

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, ALL DIKE BORROW AREAS, AND MARSH CREATION AREAS 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 AREAS. ANY MATERIAL THAT IS DEPOSITED ELSEWHERE THAN WITHIN THE MARSH CREATION AREA SHOWN ON THE CONTRACT DRAWINGS MAY BE REQUIRED TO BE REMOVED AND DEPOSITED IN APPROVED AREAS AT NO ADDITIONAL EXPENSE TO THE GOVERNMENT.
8. BACKGROUND IMAGERY WAS TAKEN IN 2018.
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 ADHERE TO THE MOST CURRENT PUBLICATIONS OF "RECOMMENDED BEST PRACTICES GUIDE FOR SAFE DREDGING NEAR UNDERWATER GAS & HAZARDOUS LIQUID PIPELINES", WWW.CDMCS.ORG, AND " WORKING SAFELY NEAR UNDERWATER PIPELINES", WWW.CAMOGROUP.ORG .
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS 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.

DEPARTMENT OF ENERGY STRATEGIC PETROLEUM RESERVE PIPELINE
CONTACT: ANDREA REAGAN
PHONE: (504) 743-4592

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LANDOWNERS LISTED IN THE BID DOCUMENTS AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK. THE LANDOWNERS ARE IDENTIFIED IN THE SPECIFICATIONS.

DESIGN NOTES:

1. ALL ELEVATIONS ARE BASED ON THE FOLLOWING MONUMENT DATA USING THE GEOID SPECIFIED BELOW. THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION.

<u>SECONDARY SURVEY MONUMENT</u>	<u>ELEVATION</u>	<u>NORTHING</u>	<u>EASTING</u>	<u>GEOID</u>
CS23-SM-01	0.82	518,286.24	2,631,372.11	18
TBM-1	2.46	522,775.92	2,637,156.34	18
TT-147	6.25	528,315.73	2,634,085.88	18

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED FROM APRIL 2020 THROUGH MAY 2020 BY C.H. FENSTERMAKER AND ASSOCIATES, L.L.C. FOR THE CPRA. ELEVATIONS ARE REFERENCED TO NAVD88, US FEET, EXCEPT IN THE CALCASIEU SHIP CHANNEL (CSC). THE US ARMY CORPS OF ENGINEERS (USACE) USES MEAN LOWER LOW WATER (MLLW) DATUM FOR DREDGING THE CSC. ELEVATIONS IN THE CSC ARE REFERENCED TO MLLW.

3. DATA FROM STATION CRMS0687 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 18. MHW = +1.05' AND MLW = +0.06'

4. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THE PROJECT AREA BY PROFESSIONAL SERVICES INDUSTRIES, INC. IN JUNE 2020. THE SOIL BORING AND CPT LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE APPENDICES OF THE SPECIFICATIONS.
5. THE VERIFIED AND UNVERIFIED EXISTING PIPELINE AND UTILITY OPERATORS SHOWN ON THE PLANS ARE BASED ON A MAGNETOMETER SURVEY PERFORMED FROM APRIL 2020 THROUGH MAY 2020 BY FENSTERMAKER. THE MAGNETOMETER SURVEY REPORT IS PROVIDED IN THE APPENDICES OF THE SPECIFICATIONS.
6. 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.

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

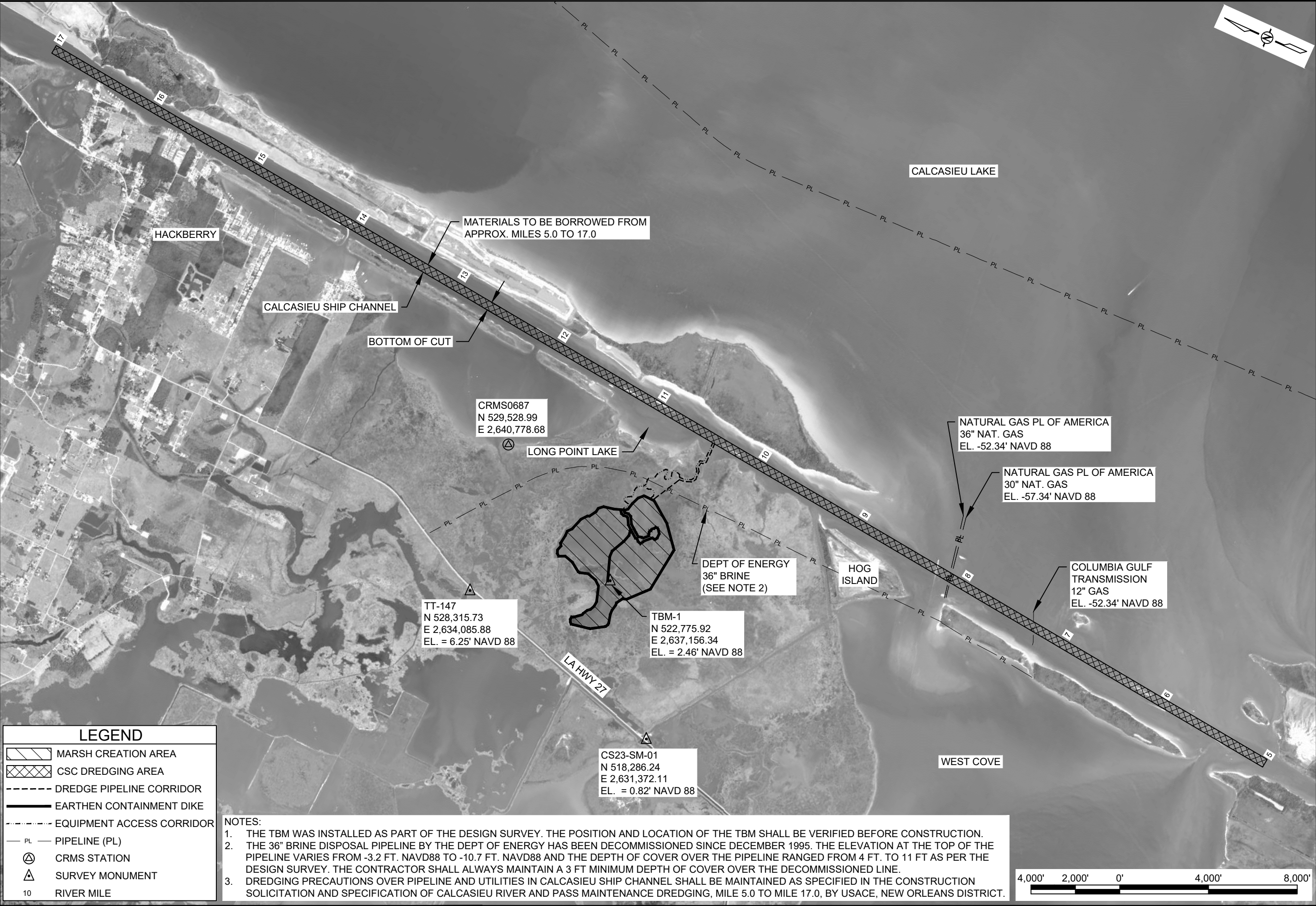
ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY¹
1	MOBILIZATION AND DEMOBILIZATION (TS-100)	LUMP SUM	1
2	HYDRAULIC DREDGING AND MARSH FILL (TS-400)	CUBIC YARD	1,435,670
3	EARTHEN CONTAINMENT DIKES (TS-300)	LINEAR FOOT	28,293
4	SETTLEMENT PLATES (TS-250)	EACH	14
5	GRADE STAKES (TS-220)	EACH	40
6	CONSTRUCTION SURVEYS (TS-200)	LUMP SUM	1
7	DAILY BIRD ABATEMENT (TS-211)	DAY	113

1. THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM APRIL 2020 THROUGH MAY 2020. 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	ISP	INSTRUMENTED SETTLEMENT PLATE
BEC	BOTTOM EDGE OF CUT	LF	LINEAR FOOT
CMF	CONSTRUCTED MARSH FILL	LS	LUMP SUM
CPT	CONE PENETRATION TEST	MCA	MARSH CREATION AREA
CSC	CALCASIEU SHIP CHANNEL	MLLW	MEAN LOWER LOW WATER
CY	CUBIC YARD	MNA	MARSH NOURISHMENT AREA
DPC	DREDGE PIPE CORRIDOR	PL	VERIFIED PIPELINE
EAC	EQUIPMENT ACCESS CORRIDOR	SF	SQUARE FOOT
ECD	EARTHEN CONTAINMENT DIKE	TS	TEMPORARY SPOIL
EL	ELEVATION	UPL	UNVERIFIED PIPELINE
FT	FOOT	USACE	UNITED STATES ARMY CORPS OF ENGINEERS
EAC	EQUIPMENT ACCESS CORRIDOR		
ECD	EARTHEN CONTAINMENT DIKE		

DATE: MAR. 2022		GENERAL NOTES		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802										
LONG POINT BAYOU MARSH CREATION AREA PROJECT														
STATE PROJECT NUMBER: CS-0085								DESIGNED BY: K. SADID, P.E.		P.E. NO. 42398				
DRAWN BY: K. CANTU								APPROVED BY: D. GILLEN, P.E.		P.E. NO. 33282				
								REV.	DATE	DESCRIPTION	BY			
SHEET 2 OF 13														



LEGEND

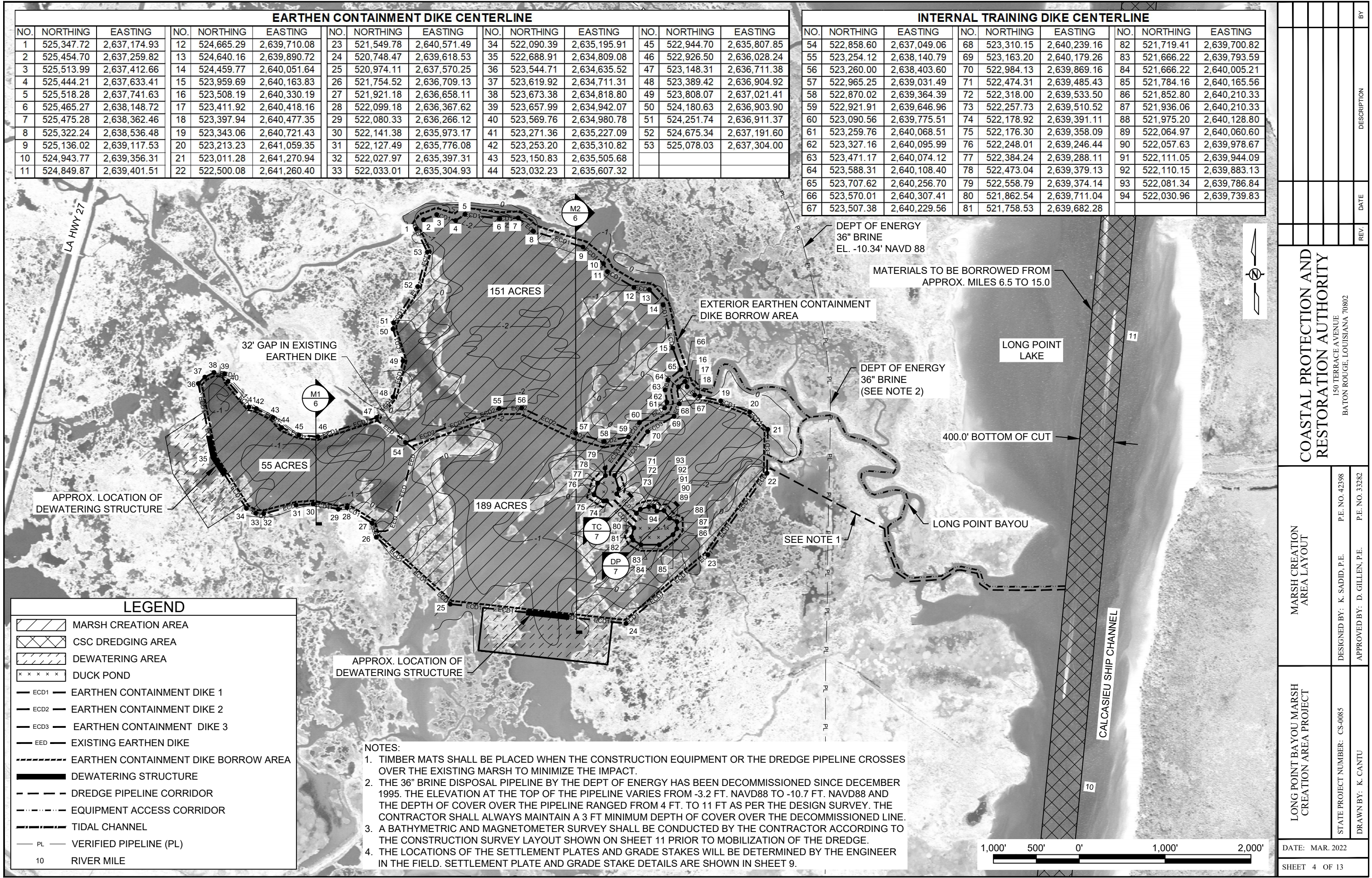
- MARSH CREATION AREA
- CSC DREDGING AREA
- DREDGE PIPELINE CORRIDOR
- EARTHEN CONTAINMENT DIKE
- EQUIPMENT ACCESS CORRIDOR
- PL PIPELINE (PL)
- CRMS STATION
- SURVEY MONUMENT
- 10 RIVER MILE

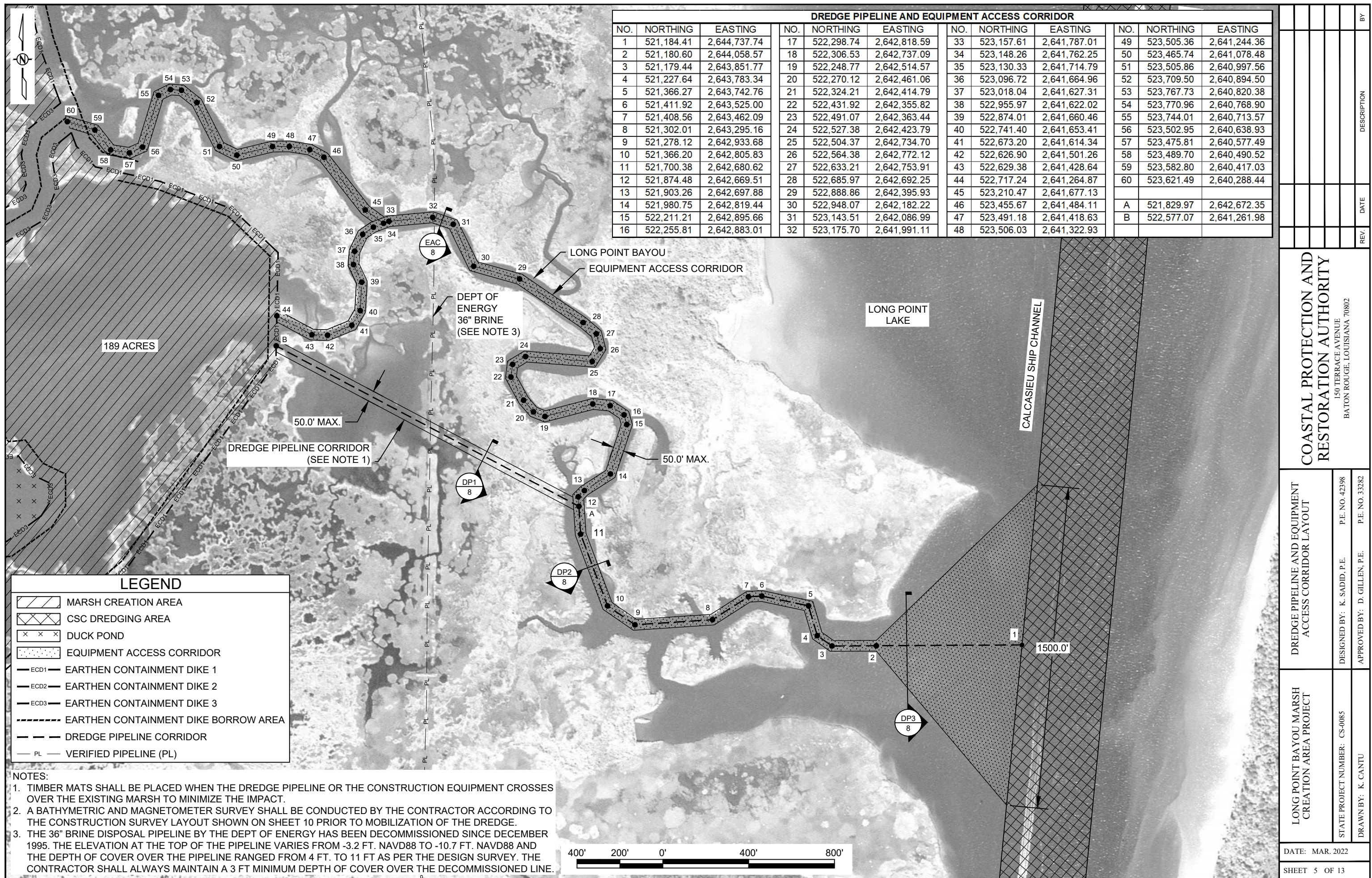
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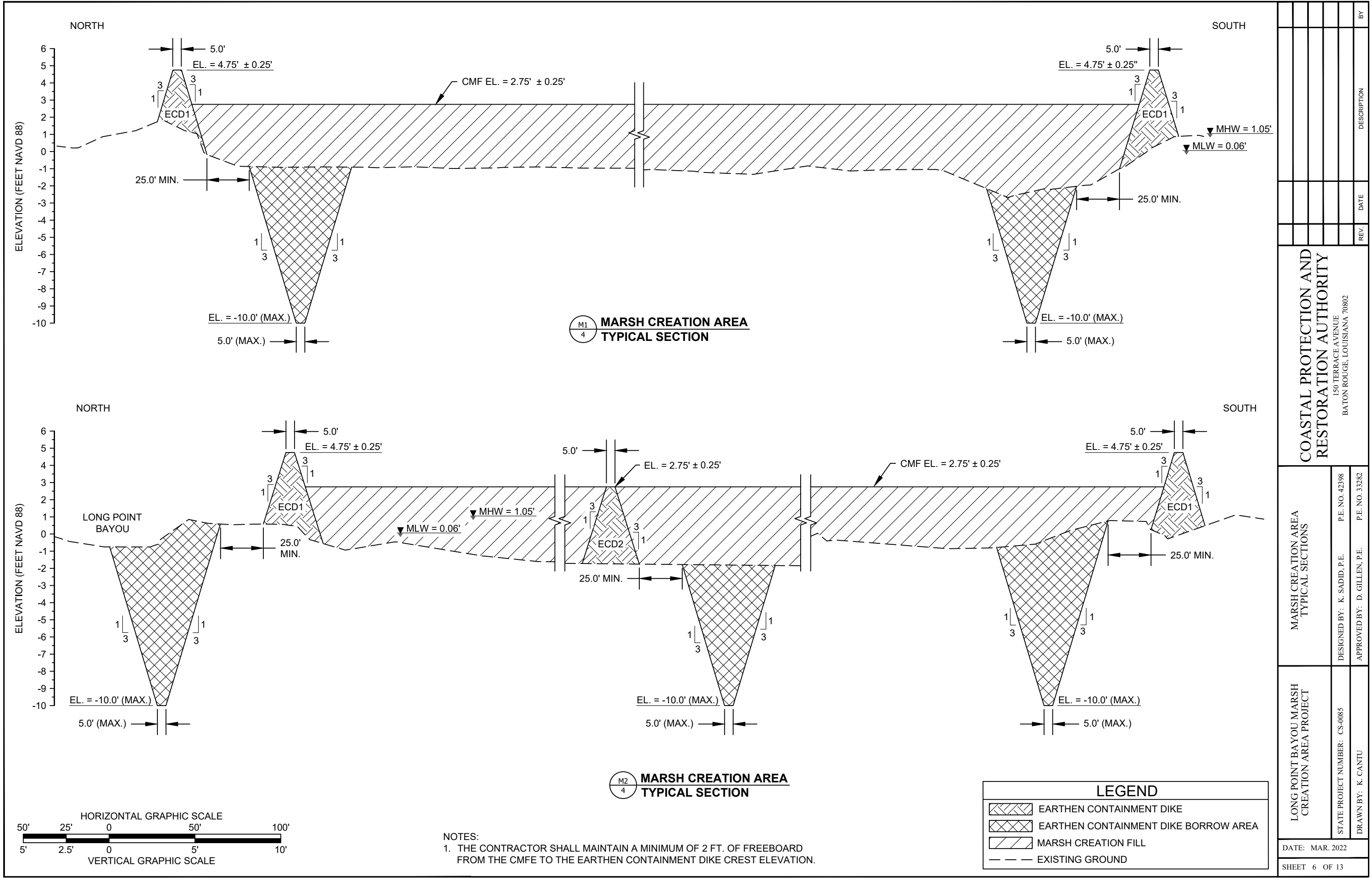
- THE TBM WAS INSTALLED AS PART OF THE DESIGN SURVEY. THE POSITION AND LOCATION OF THE TBM SHALL BE VERIFIED BEFORE CONSTRUCTION.
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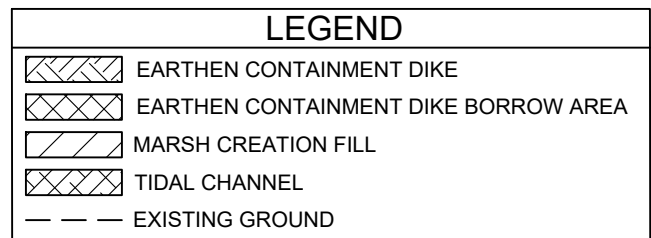
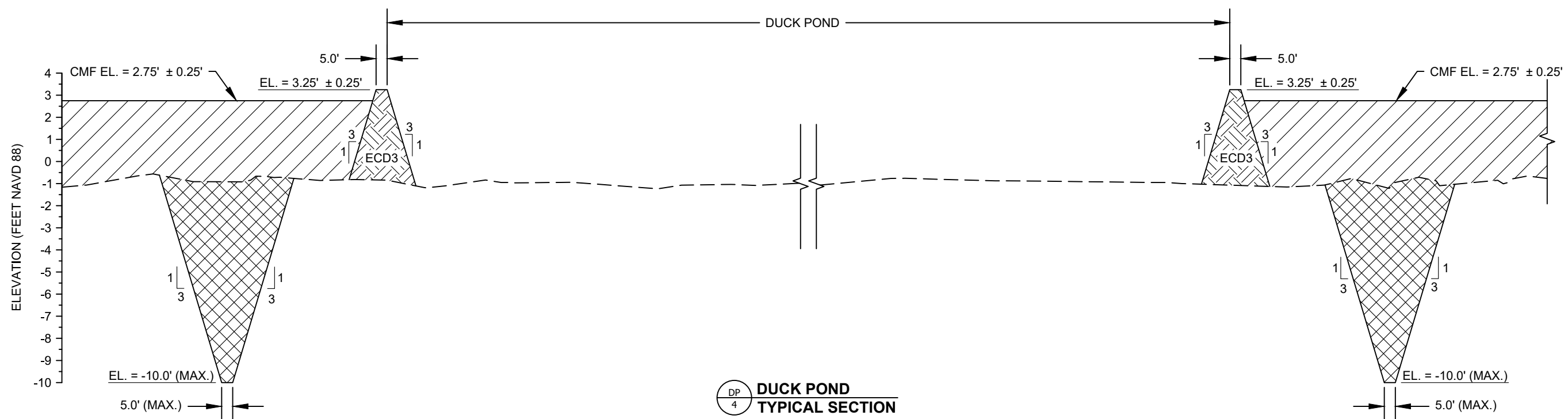
DATE: MAR. 2022		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
SHEET 3 OF 13							
LONG POINT BAYOU MARSH CREATION AREA PROJECT		PROJECT LAYOUT					
		STATE PROJECT NUMBER: CS-0085		DESIGNED BY: K. SADID, P.E.	P.E. NO. 42398		
DRAWN BY: K. CANTU		APPROVED BY: D. GILLEN, P.E.	P.E. NO. 33282				
					REV.	DATE	DESCRIPTION
							BY



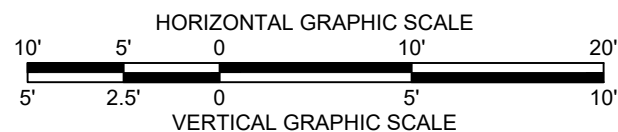
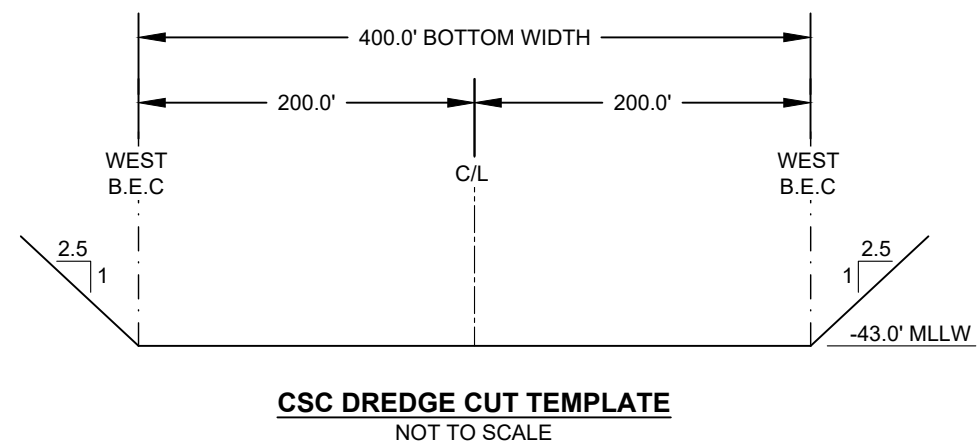
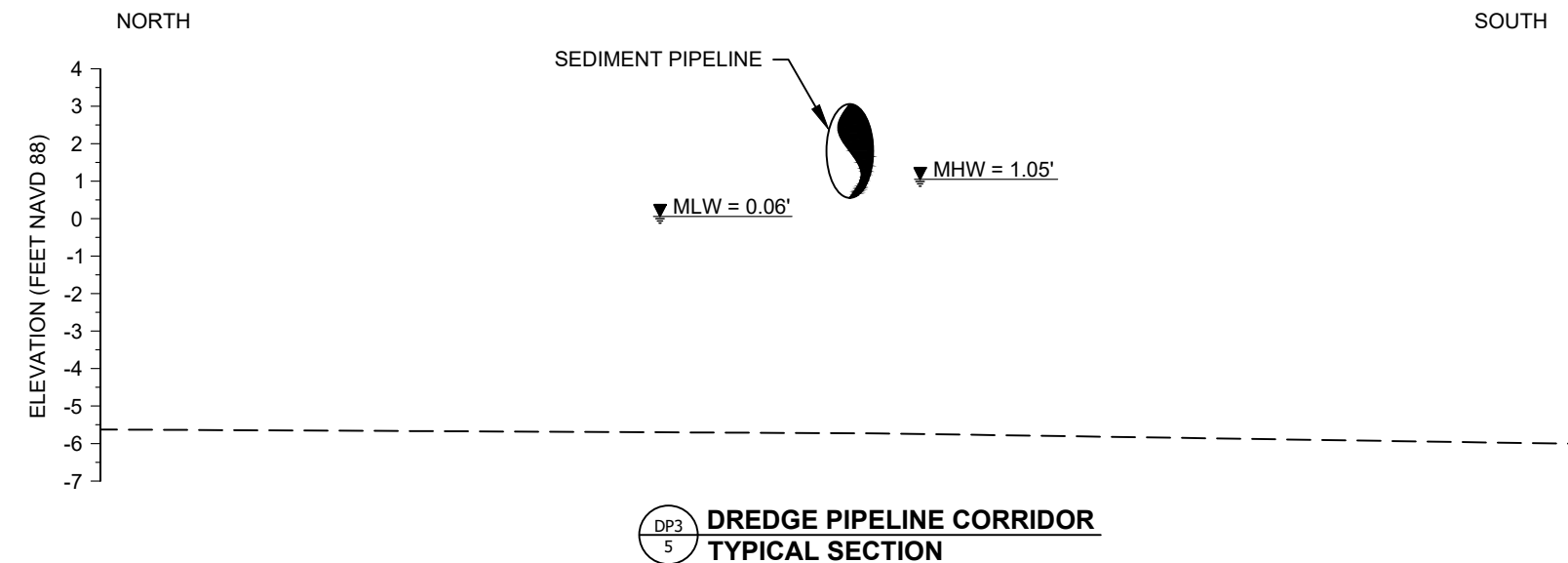
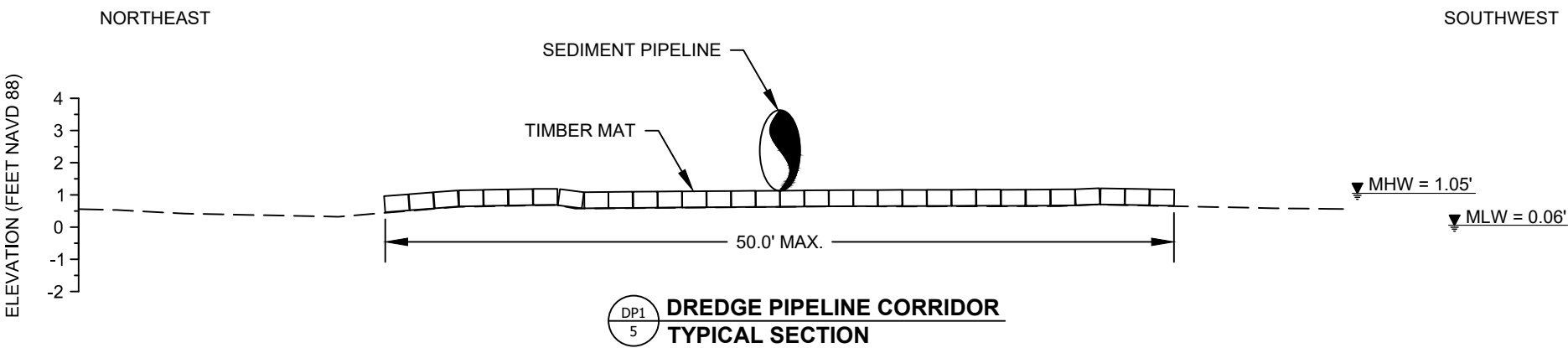




LONG POINT BAYOU MARSH CREATION AREA PROJECT		MARSH CREATION AREA TYPICAL SECTIONS		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802								
STATE PROJECT NUMBER: CS-0085		DESIGNED BY: K. SADID, P.E.						P.E. NO. 42398				
DRAWN BY: K. CANTU		APPROVED BY: D. GILLEN, P.E.						P.E. NO. 33282				
DATE: MAR. 2022												
SHEET 6 OF 13												
				REV.		DATE		DESCRIPTION		BY		



DATE: MAR. 2022		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE A VENUE BATON ROUGE, LOUISIANA 70802					
LONG POINT BAYOU MARSH CREATION AREA PROJECT	MARSH CREATION AREA TYPICAL SECTIONS						
STATE PROJECT NUMBER: CS-0085	DESIGNED BY: K. SADID, P.E. P.E. NO. 42398						
DRAWN BY: K. CANTU	APPROVED BY: D. GILLEN, P.E. P.E. NO. 33282						
					REV.	DATE	DESCRIPTION
SHEET 7 OF 13							



NOTES:

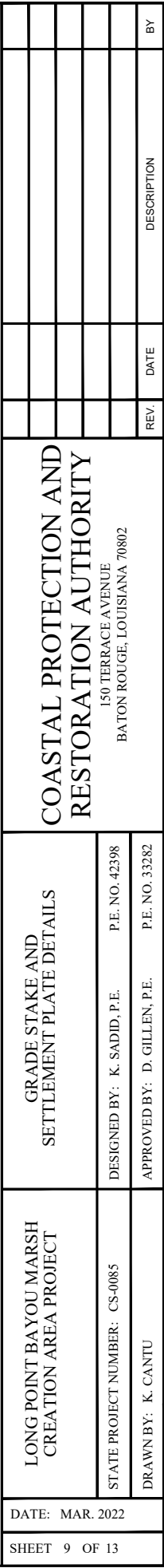
1. DREDGE PIPE SHALL BE PLACED AT THE LAND/WATER INTERFACE IN LONG POINT BAYOU WITH THE TOP OF PIPE ABOVE MHW. THE DREDGE PIPE SHALL NOT POSE AN OBSTRUCTION TO NAVIGATION IN THE CHANNEL.

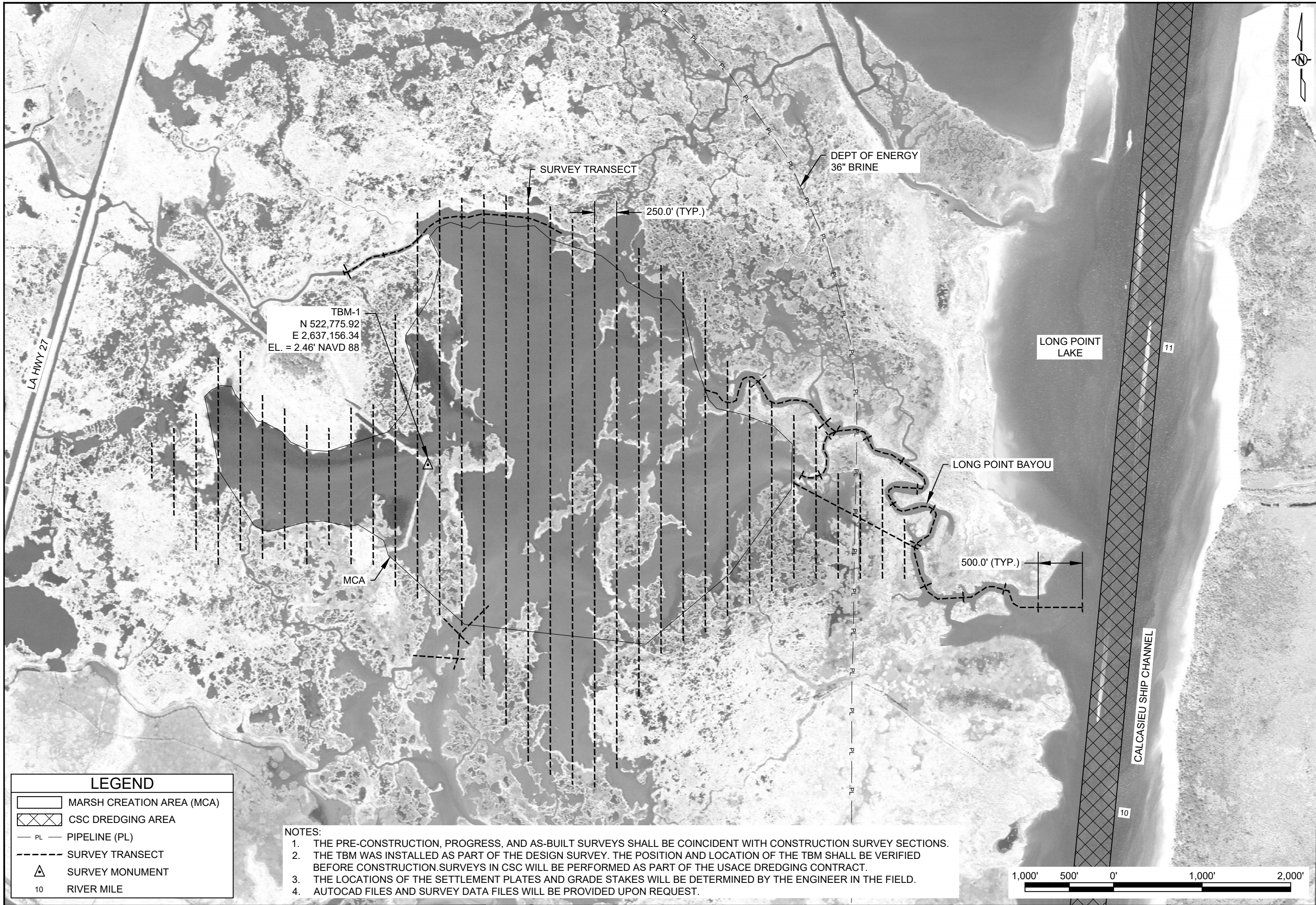
LEGEND	
---	EXISTING WATER BOTTOM
	TIMBER MAT

NOTES:

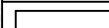
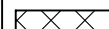
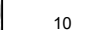
1. THE DRAWING AND SPECIFICATION OF THE CSC DREDGING WILL BE PROVIDED BY THE USACE.
2. THE ELEVATIONS IN CSC ARE REFERENCED TO MLLW.

LONG POINT BAYOU MARSH CREATION AREA PROJECT		DREDGE PIPELINE CORRIDOR TYPICAL SECTIONS AND CSC BORROW AREA DETAIL		COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802					
STATE PROJECT NUMBER: CS-0085		DESIGNED BY: K. SADID, P.E.		P.E. NO. 42398					
DRAWN BY: K. CANTU		APPROVED BY: D. GILLEN, P.E.		P.E. NO. 33282					
DATE: MAR. 2022						REV.	DATE	DESCRIPTION	BY
SHEET 8 OF 13									





LEGEND

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

MARSH CREATION AREA CONSTRUCTION SURVEY LAYOUT

LONG POINT BAYOU MARSH CREATION AREA PROJECT

DESIGNED BY: K. SADID, P.E. P.E. NO. 42398
APPROVED BY: D. GILLEN, P.E. P.E. NO. 33282
DRAWN BY: K. CANTU

DATE: MAR. 2022

SHEET 11 OF 13

REV	DATE	DESCRIPTION	BY



LEGEND

CSC DREDGING AREA

PL

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.



COASTAL PROTECTION AND RESTORATION AUTHORITY 150 TERRACE AVENUE BATON ROUGE, LOUISIANA 70802		REV	DATE	DESCRIPTION	BY
EARTHEN DIKE CONSTRUCTION SURVEY LAYOUT					
LONG POINT BAYOU MARSH CREATION AREA PROJECT		DATE: MAR. 2022			
		SHEET 12 OF 13			
STATE PROJECT NUMBER: CS-0085		DESIGNED BY: K. SADID, P.E.		P.E. NO. 42398	
DRAWN BY: K. CANTU		APPROVED BY: D. GILLEN, P.E.		P.E. NO. 33282	

