



LEGEND	
	MARSH CREATION AREA
	CSC DREDGING AREA
	DREDGE PIPELINE CORRIDOR
	EARTHEN CONTAINMENT DIKE
	EXISTING EARTHEN DIKE
	INTERNAL TRAINING DIKE
	EQUIPMENT ACCESS CORRIDOR
	PIPELINE (PL)
	CRMS STATION
	SURVEY MONUMENT
10	RIVER MILE

NOTES:

1. THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION.
2. THE 36" BRINE DISPOSAL PIPELINE BY THE DEPT OF ENERGY HAS BEEN DECOMMISSIONED SINCE DECEMBER 1995. THE ELEVATION AT THE TOP OF THE PIPELINE VARIES FROM -3.2 FT. NAVD88 TO -10.7 FT. NAVD88 AND THE DEPTH OF COVER OVER THE PIPELINE RANGED FROM 4 FT. TO 11 FT AS PER THE DESIGN SURVEY. THE CONTRACTOR SHALL ALWAYS MAINTAIN A 3 FT MINIMUM DEPTH OF COVER OVER THE DECOMMISSIONED LINE.
3. DREDGING PRECAUTIONS OVER PIPELINE AND UTILITIES IN CALCASIEU SHIP CHANNEL SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION SOLICITATION AND SPECIFICATION OF CALCASIEU RIVER AND PASS MAINTENANCE DREDGING, MILE 5.0 TO MILE 17.0, BY USACE, NEW ORLEANS DISTRICT.



REV	DATE	DESCRIPTION	BY

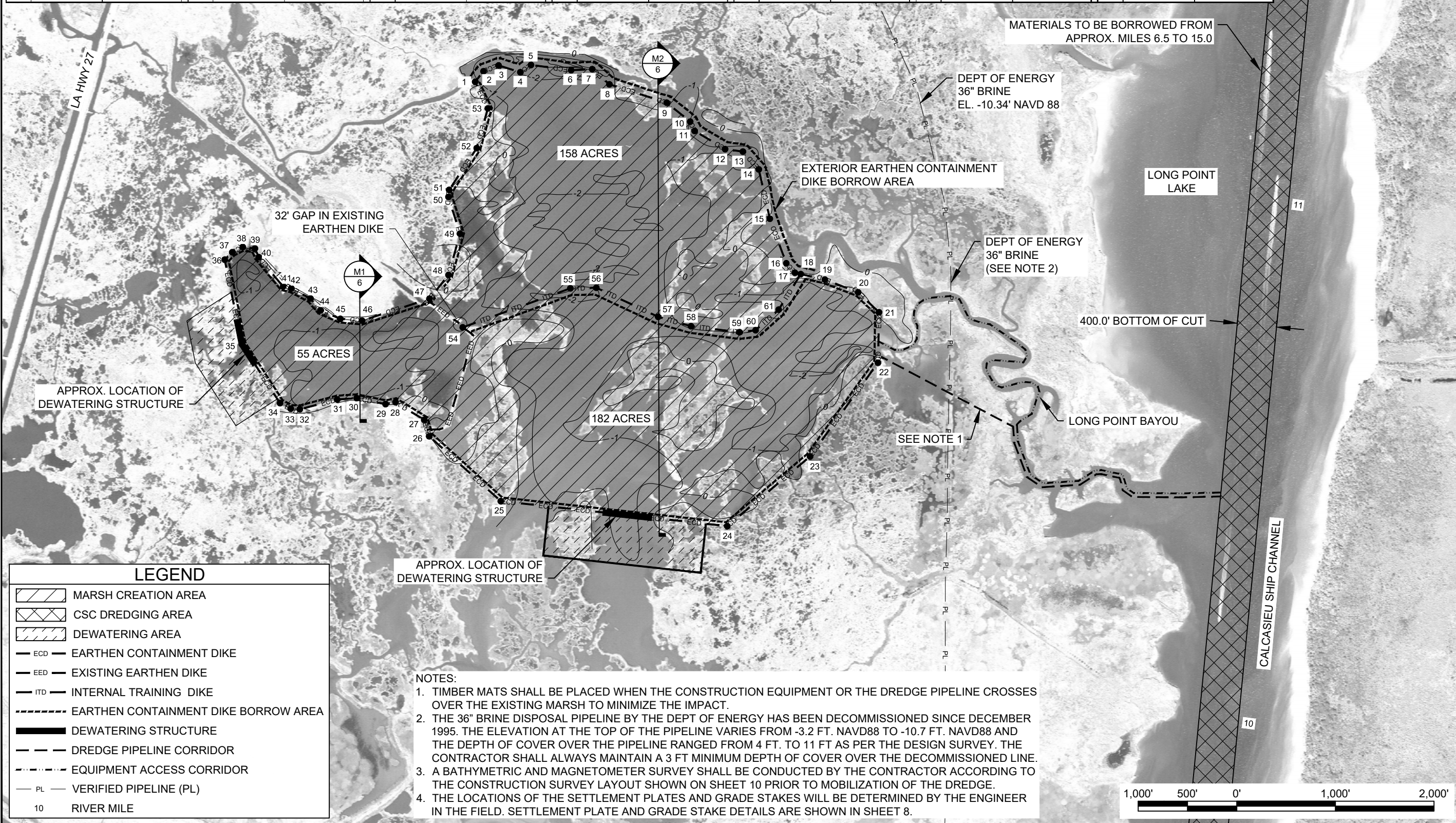
COASTAL PROTECTION AND RESTORATION AUTHORITY	
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802	
PROJECT LAYOUT	DESIGNED BY: K. SADDI, P.E. P.E. NO. 42398
LONG POINT BAYOU MARSH CREATION AREA PROJECT	APPROVED BY: D. GILLEN, P.E. P.E. NO. 33282
STATE PROJECT NUMBER: CS-0085	DRAWN BY: K. CANTU
DATE: SEPT. 2021	
SHEET 3 OF 12	

EARTHEN CONTAINMENT DIKE CENTERLINE

NO.	NORTHING	EASTING	NO.	NORTHING	EASTING	NO.	NORTHING	EASTING	NO.	NORTHING	EASTING
1	525,347.72	2,637,174.93	10	524,943.77	2,639,356.31	19	523,343.06	2,640,721.43	28	522,099.18	2,636,367.62
2	525,454.70	2,637,259.82	11	524,849.87	2,639,401.51	20	523,213.23	2,641,059.35	29	522,080.33	2,636,266.12
3	525,513.99	2,637,412.66	12	524,665.29	2,639,710.08	21	523,011.28	2,641,270.94	30	522,141.38	2,635,973.17
4	525,444.21	2,637,633.41	13	524,640.16	2,639,890.72	22	522,500.08	2,641,260.40	31	522,127.49	2,635,776.08
5	525,518.28	2,637,741.63	14	524,459.77	2,640,051.64	23	521,549.78	2,640,571.49	32	522,027.97	2,635,397.31
6	525,465.27	2,638,148.72	15	523,959.69	2,640,163.83	24	520,843.65	2,639,731.72	33	522,033.01	2,635,304.93
7	525,475.28	2,638,362.46	16	523,508.19	2,640,330.19	25	521,096.65	2,637,435.03	34	522,090.39	2,635,195.91
8	525,322.24	2,638,536.48	17	523,411.92	2,640,418.16	26	521,754.52	2,636,709.13	35	522,688.91	2,634,809.08
9	525,136.02	2,639,117.53	18	523,397.94	2,640,477.35	27	521,921.18	2,636,658.11	36	523,544.71	2,634,635.52

INTERNAL TRAINING DIKE CENTERLINE

NO.	NORTHING	EASTING	NO.	NORTHING	EASTING
46	522,926.50	2,636,028.24	54	522,858.60	2,637,049.06
47	523,148.31	2,636,711.38	55	523,254.12	2,638,140.79
48	523,389.42	2,636,904.92	56	523,260.00	2,638,403.60
49	523,808.07	2,637,021.41	57	522,965.25	2,639,031.49
50	524,180.63	2,636,903.90	58	522,870.02	2,639,364.39
51	524,251.74	2,636,911.37	59	522,808.87	2,639,855.21
52	524,675.34	2,637,191.60	60	522,829.33	2,640,018.95
53	525,078.03	2,637,304.00	61	523,037.92	2,640,252.95
			18	523,397.94	2,640,477.35



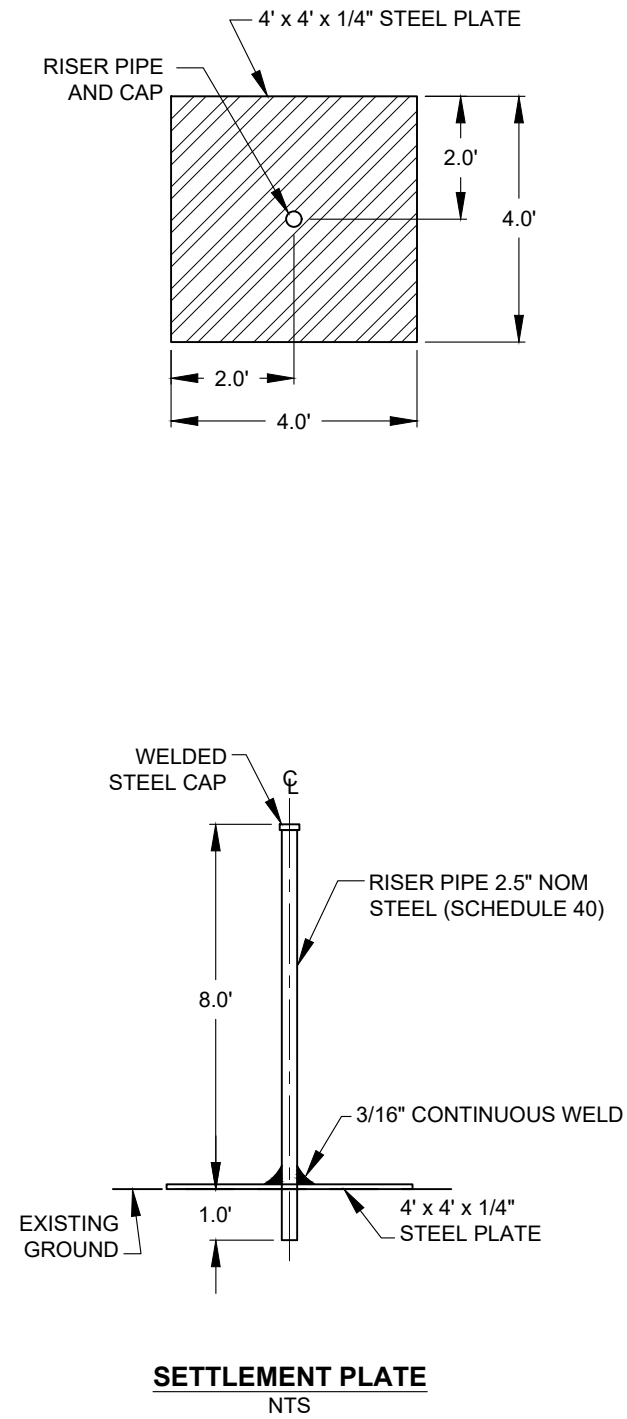
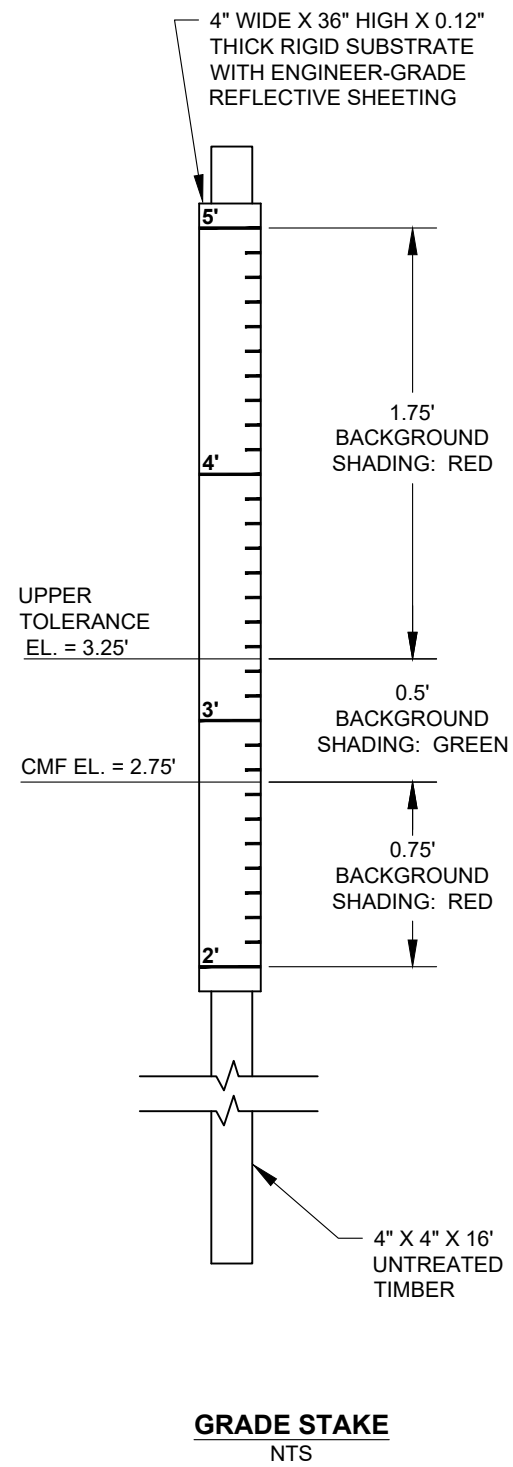
LEGEND

- MARSH CREATION AREA
- CSC DREDGING AREA
- DEWATERING AREA
- ECD - EARTHEN CONTAINMENT DIKE
- EED - EXISTING EARTHEN DIKE
- ITD - INTERNAL TRAINING DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- DEWATERING STRUCTURE
- DREDGE PIPELINE CORRIDOR
- EQUIPMENT ACCESS CORRIDOR
- PL - VERIFIED PIPELINE (PL)
- 10 RIVER MILE

NOTES:

- TIMBER MATS SHALL BE PLACED WHEN THE CONSTRUCTION EQUIPMENT OR THE DREDGE PIPELINE CROSSES OVER THE EXISTING MARSH TO MINIMIZE THE IMPACT.
- THE 36" BRINE DISPOSAL PIPELINE BY THE DEPT OF ENERGY HAS BEEN DECOMMISSIONED SINCE DECEMBER 1995. THE ELEVATION AT THE TOP OF THE PIPELINE VARIES FROM -3.2 FT. NAVD88 TO -10.7 FT. NAVD88 AND THE DEPTH OF COVER OVER THE PIPELINE RANGED FROM 4 FT. TO 11 FT AS PER THE DESIGN SURVEY. THE CONTRACTOR SHALL ALWAYS MAINTAIN A 3 FT MINIMUM DEPTH OF COVER OVER THE DECOMMISSIONED LINE.
- A BATHYMETRIC AND MAGNETOMETER SURVEY SHALL BE CONDUCTED BY THE CONTRACTOR ACCORDING TO THE CONSTRUCTION SURVEY LAYOUT SHOWN ON SHEET 10 PRIOR TO MOBILIZATION OF THE DREDGE.
- THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. SETTLEMENT PLATE AND GRADE STAKE DETAILS ARE SHOWN IN SHEET 8.

<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802</p>	<p>MARSH CREATION AREA LAYOUT</p> <p>DESIGNED BY: K. SADDI, P.E. P.E. NO. 42398</p> <p>APPROVED BY: D. GILLEN, P.E. P.E. NO. 33282</p>
<p>LONG POINT BAYOU MARSH CREATION AREA PROJECT</p> <p>STATE PROJECT NUMBER: CS-0085</p> <p>DRAWN BY: K. CANTU</p>	<p>DATE: SEPT. 2021</p> <p>SHEET 4 OF 12</p>



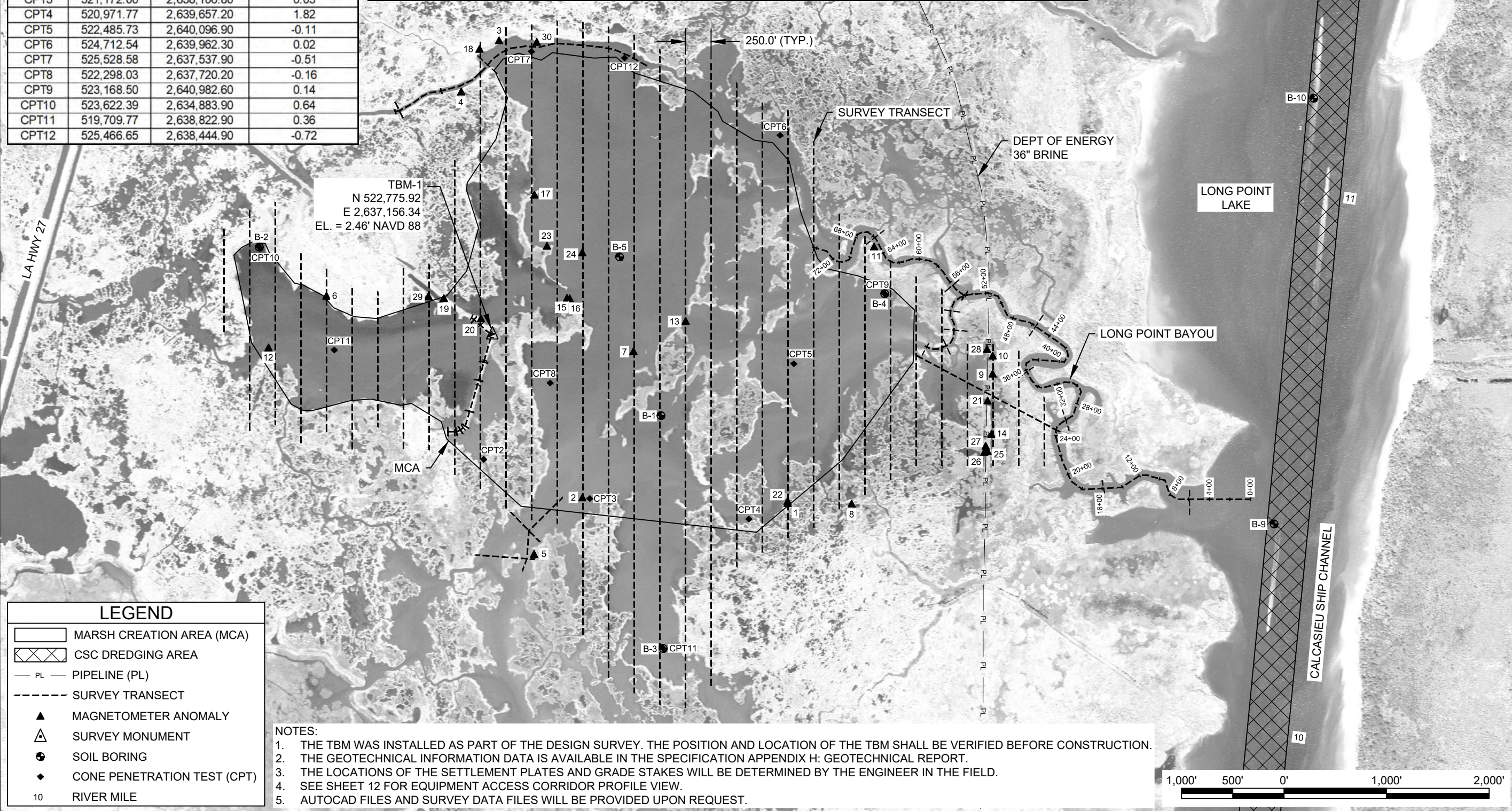
- NOTES:
1. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		DATE	REV	DESCRIPTION	BY
GRADE STAKE AND SETTLEMENT PLATE DETAILS		DESIGNED BY: K. SADDID, P.E.	P.E. NO. 42398		
LONG POINT BAYOU MARSH CREATION AREA PROJECT		APPROVED BY: D. GILLEN, P.E.	P.E. NO. 33282		
STATE PROJECT NUMBER: CS-0085		DRAWN BY: K. CANTU			
DATE: SEPT. 2021					
SHEET 8 OF 12					

SOIL BORING			
BORING	NORTHING	EASTING	MUDLINE EL. (FT.)
B-1	521,980.25	2,638,800.90	0.20
B-2	523,622.39	2,634,883.88	0.64
B-3	519,709.77	2,638,822.85	0.36
B-4	523,168.50	2,640,982.57	0.14
B-5	523,526.97	2,638,396.70	-0.89
B-9	520,923.85	2,644,779.52	-40.17
B-10	525,073.53	2,645,165.53	-40.60

CONE PENETRATION TEST			
CPT	NORTHING	EASTING	MUDLINE EL. (FT.)
CPT1	522,619.72	2,635,614.80	-0.09
CPT2	521,553.61	2,637,072.80	0.44
CPT3	521,172.00	2,638,106.80	0.03
CPT4	520,971.77	2,639,657.20	1.82
CPT5	522,485.73	2,640,096.90	-0.11
CPT6	524,712.54	2,639,962.30	0.02
CPT7	525,528.58	2,637,537.90	-0.51
CPT8	522,298.03	2,637,720.20	-0.16
CPT9	523,168.50	2,640,982.60	0.14
CPT10	523,622.39	2,634,883.90	0.64
CPT11	519,709.77	2,638,822.90	0.36
CPT12	525,466.65	2,638,444.90	-0.72

MAGNETOMETER ANOMALIES (AMPLITUDE 50 GAMMAS OR GREATER)								
NORTHING			EASTING			GAMMA		
2,640,036.45	521,121.57	67.2	2,640,878.76	523,621.98	196.5	2,641,985.74	522,120.56	1,258.3
2,638,034.53	521,177.21	80.4	2,634,973.82	522,637.57	284.9	2,640,035.14	521,141.03	1,537.5
2,637,221.63	525,632.61	82.4	2,639,040.94	522,897.60	288.7	2,637,688.79	523,629.24	1,606.5
2,636,853.04	525,133.53	83.8	2,642,022.95	521,794.23	296.5	2,638,033.37	523,565.89	1,661.5
2,637,563.21	520,626.24	97.9	2,637,884.33	523,121.53	366.7	2,641,985.08	521,628.59	1,794.9
2,635,538.00	523,142.53	121.7	2,637,910.60	523,116.90	366.7	2,641,954.25	521,621.85	1,796.9
2,638,532.14	522,601.67	140.1	2,637,566.38	524,128.14	438.2	2,641,966.84	521,678.47	1,824.7
2,640,659.96	521,115.02	154.2	2,637,031.39	525,549.59	614.5	2,641,980.72	522,622.58	1,912.2
2,642,034.20	522,383.56	159.9	2,636,683.23	523,118.91	657.2	2,636,532.89	523,138.33	2,518.8
2,642,035.57	522,558.68	175.5	2,637,044.79	522,922.82	931.5	2,637,589.95	525,617.48	2,988.6



- NOTES:
1. THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION.
 2. THE GEOTECHNICAL INFORMATION DATA IS AVAILABLE IN THE SPECIFICATION APPENDIX H: GEOTECHNICAL REPORT.
 3. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 4. SEE SHEET 12 FOR EQUIPMENT ACCESS CORRIDOR PROFILE VIEW.
 5. AUTOCAD FILES AND SURVEY DATA FILES WILL BE PROVIDED UPON REQUEST.

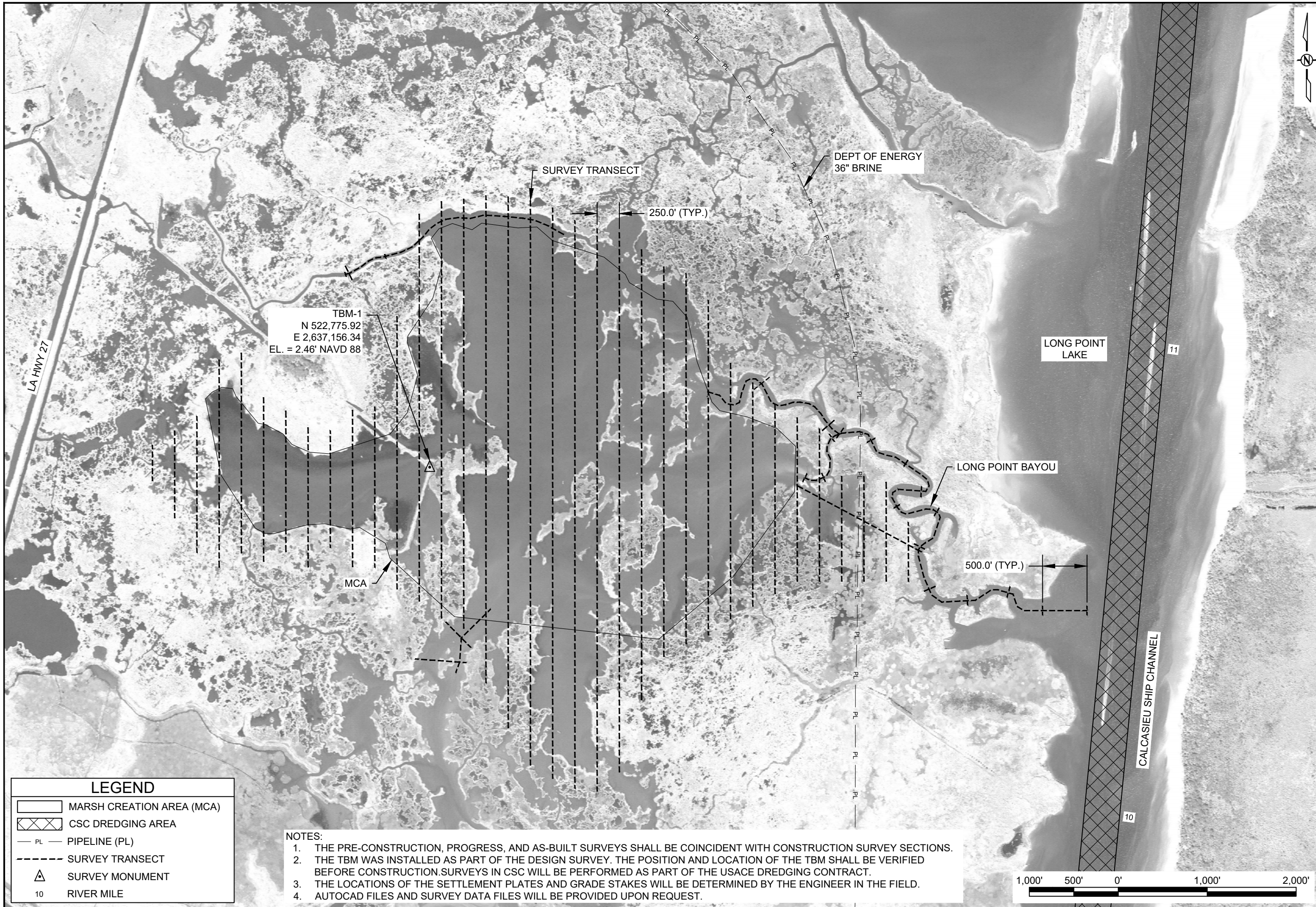
REV	DATE	DESCRIPTION	BY

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

MARSH CREATION AREA DESIGN SURVEY LAYOUT
 DESIGNED BY: K. SADDI, P.E. P.E. NO. 42398
 APPROVED BY: D. GILLEN, P.E. P.E. NO. 33282

LONG POINT BAYOU MARSH CREATION AREA PROJECT
 STATE PROJECT NUMBER: CS-0085
 DRAWN BY: K. CANTU

DATE: SEPT. 2021
 SHEET 9 OF 12



LA HWY 27

TBM-1
 N 522,775.92
 E 2,637,156.34
 EL. = 2.46' NAVD 88

SURVEY TRANSECT

250.0' (TYP.)

DEPT OF ENERGY
 36" BRINE

LONG POINT
 LAKE

LONG POINT BAYOU

500.0' (TYP.)

MCA

CALCASIEU SHIP CHANNEL

11

10



LEGEND

- MARSH CREATION AREA (MCA)
- CSC DREDGING AREA
- PIPELINE (PL)
- SURVEY TRANSECT
- SURVEY MONUMENT
- 10 RIVER MILE

NOTES:

1. THE PRE-CONSTRUCTION, PROGRESS, AND AS-BUILT SURVEYS SHALL BE COINCIDENT WITH CONSTRUCTION SURVEY SECTIONS.
2. THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION. SURVEYS IN CSC WILL BE PERFORMED AS PART OF THE USACE DREDGING CONTRACT.
3. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. AUTOCAD FILES AND SURVEY DATA FILES WILL BE PROVIDED UPON REQUEST.



COASTAL PROTECTION AND RESTORATION AUTHORITY				
150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802				
LONG POINT BAYOU MARSH CREATION AREA PROJECT	MARSH CREATION AREA CONSTRUCTION SURVEY LAYOUT	DESIGNED BY: K. SADDI, P.E.	P.E. NO. 42398	APPROVED BY: D. GILLEN, P.E.
STATE PROJECT NUMBER: CS-0085	DRAWN BY: K. CANTU	P.E. NO. 33282	DATE: SEPT. 2021	SHEET 10 OF 12
REV	DATE	DESCRIPTION	BY	



LEGEND	
	CSC DREDGING AREA
	PIPELINE (PL)
	SURVEY TRANSECT
	SURVEY MONUMENT
10	RIVER MILE

- NOTES:**
1. THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION.
 2. THE GEOTECHNICAL INFORMATION DATA IS AVAILABLE IN THE SPECIFICATION APPENDIX D: GEOTECHNICAL INVESTIGATION DATA REPORT.
 3. THE LOCATIONS OF THE SETTLEMENT PLATES AND GRADE STAKES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 4. AUTOCAD FILES AND SURVEY DATA FILES WILL BE PROVIDED UPON REQUESTED.



LONG POINT BAYOU MARSH CREATION AREA PROJECT		EARTHEN DIKE CONSTRUCTION SURVEY LAYOUT	
STATE PROJECT NUMBER: CS-0085	DRAWN BY: K. CANTU	DESIGNED BY: K. SADDID, P.E.	P.E. NO. 42398
		APPROVED BY: D. GILLEN, P.E.	P.E. NO. 33282
COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV	DATE
DATE: SEPT. 2021		SHEET 11 OF 12	

