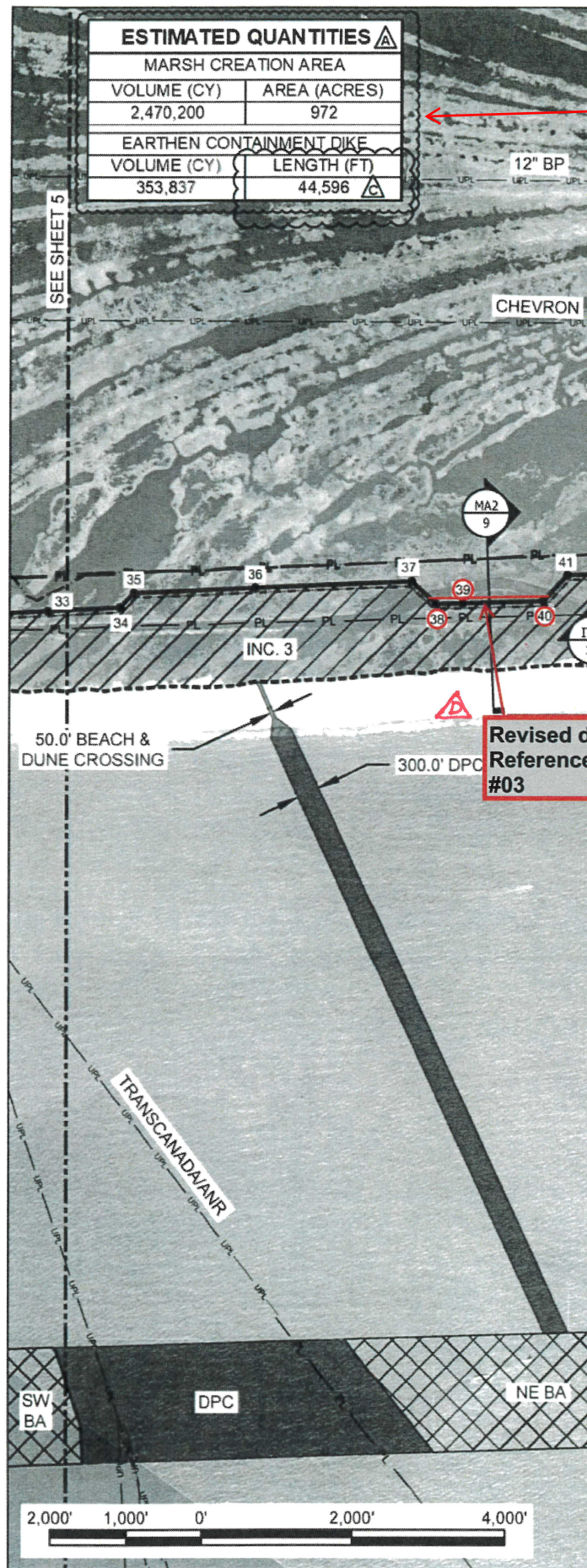
SHEET 5 OF 53

REV.	DATE	DESCRIPTION
1	2/18/2020	REVISED ESTIMATED QUANTITIES TABLE DUE TO THE REDUCTION OF THE ECD AND MARSH FILL.
2	2/18/2020	REVISED THE EARTHEN CONTAINMENT DIKE CENTERLINE ALIGNMENT BETWEEN POINTS 11-12.
3	2/18/2020	REVISED THE EARTHEN CONTAINMENT DIKE CENTERLINE ALIGNMENT POINTS.
4	2/18/2020	REVISED THE ESTIMATED MARSH FILL VOLUME FOR INCREMENT 1.
5	7/13/2020	REMOVED PRIORITY DIVE & REPLACED WITH REGULAR ECD. DELETED PI 13 & PRIORITY ECD BORROW.

12/9/2020 Revised for CO #03







ESTIMATED QUANTITIES	
MARSH CREATION AREA	
VOLUME (CY)	AREA (ACRES)
2,470,200	972
EARTHEN CONTAINMENT DIKE	
VOLUME (CY)	LENGTH (FT)
353,837	44,596

As-Built Marsh Creation Quantities		
MARSH CREATION	VOLUME (cy)	AREA
Increment 1	546,074	197.4
Increment 2	511,182	232.8
Increment 3	809,334	273.8
Increment 4	583,098	238.5
MCA Summary	2,449,688	942.5

As-Built Earthen Containment Dikes		
MARSH CREATION AREA	PLAN VOLUME (cy)	LENGTH (Ft.)
Increment 1	N/A	12,150
Increment 2	N/A	10,287
Increment 3	N/A	11,153
Increment 4	N/A	10,852
ECD Summary	N/A	44,442

EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES		
PT.	NORTHING	EASTING
33	236,897.94	3,665,468.28
34	237,480.36	3,666,216.07
35	237,740.78	3,666,260.40
36	238,716.86	3,667,537.61
37	239,975.09	3,669,184.02
38	239,924.67	3,669,587.72
39	Deleted From Contract	
40	240,802.38	3,670,769.36
42	241,232.94	3,670,836.63
42	241,744.13	3,671,517.37
43	240,762.66	3,672,204.60
43	240,762.66	3,672,204.60
42	241,744.13	3,671,517.37
44	242,038.07	3,671,908.81
45	242,092.97	3,672,183.31
46	242,241.00	3,672,384.25
47	242,300.90	3,672,659.20
48	Deleted From Contract	
49	Deleted From Contract	
50	242,598.97	3,673,056.45
51	243,187.137	3,673,858.518
52	243,334.95	3,674,060.09
53	243,695.78	3,674,113.53
54	245,047.224	3,675,911.629
55	247,112.97	3,678,660.10
56	247,187.03	3,679,143.49
57	247,380.93	3,679,459.25
58	246,654.09	3,679,987.30

ESTIMATED INCREMENT MARSH FILL	
INC.	VOLUME (CY)
3	666,330
4	499,770

KC	KC	KC	9R	BY
2/18/2020	2/18/2020	7/14/2020	12/12/2020 Revised for CO #03	
COASTAL PROTECTION AND RESTORATION AUTHORITY				150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802
MARSH CREATION AREA LAYOUT				DESIGNED BY: A. TAYLOR, P.E. APPROVED BY: S. HAYNES, P.E.
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT				STATE PROJECT NUMBER: BA-0171 DRAWN BY: K. CANTU
DATE FEB 2020				
SHEET 6 OF 53				

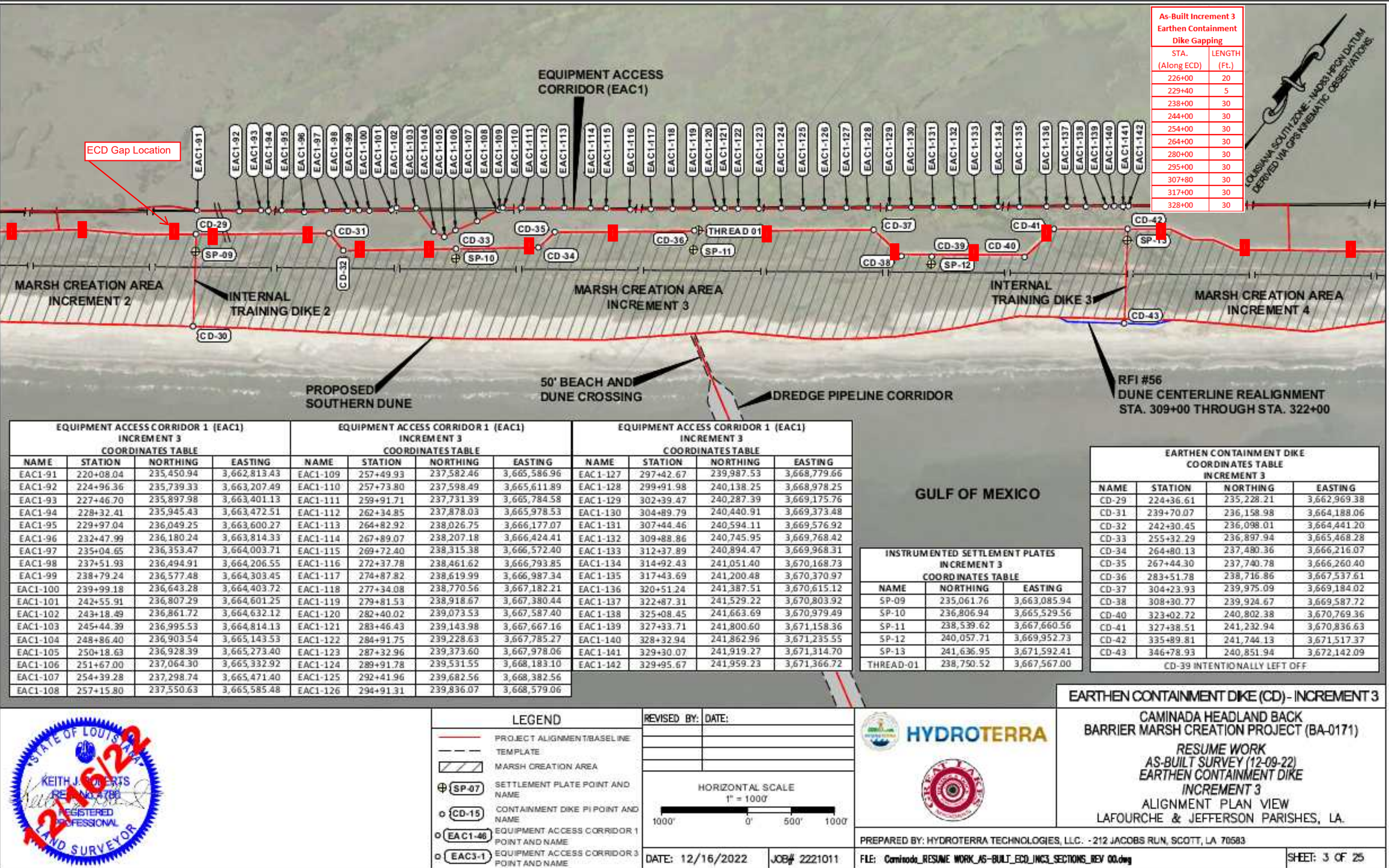
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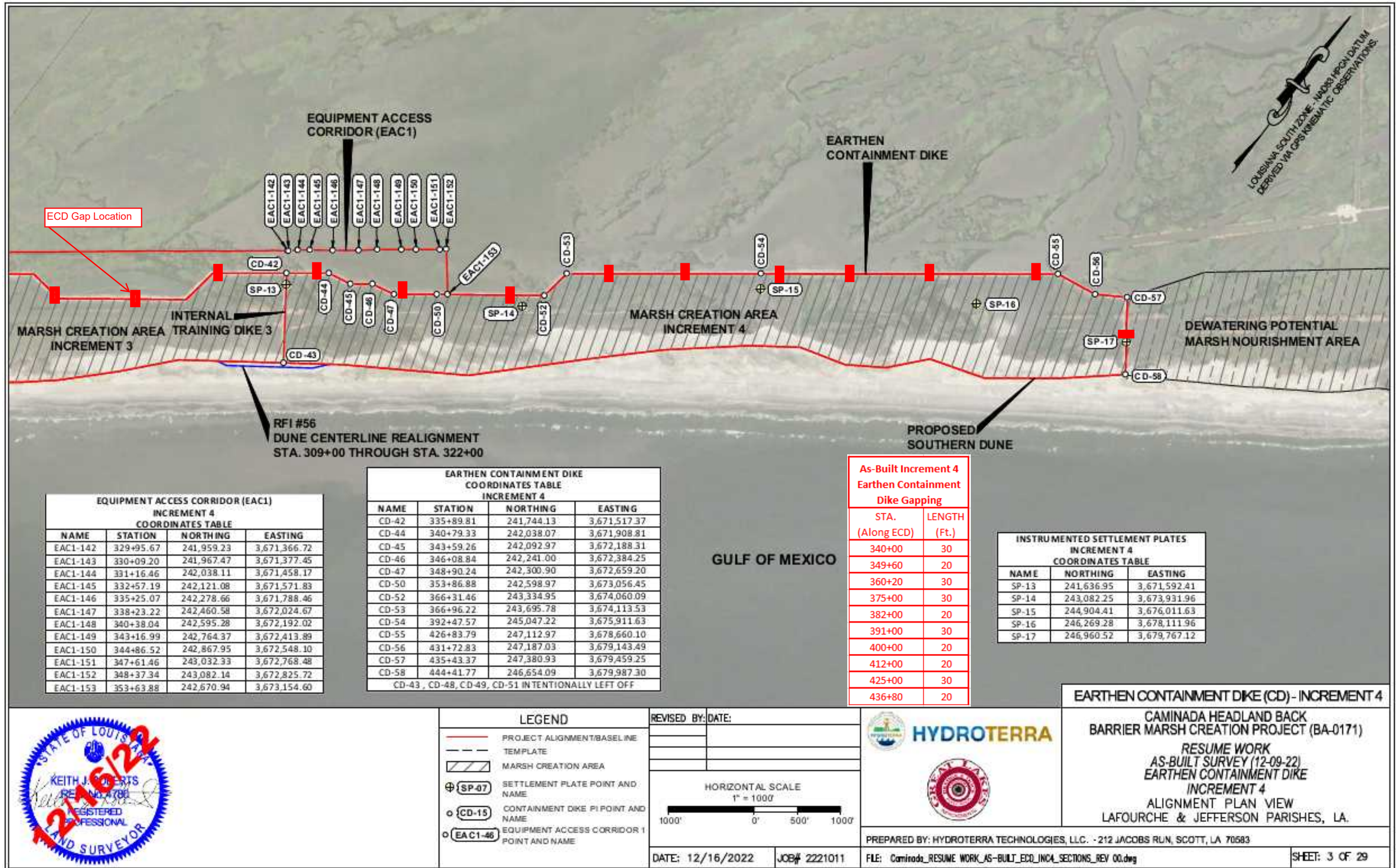
- MODIFICATIONS TO THE DREDGE PIPELINE CORRIDOR SHOWN SHALL REQUIRE PRIOR APPROVAL FROM ENGINEER.
- THE EQUIPMENT AND DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES WHEN CROSSING PIPELINES. PONTOONS WILL BE UTILIZED TO AID IN THE CROSSING OF ALL PIPELINES WITH THE DREDGE PIPELINE. SEE THE DREDGE PIPELINE PONTOON CROSSING DETAILS ON SHEET 8.
- THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE. THE CONTRACTOR SHALL SUBMIT WORK SEQUENCE IN THIS AREA IN THE WORK PLAN PRIOR TO THE ECD CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT INTERNAL TRAINING DIKES AS SHOWN ON THE PLANS AND AS DEEMED NECESSARY BY THE CONTRACTOR. THE GEOMETRY OF THE INTERNAL TRAINING DIKES SHALL BE CONSISTENT WITH THE DETAIL ON SHEET 10.
- DECANTED WATER FROM THE MARSH CREATION AREA SHALL BE DISCHARGED INTO THE ADJACENT MARSH NOURISHMENT AREA. PLACEMENT OF SLURRY SHALL PROGRESS IN AN EASTERLY DIRECTION FROM INCREMENT 1 TO INCREMENT 4.
- THE PRIMARY WEIR, TRENCH, AND FILTER SHALL BE INSTALLED NORTH OF THE EXISTING DUNE AND SOUTH OF THE CHEVRON PIPELINE.
- SECONDARY WEIRS MAY BE INSTALLED ALONG THE NORTHERN DIKE. SECONDARY WEIRS SHALL NOT BE INSTALLED ALONG THE WESTERN DIKE OR EXISTING DUNE.
- THE DREDGE PIPELINE TRUNK LINE SHALL BE LOCATED IN BETWEEN THE DUNE AND CHEVRON PIPELINE WITHIN THE MARSH CREATION AREA.
- THE PIPELINE INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO THE BEGINNING CONSTRUCTION.

LEGEND

	MARSH CREATION AREA		EQUIPMENT ACCESS CORRIDOR
	DEWATERING/ POTENTIAL MARSH NOURISHMENT AREA		CONSTRUCTED DUNE (BA-45 & BA-143)
	BORROW AREA		INTERNAL TRAINING DIKE
	DREDGE PIPELINE CORRIDOR		VERIFIED PIPELINE
	EARTHEN CONTAINMENT DIKE		UNVERIFIED PIPELINE
	EARTHEN CONTAINMENT DIKE BORROW AREA		EXISTING ROCK PLUG







EQUIPMENT ACCESS CORRIDOR (EAC1) INCREMENT 4 COORDINATES TABLE			
NAME	STATION	NORTHING	EASTING
EAC1-142	329+95.67	241,959.23	3,671,366.72
EAC1-143	330+09.20	241,967.47	3,671,377.45
EAC1-144	331+16.46	242,038.11	3,671,458.17
EAC1-145	332+57.19	242,121.08	3,671,571.83
EAC1-146	335+25.07	242,278.66	3,671,788.46
EAC1-147	338+23.22	242,460.58	3,672,024.67
EAC1-148	340+38.04	242,595.28	3,672,192.02
EAC1-149	343+16.99	242,764.37	3,672,413.89
EAC1-150	344+86.52	242,867.95	3,672,548.10
EAC1-151	347+61.46	243,032.33	3,672,768.48
EAC1-152	348+37.34	243,082.14	3,672,825.72
EAC1-153	353+63.88	242,670.94	3,673,154.60

EARTHEN CONTAINMENT DIKE COORDINATES TABLE INCREMENT 4			
NAME	STATION	NORTHING	EASTING
CD-42	335+89.81	241,744.13	3,671,517.37
CD-44	340+79.33	242,038.07	3,671,908.81
CD-45	343+59.26	242,092.97	3,672,188.31
CD-46	346+08.84	242,241.00	3,672,384.25
CD-47	348+90.24	242,300.90	3,672,659.20
CD-50	353+86.88	242,598.97	3,673,056.45
CD-52	366+31.46	243,334.95	3,674,060.09
CD-53	366+96.22	243,695.78	3,674,113.53
CD-54	392+47.57	245,047.22	3,675,911.63
CD-55	426+83.79	247,112.97	3,678,660.10
CD-56	431+72.83	247,187.03	3,679,143.49
CD-57	435+43.37	247,380.93	3,679,459.25
CD-58	444+41.77	246,654.09	3,679,987.30

CD-43, CD-48, CD-49, CD-51 INTENTIONALLY LEFT OFF

**As-Built Increment 4
Earthen Containment
Dike Gapping**

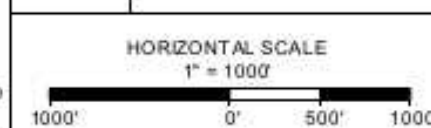
STA. (Along ECD)	LENGTH (Ft.)
340+00	30
349+60	20
360+20	30
375+00	30
382+00	20
391+00	30
400+00	20
412+00	20
425+00	30
436+80	20

INSTRUMENTED SETTLEMENT PLATES INCREMENT 4 COORDINATES TABLE		
NAME	NORTHING	EASTING
SP-13	241,636.95	3,671,592.41
SP-14	243,082.25	3,673,931.96
SP-15	244,904.41	3,676,011.63
SP-16	246,269.28	3,678,111.96
SP-17	246,960.52	3,679,767.12



LEGEND	
	PROJECT ALIGNMENT/BASELINE
	TEMPLATE
	MARSH CREATION AREA
	SETTLEMENT PLATE POINT AND NAME
	CONTAINMENT DIKE PI POINT AND NAME
	EQUIPMENT ACCESS CORRIDOR PI POINT AND NAME

REVISED BY:	DATE:

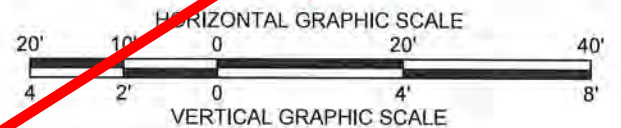
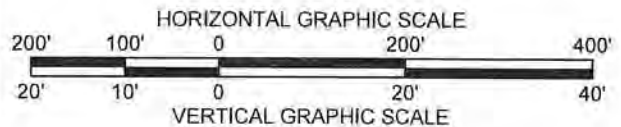
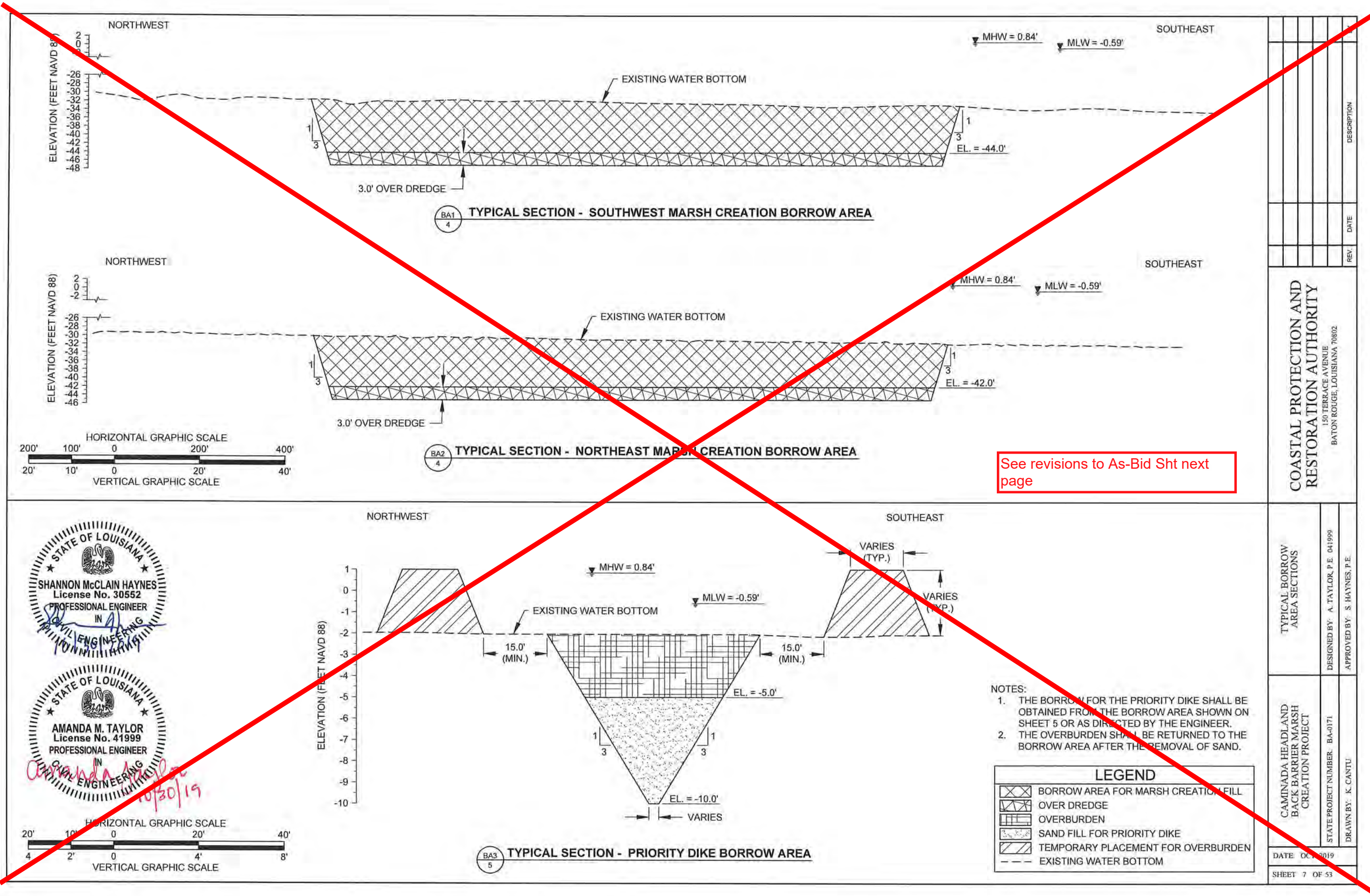


DATE: 12/16/2022	JOB# 2221011
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PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 212 JACOBS RUN, SCOTT, LA 70583
FILE: Caminada_RESUME WORK_AS-BUILT_ECD_INCA_SECTIONS_REV 00.dwg

EARTHEN CONTAINMENT DIKE (CD) - INCREMENT 4	
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)	
RESUME WORK AS-BUILT SURVEY (12-09-22) EARTHEN CONTAINMENT DIKE INCREMENT 4 ALIGNMENT PLAN VIEW LAFOURCHE & JEFFERSON PARISHES, LA.	
	SHEET: 3 OF 29

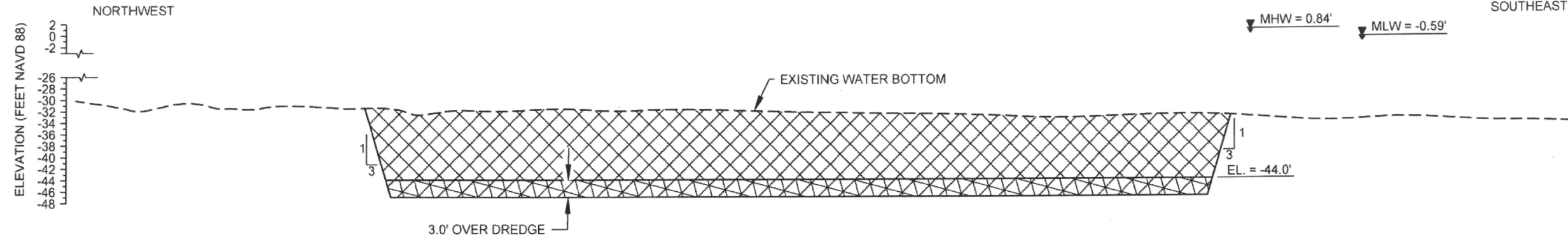


See revisions to As-Bid Sht next page

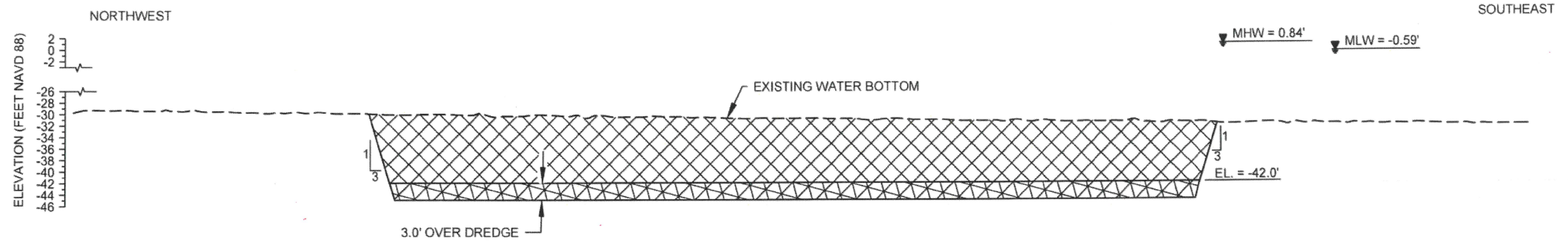
- NOTES:
1. THE BORROW FOR THE PRIORITY DIKE SHALL BE OBTAINED FROM THE BORROW AREA SHOWN ON SHEET 5 OR AS DIRECTED BY THE ENGINEER.
 2. THE OVERBURDEN SHALL BE RETURNED TO THE BORROW AREA AFTER THE REMOVAL OF SAND.

LEGEND	
	BORROW AREA FOR MARSH CREATION FILL
	OVER DREDGE
	OVERBURDEN
	SAND FILL FOR PRIORITY DIKE
	TEMPORARY PLACEMENT FOR OVERBURDEN
	EXISTING WATER BOTTOM

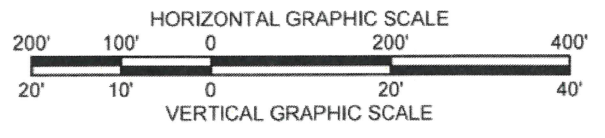
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION
TYPICAL BORROW AREA SECTIONS		DESIGNED BY:	A. TAYLOR, P.E. 041999	
		APPROVED BY:	S. HAYNES, P.E.	
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		STATE PROJECT NUMBER:	BA-071	
		DRAWN BY:	K. CANTU	
		DATE:	08/20/19	
		SHEET	7 OF 53	




TYPICAL SECTION - SOUTHWEST MARSH CREATION BORROW AREA



TYPICAL SECTION - NORTHEAST MARSH CREATION BORROW AREA

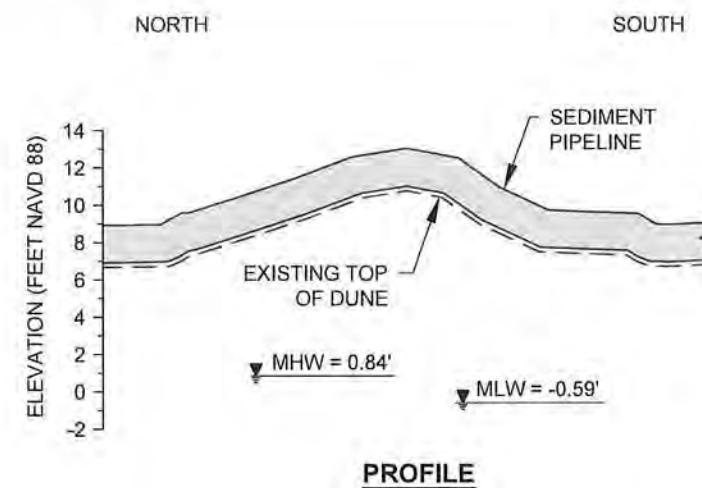
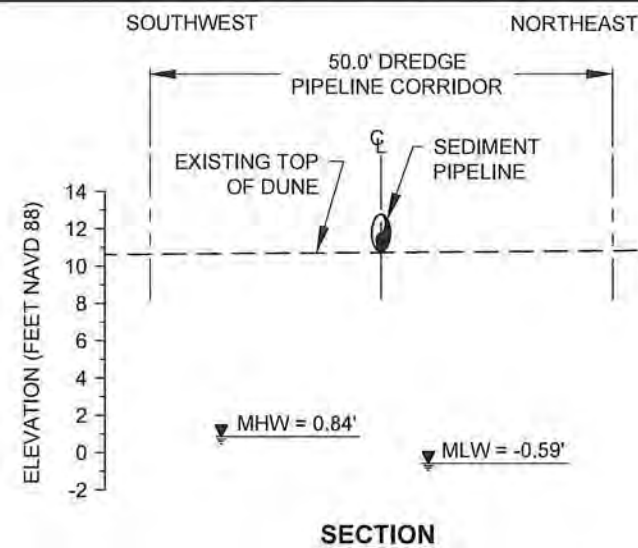



**Priority Earthen Dike Deleted
Reference RFI 8 and CO #03**

LEGEND	
	BORROW AREA FOR MARSH CREATION FILL
	OVER DREDGE
	EXISTING WATER BOTTOM



PRIMARY DIKE DETAIL & NOTES HAVE BEEN DELETED.		KC	9R
7/14/2020		DATE	12/2/2020 Deleted For CP #03
A		REV.	
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		DESCRIPTION	
TYPICAL BORROW AREA SECTIONS		BY	
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		DATE	
STATE PROJECT NUMBER BA-0171		DESIGNED BY: A. TAYLOR, P.E. 04/1999	
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.	
DATE OCT 2019			
SHEET 7 OF 53			

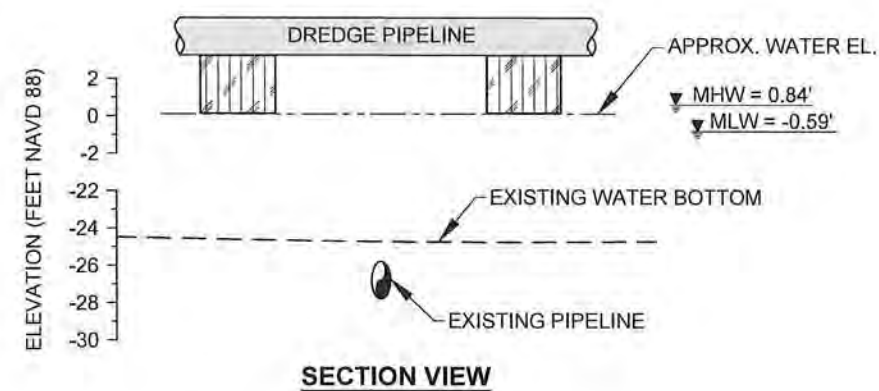
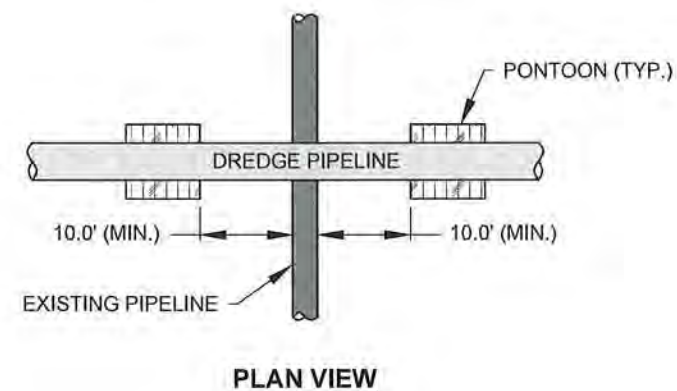
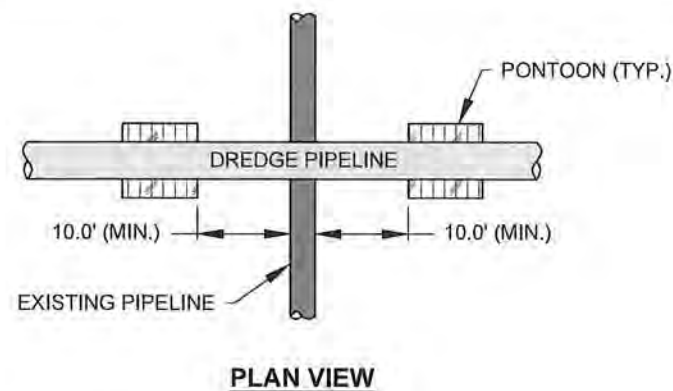


**TYPICAL SECTION - OFFSHORE
DREDGE PIPELINE CORRIDOR**

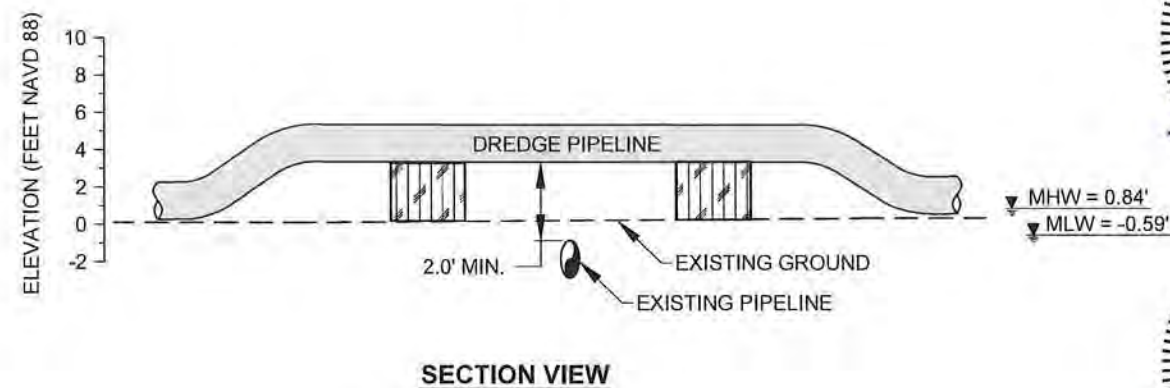
SECTION

PROFILE

**TYPICAL SECTION - BEACH AND DUNE
DREDGE PIPELINE CORRIDOR**

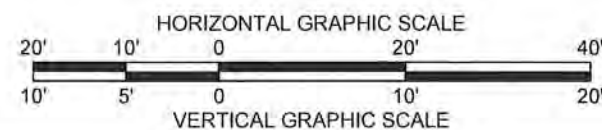


TYPICAL SECTION
OFFSHORE PIPELINE CROSSING

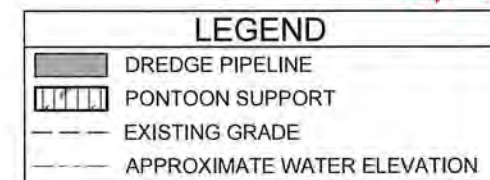


PL2
5

**TYPICAL SECTION
MARSH PIPELINE CROSSING**



NOTE:
THE DREDGE PIPELINE SHALL REMAIN FLOATING AT ALL TIMES
WHEN CROSSING PIPELINES WITH THE AID OF PONTOONS.



COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

TYPICAL DREDGE PIPELINE
CORRIDOR AND PIPELINE
CROSSING SECTIONS

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

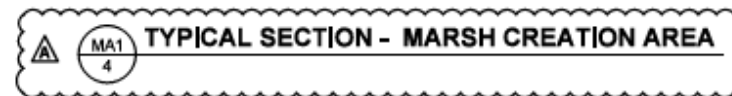
CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

STATE PROJECT NUMBER BA-0171

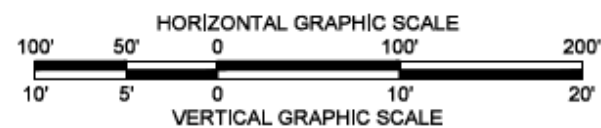
DRAWN BY: K. CANTU

DATE: OCT. 2019






SHEET 8 OF 53





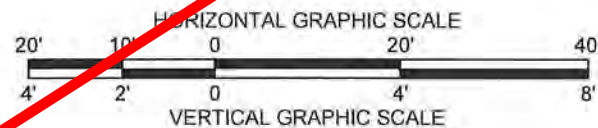
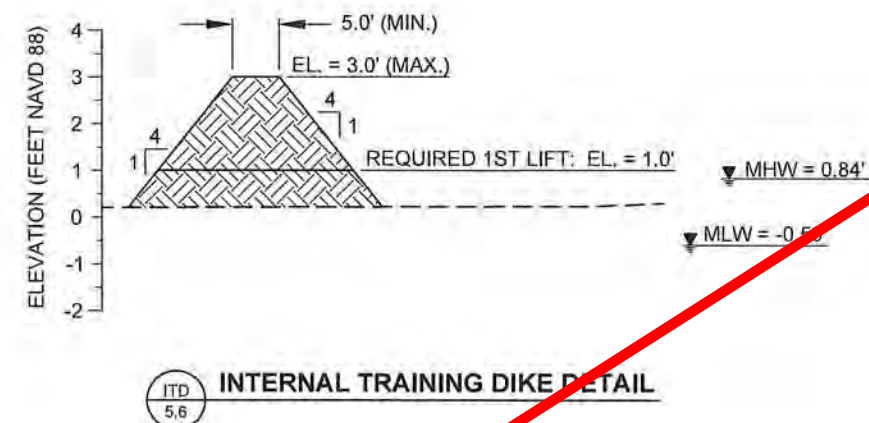
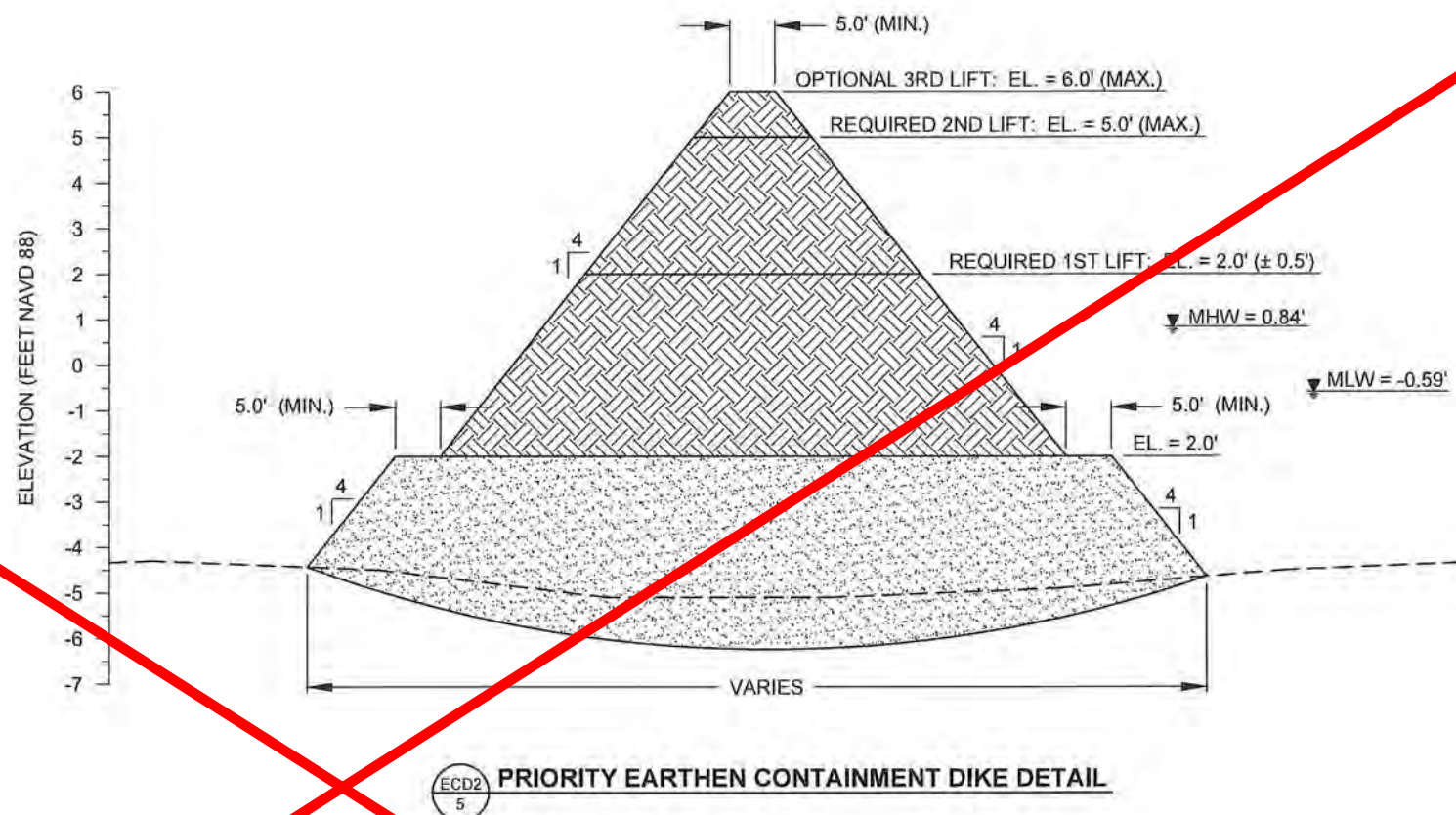
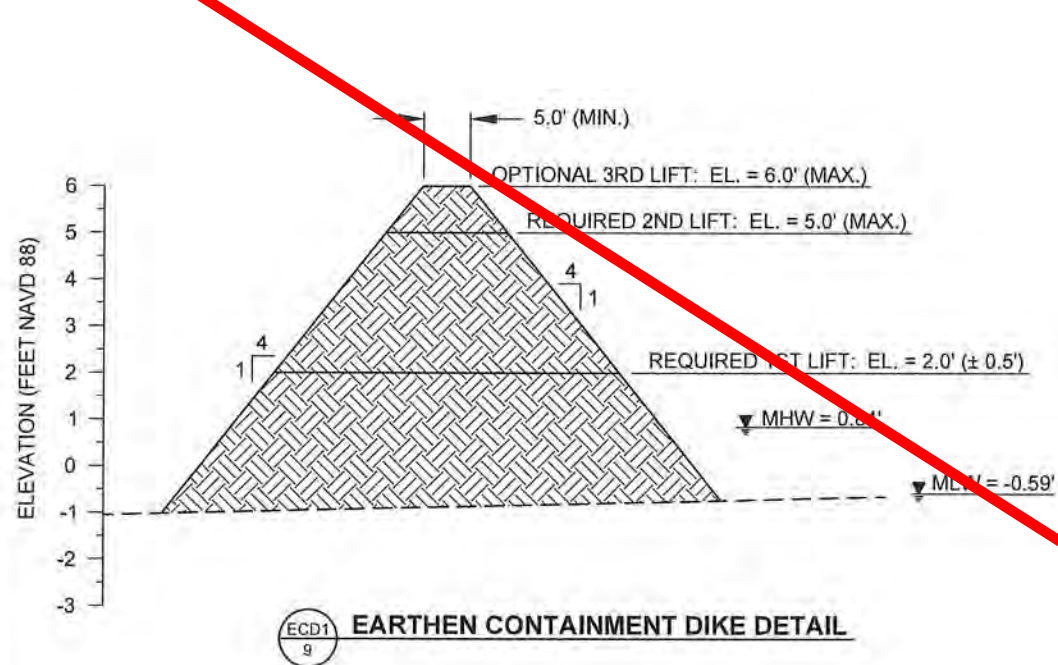
TYPICAL SECTION - MARSH CREATION AREA



- NOTES:
1. ENGINEER SHALL MONITOR THE INSTRUMENTED SETTLEMENT PLATES IN ORDER TO AID THE CONTRACTOR WITH ATTAINING THE CONTRACT QUANTITY. THE ENGINEER WILL INFORM THE CONTRACTOR WHEN THE OPTIMUM CMF ELEVATION HAS BEEN OBTAINED WITHIN THE TOLERANCE.

LEGEND	
	MARSH CREATION AREA
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	DUNE CONTAINMENT IMPROVEMENTS
	EXISTING GROUND

Caminada Headland Back Barrier Marsh Creation Project		Typical Marsh Creation Area Sections		 COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		 1/21/2021	REPLACES EXISTING BOTTOM WITH POST ZETA SECTIONS AND ADDED DUNE CONTAINMENT IMPROVEMENTS.	KC
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E. 041999						
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.						
DATE: OCT. 2019				REV.		DATE	DESCRIPTION	BY
SHEET 9 OF 53								



NOTES:

1. THERE SHALL BE A MINIMUM DELAY TIME OF 30 DAYS IN BETWEEN THE COMPLETION OF EACH LIFT AND CONSTRUCTION OF THE SUBSEQUENT LIFT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE REQUIRED FIRST LIFT FOR THE PRIORITY EARTHEN CONTAINMENT DIKE CAN BE CONSTRUCTED IMMEDIATELY AFTER THE PLACEMENT OF SAND.
3. MODIFICATIONS TO THE INTERNAL TRAINING DIKE TEMPLATE SHALL BE PROVIDED IN THE WORK PLAN AND APPROVED BY THE ENGINEER.



LEGEND	
	EARTHEN CONTAINMENT DIKE
	SAND
	EXISTING WATER BOTTOM

See revisions to As-Bid Sht next page

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

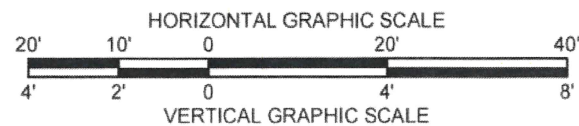
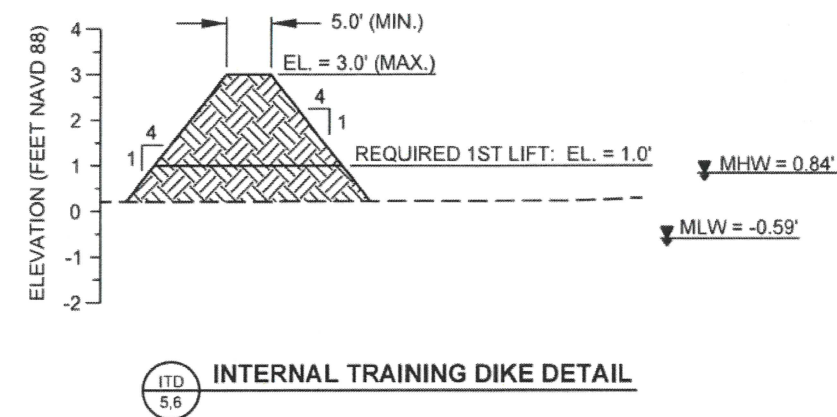
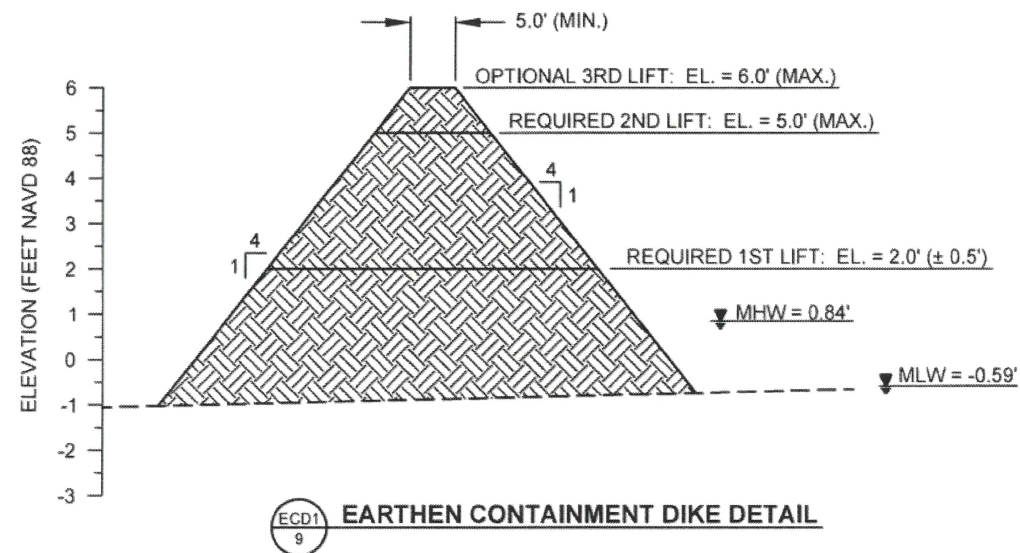
EARTHEN CONTAINMENT DIKE DETAILS

DESIGNED BY: A. TAYLOR, P.E. 04/1999
APPROVED BY: S. HAYNES, P.E.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

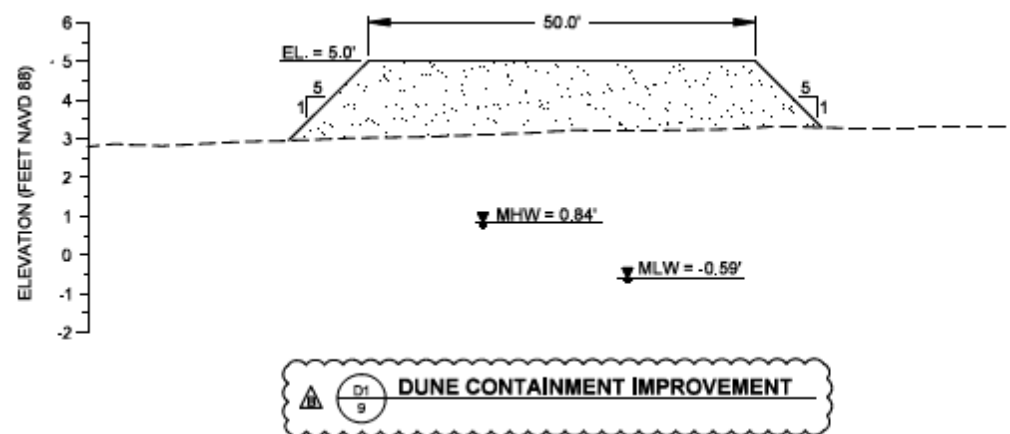
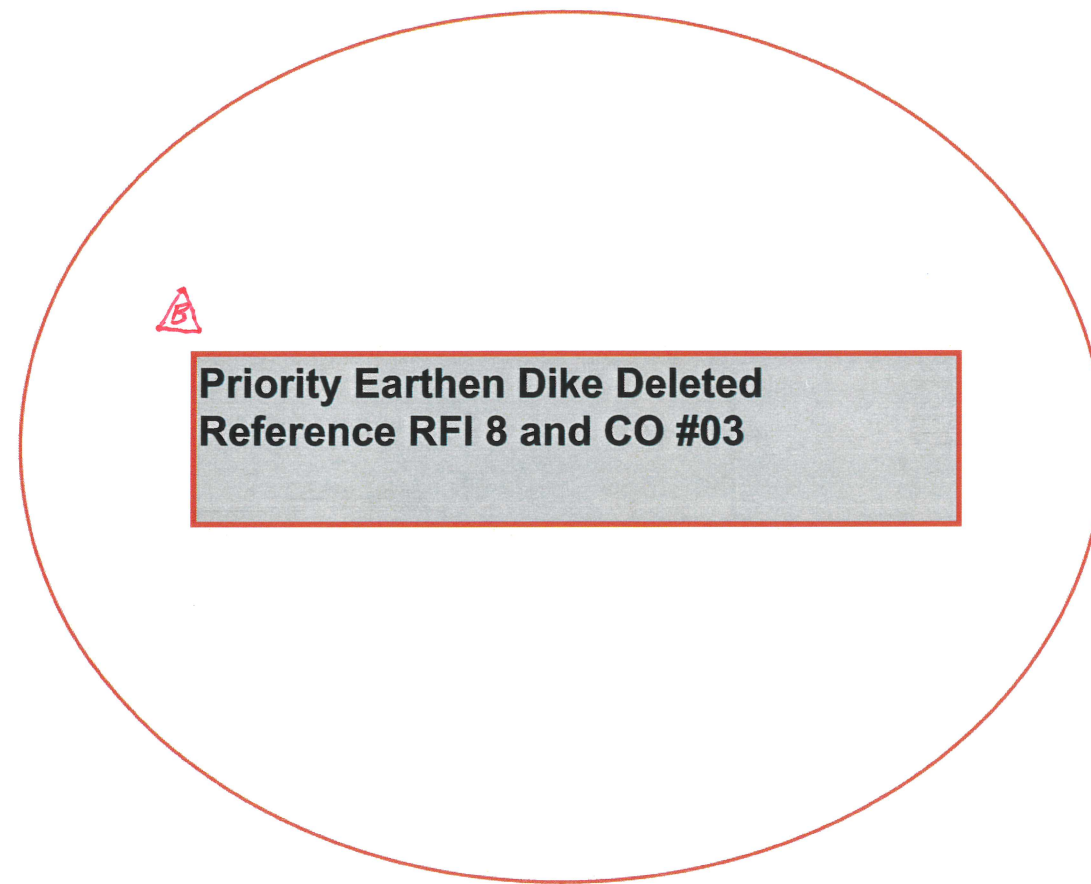
STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT, 2019
SHEET 10 OF 53



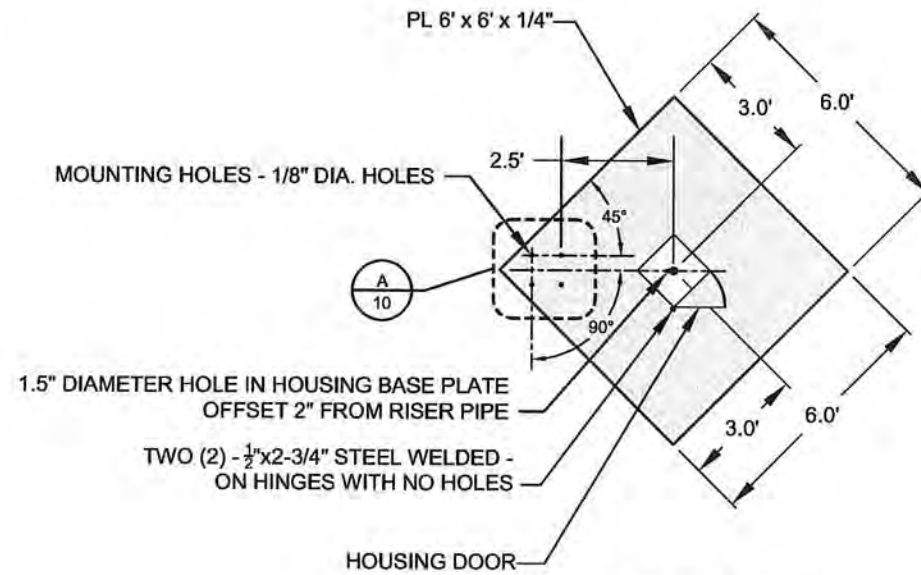
NOTES:

1. THERE SHALL BE A MINIMUM DELAY TIME OF 30 DAYS IN BETWEEN THE COMPLETION OF EACH LIFT AND CONSTRUCTION OF THE SUBSEQUENT LIFT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. MODIFICATIONS TO THE INTERNAL TRAINING DIKE TEMPLATE SHALL BE PROVIDED IN THE WORK PLAN AND APPROVED BY THE ENGINEER.

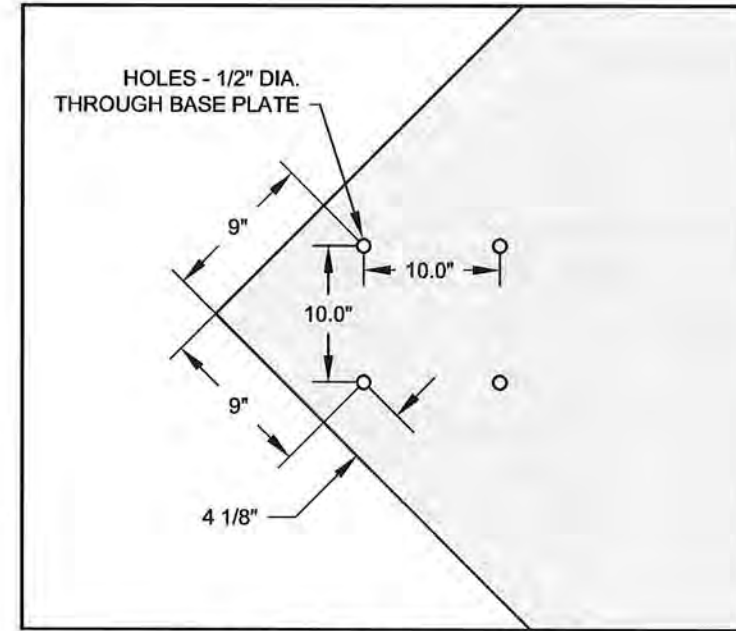


LEGEND	
	EARTHEN CONTAINMENT DIKE
	EXISTING WATER BOTTOM

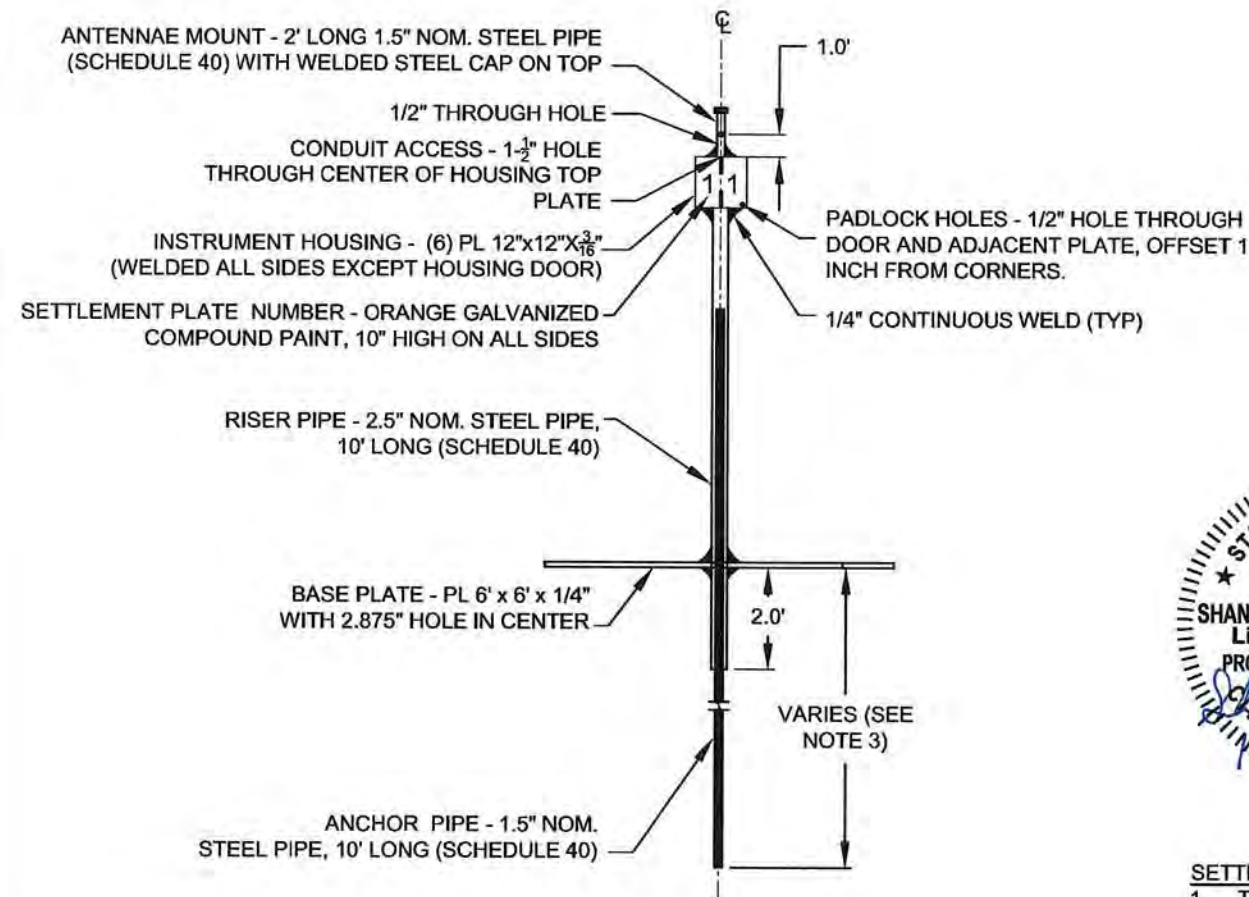
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	REMOVED PRIORITY DIKE DETAIL AND RELATED NOTE	7/14/2020	12/14/2022 Deleted For CO #03	9R	KC
	ADDED DUNE CONTAINMENT IMPROVEMENT DETAIL	12/27/2021			KC
	REV.	DATE			BY
EARTHEN CONTAINMENT DIKE DETAILS	DESIGNED BY: A. TAYLOR, P.E. 041999				
	APPROVED BY: S. HAYNES, P.E.				
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171				
	DRAWN BY: K. CANTU				
DATE: OCT 2019					
SHEET 10 OF 53					



PLAN VIEW



PRESSURE PLATE DETAIL
A/10 NTS



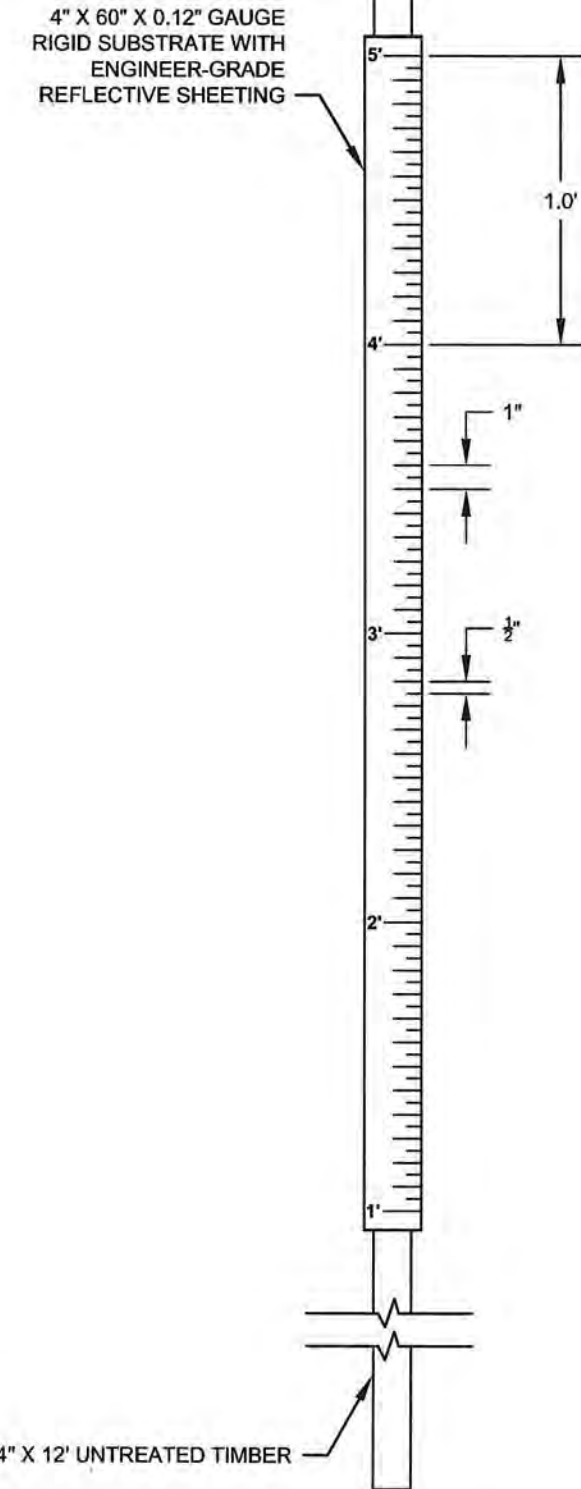
PROFILE VIEW

INSTRUMENTED SETTLEMENT PLATE
NTS



SETTLEMENT PLATE NOTES:

1. THE SETTLEMENT PLATES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. CPRA TO INSTALL INSTRUMENTATION ONTO THE SETTLEMENT PLATES IN THE FIELD WITH ASSISTANCE FROM THE CONTRACTOR.
3. DRIVEN DEPTH OF THE ANCHOR PIPE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.



GRADE STAKE DETAIL
NTS

2" X 4" X 12' UNTREATED TIMBER

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

INSTRUMENTED SETTLEMENT PLATE AND GRADE STAKE DETAILS

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

DATE: OCT. 2019

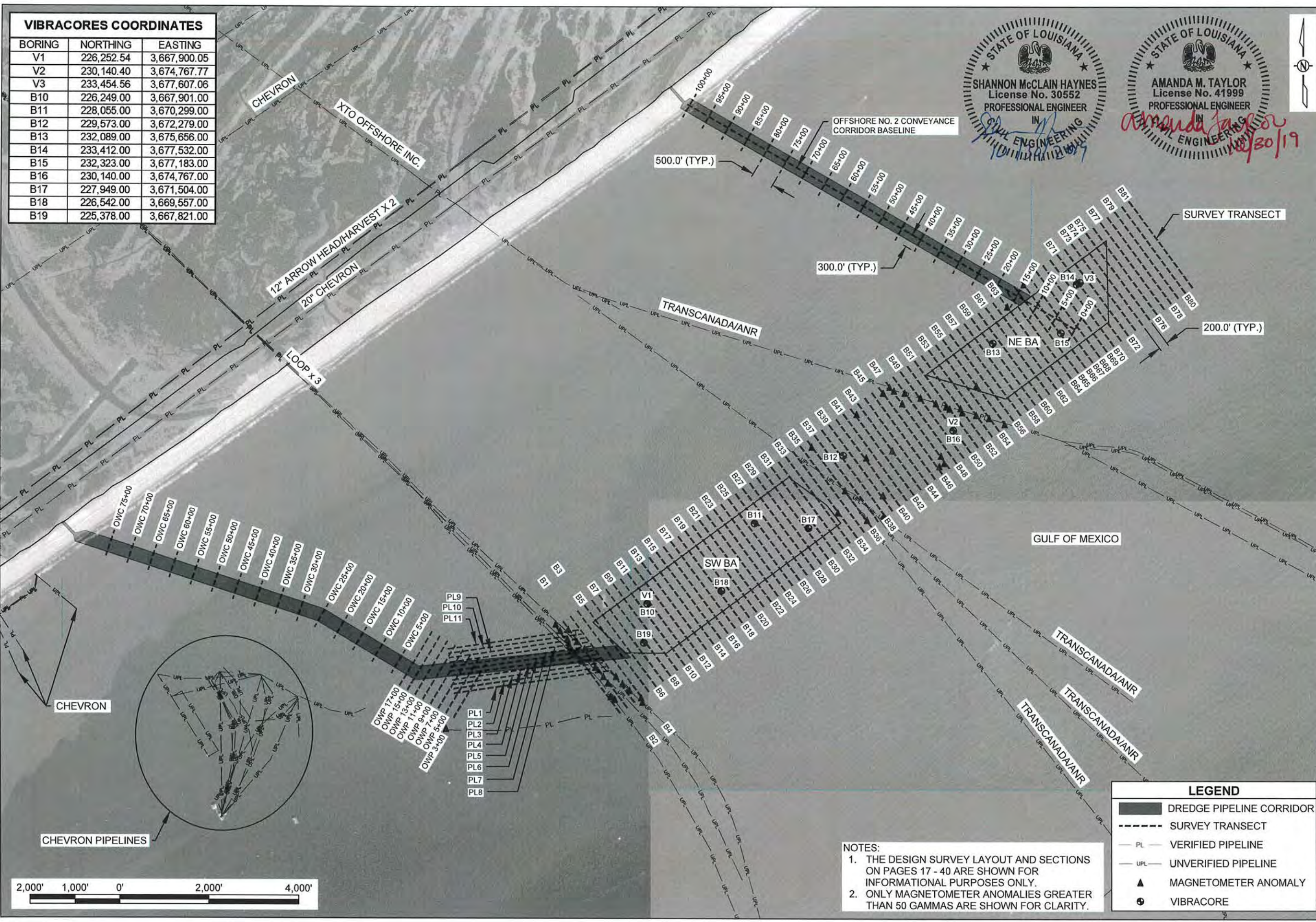
SHEET 11 OF 53

DESIGNED BY: A. TAYLOR, P.E. 041999
APPROVED BY: S. HAYNES, P.E.

DRAWN BY: K. CANTU

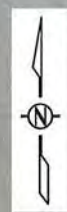
REV. DATE DESCRIPTION BY

VIBRACORES COORDINATES		
BORING	NORTHING	EASTING
V1	226,252.54	3,667,900.05
V2	230,140.40	3,674,767.77
V3	233,454.56	3,677,607.06
B10	226,249.00	3,667,901.00
B11	228,055.00	3,670,299.00
B12	229,573.00	3,672,279.00
B13	232,089.00	3,675,656.00
B14	233,412.00	3,677,532.00
B15	232,323.00	3,677,183.00
B16	230,140.00	3,674,767.00
B17	227,949.00	3,671,504.00
B18	226,542.00	3,669,557.00
B19	225,378.00	3,667,821.00



STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING



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

BORROW AREA DESIGN
SURVEY LAYOUT

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E. 041999

APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

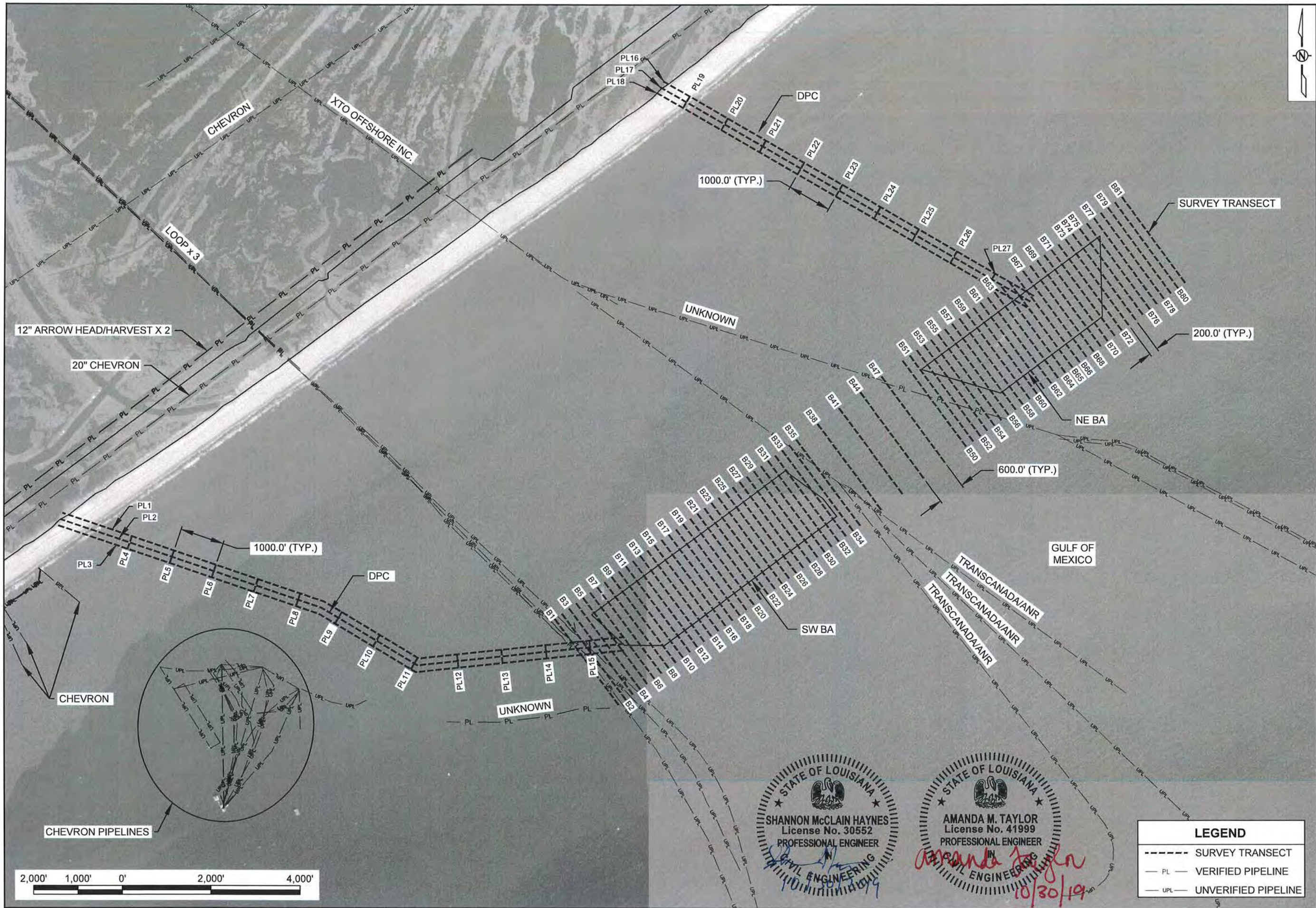
SHEET 12 OF 53

REV.	DATE	DESCRIPTION	BY

- NOTES:
1. THE DESIGN SURVEY LAYOUT AND SECTIONS ON PAGES 17 - 40 ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. ONLY MAGNETOMETER ANOMALIES GREATER THAN 50 GAMMAS ARE SHOWN FOR CLARITY.

LEGEND	
	DREDGE PIPELINE CORRIDOR
	SURVEY TRANSECT
	PL VERIFIED PIPELINE
	UPL UNVERIFIED PIPELINE
	MAGNETOMETER ANOMALY
	VIBRACORE



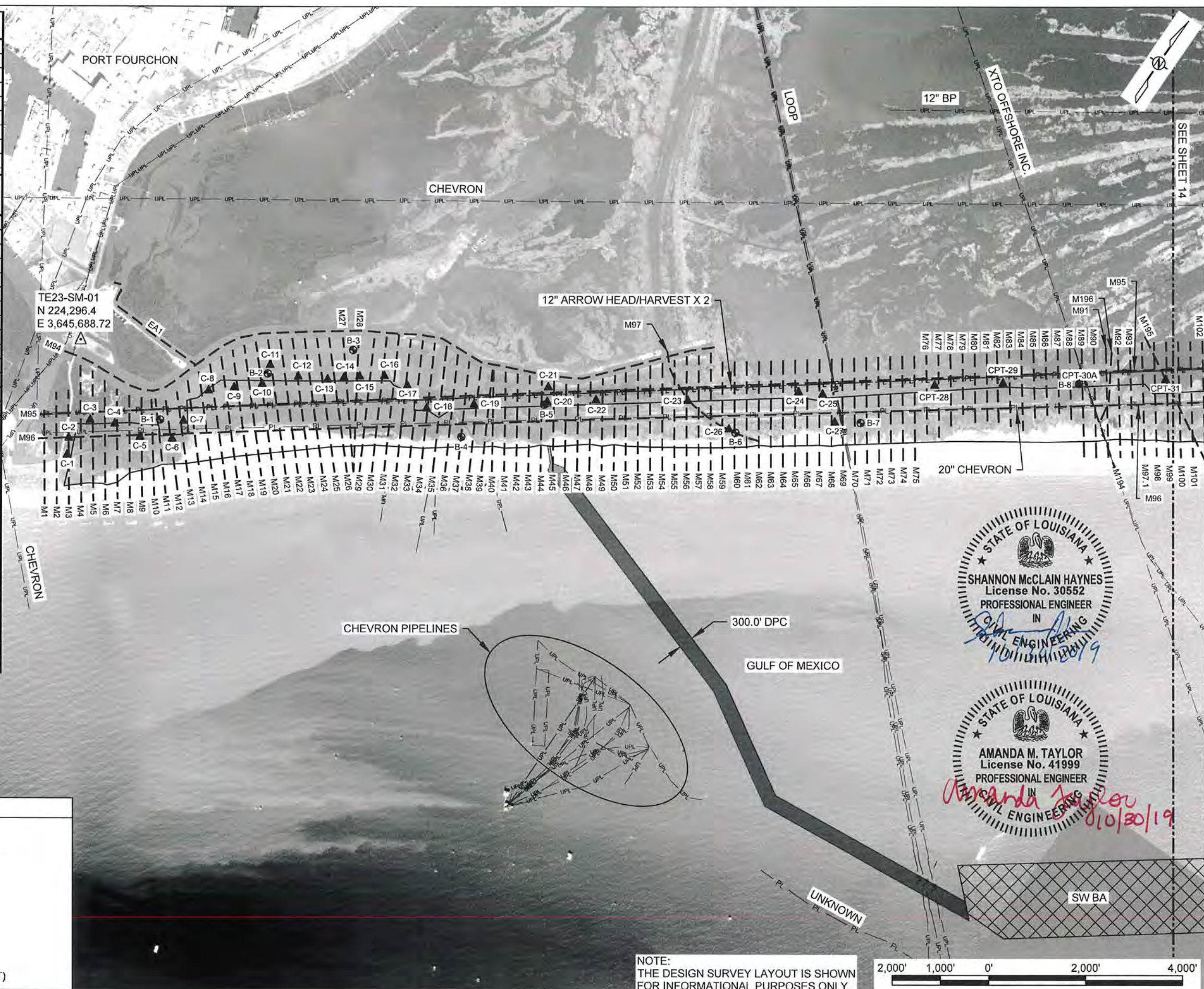


COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
BORROW AREA CONSTRUCTION SURVEY LAYOUT	DESIGNED BY: A. TAYLOR, P.E. 041999				
	APPROVED BY: S. HAYNES, P.E.				
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171				
	DRAWN BY: K. CANTU				
DATE: OCT. 2019					
SHEET 13 OF 53					

SOIL BORING COORDINATES		
BORING	NORTHING	EASTING
B-1	223,886.39	3,647,978.49
B-2	225,939.73	3,649,244.17
B-3	227,345.48	3,650,400.94
B-4	227,162.23	3,653,250.26
B-5	228,687.96	3,654,272.55
B-6	230,482.19	3,657,828.79
B-7	232,129.34	3,659,834.05
B-8	235,385.60	3,663,072.87

CONE PENETRATION TEST COORDINATES		
CPT	NORTHING	EASTING
C-1	222,197.98	3,646,833.23
C-2	222,499.32	3,646,661.65
C-3	223,056.39	3,646,806.90
C-4	223,283.23	3,647,265.95
C-5	223,359.71	3,647,841.83
C-6	223,708.85	3,648,406.11
C-7	224,143.02	3,648,384.00
C-8	224,951.81	3,648,446.85
C-9	225,309.36	3,648,842.45
C-10	225,697.57	3,649,273.23
C-11	226,110.82	3,649,180.36
C-12	226,248.30	3,649,791.06
C-13	226,546.60	3,650,320.30
C-14	226,771.43	3,650,575.28
C-15	226,975.96	3,650,821.59
C-16	227,273.10	3,651,235.50
C-17	227,389.25	3,651,731.08
C-18	227,233.66	3,652,326.99
C-19	227,857.58	3,653,083.52
C-20	228,768.95	3,654,289.47
C-21	229,030.04	3,654,136.01
C-22	229,373.16	3,655,090.48
C-23	230,449.76	3,656,640.56
C-24	231,912.65	3,658,417.18
C-25	232,159.56	3,658,849.23
C-26	230,460.44	3,657,678.23
C-27	231,831.73	3,659,384.79
CPT-28	233,643.04	3,660,652.07
CPT-29	234,493.22	3,661,778.46
CPT-30A	235,375.50	3,663,072.97
CPT-31	236,481.35	3,664,489.23

LEGEND	
	BORROW AREA
	DREDGE PIPELINE CORRIDOR
	MARSH CREATION AREA
	SURVEY TRANSECT
	VERIFIED PIPELINE
	UNVERIFIED PIPELINE
	SECONDARY MONUMENT
	SOIL BORING
	CONE PENETRATION TEST (CPT)



STATE OF LOUISIANA
SHANNON MCCLAIN HAYNES
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PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

STATE OF LOUISIANA
AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

COASTAL PROTECTION AND RESTORATION AUTHORITY		MARSH CREATION AREA DESIGN SURVEY LAYOUT		CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		DESIGNED BY: A. TAYLOR, P.E. 041999		STATE PROJECT NUMBER: BA-0171	
		APPROVED BY: S. HAYNES, P.E.		DRAWN BY: K. CANTU	
				DATE: OCT. 2019	
				SHEET 14 OF 53	

SOIL BORING COORDINATES		
	NORTHING	EASTING
B10	239,864.70	3,669,004.62
B11	244,830.82	3,675,699.28

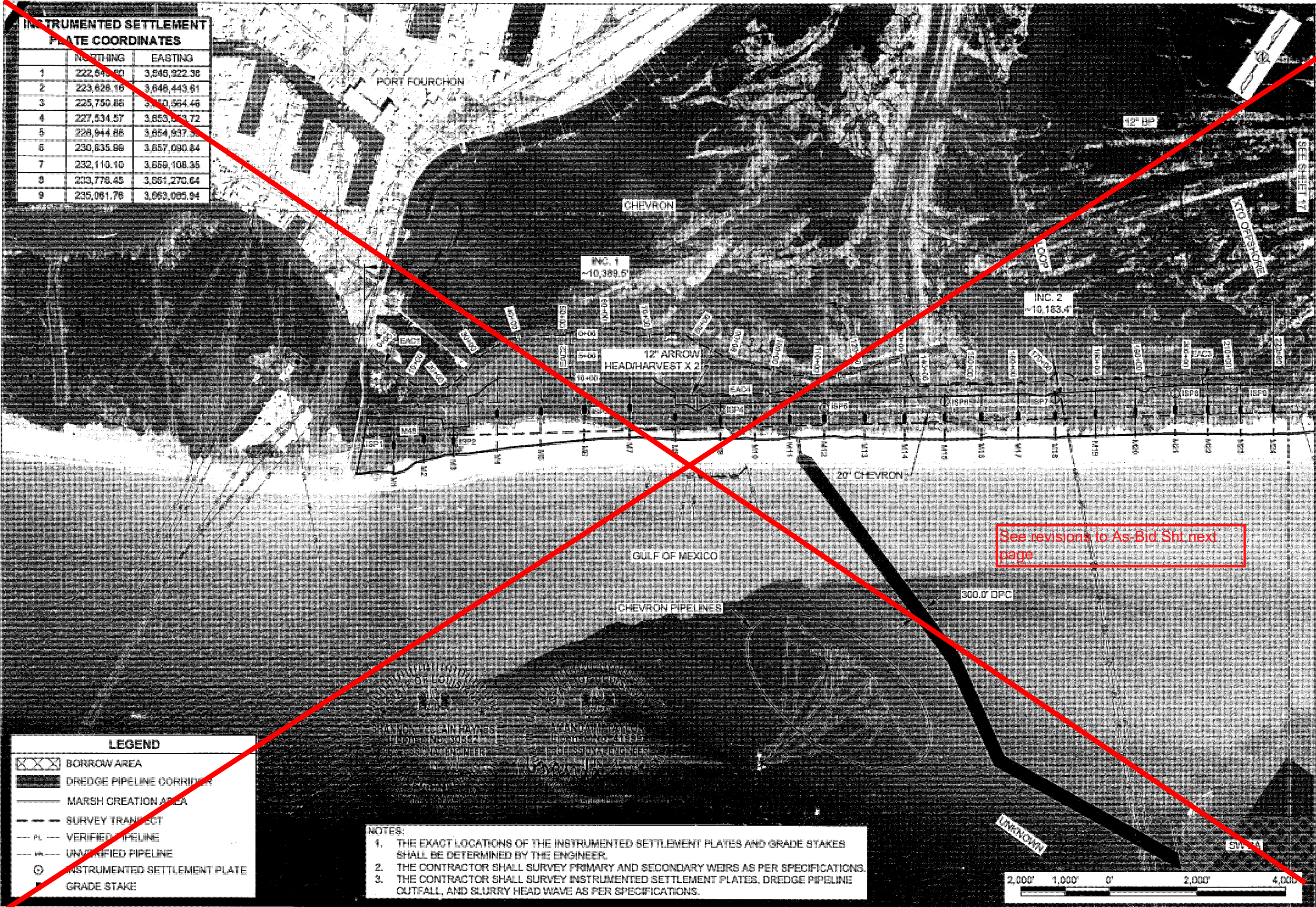
CPT COORDINATES		
	NORTHING	EASTING
CPT-32	237,618.22	3,665,967.16
CPT-33	239,993.03	3,668,912.80
CPT-34	241,569.51	3,670,864.60
CPT-35	242,485.83	3,672,477.49
CPT-37	244,874.43	3,675,714.77
CPT-48	246,760.17	3,678,203.49
CPT-50	247,989.46	3,679,768.23
CPT-53	250,315.65	3,682,783.61

NOTE:
THE DESIGN SURVEY LAYOUT IS SHOWN
FOR INFORMATIONAL PURPOSES ONLY.

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	MARSH CREATION AREA DESIGN SURVAY LAYOUT	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: BA-0171	DESIGNED BY: A. TAYLOR, P.E.						
DRAWN BY: K. CANTU	APPROVED BY: S. HAYNES, P.E.						
DATE: OCT. 2019		REV:	DATE	DESCRIPTION			
SHEET 15 OF 53							

INSTRUMENTED SETTLEMENT PLATE COORDINATES

	NORTHING	EASTING
1	222,646.90	3,646,922.38
2	223,626.16	3,646,443.81
3	225,750.88	3,650,564.46
4	227,534.57	3,653,673.72
5	228,944.88	3,654,937.35
6	230,635.99	3,657,090.64
7	232,110.10	3,659,108.35
8	233,776.45	3,661,270.64
9	235,061.76	3,663,085.94



LEGEND

- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- MARSH CREATION AREA
- SURVEY TRANSECT
- VERIFIED PIPELINE
- UNVERIFIED PIPELINE
- INSTRUMENTED SETTLEMENT PLATE
- GRADE STAKE

NOTES:

- THE EXACT LOCATIONS OF THE INSTRUMENTED SETTLEMENT PLATES AND GRADE STAKES SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL SURVEY PRIMARY AND SECONDARY WEIRS AS PER SPECIFICATIONS.
- THE CONTRACTOR SHALL SURVEY INSTRUMENTED SETTLEMENT PLATES, DREDGE PIPELINE OUTFALL, AND SLURRY HEAD WAVE AS PER SPECIFICATIONS.

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

INSTRUMENTED SETTLEMENT PLATE AND CONSTRUCTION SURVEY LAYOUT

DESIGNED BY: AMANDA TAYLOR, P.E.

APPROVED BY: SHANNON HAYNES, P.E.

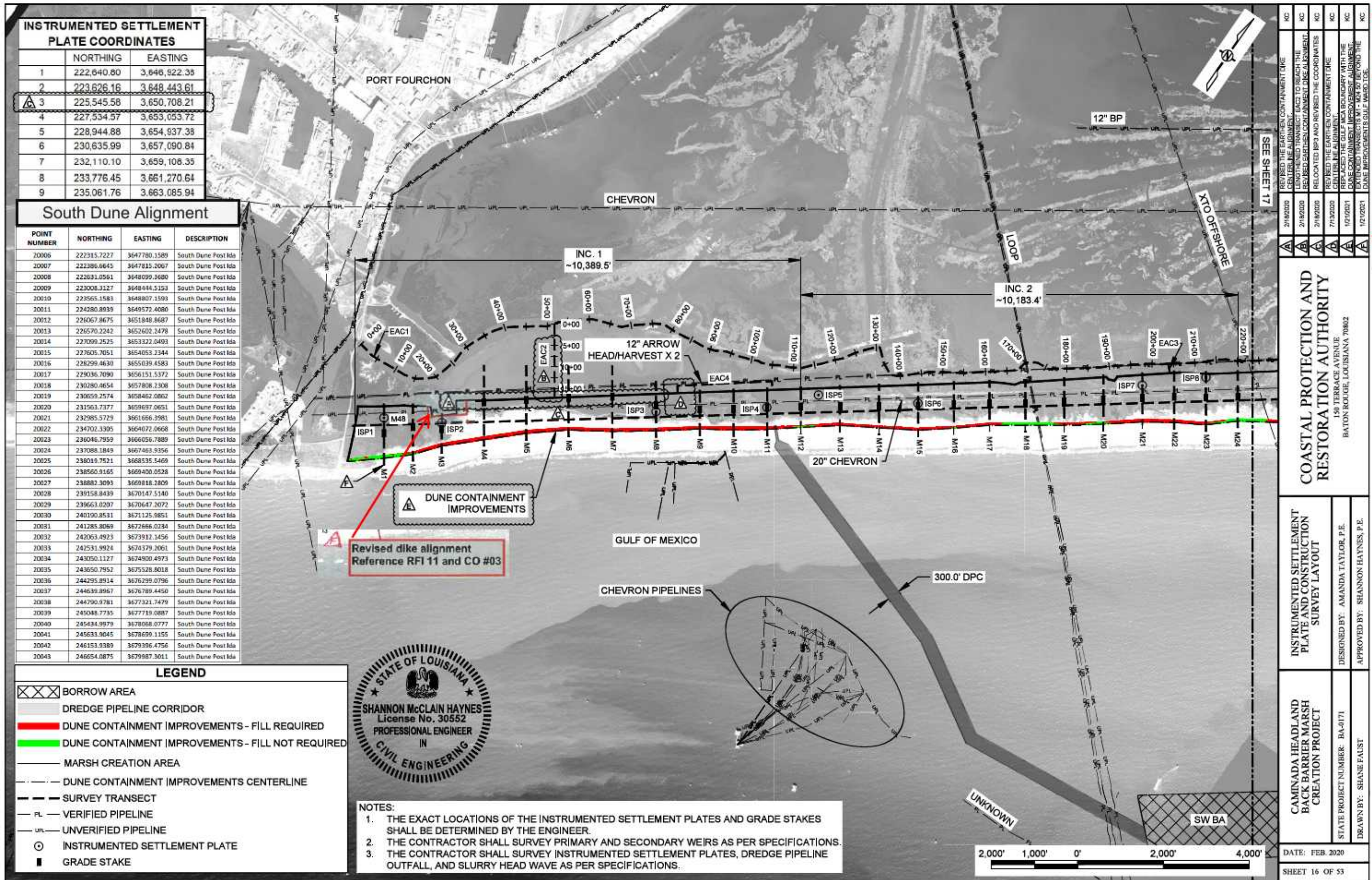
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

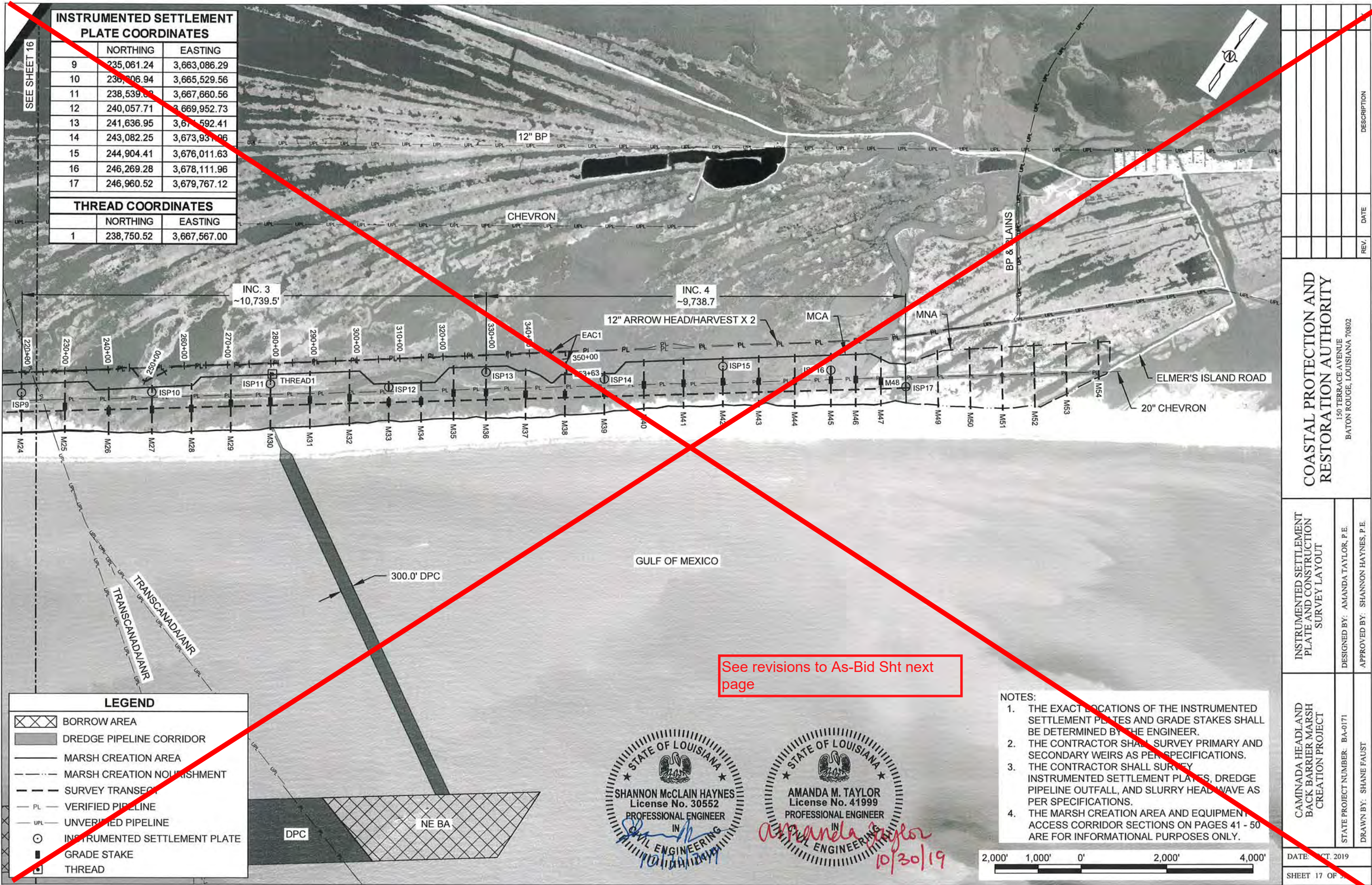
STATE PROJECT NUMBER: BA-071

DRAWN BY: SHANE FAUST

DATE: OCT. 2019

SHEET 16 OF 21





**INSTRUMENTED SETTLEMENT
PLATE COORDINATES**

	NORTHING	EASTING
9	235,061.24	3,663,086.29
10	236,006.94	3,665,529.56
11	238,539.59	3,667,660.56
12	240,057.71	3,669,952.73
13	241,636.95	3,671,592.41
14	243,082.25	3,673,937.96
15	244,904.41	3,676,011.63
16	246,269.28	3,678,111.96
17	246,960.52	3,679,767.12

THREAD COORDINATES

	NORTHING	EASTING
1	238,750.52	3,667,567.00

LEGEND

- BORROW AREA
- DREDGE PIPELINE CORRIDOR
- MARSH CREATION AREA
- MARSH CREATION Nourishment
- SURVEY TRANSECT
- PL VERIFIED PIPELINE
- UPL UNVERIFIED PIPELINE
- INSTRUMENTED SETTLEMENT PLATE
- GRADE STAKE
- THREAD

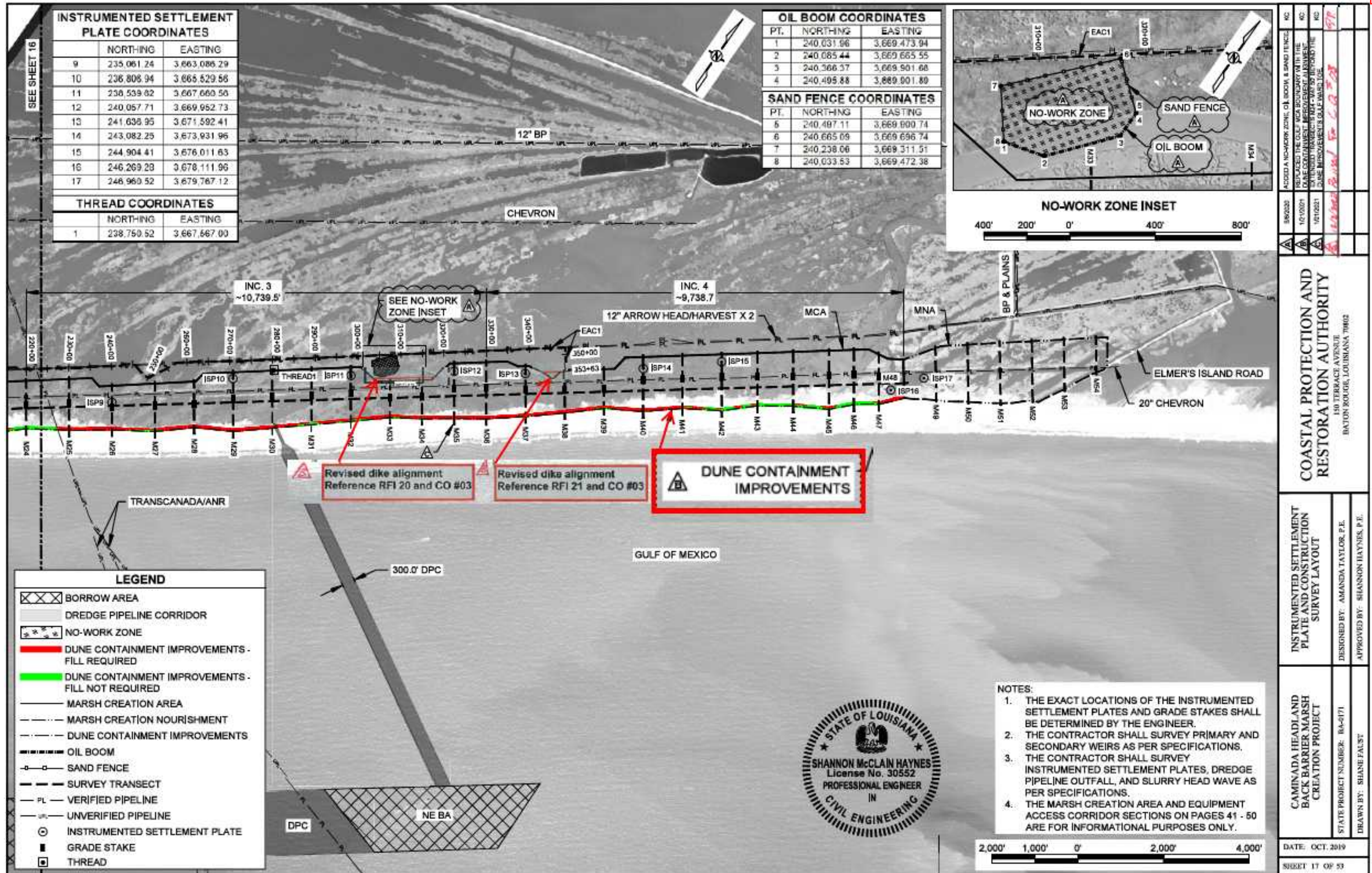


See revisions to As-Bid Sht next page

- NOTES:**
1. THE EXACT LOCATIONS OF THE INSTRUMENTED SETTLEMENT PLATES AND GRADE STAKES SHALL BE DETERMINED BY THE ENGINEER.
 2. THE CONTRACTOR SHALL SURVEY PRIMARY AND SECONDARY WEIRS AS PER SPECIFICATIONS.
 3. THE CONTRACTOR SHALL SURVEY INSTRUMENTED SETTLEMENT PLATES, DREDGE PIPELINE OUTFALL, AND SLURRY HEAD WAVE AS PER SPECIFICATIONS.
 4. THE MARSH CREATION AREA AND EQUIPMENT ACCESS CORRIDOR SECTIONS ON PAGES 41 - 50 ARE FOR INFORMATIONAL PURPOSES ONLY.

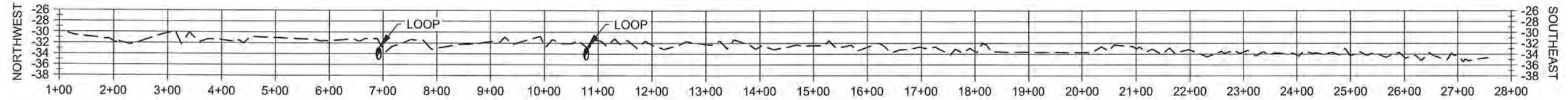


COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	
INSTRUMENTED SETTLEMENT PLATE AND CONSTRUCTION SURVEY LAYOUT	DESIGNED BY: AMANDA TAYLOR, P.E. APPROVED BY: SHANNON HAYNES, P.E.
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171 DRAWN BY: SHANE FAUST
DATE: OCT. 2019	
SHEET 17 OF 20	

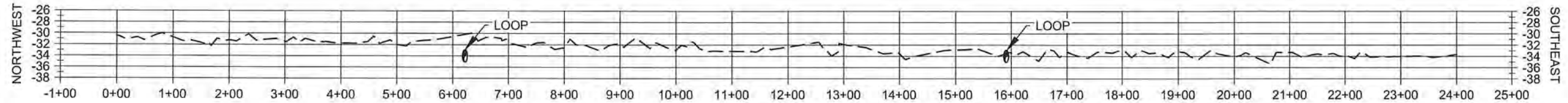




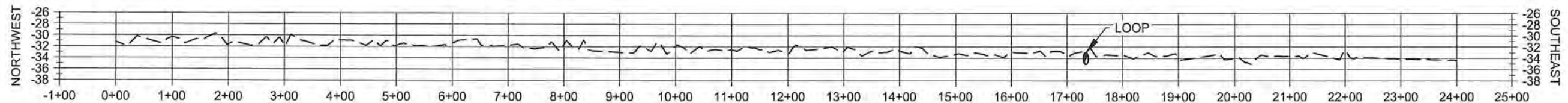
<p>8/3/21 ADDED PROPOSED ACCESS ROAD (SAND FILL) LJC</p> <p>8/2/21 ADDED CROSS SECTIONS A-A AND B-B LJC</p> <p>DATE DESCRIPTION BY</p>		<p>SCALE:</p> <p>SCALE IN FEET</p> <p>0 30 60 90 120 150</p>	<p>STAMP:</p> <p>STATE OF LOUISIANA</p> <p>LEONARD J. CHALVIN JR.</p> <p>REGISTERED PROFESSIONAL LAND SURVEYOR</p> <p>SIGNATURE: <i>Leonard J. Chalvin Jr.</i></p> <p>DATE: APRIL 28, 2021</p>	<p>DESIGNED: []</p> <p>CHECKED: []</p> <p>DATE: APRIL 28, 2021</p>	<p>DETAILED: []</p> <p>CHECKED: []</p> <p>PROJECT: 21-2710</p>	<p>MAP SHOWING ACCESS RIGHT OF WAY FOR GREAT LAKES DREDGE & DOCK COMPANY, LLC ACROSS PROPERTY BELONGING TO CAILLOUET LAND, L.L.C. LAFOURCHE PARISH, LOUISIANA</p>	<p>SHEET</p> <p>1</p>
--	--	--	--	--	--	---	-----------------------



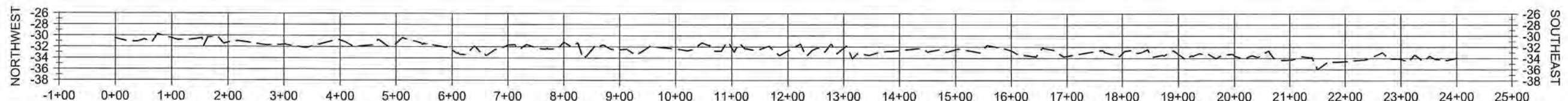
B1



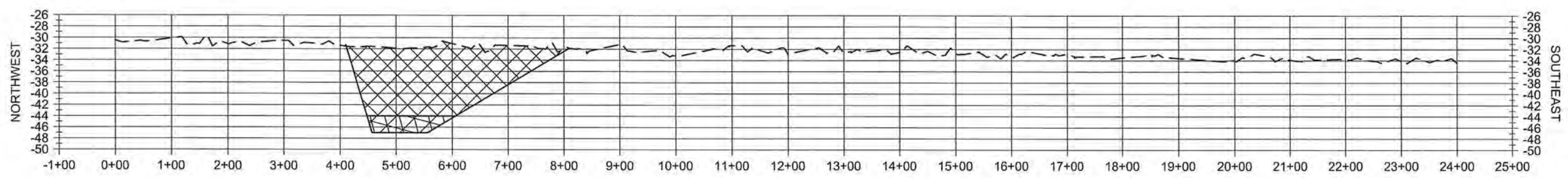
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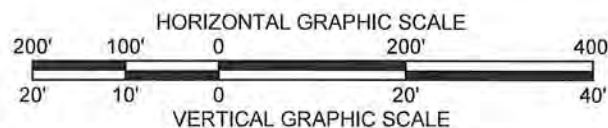
B3



B4



B5

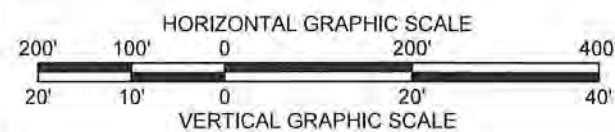
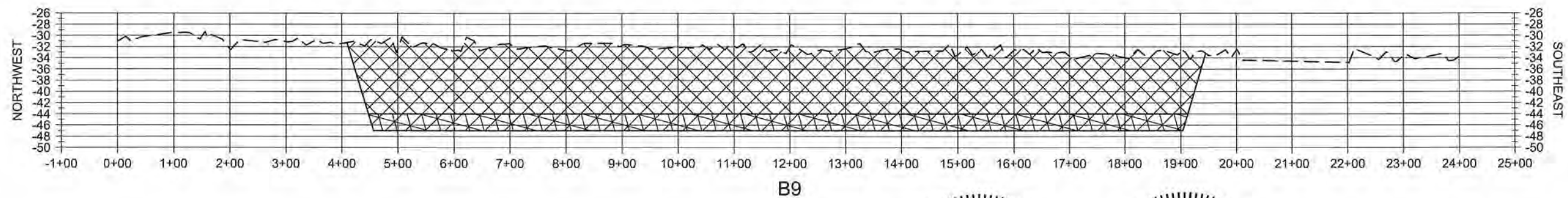
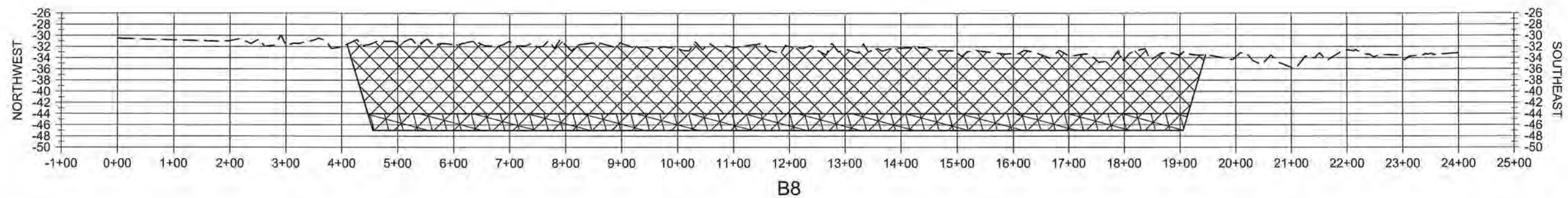
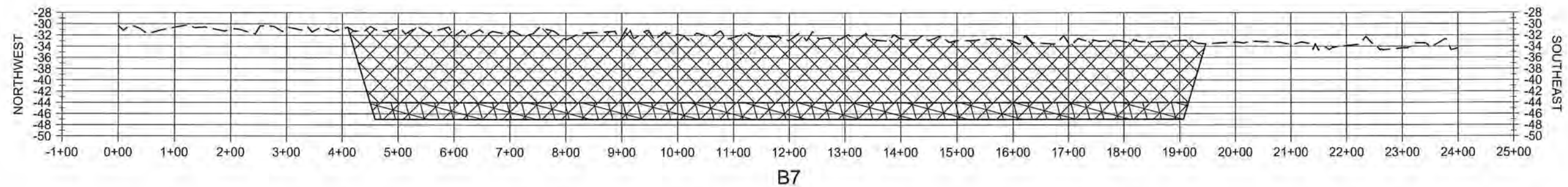
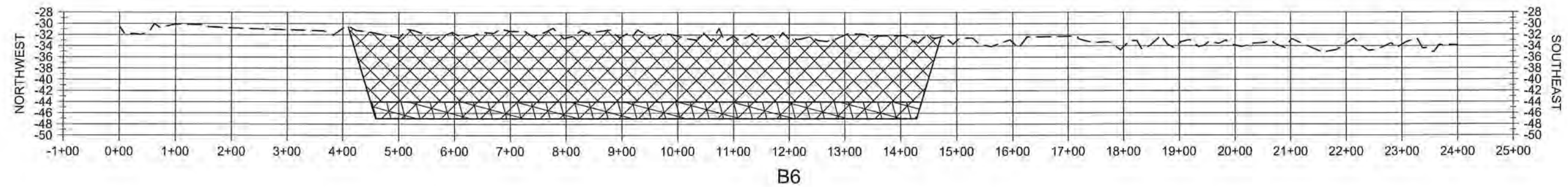


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM
	PIPELINE



CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802															
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.																	
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.																	
DATE: OCT. 2019																			
SHEET 18 OF 53																			
				REV.										DATE		DESCRIPTION		BY	



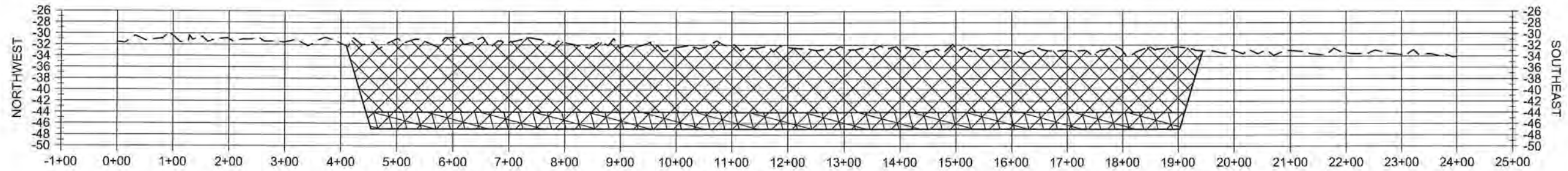
NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



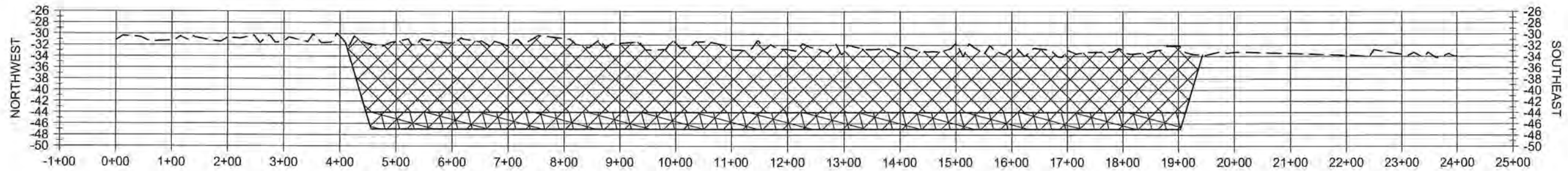
IN
CIVIL ENGINEERING
10/30/19

LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

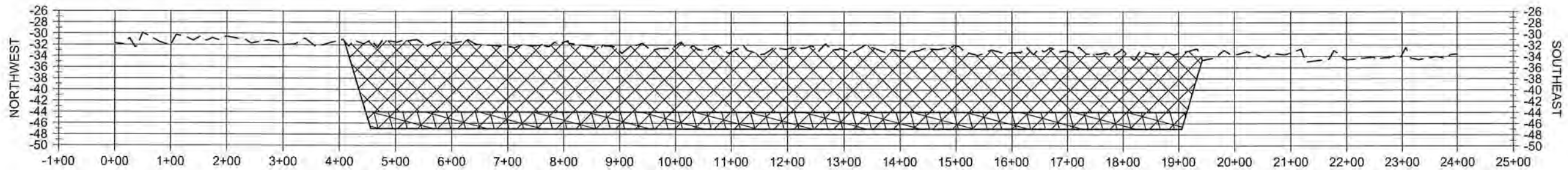
DATE: OCT. 2019		<div>CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT</div>	<div>BORROW AREA SECTIONS</div>	<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div>							
STATE PROJECT NUMBER: BA-0171				DESIGNED BY: A. TAYLOR, P.E.							
DRAWN BY: K. CANTU				APPROVED BY: S. HAYNES, P.E.							
SHEET 19 OF 53				REV.	DATE	DESCRIPTION	BY				



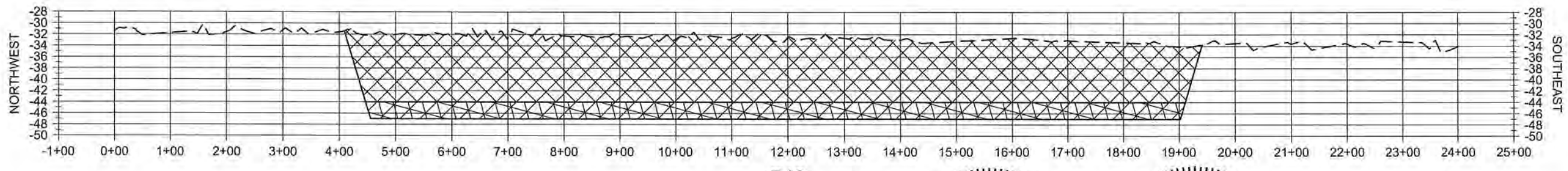
B10



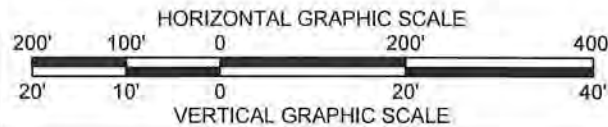
B11



B12



B13

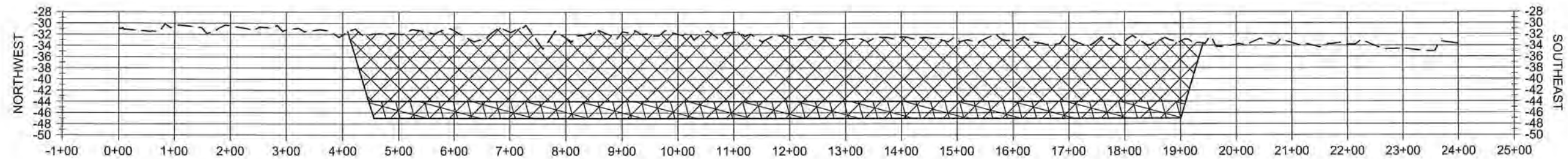


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

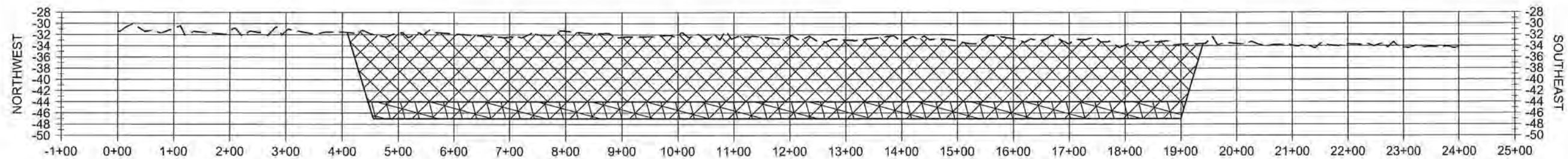


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

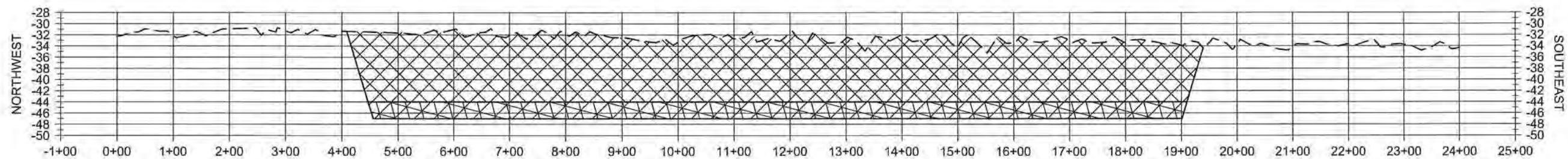
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802							
STATE PROJECT NUMBER: BA-0171							DESIGNED BY: A. TAYLOR, P.E.			
DRAWN BY: K. CANTU							APPROVED BY: S. HAYNES, P.E.			
DATE: OCT. 2019			REV.	DATE	DESCRIPTION	BY				
SHEET 20 OF 53										



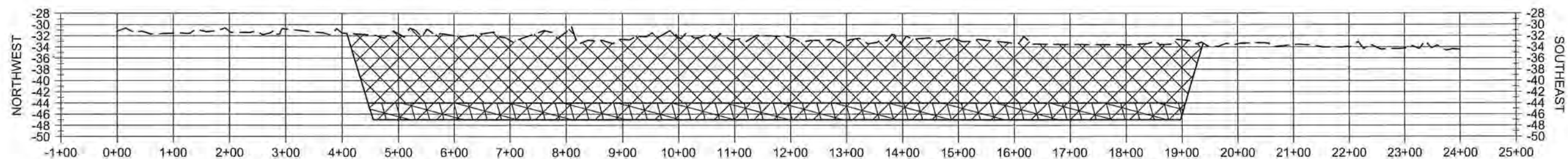
B14



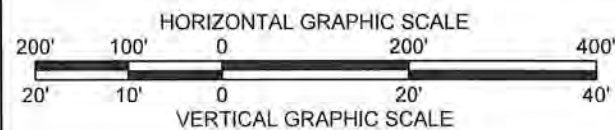
B15



B16



B17

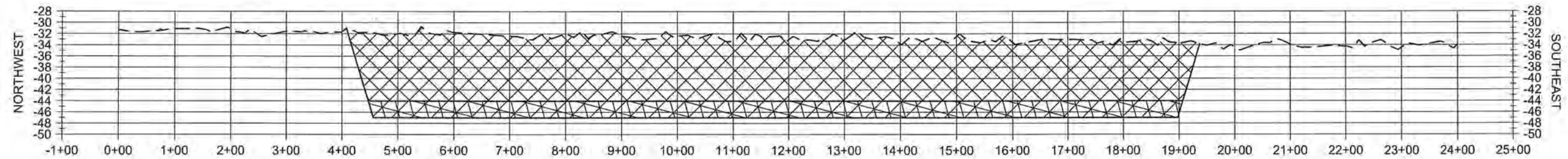


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

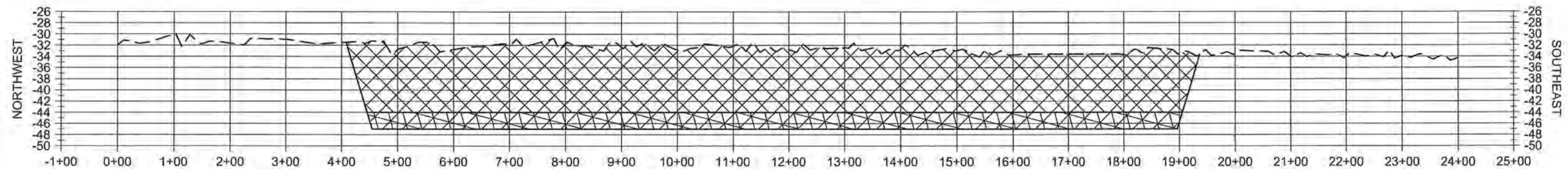


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

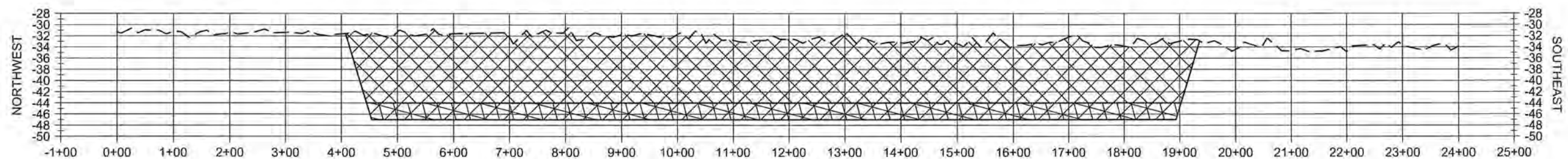
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802			
STATE PROJECT NUMBER: BA-0171	DESIGNED BY: A. TAYLOR, P.E.		REV.	DATE	DESCRIPTION
DRAWN BY: K. CANTU	APPROVED BY: S. HAYNES, P.E.				BY
DATE: OCT 2019					
SHEET 21 OF 51					



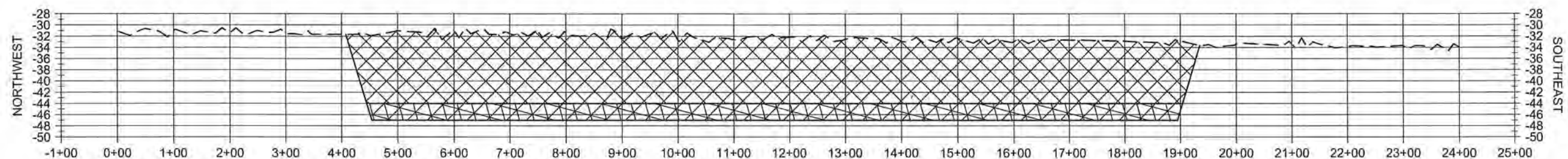
B18



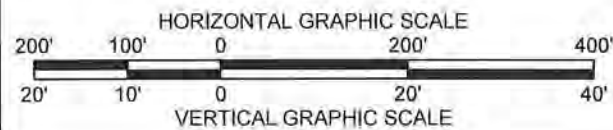
B19



B20



B21

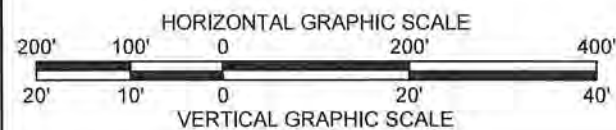
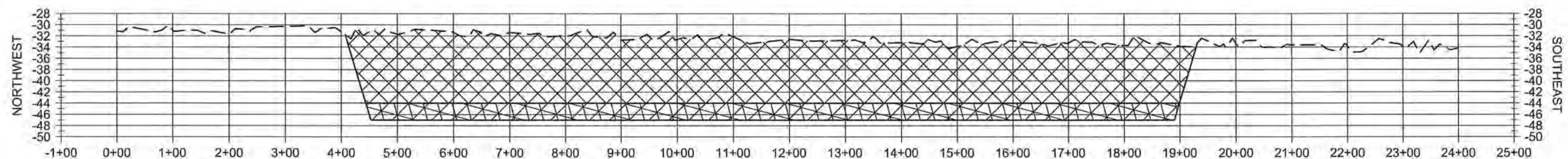
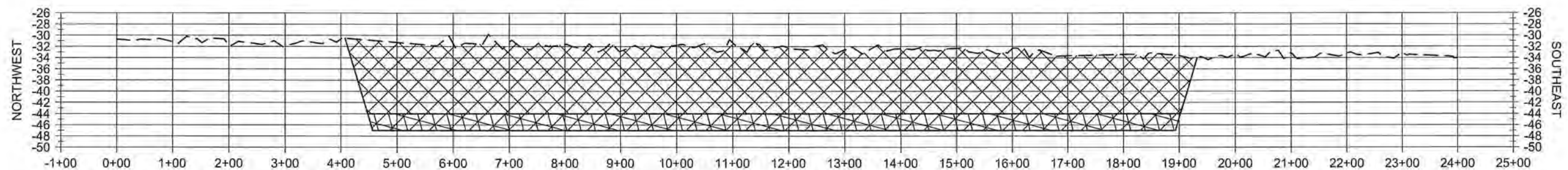
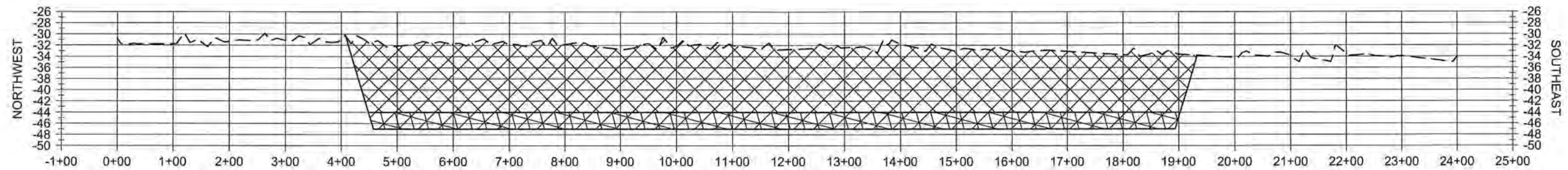
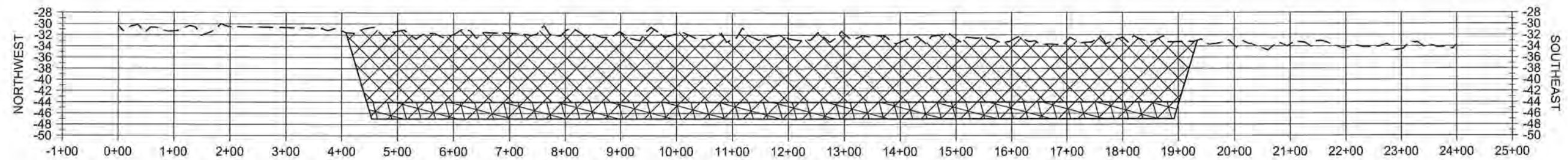


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).






LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

CAMLNADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171	DRAWN BY: K. CANTU	DESIGNED BY: A. TAYLOR, P.E. APPROVED BY: S. HAYNES, P.E.	BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					REV.	DATE	DESCRIPTION	BY
DATE: OCT 2019													
SHEET 22 OF 53													

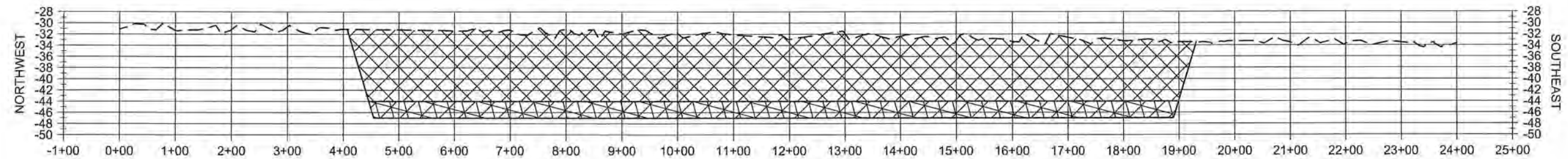


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

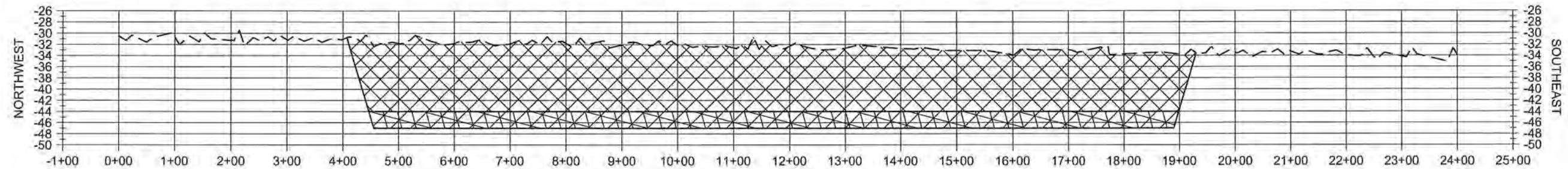


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

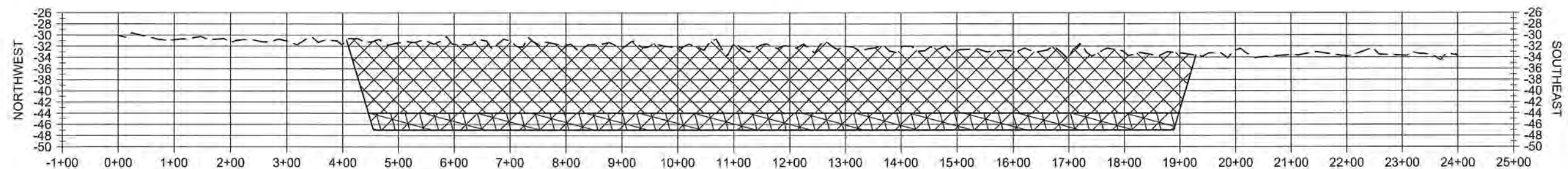
DATE: OCT. 2019		<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div>					
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT				BORROW AREA SECTIONS			
STATE PROJECT NUMBER: BA-071				DESIGNED BY: A. TAYLOR, P.E.			
DRAWN BY: K. CANTU				APPROVED BY: S. HAYNES, P.E.			
SHEET 23 OF 53		REV:	DATE	DESCRIPTION	BY		



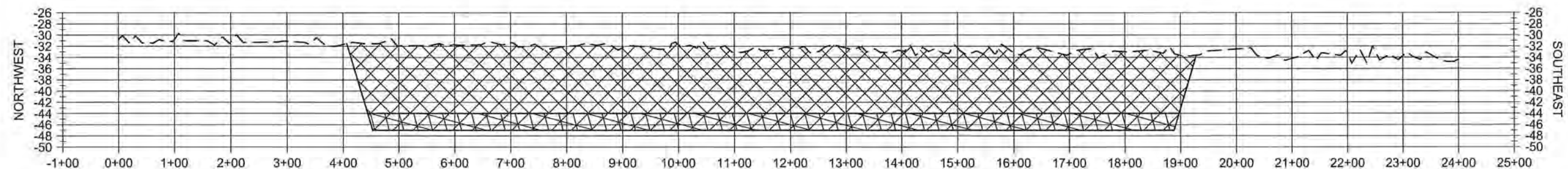
B26



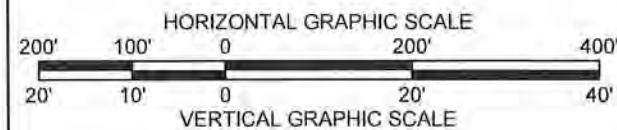
B27



B28



B29



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



LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

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

BORROW AREA
SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

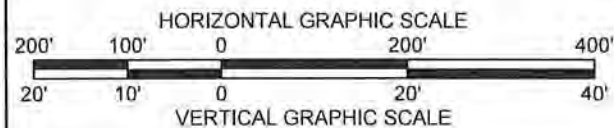
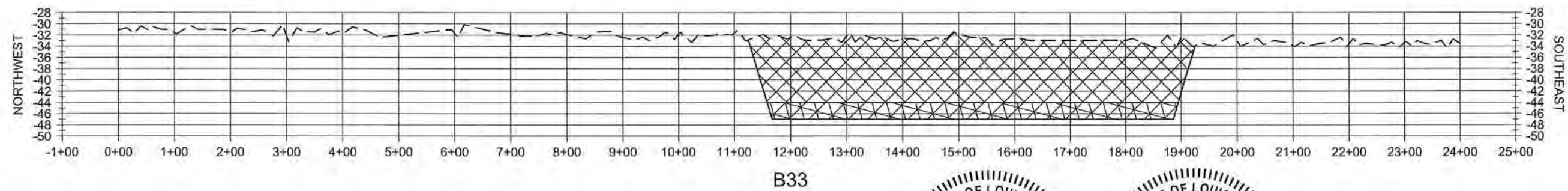
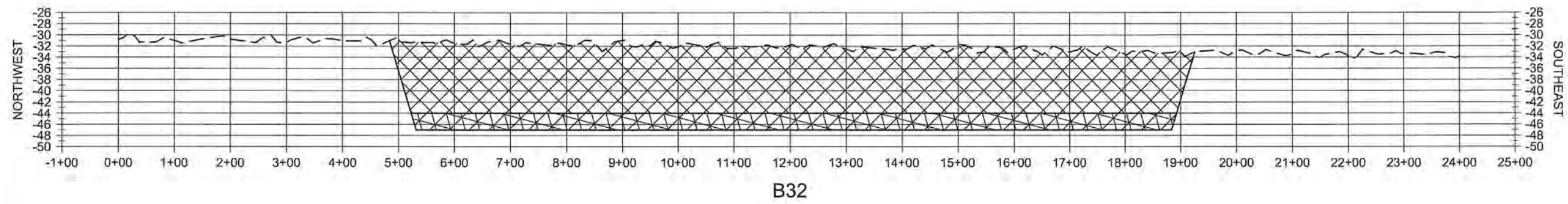
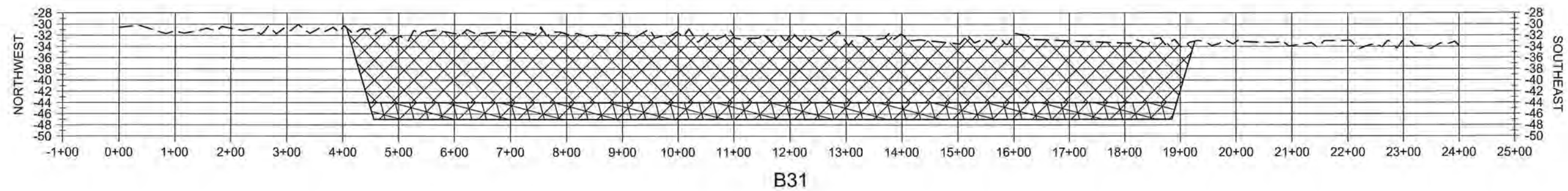
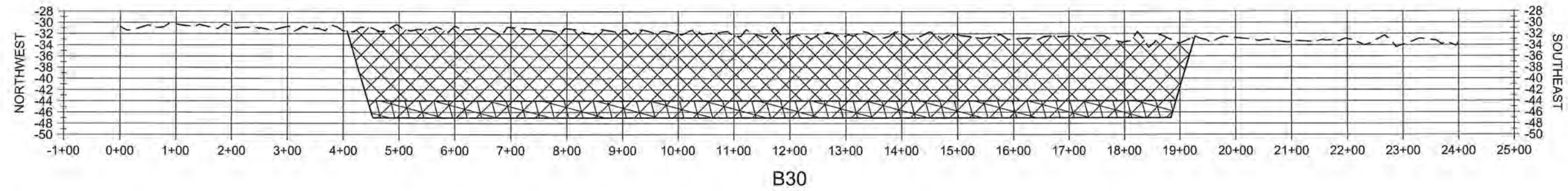
SHEET 24 OF 53

DESCRIPTION

DATE

REV.

BY

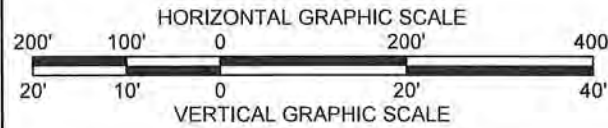
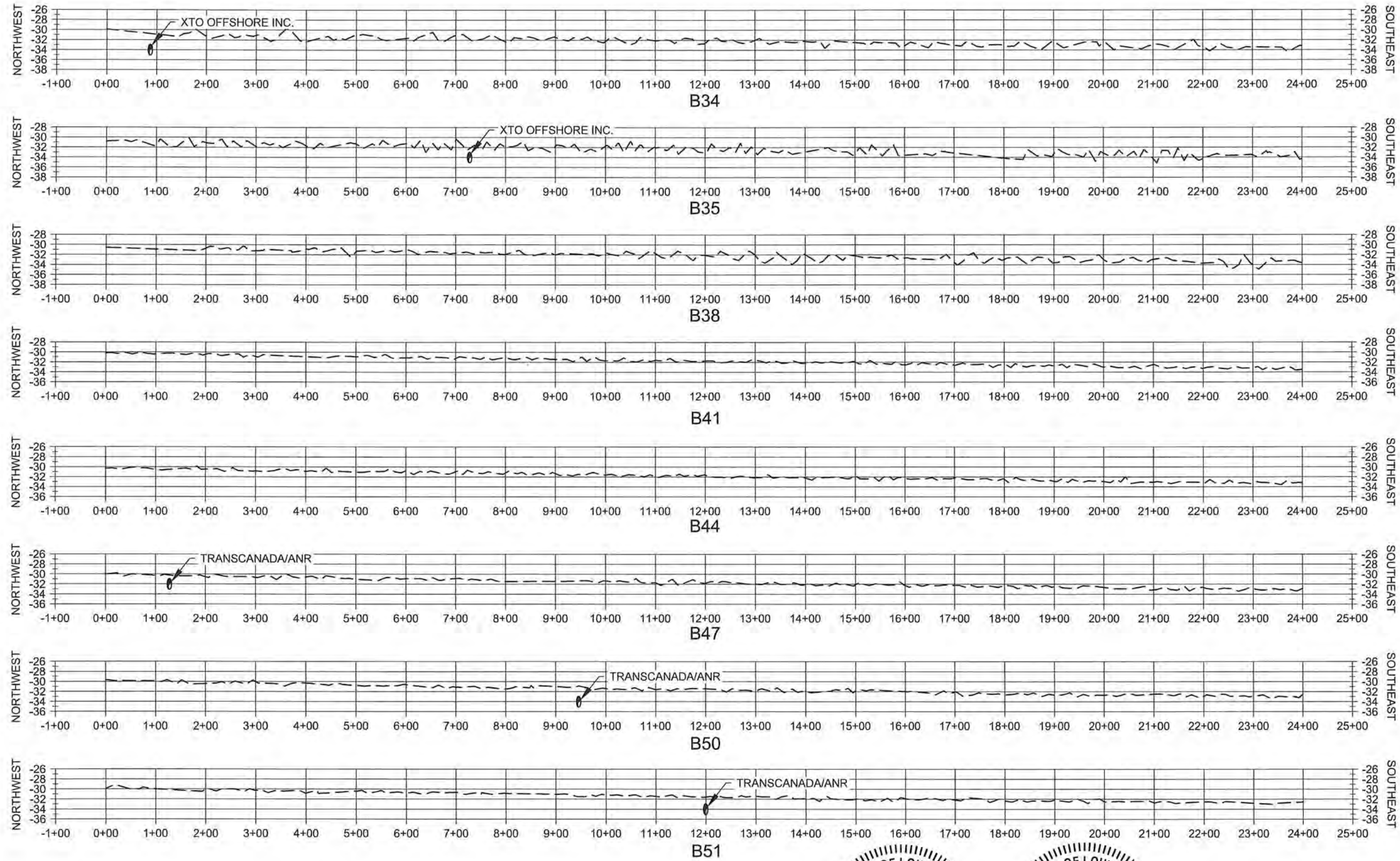


NOTE:
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THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802						
STATE PROJECT NUMBER: BA-0171							DESIGNED BY: A. TAYLOR, P. E.		
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P. E.		REV.	DATE	DESCRIPTION			BY
DATE: OCT. 2019									
SHEET 25 OF 53									

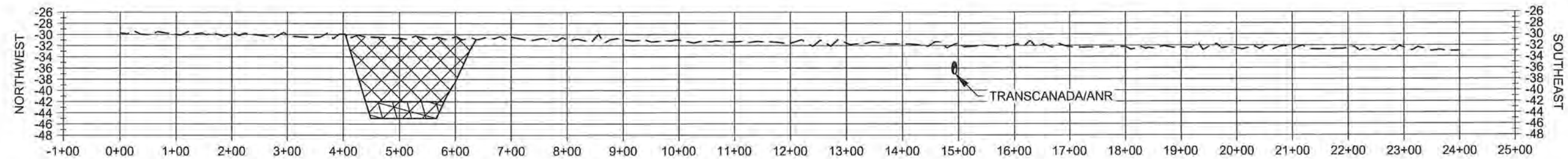


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

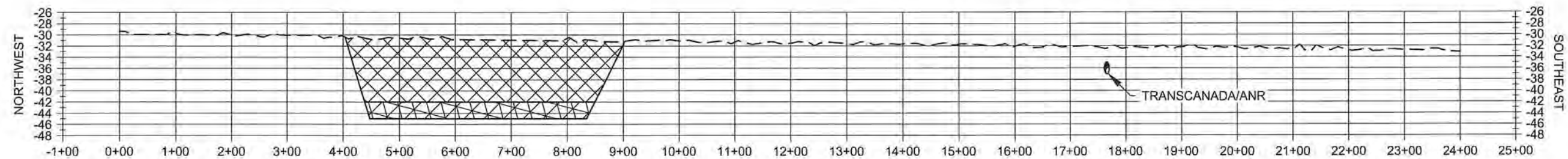


LEGEND	
	EXISTING WATER BOTTOM
	PIPELINE

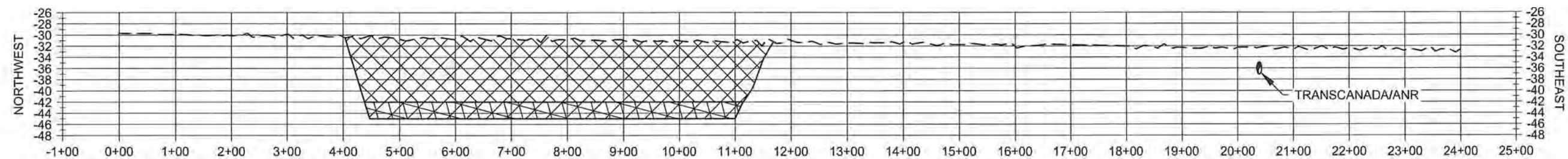
COSTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	REV.	DATE	DESCRIPTION	BY
BORROW AREA SECTIONS	DESIGNED BY: A. TAYLOR, P.E.			
	APPROVED BY: S. HAYNES, P.E.			
	DRAWN BY: K. CANTU			
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171			
	DATE: OCT. 2019			
	SHEET 26 OF 53			



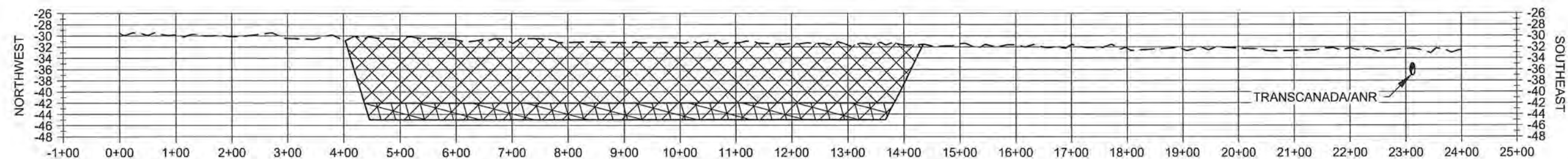
B52



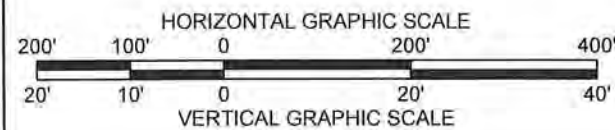
B53



B54



B55

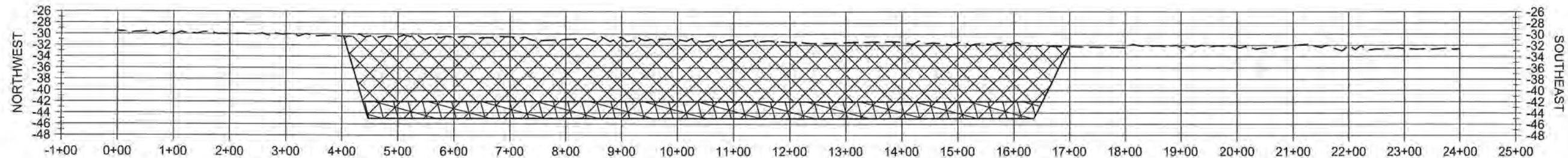


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

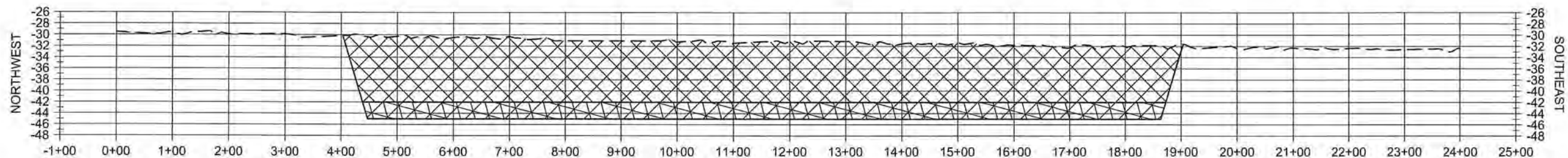


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM
	PIPELINE

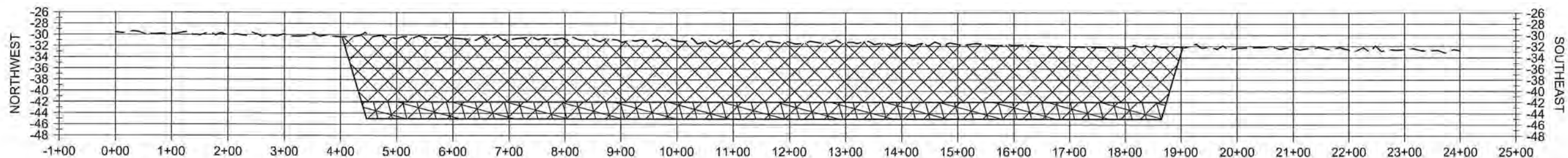
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.											
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.											
DATE: OCT. 2019													
SHEET 27 OF 53													
										</			



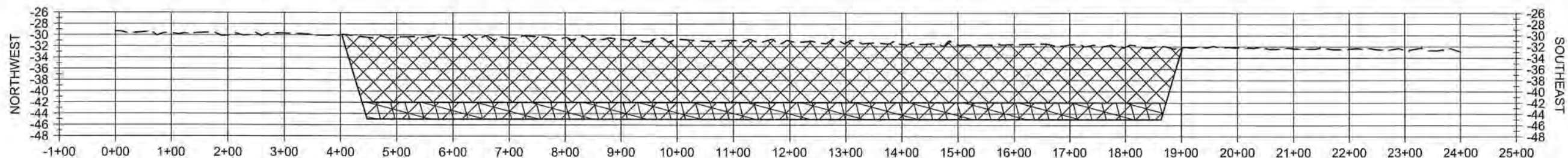
B56



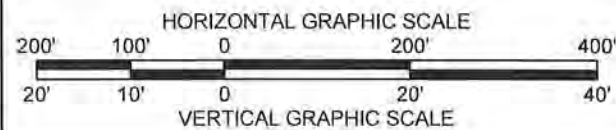
B57



B58



B59

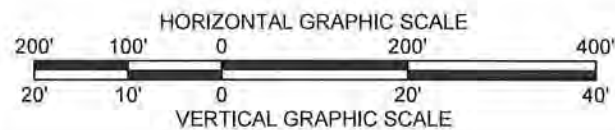
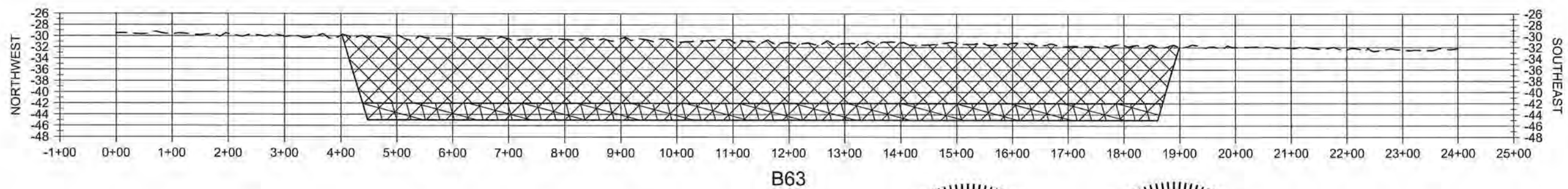
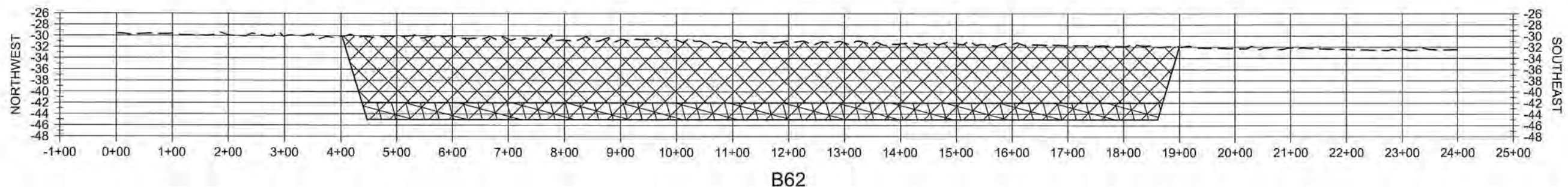
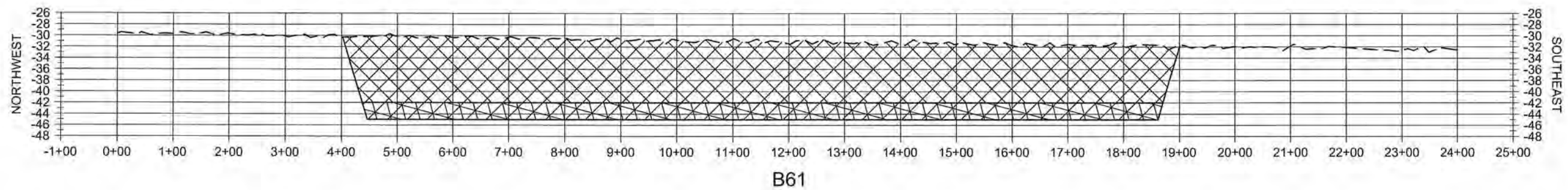
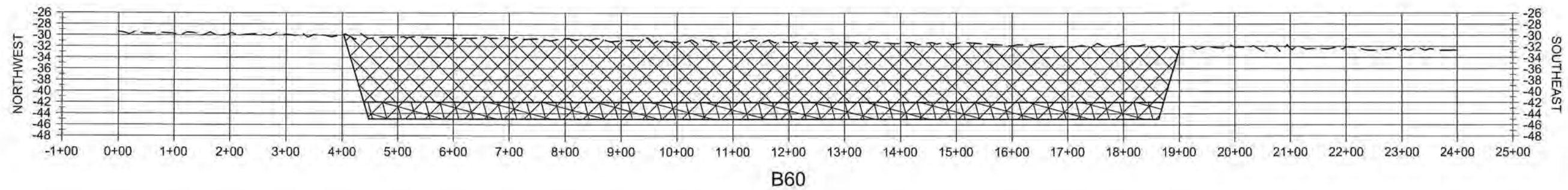


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THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802				REV.	DATE	DESCRIPTION	BY
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.									
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.									
DATE: OCT. 2019											
SHEET 28 OF 53											

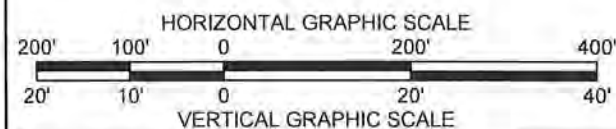
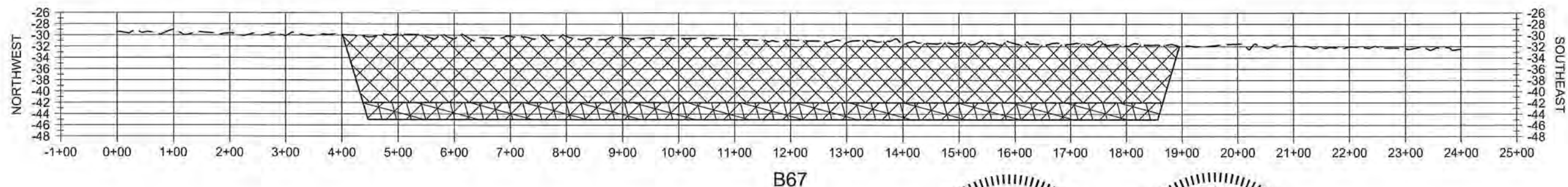
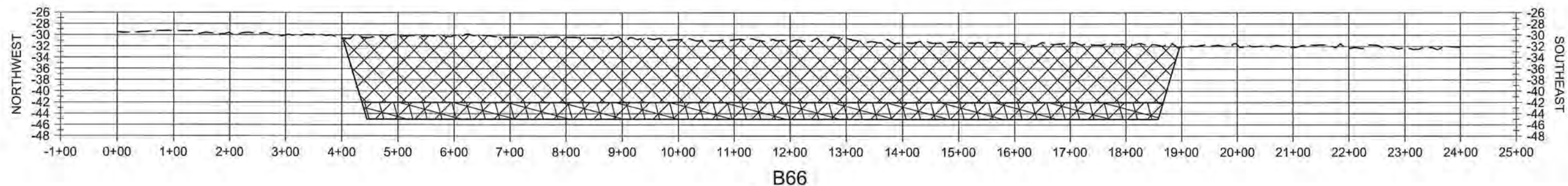
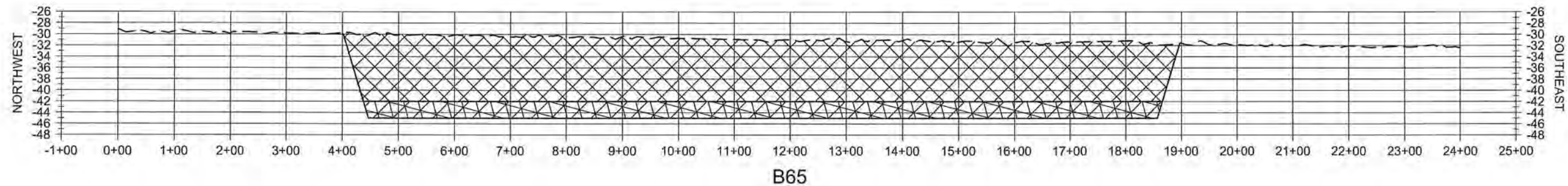
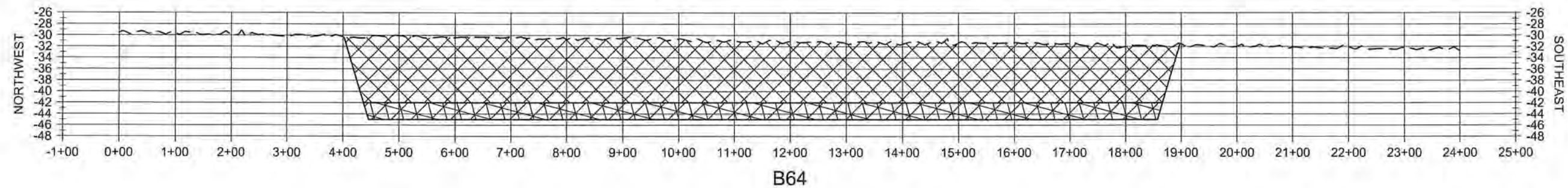


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DATUM OF 1988 (NAVD88).



LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

COSTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	BORROW AREA SECTIONS	DESIGNED BY: A. TAYLOR, P.E. APPROVED BY: S. HAYNES, P.E.	REV.	DATE	DESCRIPTION	BY
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171	DRAWN BY: K. CANTU	DATE: OCT. 2019			
			SHEET 29 OF 53			

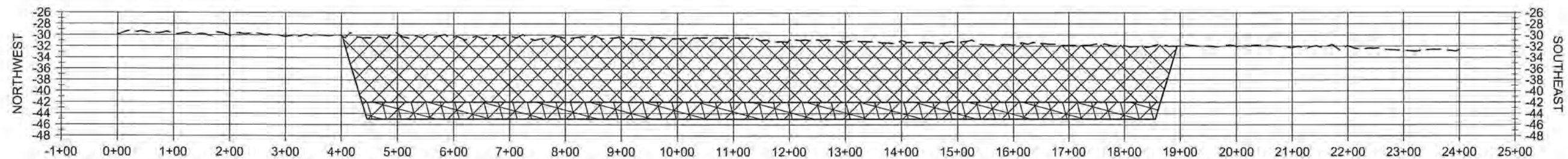


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

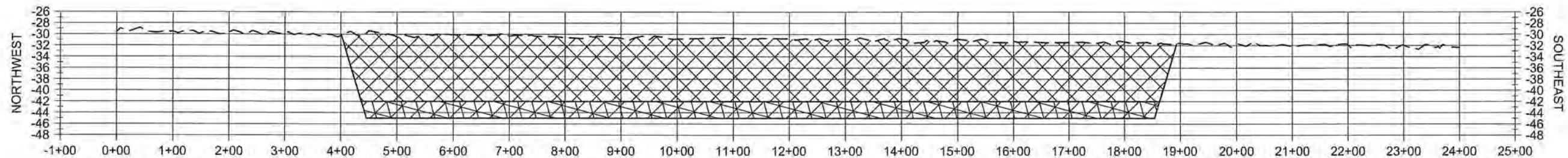


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

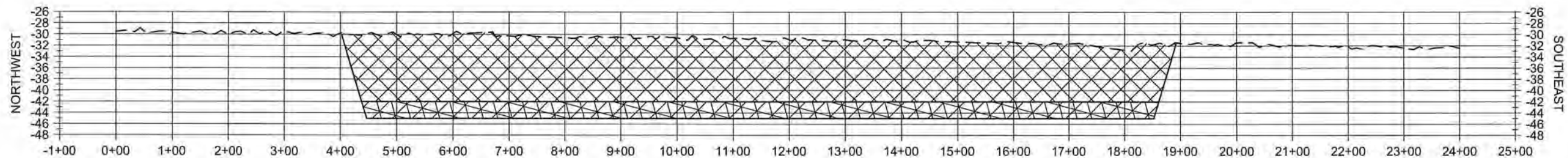
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-0171			DESIGNED BY: A. TAYLOR, P.E.									
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.	REV.	DATE	BY							
DATE: OCT. 2019												
SHEET 30 OF 53												



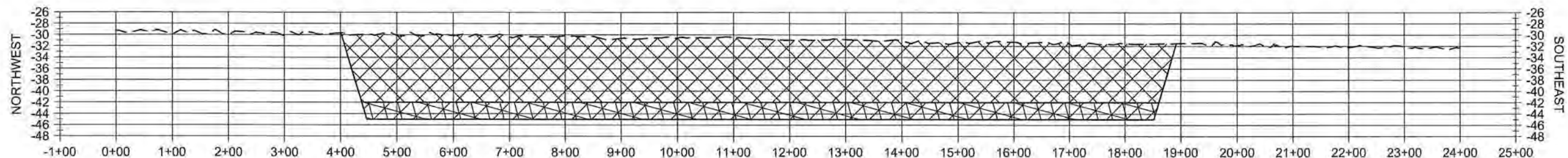
B68



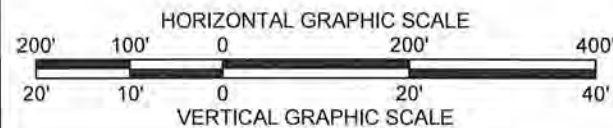
B69



B70



B71

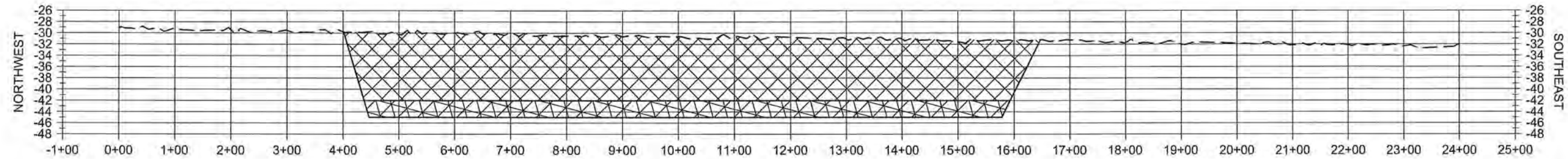


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

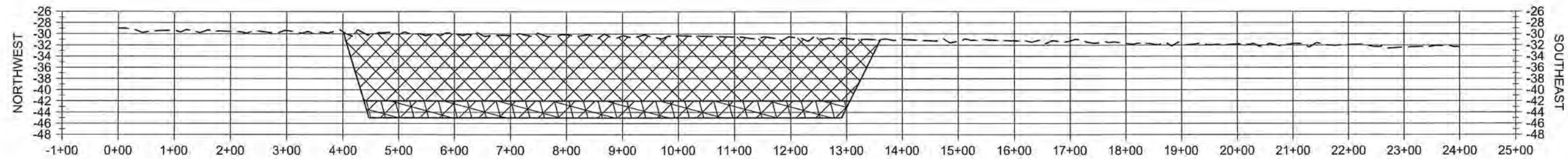


LEGEND	
	BORROW AREA
	OVER DREDGE
	EXISTING WATER BOTTOM

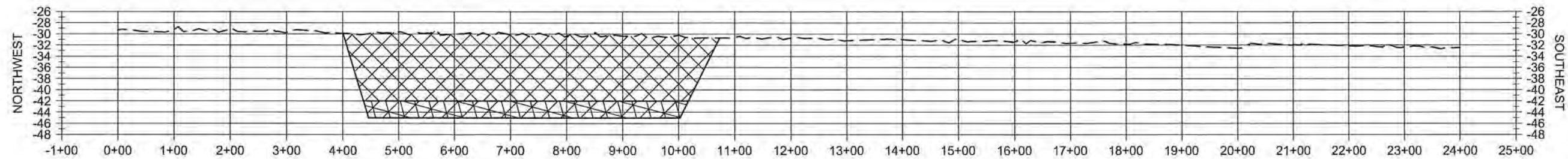
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-071			DESIGNED BY: A. TAYLOR, P. E.									
DRAWN BY: K. CANTU			APPROVED BY: S. HAYNES, P. E.									
DATE: OCT 2019												
SHEET 31 OF 53												



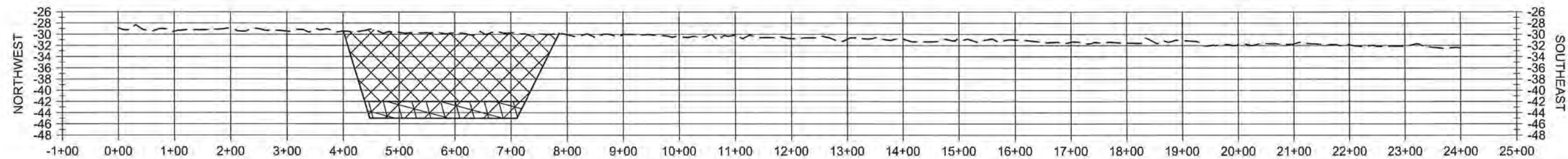
B72



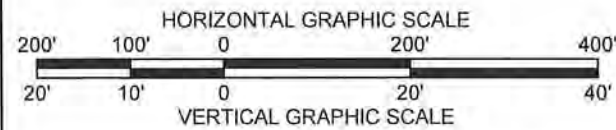
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B74



B75

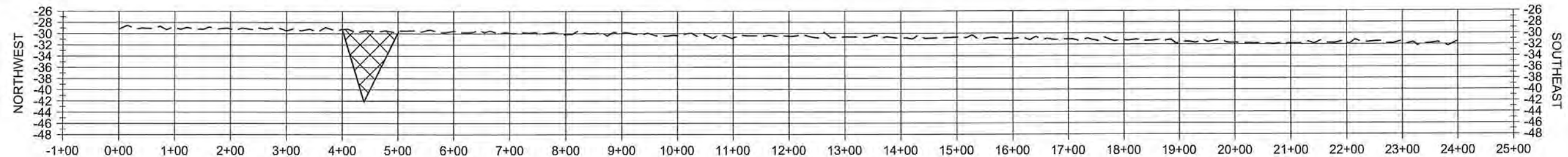


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

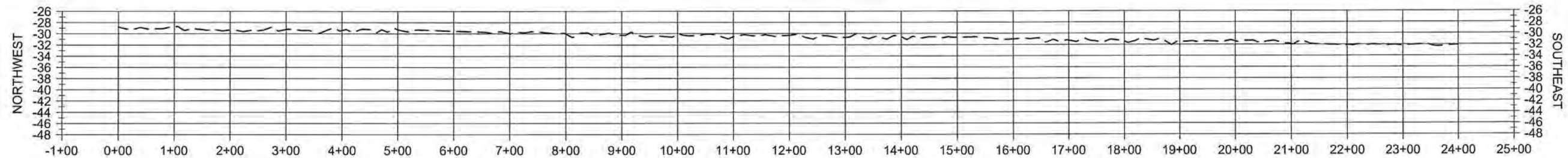


LEGEND		
	BORROW AREA	
	OVER DREDGE	
	EXISTING WATER BOTTOM	

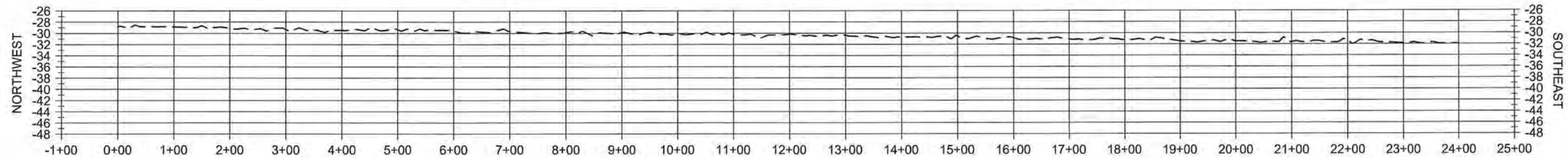
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		BORROW AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</	



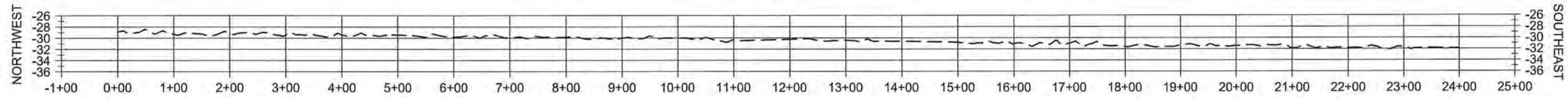
B76



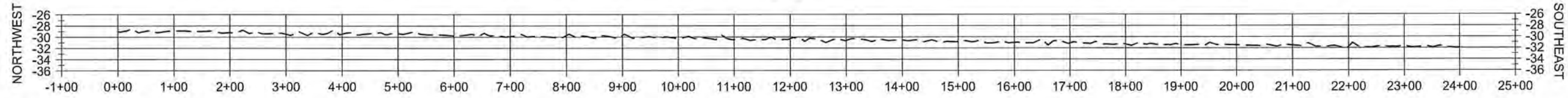
B77



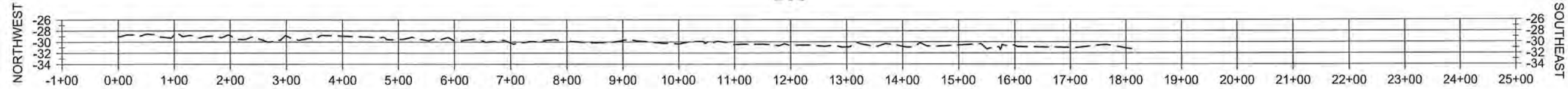
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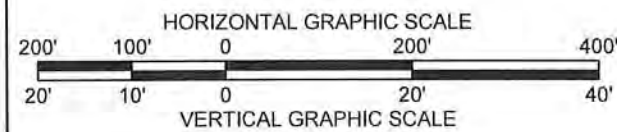
B79



B80



B81

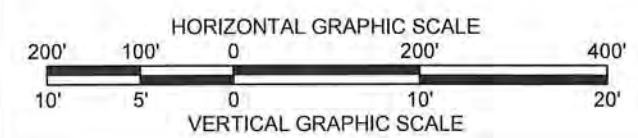
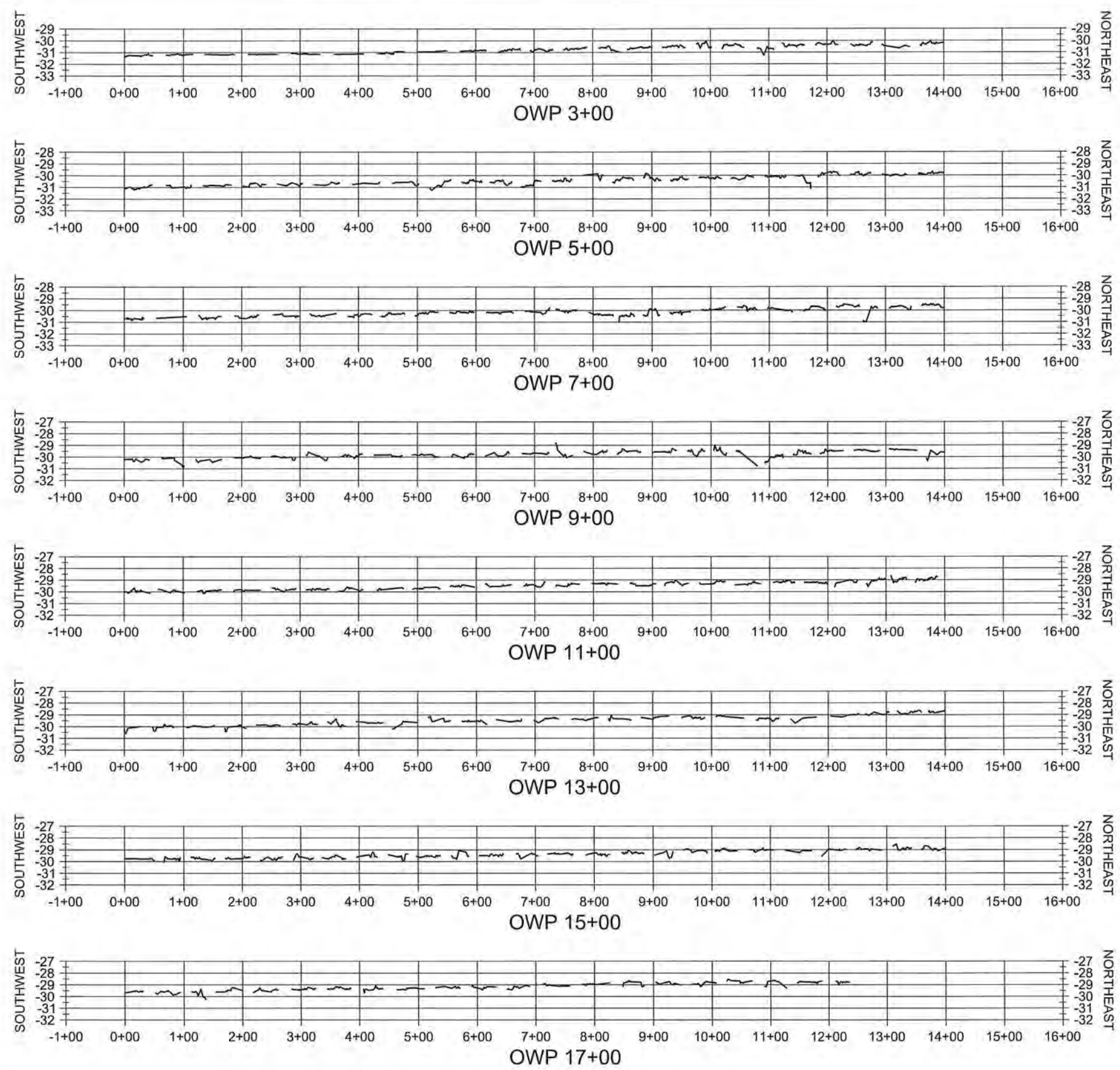


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND		
	BORROW AREA	
	OVER DREDGE	
	EXISTING WATER BOTTOM	

		BY
		DESCRIPTION
		DATE
		REV.
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		
BORROW AREA SECTIONS	DESIGNED BY: A. TAYLOR, P.E.	APPROVED BY: S. HAYNES, P.E.
	STATE PROJECT NUMBER: BA-071	DRAWN BY: K. CANTU
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		
DATE: OCT. 2019		
SHEET 33 OF 53		



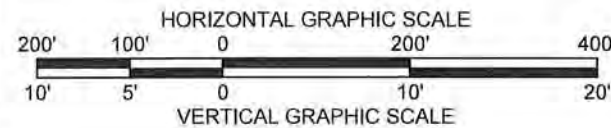
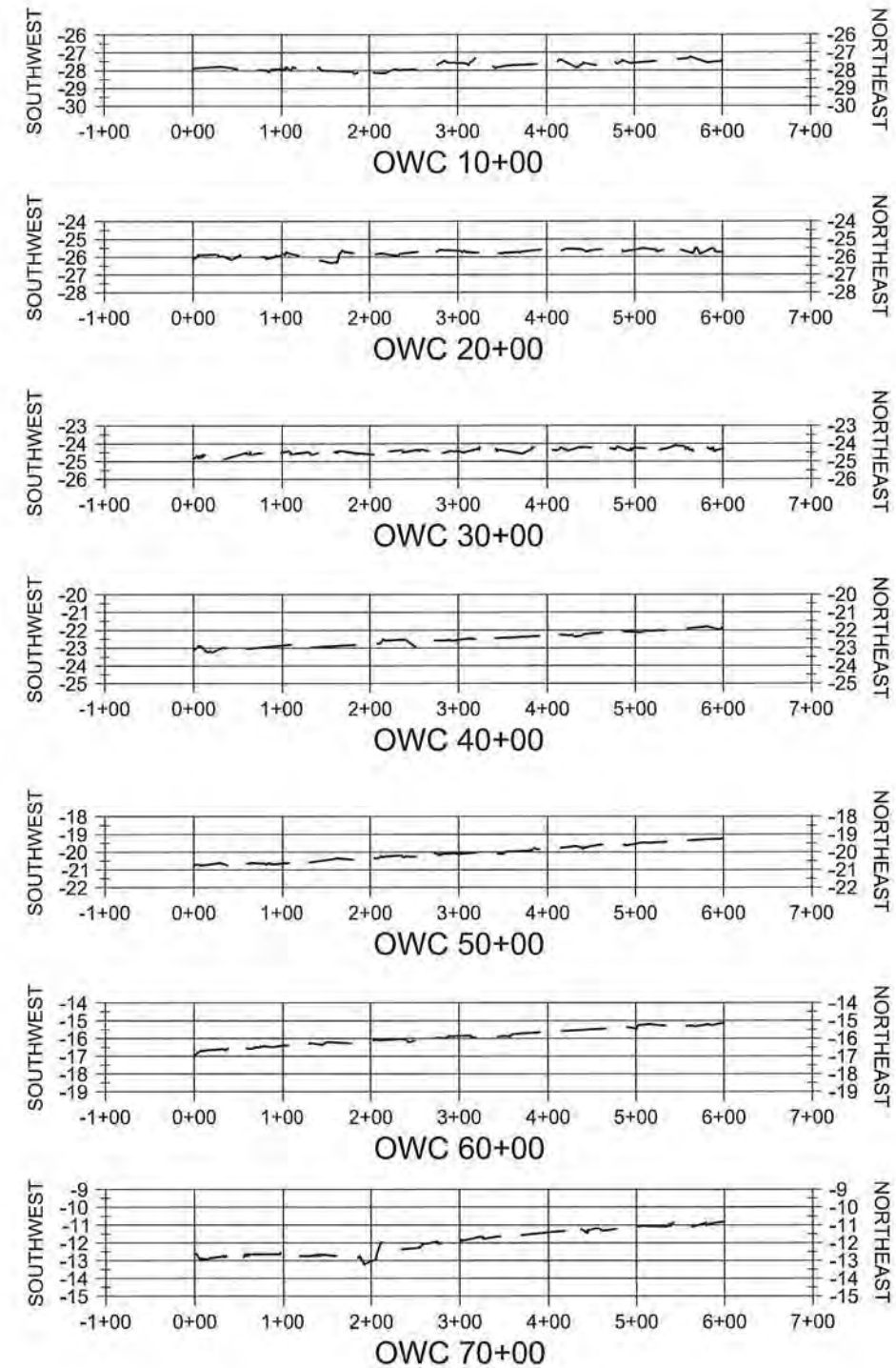
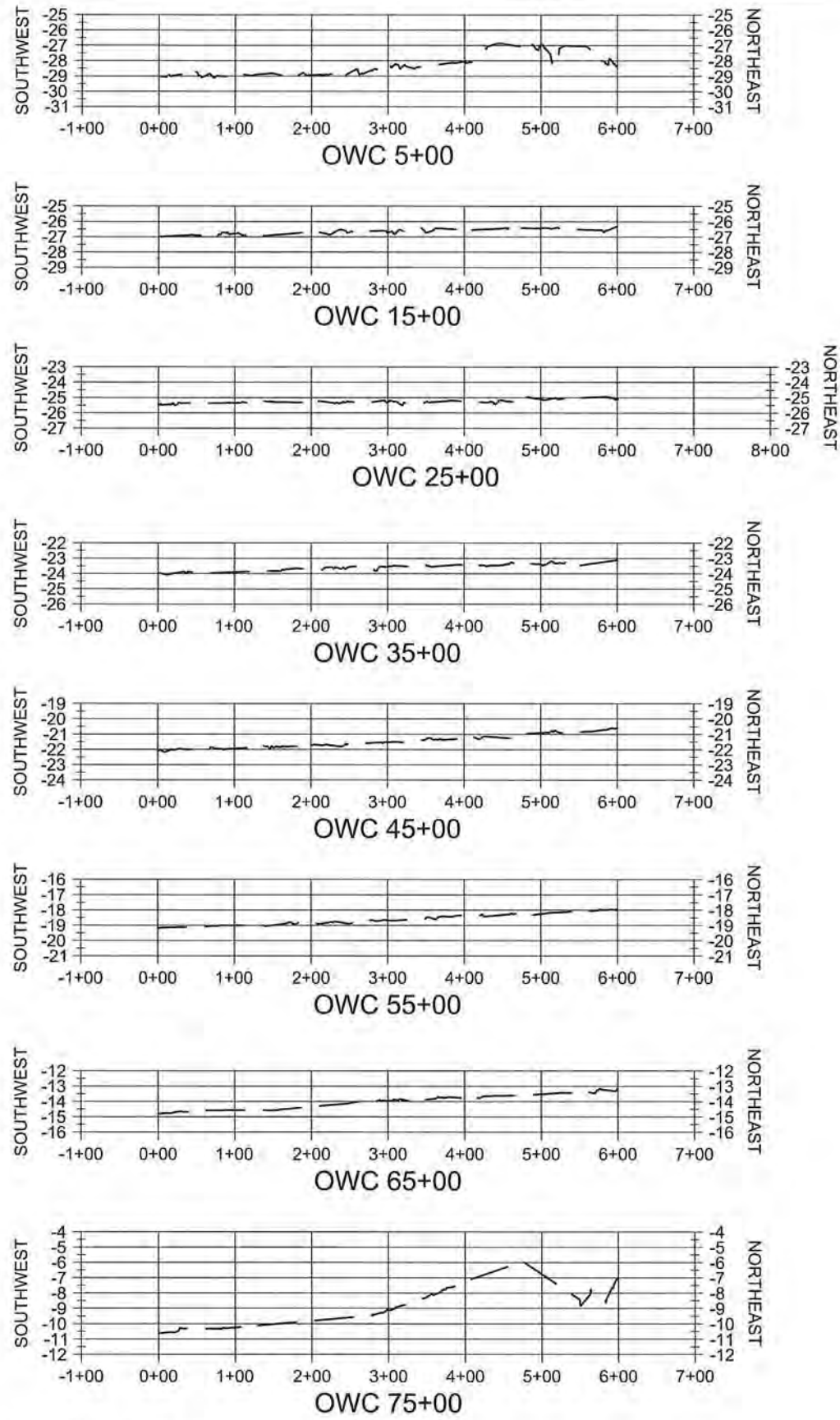
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/30/19

LEGEND

— EXISTING WATER BOTTOM

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		DREDGE PIPELINE CORRIDOR SECTIONS		<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div>							
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.									
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.						REV.	DATE	DESCRIPTION	BY
DATE: OCT. 2019											
SHEET 34 OF 53											

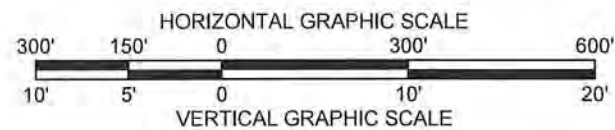
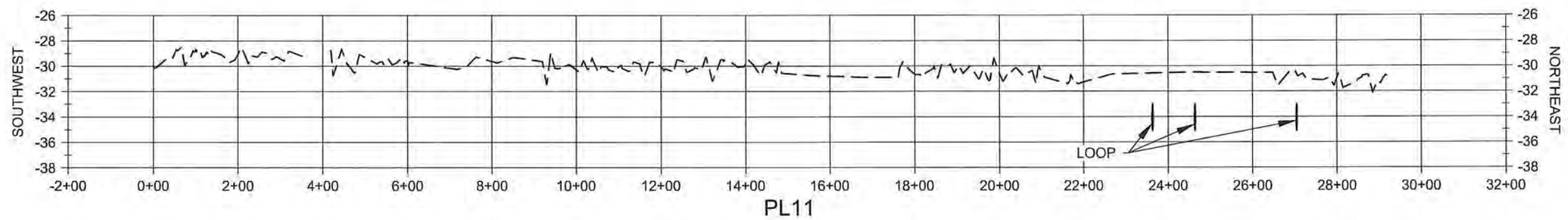
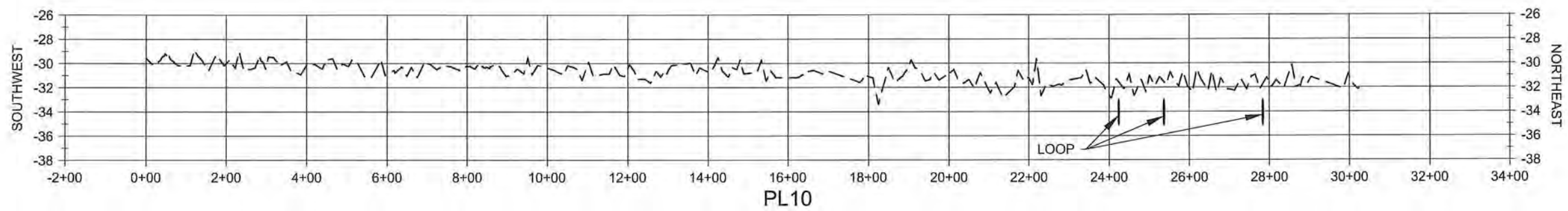
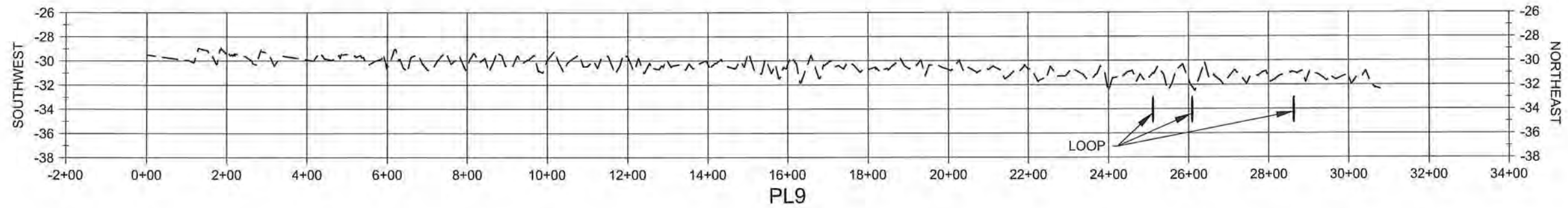


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
---	EXISTING WATER BOTTOM

COASTAL PROTECTION AND RESTORATION AUTHORITY		DATE	REV.	DESCRIPTION	BY
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT					
DREDGE PIPELINE CORRIDOR SECTIONS					
DESIGNED BY: A. TAYLOR, P.E.					
APPROVED BY: S. HAYNES, P.E.					
STATE PROJECT NUMBER: BA-0171					
DRAWN BY: K. CANTU					
DATE: OCT 2019					
SHEET 35 OF 53					



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



LEGEND	
---	EXISTING GROUND
	PIPELINE

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

DREDGE PIPELINE
CORRIDOR SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

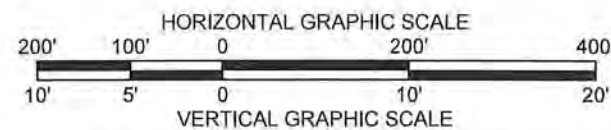
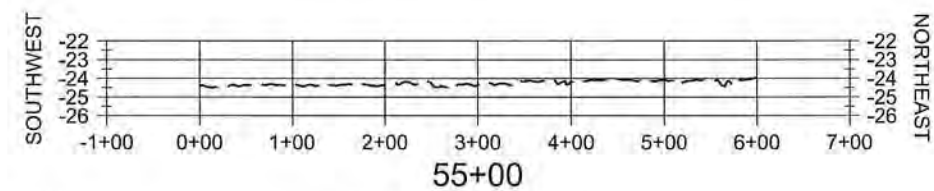
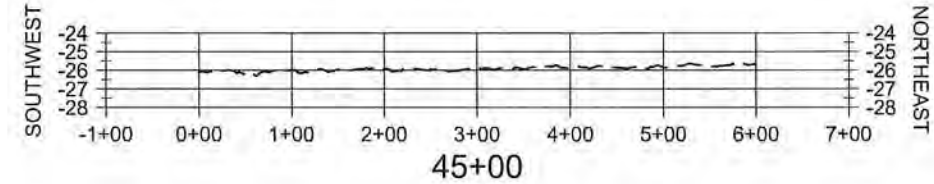
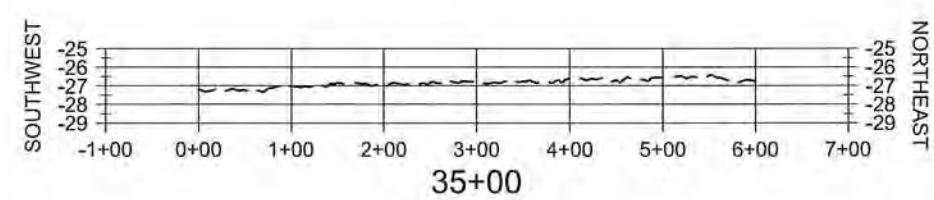
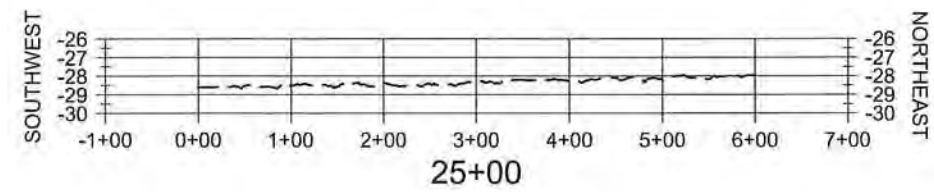
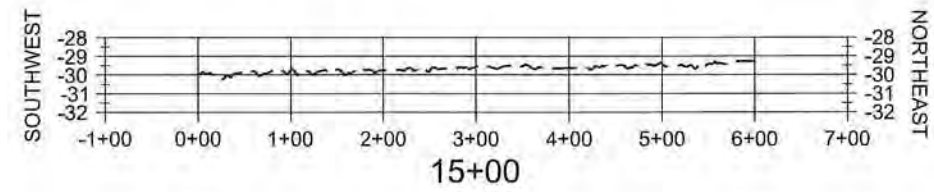
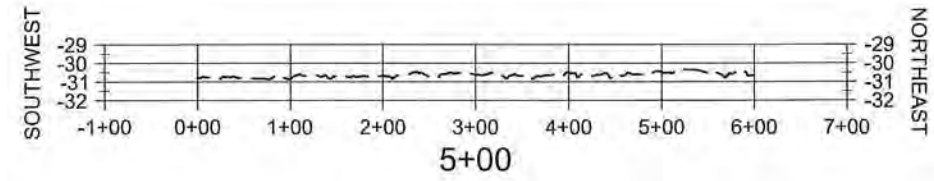
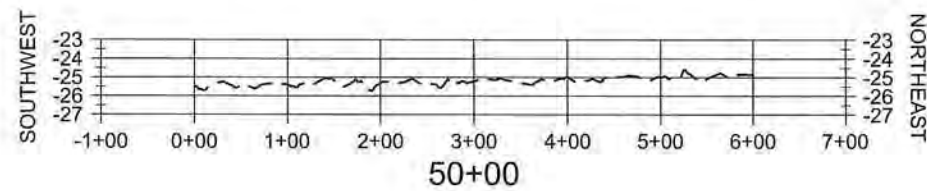
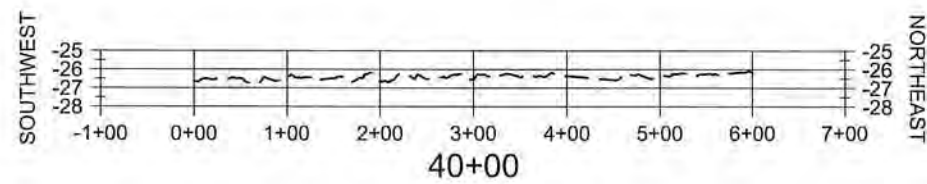
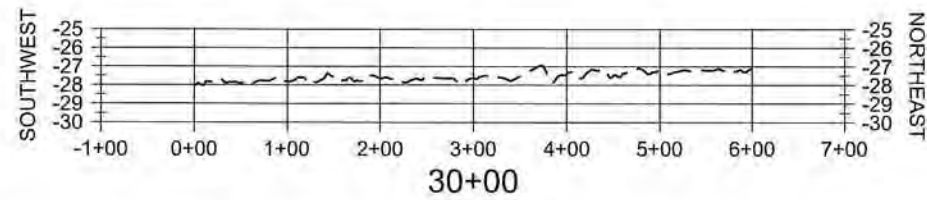
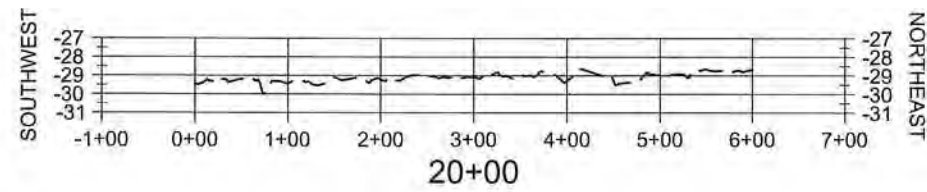
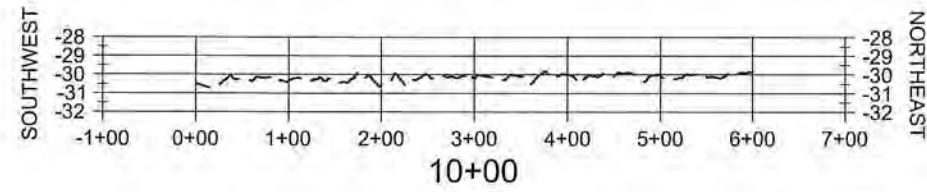
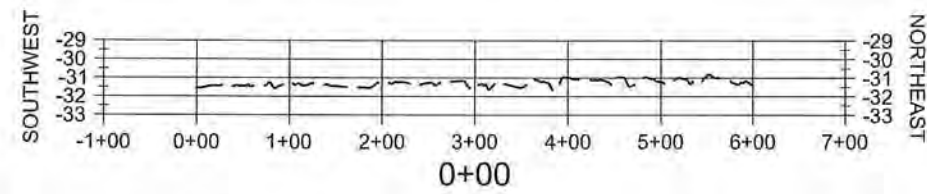
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 38 OF 53

REV.	DATE	DESCRIPTION	BY

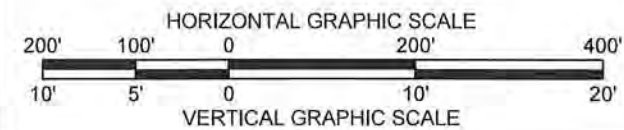
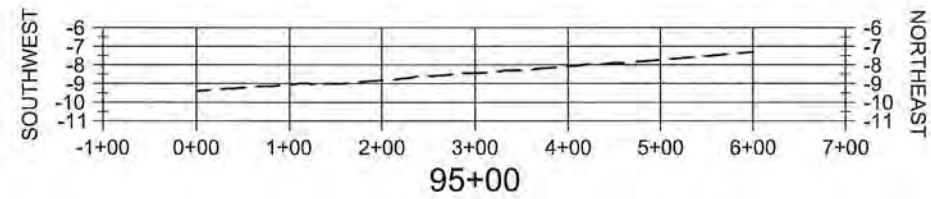
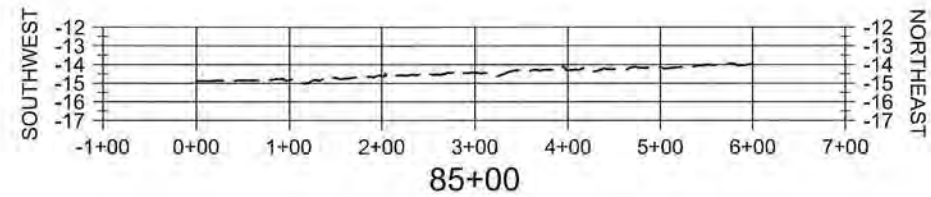
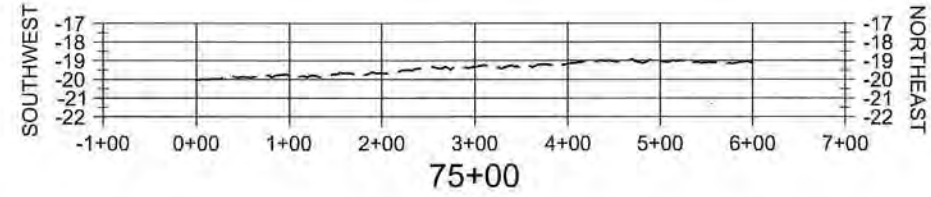
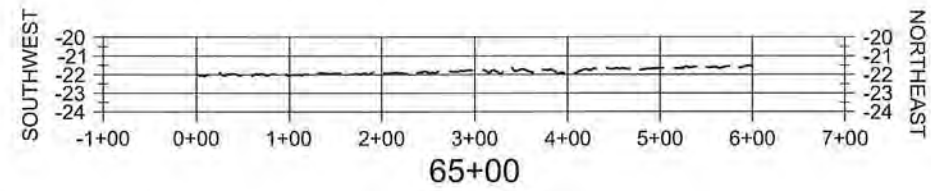
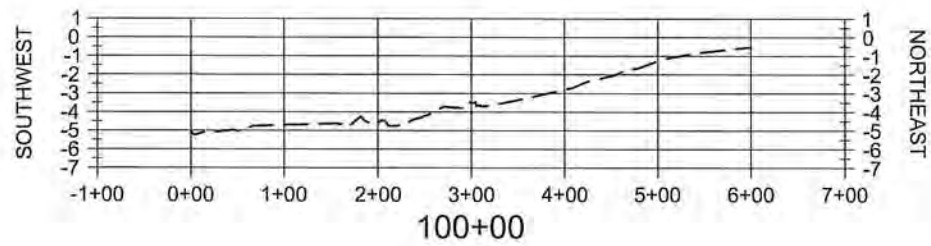
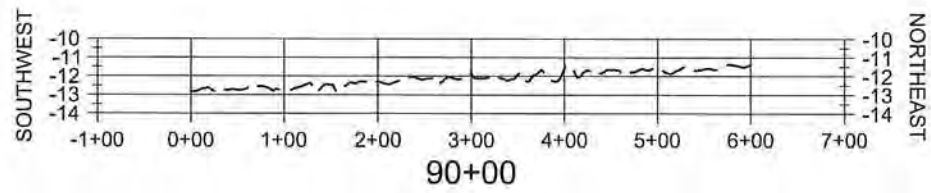
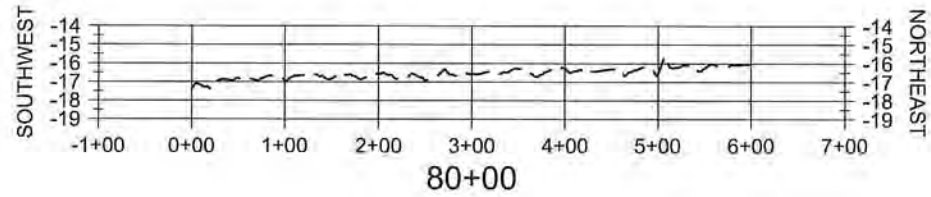
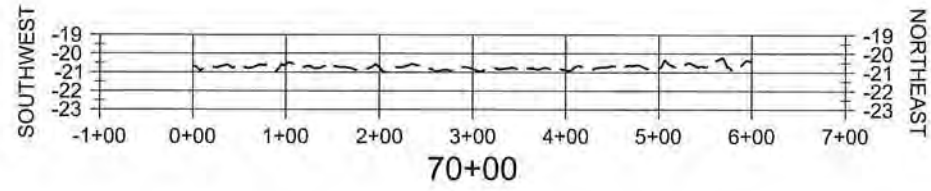
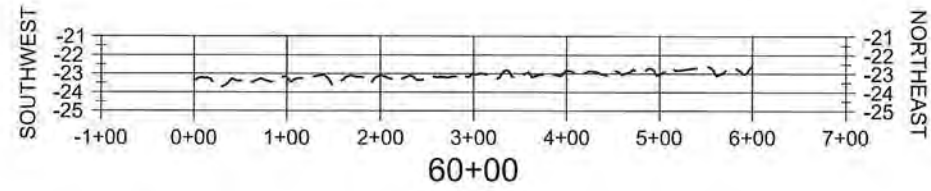


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
---	EXISTING WATER BOTTOM

DATE: OCT. 2019		CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	DREDGE PIPELINE CORRIDOR SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802						
STATE PROJECT NUMBER: BA-0171				DESIGNED BY: A. TAYLOR, P.E.						
DRAWN BY: K. CANTU				APPROVED BY: S. HAYNES, P.E.						
					REV.	DATE	DESCRIPTION	BY		
SHEET 40 OF 53										

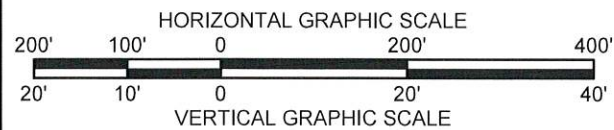
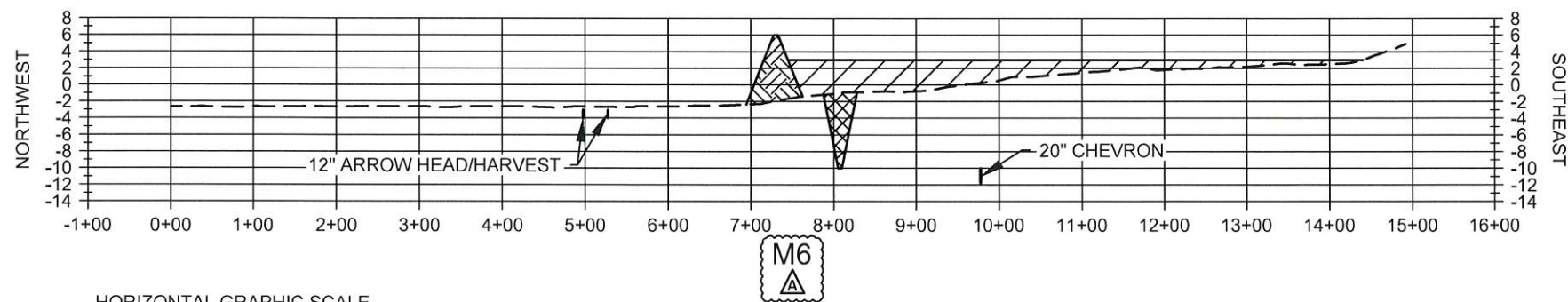
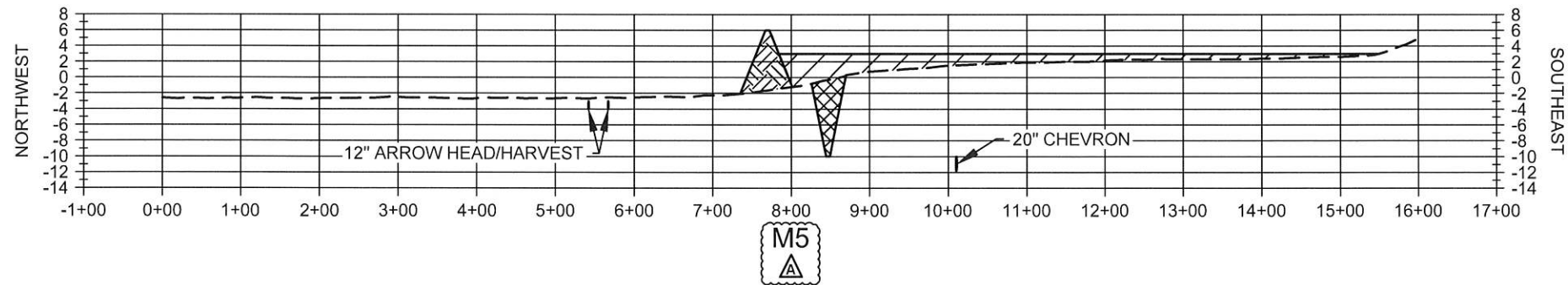
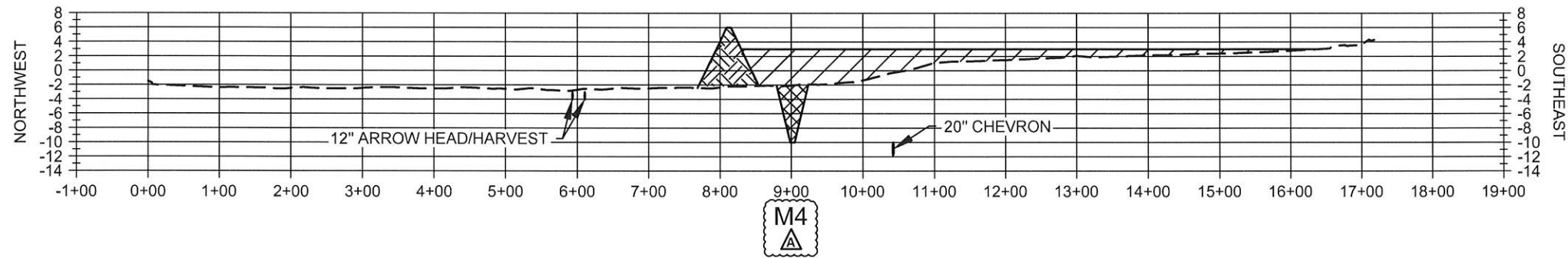
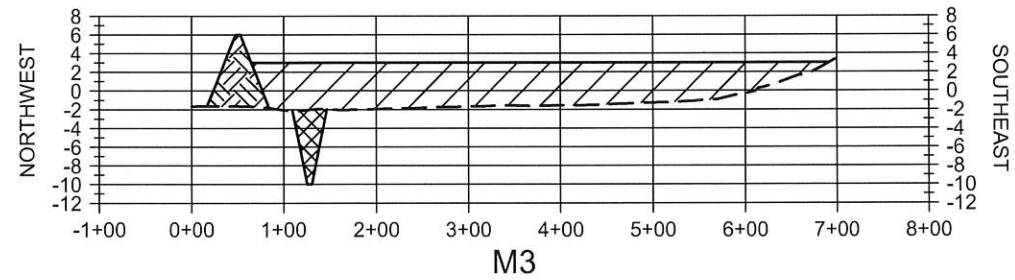
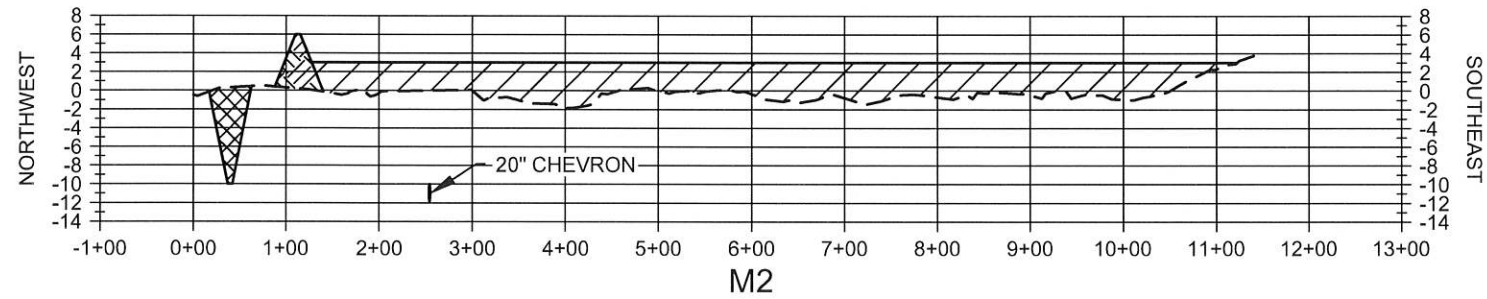
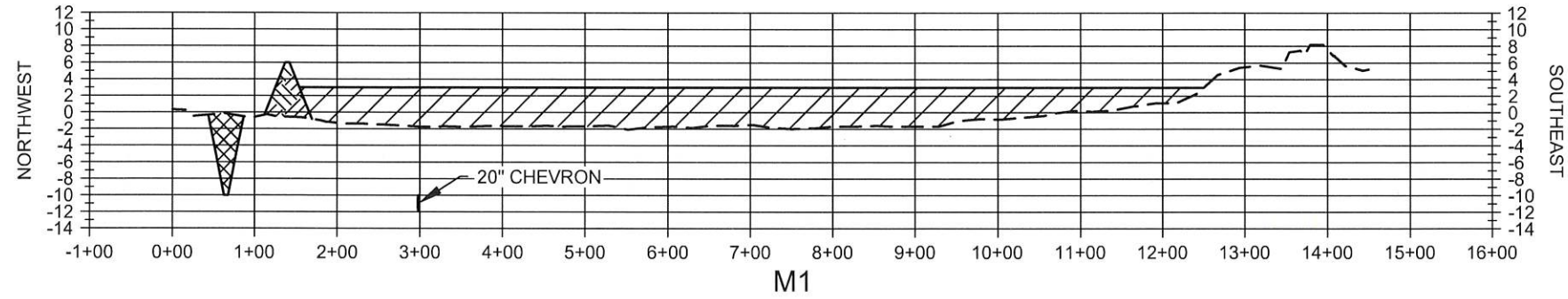


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DATUM OF 1988 (NAVD88).



LEGEND	
---	EXISTING WATER BOTTOM

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		DREDGE PIPELINE CORRIDOR SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.							
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.				REV.	DATE	DESCRIPTION	BY
DATE: OCT. 2019									
SHEET 41 OF 53									

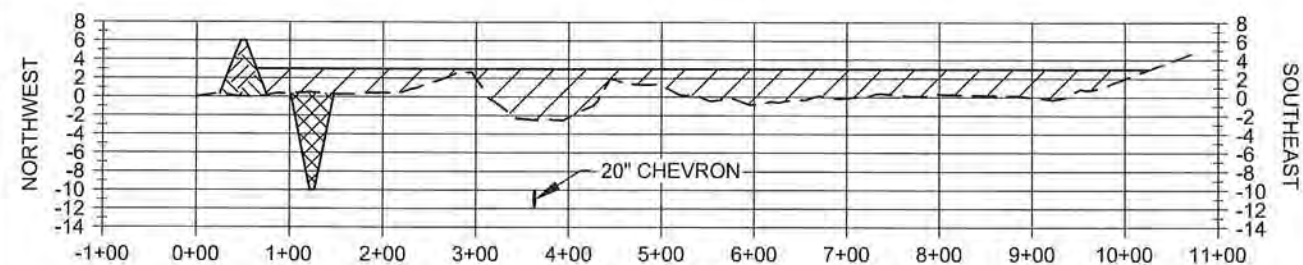


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

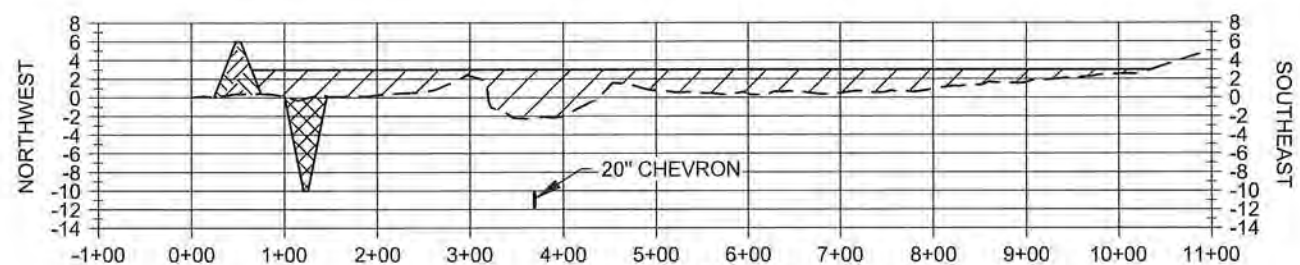


LEGEND	
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	MARSH CREATION FILL
	EXISTING GROUND
	PIPELINE

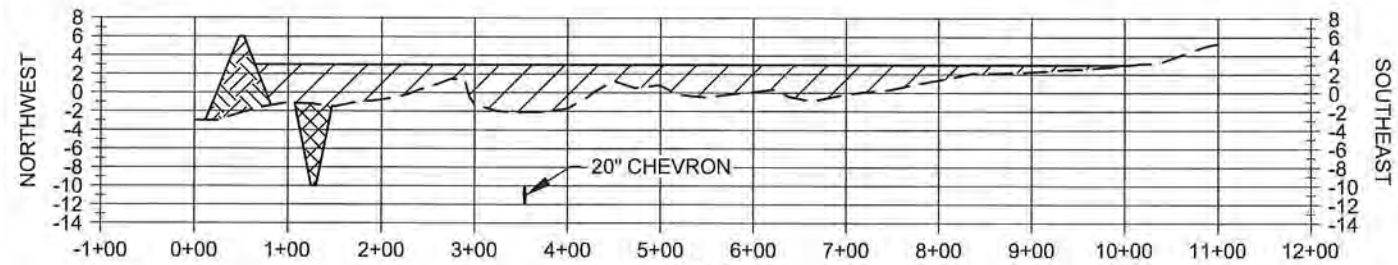
DATE: OCT. 2019		<div>CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT</div>	<div>MARSH CREATION AREA SECTIONS</div>	<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div>				<div>REVISED SECTIONS M4 - M6</div>	<div>5/15/2020</div>	<div>A</div>	<div>KC</div>				
SHEET 42 OF 53															
		STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.											
		DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.				REV.		DATE		DESCRIPTION		BY	



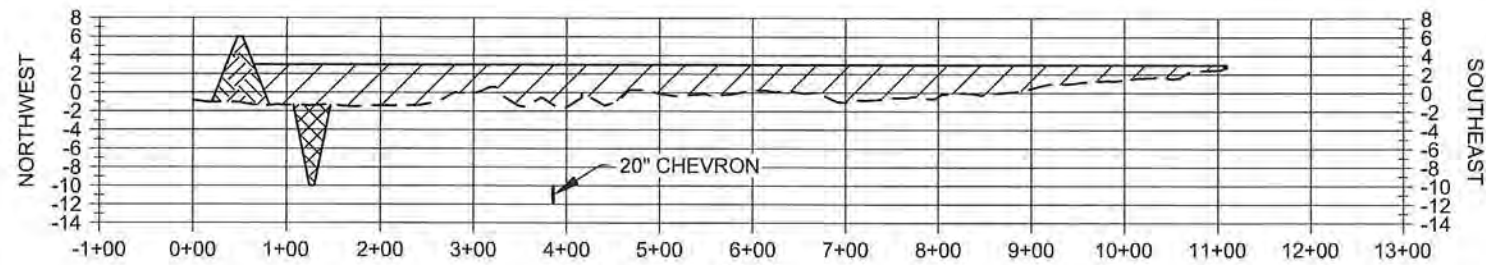
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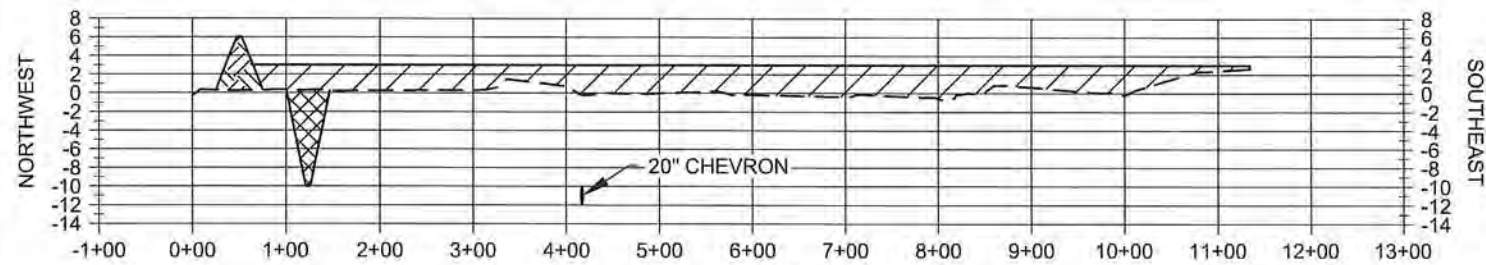
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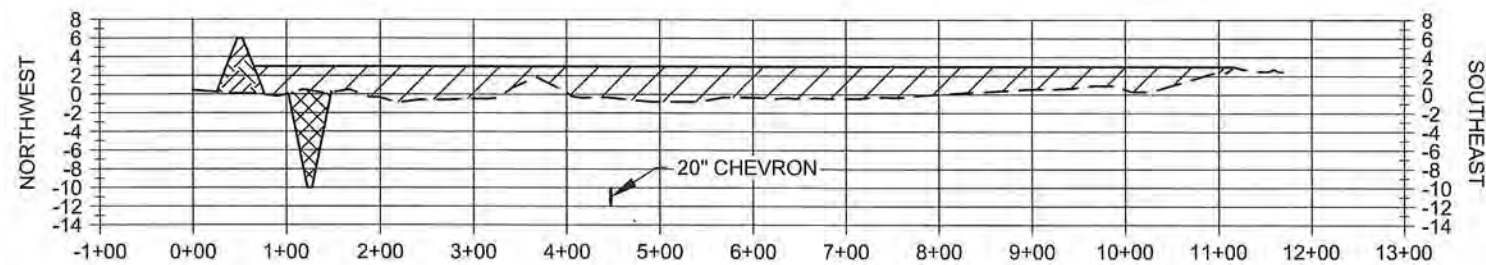
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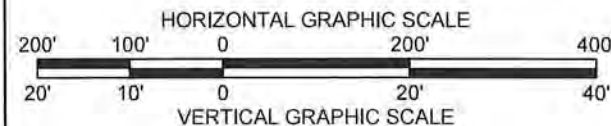
M19



M20



M21



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



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

COASTAL PROTECTION AND
RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION
AREA SECTIONS

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

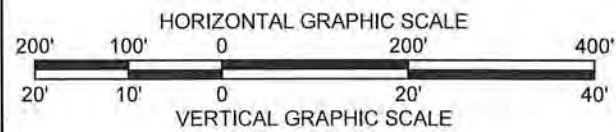
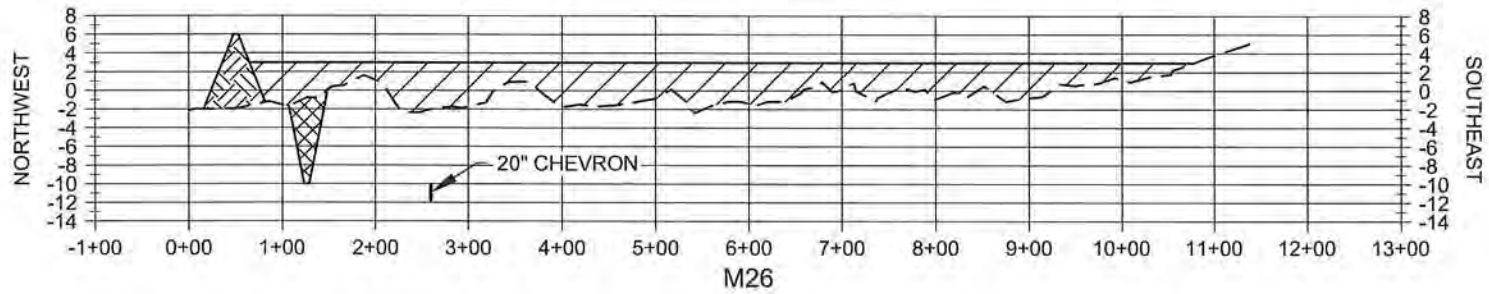
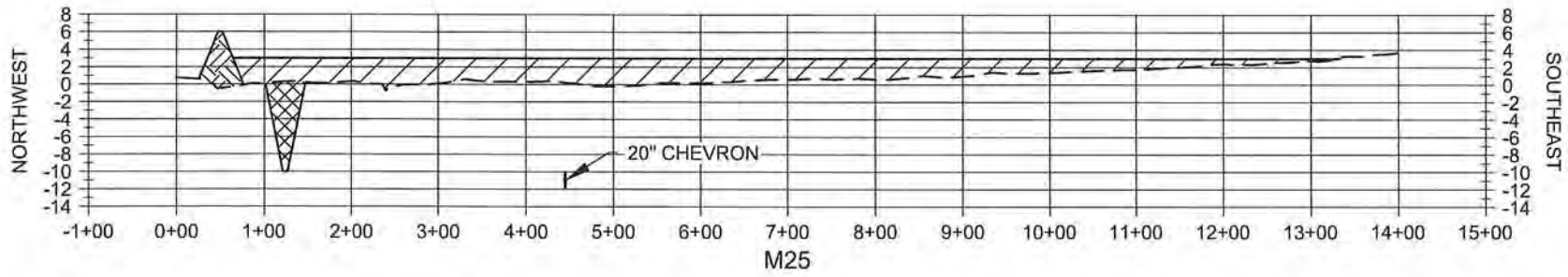
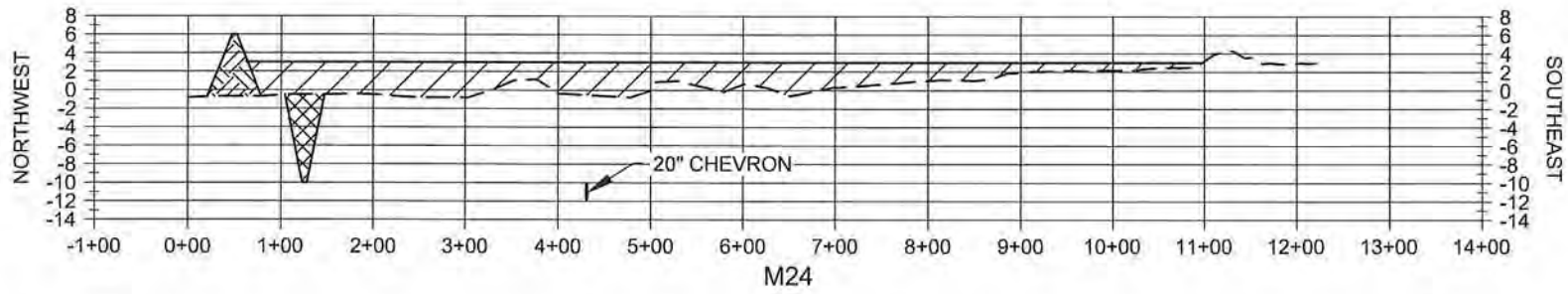
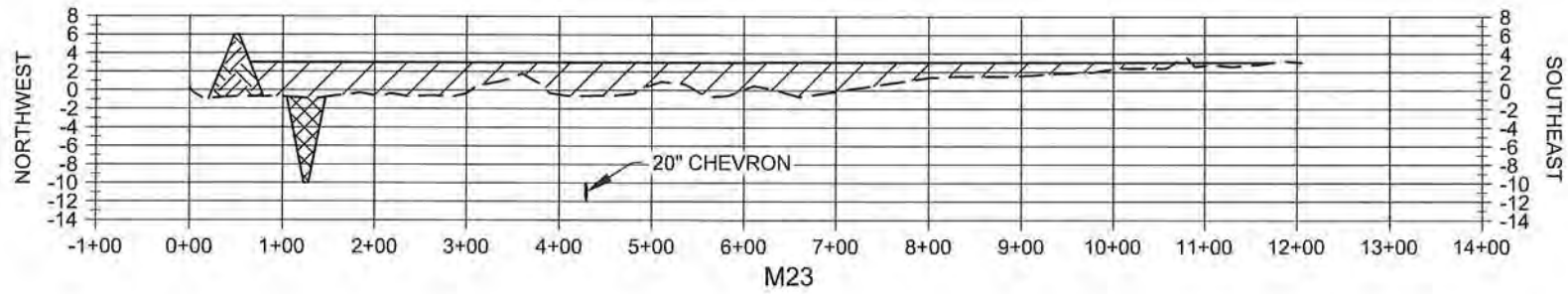
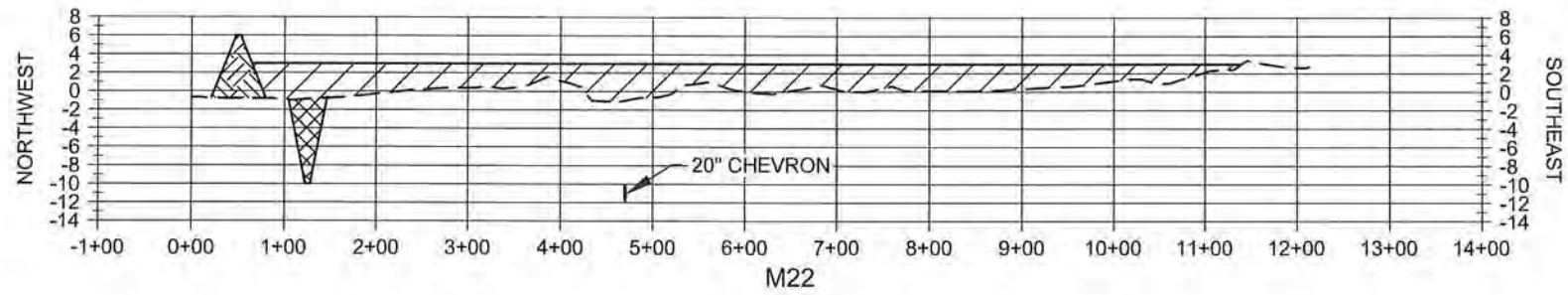
CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 44 OF 53



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



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

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

MARSH CREATION
AREA SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

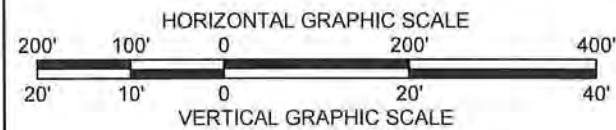
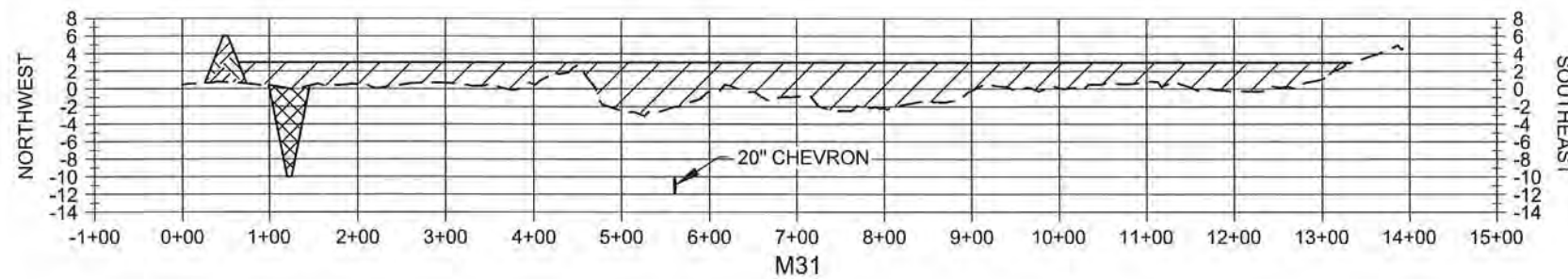
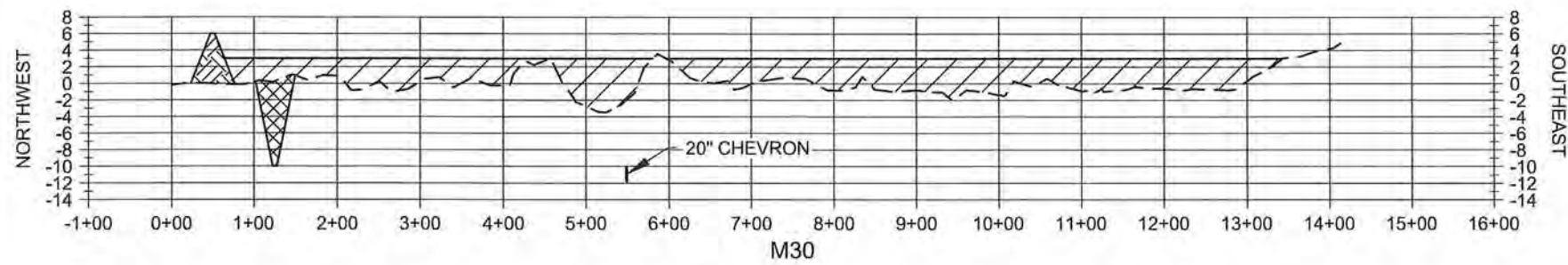
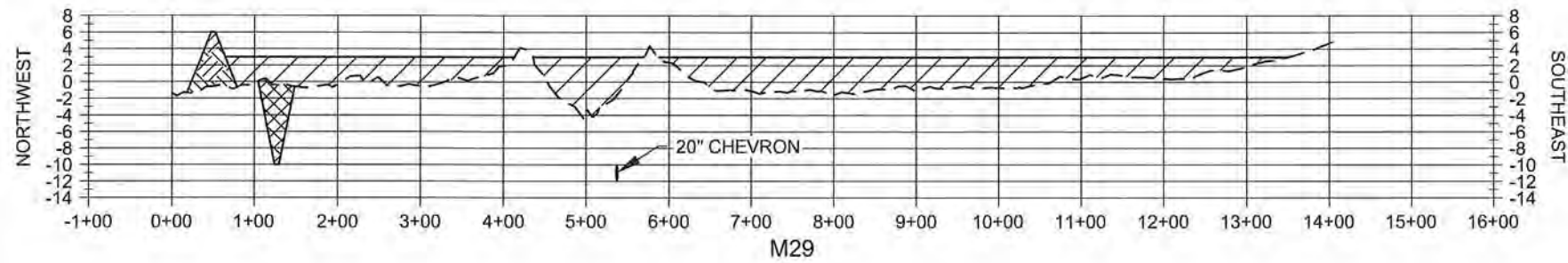
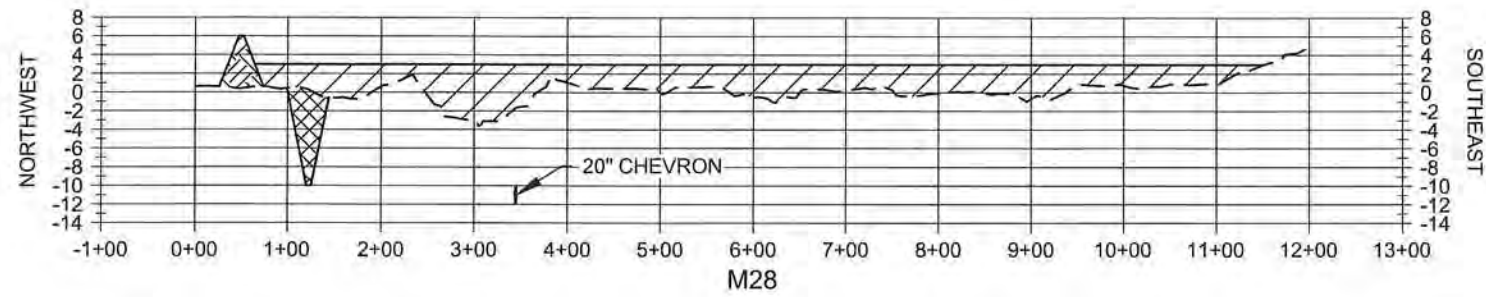
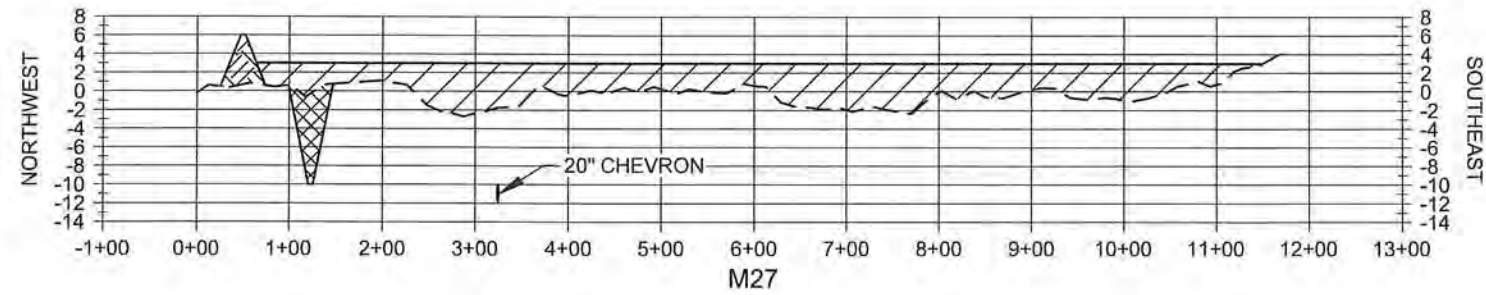
SHEET 45 OF 53

DESCRIPTION

DATE

REV.

BY



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



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

COASTAL PROTECTION AND RESTORATION AUTHORITY

150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

MARSH CREATION
AREA SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

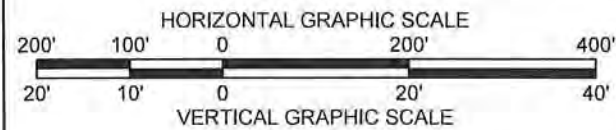
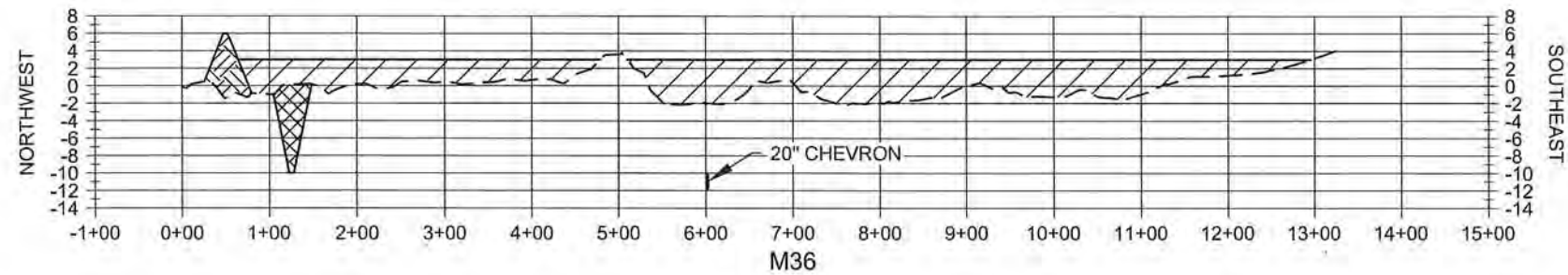
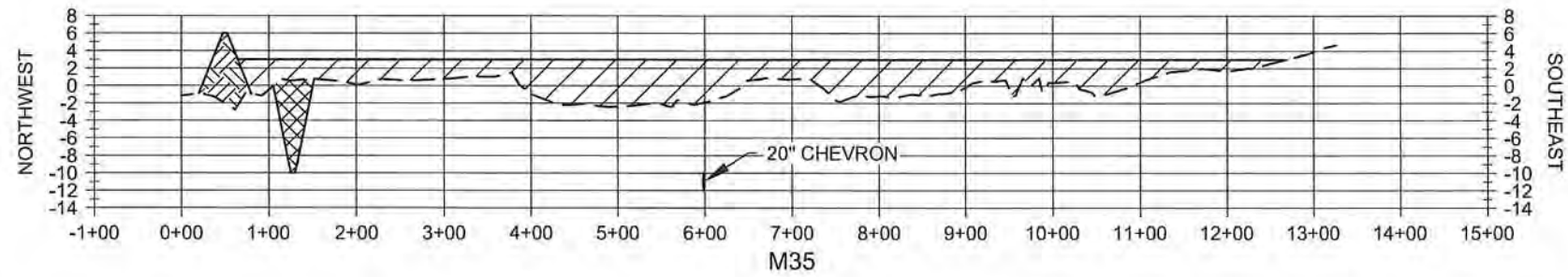
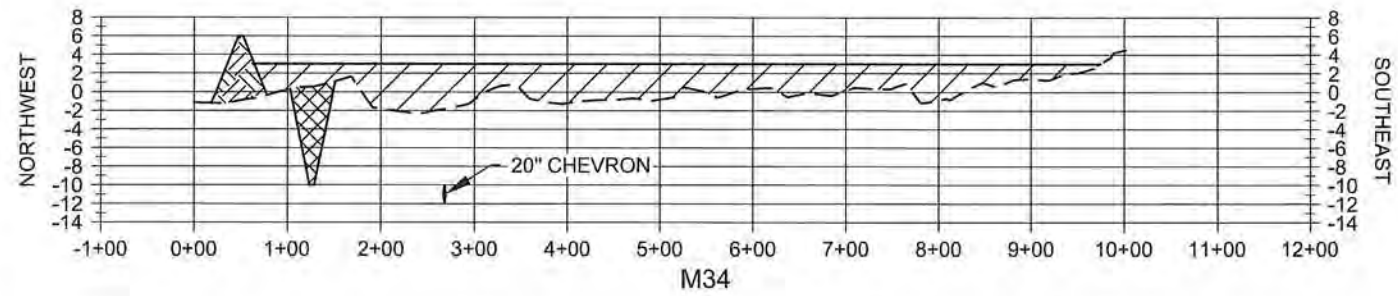
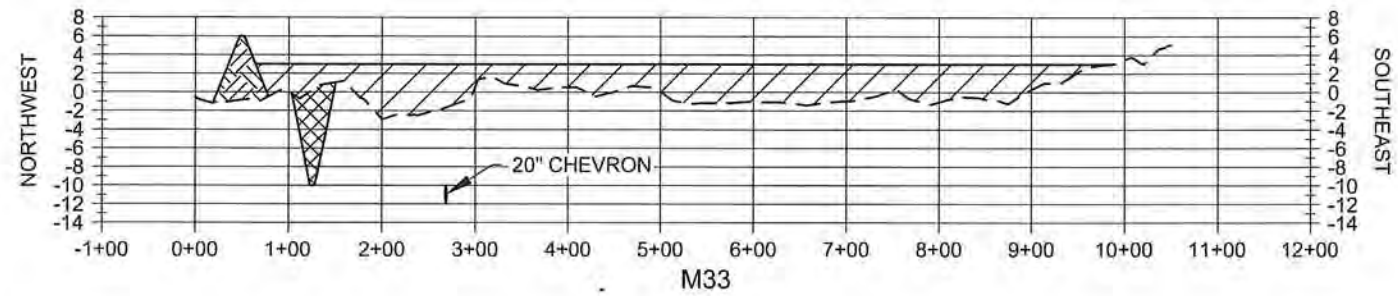
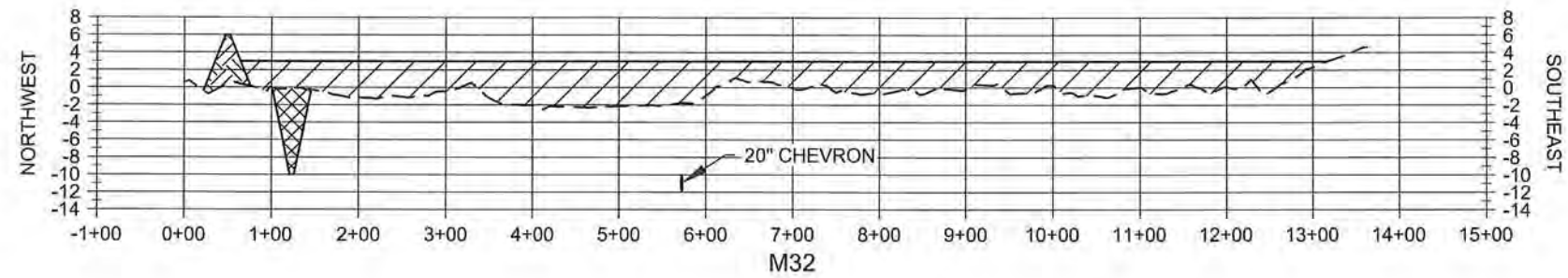
DESIGNED BY: A. TAYLOR, P.E.
APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171
DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 46 OF 53

REV.	DATE	DESCRIPTION	BY



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



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

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

MARSH CREATION
AREA SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E.

STATE PROJECT NUMBER: BA-0171

APPROVED BY: S. HAYNES, P.E.

DRAWN BY: K. CANTU

DATE: OCT. 2019

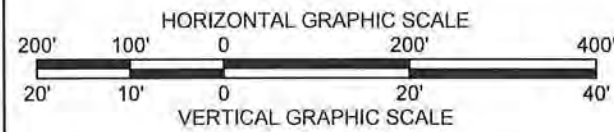
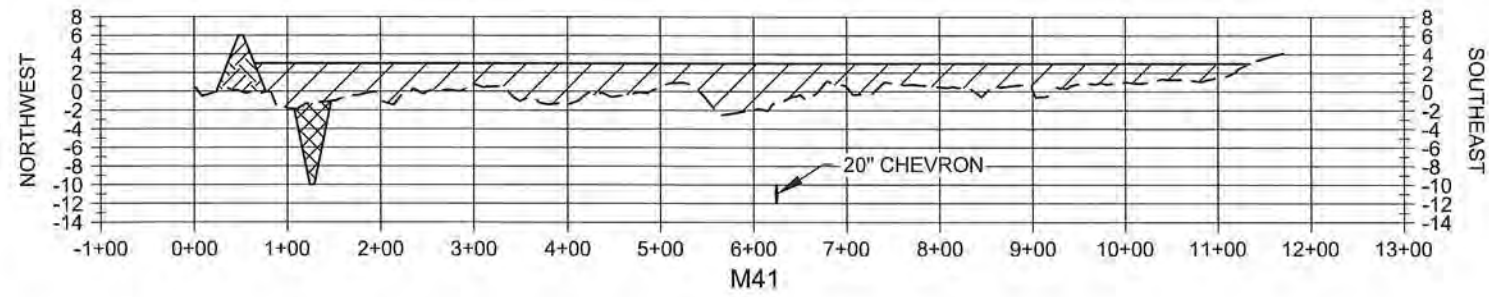
SHEET 47 OF 53

DESCRIPTION

DATE

REV.

BY

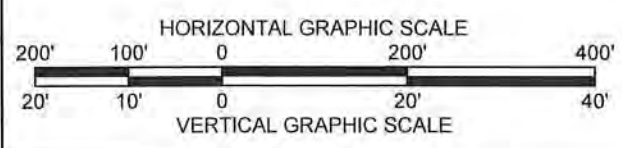
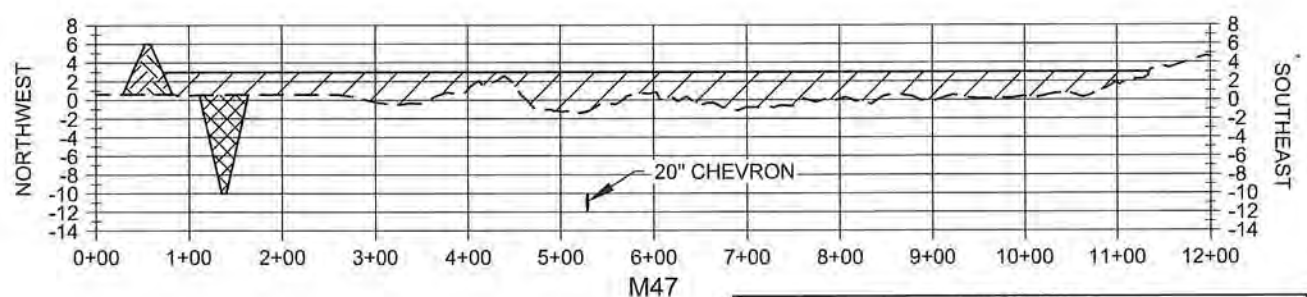
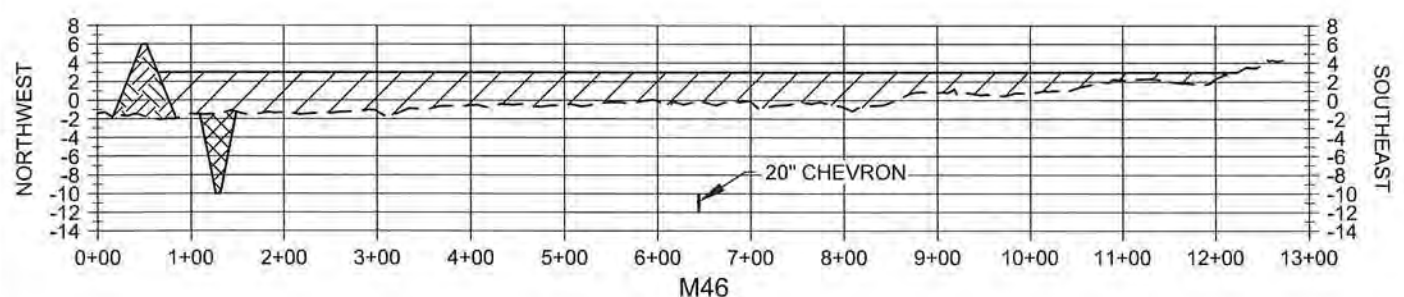
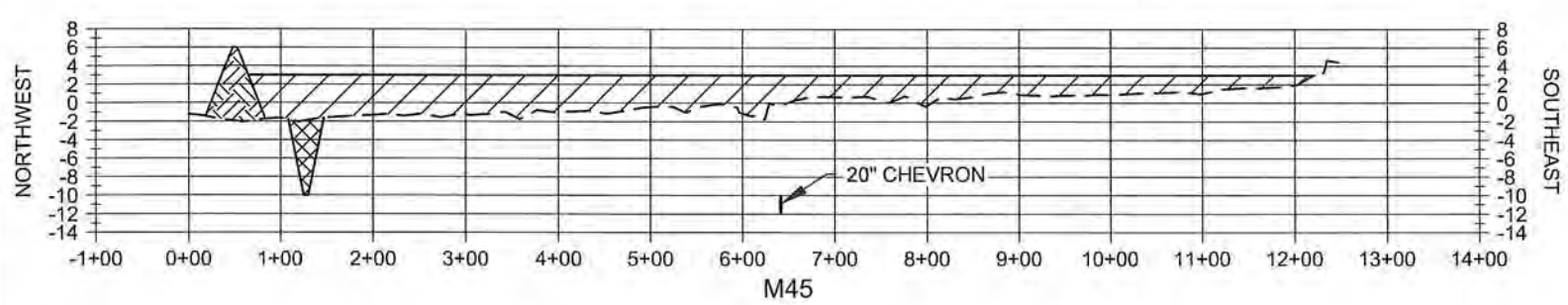
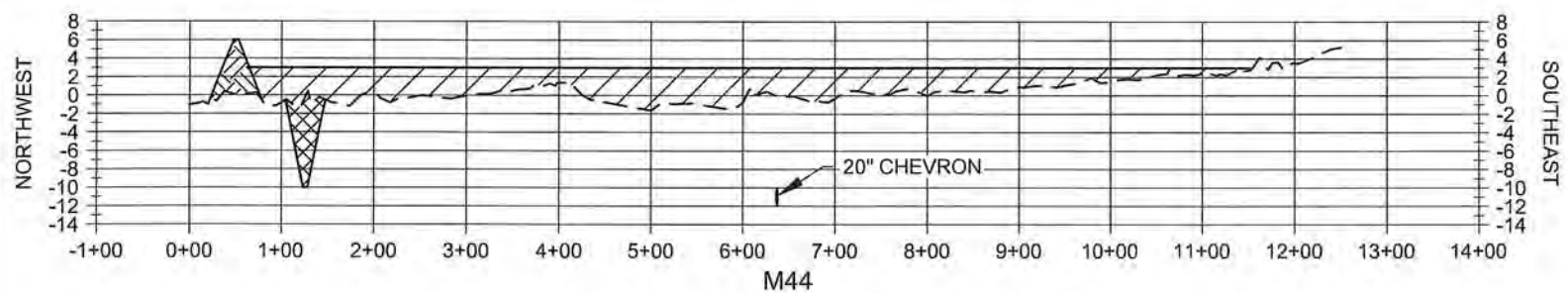
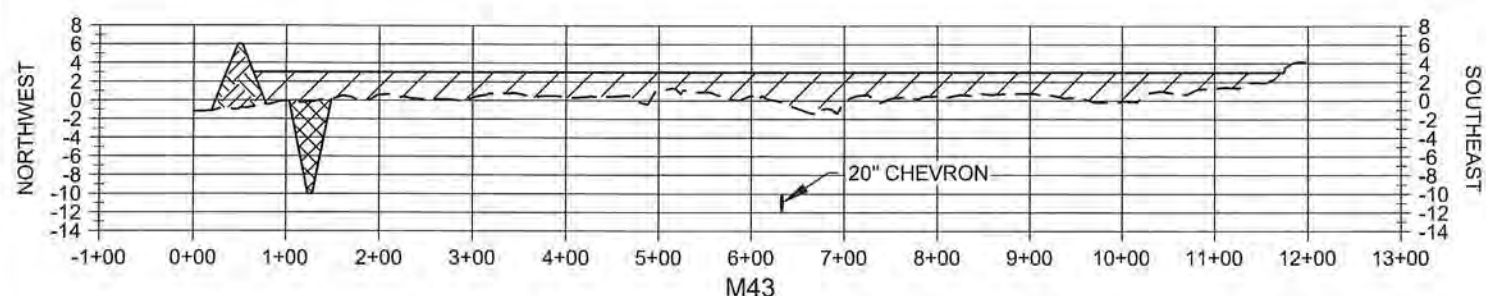
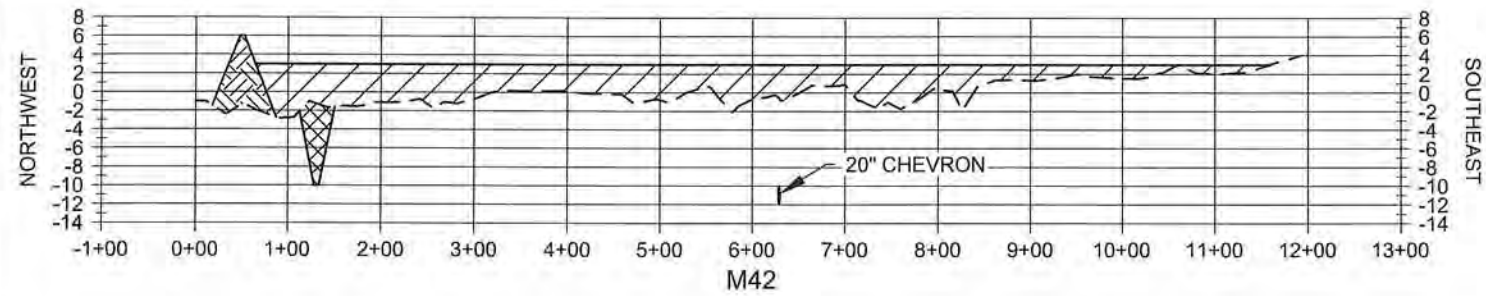


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



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

DATE: OCT. 2019		<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</div>						
SHEET 48 OF 53								
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT				MARSH CREATION AREA SECTIONS				
STATE PROJECT NUMBER: BA-0171				DESIGNED BY: A. TAYLOR, P.E.				
DRAWN BY: K. CANTU				APPROVED BY: S. HAYNES, P.E.		REV.	DATE	
							DESCRIPTION	BY



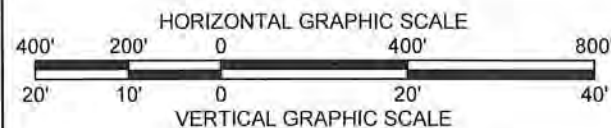
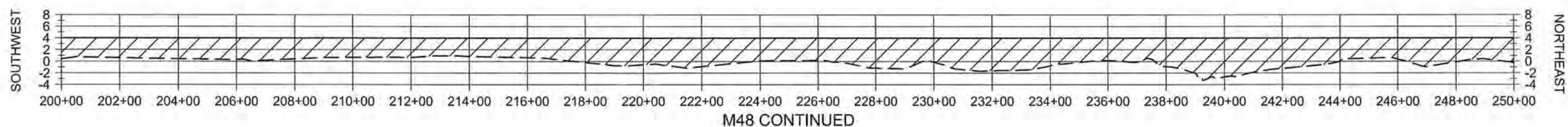
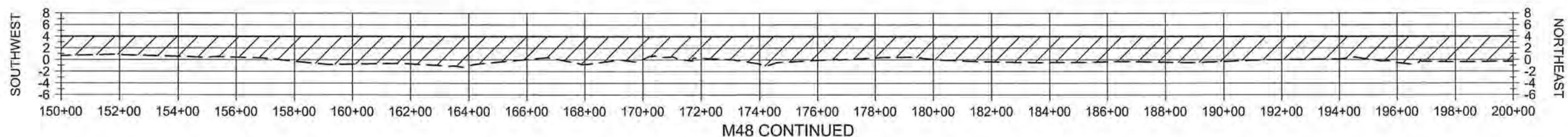
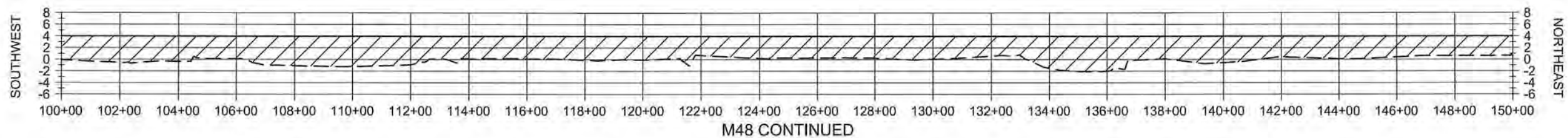
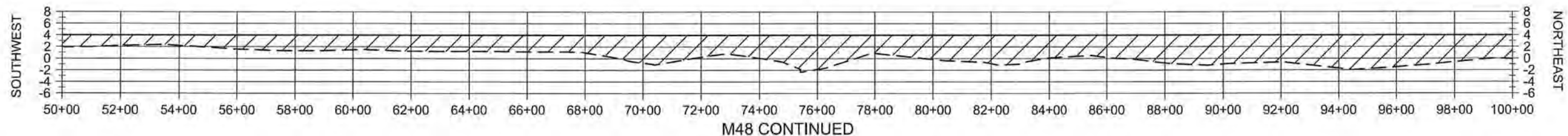
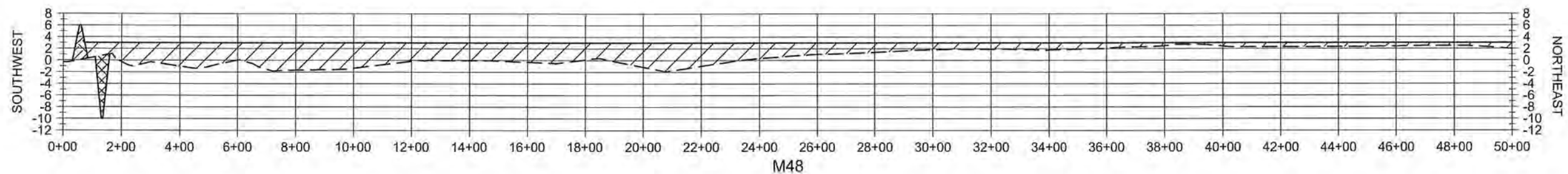
NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



amanda Taylor
10/30/19

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

COASTAL PROTECTION AND RESTORATION AUTHORITY 130 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV.	DATE	DESCRIPTION	BY
MARSH CREATION AREA SECTIONS	DESIGNED BY: A. TAYLOR, P.E.				
	APPROVED BY: S. HAYNES, P.E.				
CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT	STATE PROJECT NUMBER: BA-0171				
	DRAWN BY: K. CANTU				
DATE: OCT 2019					
SHEET 49 OF 53					

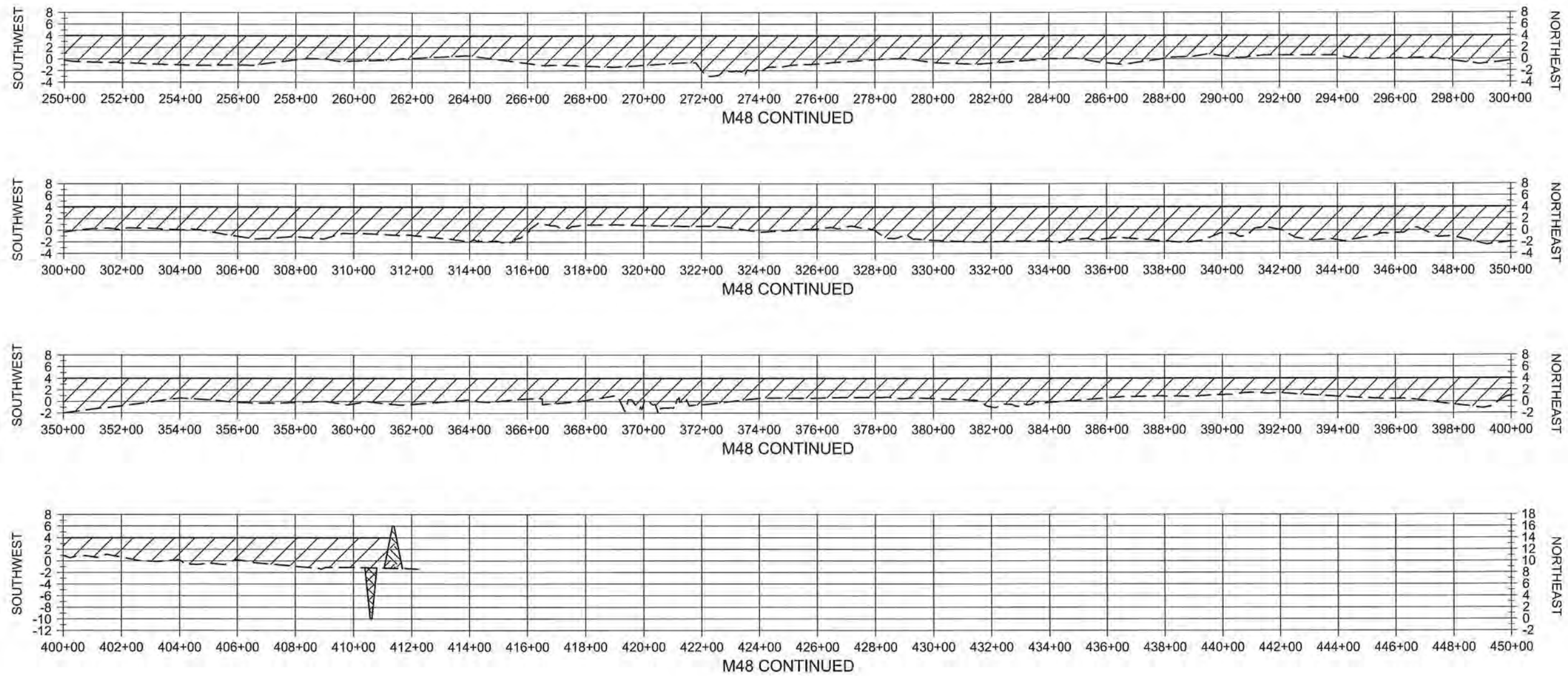


NOTE:
ALL ELEVATIONS ARE GIVEN IN
THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

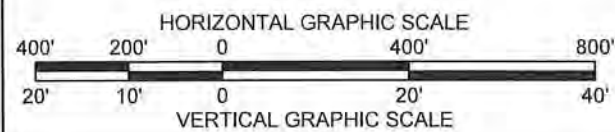


LEGEND	
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	MARSH CREATION FILL
	EXISTING GROUND

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		MARSH CREATION AREA SECTIONS	COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802						
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.							
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.							
DATE: OCT 2019						REV.	DATE	DESCRIPTION	BY
SHEET 50 OF 53									

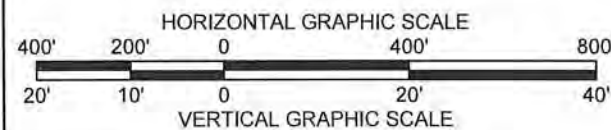
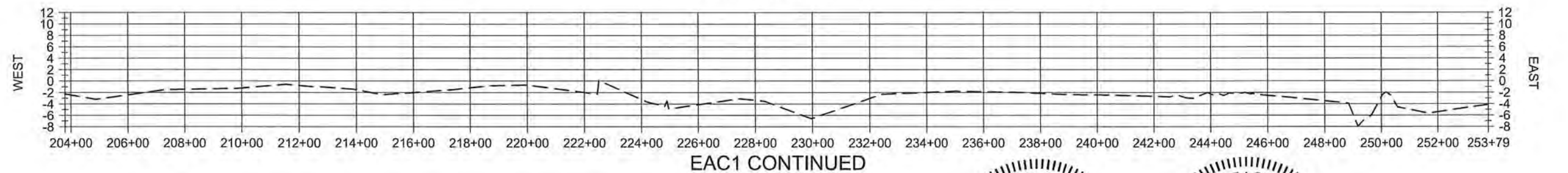
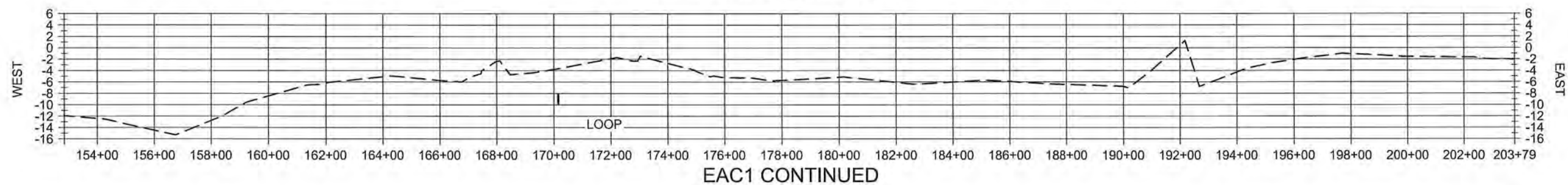
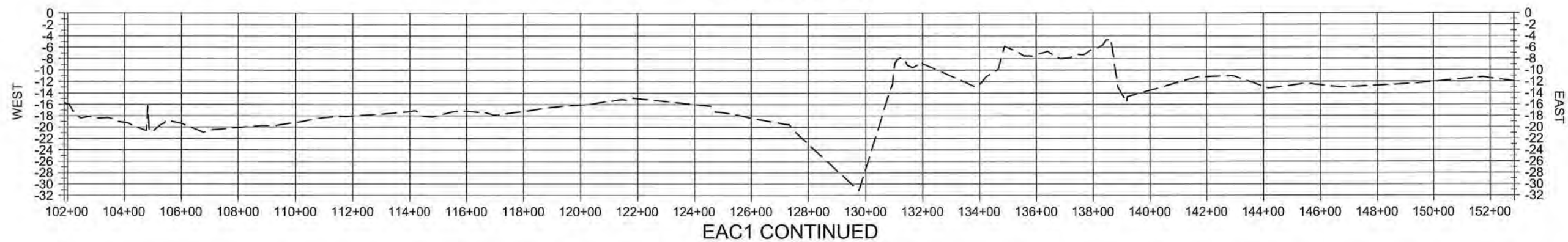
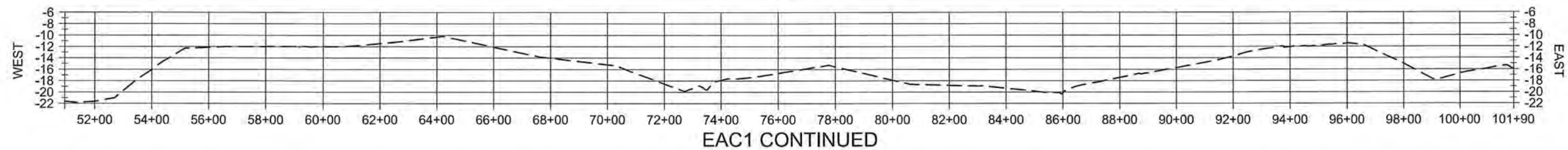
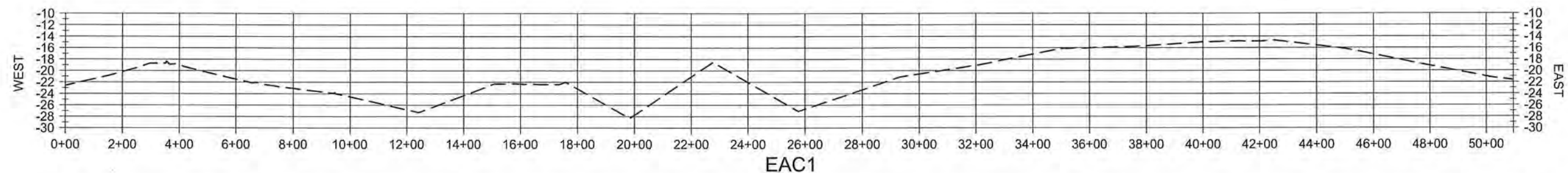


LEGEND	
	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	MARSH CREATION FILL
	EXISTING GROUND



NOTE:
ALL ELEVATIONS ARE GIVEN IN
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DATUM OF 1988 (NAVD88).

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT		MARSH CREATION AREA SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802									
STATE PROJECT NUMBER: BA-0171		DESIGNED BY: A. TAYLOR, P.E.											
DRAWN BY: K. CANTU		APPROVED BY: S. HAYNES, P.E.											
DATE: OCT. 2019													
SHEET 51 OF 53													



NOTE:
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THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).



LEGEND	
---	EXISTING GROUND
	PIPELINE

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

EQUIPMENT ACCESS
CORRIDOR SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

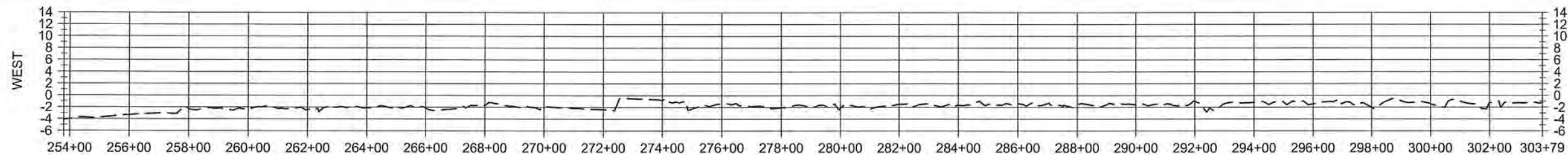
STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

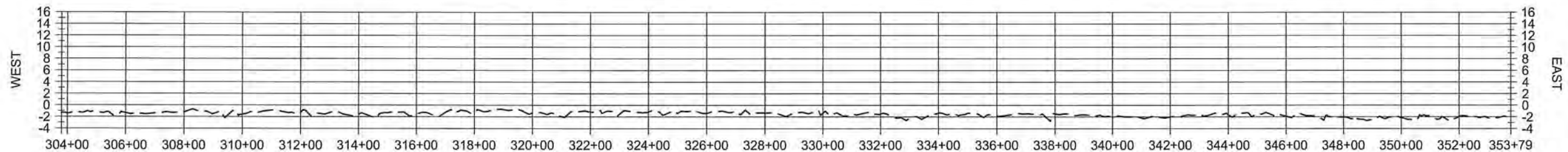
DATE: OCT, 2019

SHEET 52 OF 53

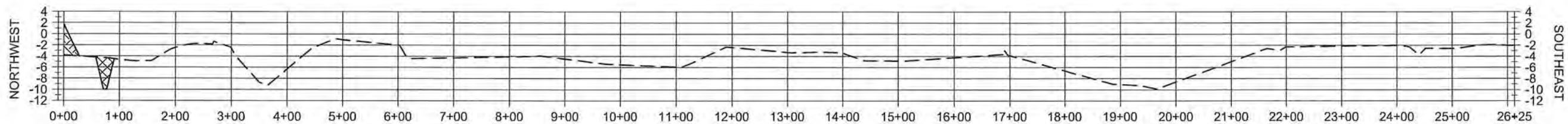
REV.	DATE	DESCRIPTION	BY



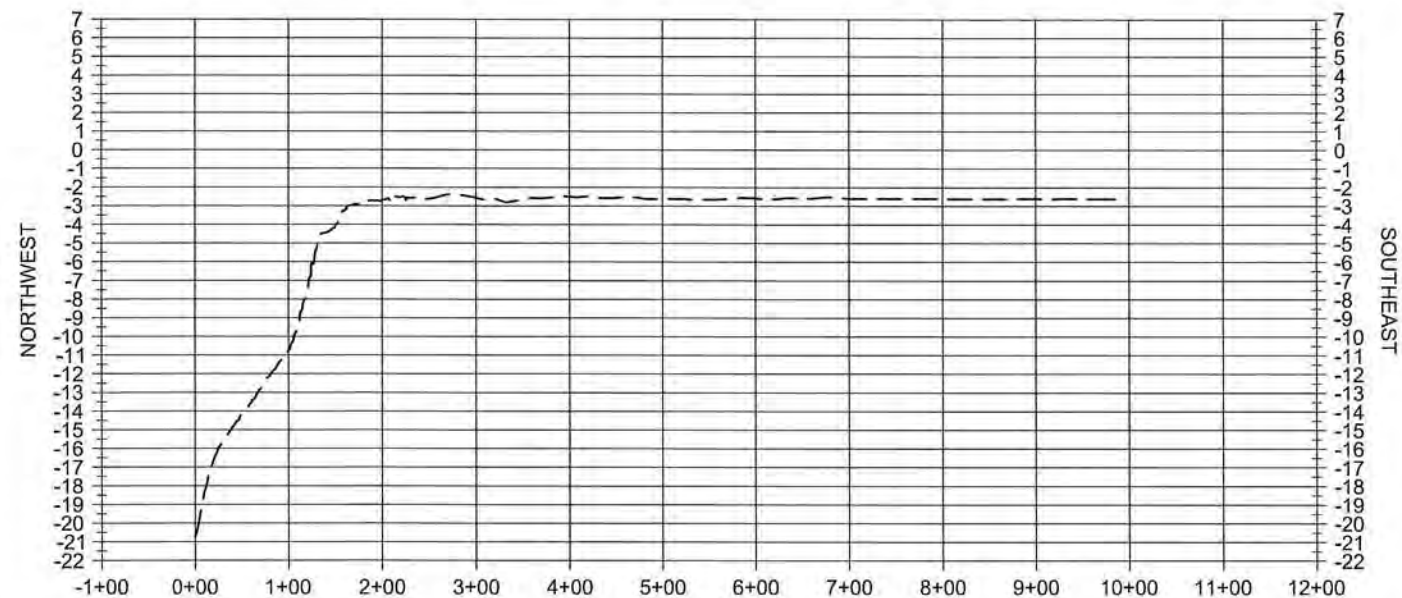
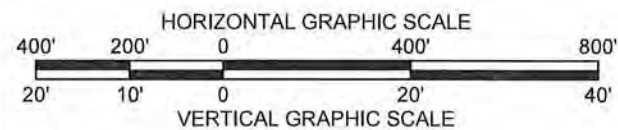
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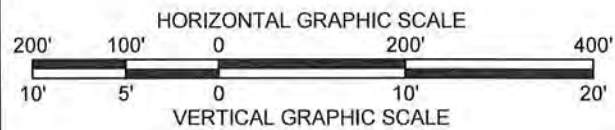
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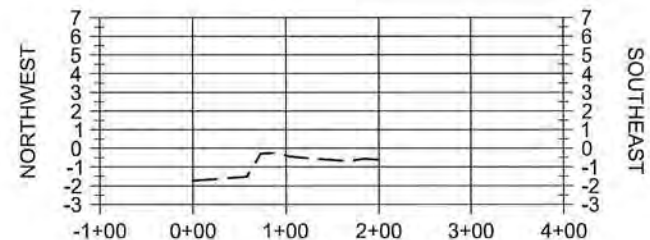
EAC4



EAC2



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EAC3



LEGEND	
---	EXISTING GROUND

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

EQUIPMENT ACCESS
CORRIDOR SECTIONS

CAMINADA HEADLAND
BACK BARRIER MARSH
CREATION PROJECT

DESIGNED BY: A. TAYLOR, P.E.

APPROVED BY: S. HAYNES, P.E.

STATE PROJECT NUMBER: BA-0171

DRAWN BY: K. CANTU

DATE: OCT. 2019

SHEET 53 OF 53