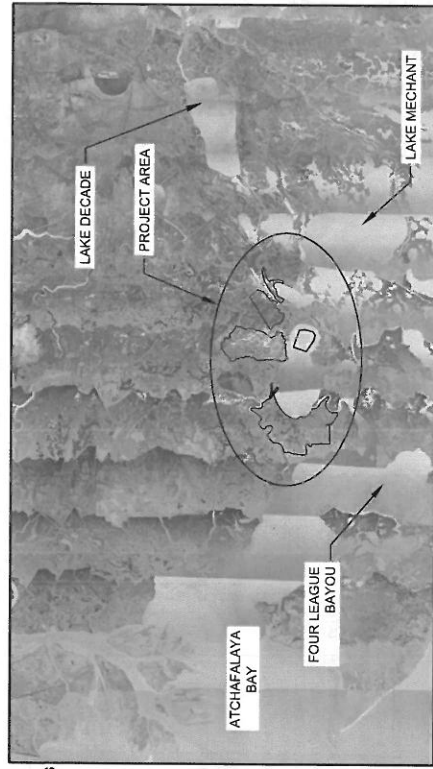


APPENDIX A - Detailed Drawings of Project Features

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION
TE-72
TERREBONNE PARISH, LOUISIANA



PRELIMINARY
DOCUMENTS ARE NOT TO BE USED FOR
CONSTRUCTION, BIDDING, RECORDATION,
CONVEYANCE, SALES, OR AS THE BASIS
FOR THE ISSUANCE OF A PERMIT.

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	PROJECT LAYOUT
4	BORROW AREA 1 LAYOUT
5	MARSH CREATION AREA 1 LAYOUT
6	MARSH CREATION AREA 2A LAYOUT
7	MARSH CREATION AREA 2B LAYOUT
8	MARSH CREATION AREA 2C LAYOUT
9	MARSH CREATION AREA 3/BORROW AREA 2 LAYOUT
10	EARTHEN TERRACES LAYOUT
11	EARTHEN TERRACE COORDINATES
12	TYPICAL BORROW AREA SECTIONS
13-14	TYPICAL FILL SECTIONS
15	TYPICAL MARSH NOURISHMENT & PIPELINE CORRIDOR SECTIONS
16	TYPICAL EARTHEN TERRACE
17-28	WEIR STRUCTURE (FROM CONSULTANT)
29	GRADE STAKE AND SETTLEMENT PLATE DETAILS
30	SURVEY LAYOUT
31	TRANSECT COORDINATES
32-68	CROSS SECTIONS

CHIEF, ENGINEERING DIVISION

ENGINEER MANAGER

ENGINEER SUPERVISOR

PROJECT ENGINEER

LICENSE CLASSIFICATION REQUIREMENTS
MAJOR CATEGORY: HEAVY CONSTRUCTION
SUBCLASSIFICATION: DREDGING

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801
DRAWN BY: SHANE FAUST
DESIGNED BY: TRAVIS BYALIND, E.I.

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72
APPROVED BY: JASON LANGLOS, P.E.
DATE: SEPTEMBER 2012
SHEET 1 OF 68

GENERAL 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 MARSH CREATION AREA ELEVATIONS ARE BASED ON LOUISIANA DEPARTMENT OF NATURAL RESOURCES (LDNR) SECONDARY MONUMENT TE-34-SM-04. SEE APPENDIX F OF THE SPECIFICATIONS FOR SURVEY MONUMENT DATA SHEETS.

SECONDARY SURVEY MONUMENT
TE-34-SM-04

ELEVATION
2.99'

NORTHING
313,874.12

EASTING
3,389,307.21

2. MARSH CREATION AREA ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED IN FEBRUARY 2010 BY PYBURN AND ODOM, INC. FOR THE CPRA. PIPELINE CORRIDOR ELEVATIONS SHOWN ON THE PLANS ARE BASED ON SURVEYS PERFORMED IN FEBRUARY 2010 BY PYBURN AND ODOM, INC.

3. DATA FROM USGS GAGE #0738165067 AND NOAA STATION #8761724 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88. US FEET. MHW = +1.44' AND MLW = +0.27'.

4. THE CONTRACTOR SHALL FOLLOW THE SPECIFIED PIPELINE CORRIDOR AND SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA AND SHALL NOTIFY LANDOWNERS ACCORDING TO THE LAND RIGHTS MEMORANDUM SHOWN IN THE CONSTRUCTION BID DOCUMENTS. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. PIPELINES IN OPEN WATER SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL LOUISIANA ONE CALL AT 1-800-272-3029 5 DAYS PRIOR TO EXCAVATION TO LOCATE ANY OTHER PIPELINES OR UTILITIES.

TEXAS GAS TRANSMISSION LINE, LLC.
CONTACT: ROD WIMBERLY
PHONE: (337) 856-2211 - EXT. 311

TENNESSEE GAS PIPELINE
CONTACT: HURT CHERAMIE
PHONE: (985) 868-6785

SHELLEQUILON PIPELINES
CONTACT: JAMIE HONSES
PHONE: (504) 728-4340

JAMES A. WHITSON, JR. PIPELINE
CONTACT: JIM WHITSON
PHONE: (713) 976-8963

7. 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.

8. 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.

9. THE MARSH CREATION AREAS AND BORROW AREAS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

10. ESTIMATED MARSH CREATION QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN MAY 2011. QUANTITIES WERE CALCULATED USING THE AVERAGE END AREA METHOD OF SECTIONS. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES OF ANY BID ITEM HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

11. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE BORROW AREA AND THE FILL AREAS AS WELL AS ANY OTHER EXCAVATION LOCATIONS 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 AS PER TS-2. CONSTRUCTION SURVEYS OF THE SPECIFICATIONS.

12. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE PROPOSED MARSH CREATION AREAS.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	SURVEYS	LUMP SUM	1
3	EARTHEN CONTAINMENT DIKES	LINEAR FOOT	50,664
4	BANK STABILIZATION DIKE	LINEAR FOOT	3,929
5	EARTHEN TERRACES	LINEAR FOOT	30,000
6	HYDRAULIC DREDGING (BORROW CUT VOLUME)	CUBIC YARD	3,347,846
7	WATER CONTROL STRUCTURES	EACH	8
8	GRADE STAKES	EACH	30
9	SETTLEMENT PLATES	EACH	5

* THE LINEAR FOOTAGE FOR THE EARTHEN CONTAINMENT DIKES AND THE EARTHEN TERRACES WERE ESTIMATED USING AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD. THE OWNER RESERVES THE RIGHT TO REQUEST ADDITIONAL DIKES AND/OR EARTHEN TERRACES BE BUILT FOR CONSTRUCTION AT THE CONTRACTOR'S BID UNIT PRICE PER LINEAR FOOT.

* HYDRAULIC DREDGING QUANTITIES FOR MARSH CREATION ARE BASED ON CUT VOLUME.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAURIE STREET
BATON ROUGE, LOUISIANA, 70801

DESIGNED BY: TRAVIS BYLAND, P.E.

DRAWN BY: SHANE FAUST

APPROVED BY: JASON LANGLOIS, P.E.

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION

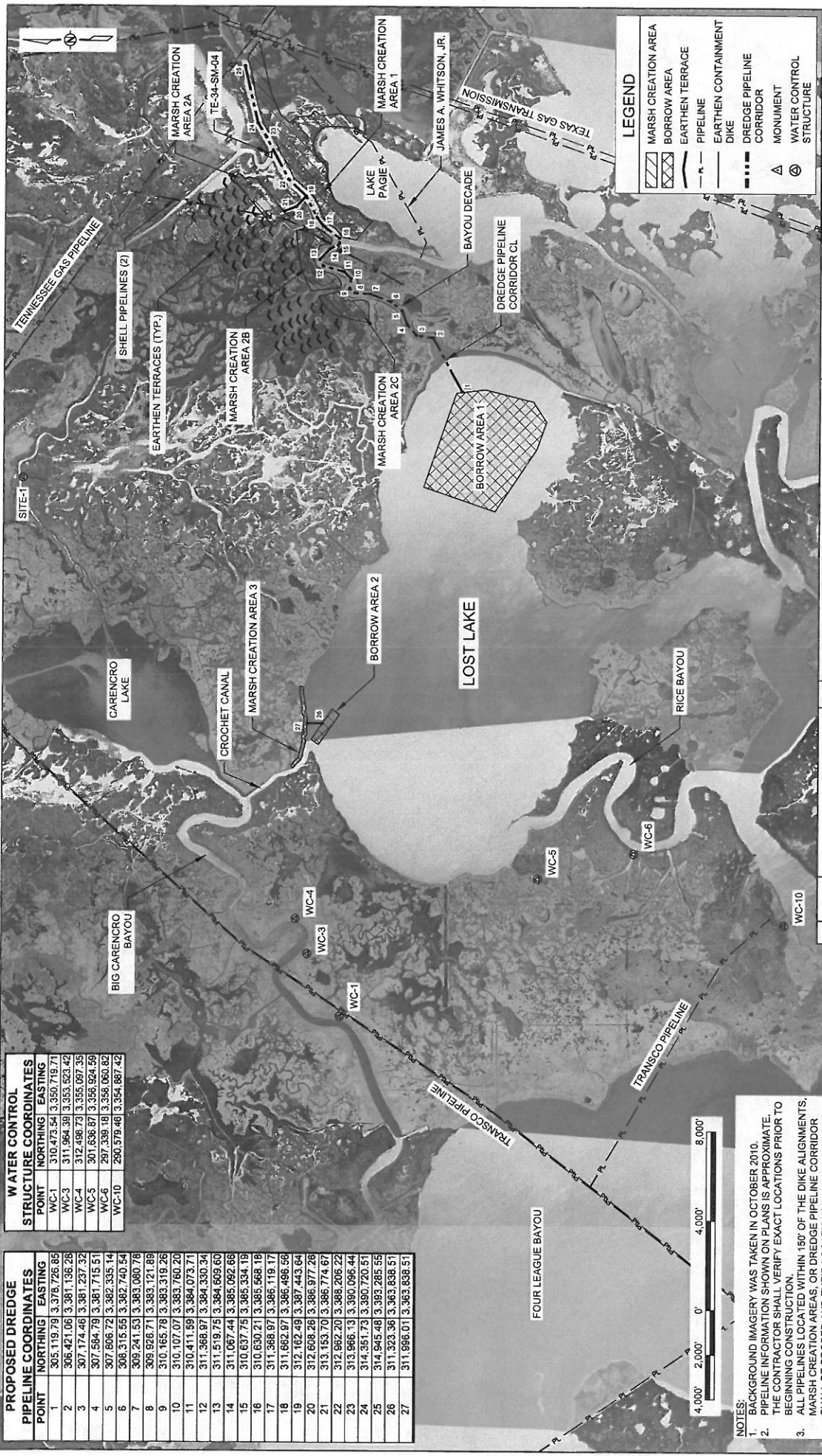
STATE PROJECT NUMBER: TE-72

FEDERAL PROJECT NUMBER: TE-72

DATE: SEPTEMBER 2012

SHEET : OF 68

GENERAL NOTES



WATER CONTROL STRUCTURE COORDINATES

POINT	NORTHING	EASTING
WC-1	310,473.54	3,350,719.71
WC-2	311,964.39	3,353,623.42
WC-3	312,498.73	3,355,092.35
WC-4	301,636.87	3,356,924.59
WC-5	297,338.19	3,356,060.82
WC-6	290,579.48	3,354,887.42

PROPOSED DREDGE PIPELINE COORDINATES

POINT	NORTHING	EASTING
1	305,119.79	3,378,726.95
2	308,421.06	3,381,136.28
3	307,174.46	3,381,237.32
4	307,584.79	3,381,715.51
5	307,606.72	3,382,335.14
6	309,315.55	3,382,740.54
7	309,241.53	3,383,080.78
8	309,926.71	3,383,121.89
9	310,165.78	3,383,319.26
10	310,107.07	3,383,760.20
11	310,411.99	3,384,073.71
12	311,368.97	3,384,330.34
13	311,519.75	3,384,609.60
14	311,067.44	3,385,092.66
15	310,637.75	3,385,334.19
16	310,630.21	3,385,568.19
17	311,368.97	3,386,119.17
18	311,662.97	3,386,496.98
19	312,162.49	3,387,443.64
20	312,608.28	3,388,977.26
21	313,153.70	3,388,774.67
22	312,982.20	3,388,205.22
23	313,966.13	3,390,096.44
24	313,351.73	3,390,720.51
25	314,945.48	3,392,285.95
26	311,323.96	3,383,838.51
27	311,986.01	3,383,838.51

LEGEND

- MARSH CREATION AREA
- BORROW AREA
- EARTHEN TERRACE
- PIPELINE
- EARTHEN CONTAINMENT
- DIKE
- DREDGE PIPELINE CORRIDOR
- MONUMENT
- WATER CONTROL STRUCTURE

PROJECT LAYOUT

STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72
DATE: SEPTEMBER 2012
APPROVED BY: JASON LANCOLOS, P.E.

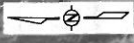
COASTAL PROTECTION AND RESTORATION AUTHORITY
430 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DESIGNED BY: TRAVIS WYLAND, E.I.
DRAWN BY: SHANE FALST

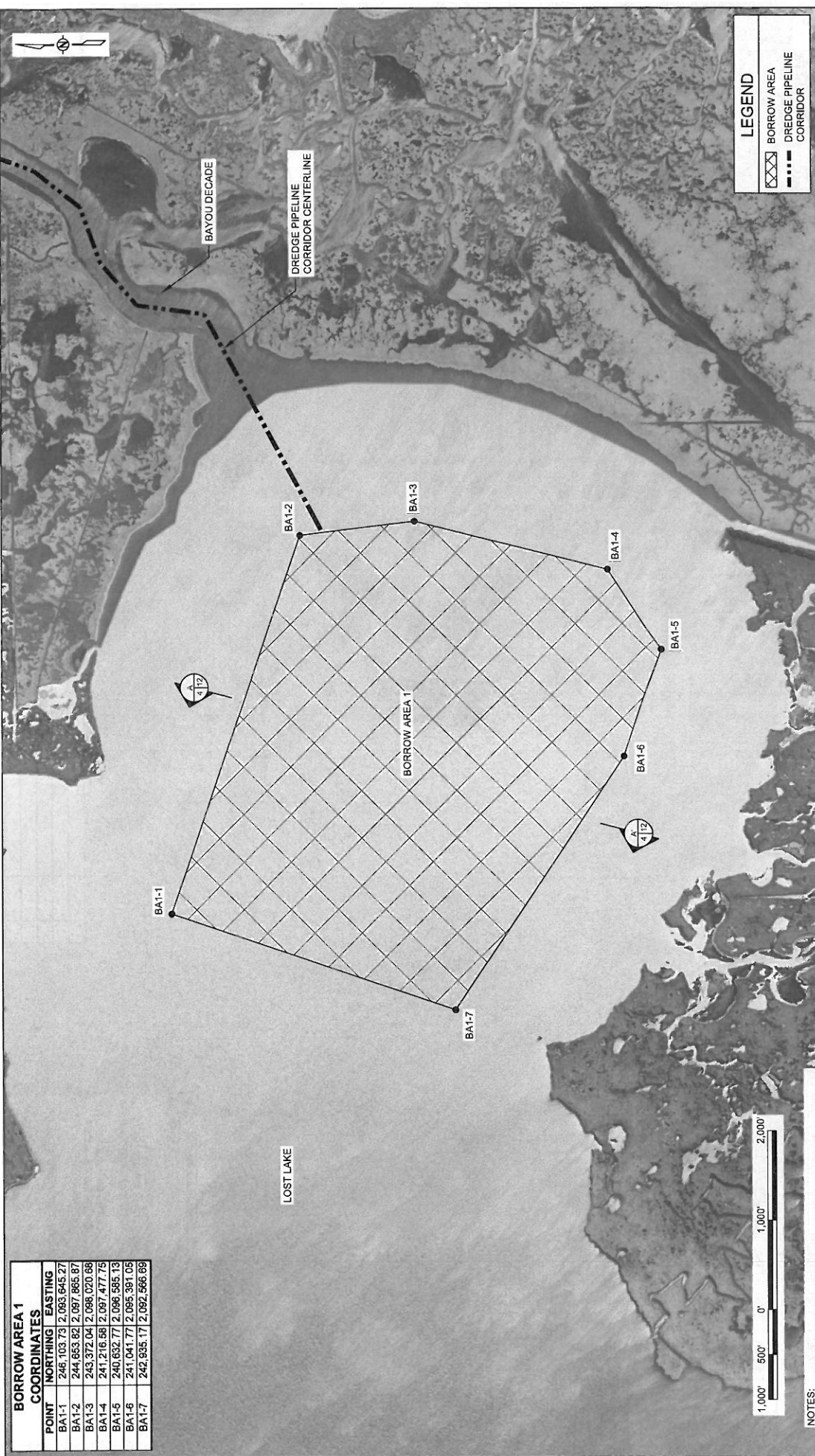
REV.	DATE	DESCRIPTION

- NOTES:**
- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 - PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, MARSH CREATION AREAS, OR DREDGE PIPELINE CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
 - DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
 - CONSTRUCTION EQUIPMENT ACCESS TO EACH BORROW AREA SHALL BE THROUGH NAVIGABLE WATERWAYS AND SHALL NOT DISTURB EXISTING WATER BOTTOMS.





BORROW AREA 1 COORDINATES		
POINT	NORTHING	EASTING
BA1-1	245,103.73	2,093,845.27
BA1-2	244,653.82	2,097,865.87
BA1-3	243,372.04	2,098,020.68
BA1-4	241,216.58	2,097,477.75
BA1-5	240,632.77	2,098,595.13
BA1-6	241,041.77	2,095,391.05
BA1-7	242,935.17	2,092,566.89



LEGEND	
	BORROW AREA
	DREDGE PIPELINE CORRIDOR

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	
STATE PROJECT NUMBER: TE-72	BORROW AREA 1 LAYOUT
FEDERAL PROJECT NUMBER: TE-72	DATE: SEPTEMBER 2012
APPROVED BY: JASON LANGLOR, P.E.	SHEET 4 OF 08

COASTAL PROTECTION AND RESTORATION AUTHORITY	
490 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DESIGNED BY: TRAVIS BYLAND, E.I.	BY
DRAWN BY: SIANE FAUST	DESCRIPTION
REV.	DATE



- NOTES:
- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 - PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 - A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO MOBILIZATION.
 - THE MAXIMUM PERMITTED DEPTH FOR DREDGING IS +15.0' NAVD 88.



MARSH CREATION AREA 1 COORDINATES		
POINT	NORTHING	EASTING
1	309,186.79	3,386,344.21
2	309,003.87	3,385,480.59
3	310,486.64	3,385,639.50
4	310,874.98	3,386,047.81
5	311,145.60	3,386,226.90
6	311,429.99	3,386,985.07
7	311,554.99	3,386,970.68
8	311,883.78	3,387,504.89
9	312,450.09	3,388,032.04
10	312,691.01	3,388,215.96
11	313,441.42	3,389,660.05
12	313,989.52	3,390,462.56
13	314,444.10	3,391,815.66
14	314,597.98	3,392,544.13
15	314,691.84	3,393,128.23
16	314,819.12	3,393,847.41
17	314,755.82	3,393,825.33
18	314,453.08	3,394,237.70
19	314,325.28	3,394,377.40
20	313,773.77	3,392,063.59
21	313,314.17	3,391,082.01
22	312,908.31	3,390,724.56
23	312,657.87	3,390,960.06
24	312,325.21	3,391,034.33
25	311,977.48	3,391,070.19

MARSH CREATION AREA 1 COORDINATES		
POINT	NORTHING	EASTING
26	311,830.72	3,391,257.34
27	311,757.81	3,391,248.36
28	311,532.92	3,391,077.76
29	311,344.05	3,391,052.51
30	310,754.42	3,391,136.20
31	309,997.97	3,391,048.48
32	309,559.97	3,390,917.30
33	309,515.70	3,390,517.07
34	309,451.24	3,390,263.35
35	309,490.04	3,390,251.83
36	309,707.94	3,390,361.39
37	310,768.78	3,390,481.92
38	311,370.12	3,390,544.15
39	311,622.31	3,390,960.72
40	311,807.29	3,390,960.72
41	311,850.89	3,399,706.83
42	311,768.80	3,399,407.96
43	311,598.82	3,399,069.83
44	311,309.80	3,398,915.26
45	311,216.48	3,398,660.15
46	311,182.14	3,398,135.99
47	310,928.98	3,397,341.07
48	310,854.27	3,397,214.77
49	310,034.54	3,396,828.57
50	309,768.12	3,396,741.34
51	309,512.42	3,396,446.31

LEGEND	
	MARSH CREATION AREA
	PIPELINE
	DREDGE PIPELINE CORRIDOR
	SETTLEMENT PLATE

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	
STATE PROJECT NUMBER: TE-72	FEDERAL PROJECT NUMBER: TE-72
APPROVED BY: JASON LANGLIS, P.E.	
DATE: SEPTEMBER 2012	
SHEET 5 OF 08	

COASTAL PROTECTION AND RESTORATION AUTHORITY	
450 LAUREL STREET	
BATON ROUGE, LOUISIANA 70801	
DESIGNED BY: TRAVIS BYLAND, E.I.	BY:
DRAWN BY: SHANE FAUST	DESCRIPTION:
DATE:	REV.:

- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 2. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 3. DO NOT EXCAVATE ANCHOR OR SPUD WITHIN 50' OF ALL PIPELINES.
 4. DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
 5. APPROXIMATE ACREAGE FOR MARSH CREATION AREA 1 IS 280.

MARSH CREATION AREA 2A COORDINATES		
POINT	NORTHING	EASTING
A1	312,941.33	3,386,408.94
A2	313,180.63	3,386,370.39
A3	313,298.00	3,386,354.98
A4	313,388.13	3,386,305.04
A5	313,440.23	3,386,242.41
A6	313,522.95	3,386,163.72
A7	313,659.33	3,386,096.22
A8	314,848.84	3,387,483.24
A9	315,315.53	3,388,007.11
A10	315,431.36	3,386,088.81
A11	315,349.80	3,386,394.72
A12	315,281.00	3,388,435.30
A13	315,157.14	3,388,442.66
A14	315,023.00	3,386,382.10
A15	314,930.47	3,388,231.80
A16	314,756.39	3,388,304.83
A17	314,317.98	3,388,323.42
A18	314,319.98	3,388,221.55
A19	314,310.03	3,388,166.35
A20	314,238.04	3,388,030.04
A21	314,169.96	3,387,947.27
A22	314,064.52	3,387,841.94
A23	313,996.06	3,387,789.06
A24	313,918.78	3,387,692.00
A25	313,784.66	3,387,664.66
A26	313,823.51	3,387,533.34
A27	313,664.13	3,387,347.02
A28	313,618.92	3,387,318.07
A29	313,540.86	3,387,224.77
A30	313,502.04	3,387,146.09
A31	313,083.90	3,386,638.40
A32	313,007.68	3,386,596.01
A33	312,940.91	3,386,559.98
A34	312,896.20	3,386,528.83
A35	312,886.16	3,386,503.64



LEGEND	
[Hatched Box]	MARSH CREATION AREA
[Solid Line]	PIPELINE
[Dashed Line]	DREDGE PIPELINE
[Dotted Line]	CORRIDOR
[Square]	SETTLEMENT PLATE

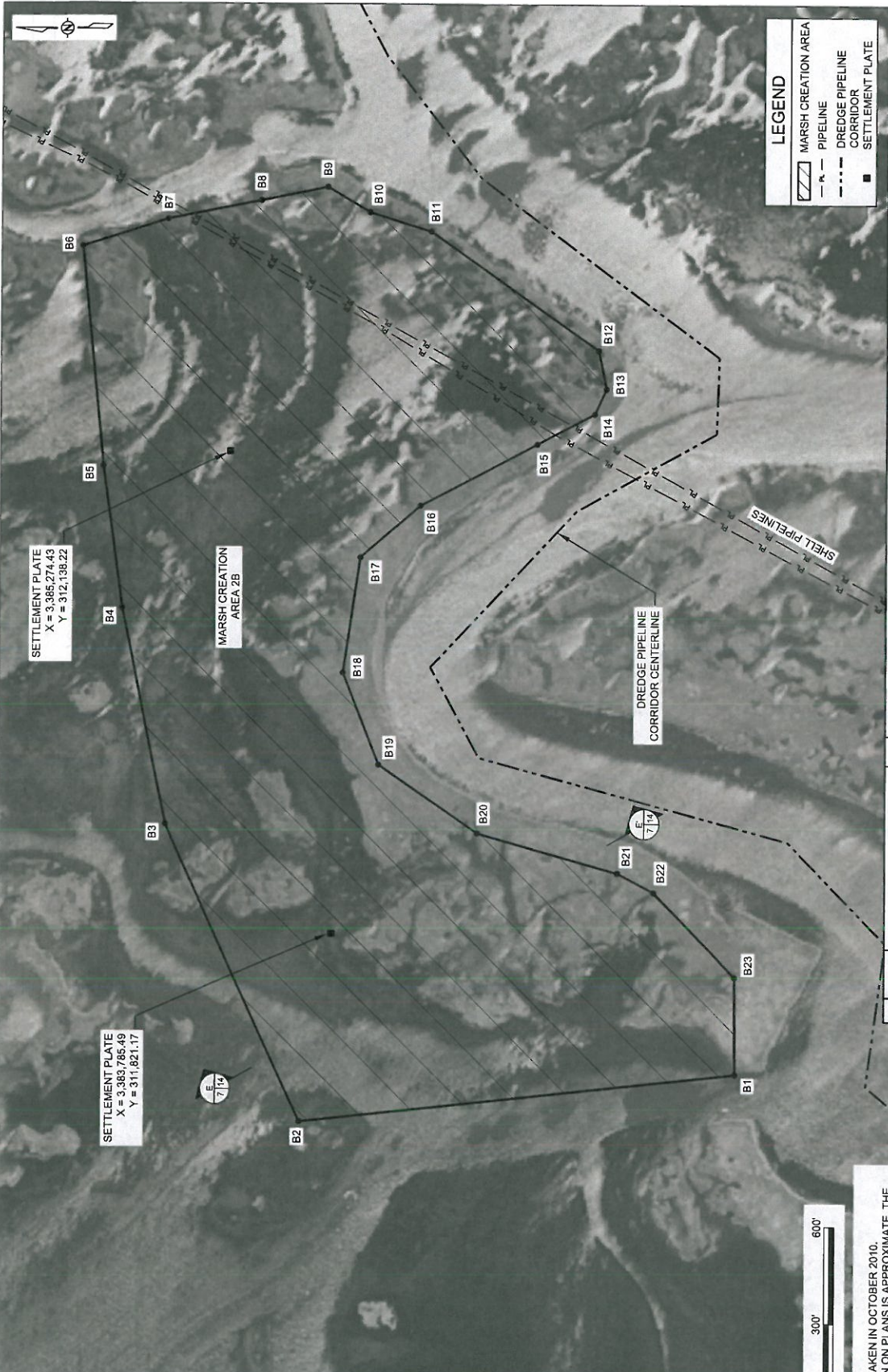


- NOTES:
- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 - PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 - DO NOT EXCAVATE ANCHOR OR SPUD WITHIN 50' OF ALL PIPELINES.
 - DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
 - APPROXIMATE ACREAGE FOR MARSH CREATION AREA 2A IS 50.6.

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: TE-72	
DESIGNED BY: SHANE FAUST		FEDERAL PROJECT NUMBER: TE-72	
DRAWN BY: TRAVIS BYLAND, E.I.		APPROVED BY: JASON LANGLAS, P.E.	
DATE: SEPTEMBER 2012		SHEET 6 OF 68	

MARSH CREATION AREA 2B		
POINT	NORTHING	EASTING
B1	310,570.18	3,383,385.04
B2	311,917.05	3,383,205.14
B3	312,335.05	3,384,122.40
B4	312,473.35	3,384,789.39
B5	312,534.86	3,385,227.46
B6	312,803.42	3,385,906.57
B7	312,338.59	3,385,991.32
B8	312,047.56	3,386,049.72
B9	311,945.23	3,386,092.04
B10	311,712.89	3,386,013.71
B11	311,524.58	3,385,955.48
B12	311,002.00	3,385,598.67
B13	310,877.64	3,385,470.26
B14	311,013.48	3,385,392.64
B15	311,191.02	3,385,298.61
B16	311,552.23	3,385,108.63
B17	311,738.61	3,384,948.05
B18	311,789.67	3,384,592.11
B19	311,677.95	3,384,307.55
B20	311,372.24	3,384,097.41
B21	310,896.65	3,383,975.46
B22	310,824.37	3,383,915.96
B23	310,572.86	3,383,655.43



LEGEND

- MARSH CREATION AREA
- PIPELINE
- DREDGE PIPELINE CORRIDOR CENTERLINE
- PIPELINE CORRIDOR
- SETTLEMENT PLATE



- NOTES:**
- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 - PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 - DO NOT EXCAVATE, ANCHOR, OR SPUD WITHIN 50' OF ALL PIPELINES.
 - DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
 - APPROXIMATE ACREAGE FOR MARSH CREATION AREA 2B IS 71.6.

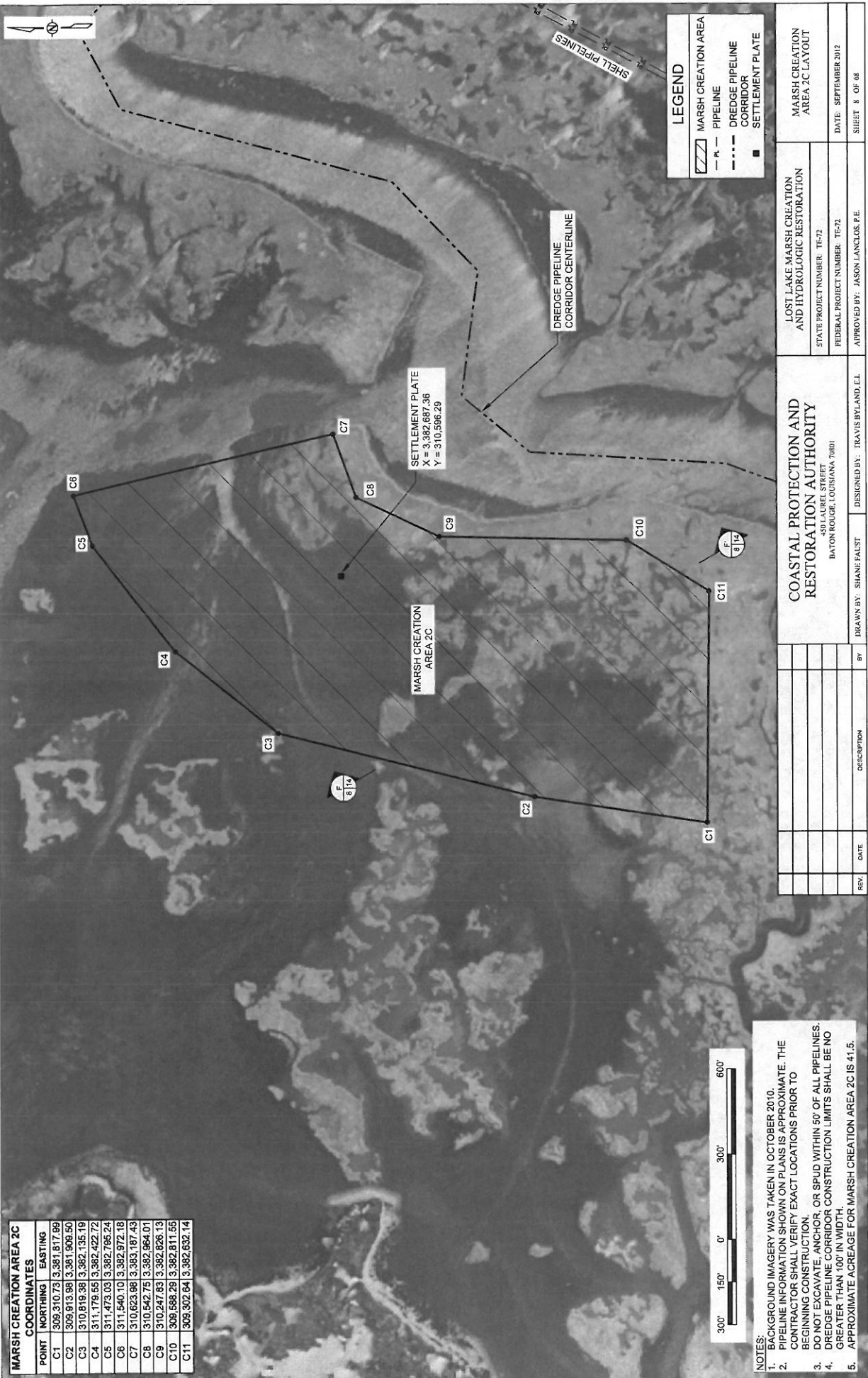
COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DESIGNED BY: TRAVIS BYLAND, E.I.
 DRAWN BY: SHANE FAUST

LOST LAKE MARSH RESTORATION AND HYDROLOGIC RESTORATION
 STATE PROJECT NUMBER: TE-72
 FEDERAL PROJECT NUMBER: TE-72
 APPROVED BY: JASON LANGLIS, P.E.

DATE: SEPTEMBER 2012
 SHEET 7 OF 68

REF.	DATE	DESCRIPTION	BY



MARSH CREATION AREA 2C COORDINATES

POINT	NORTHING	EASTING
C1	309,310.73	3,381,817.99
C2	309,913.98	3,381,909.50
C3	310,819.38	3,382,135.10
C4	311,179.55	3,382,422.72
C5	311,473.03	3,382,795.24
C6	311,540.10	3,382,972.18
C7	310,623.98	3,383,187.43
C8	310,542.75	3,382,964.01
C9	310,247.83	3,382,826.13
C10	309,688.29	3,382,811.55
C11	309,302.64	3,382,632.14

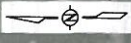
LEGEND

[Hatched Box]	MARSH CREATION AREA
[Solid Line]	PIPELINE
[Dashed Line]	DREDGE PIPELINE CORRIDOR
[Solid Line]	SETTLEMENT PLATE

NOTES:

- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
- PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
- DO NOT EXCAVATE, ANCHOR, OR SPUD WITHIN 50' OF ALL PIPELINES.
- DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
- APPROXIMATE ACREAGE FOR MARSH CREATION AREA 2C IS 41.5.

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION STATE PROJECT NUMBER: TE-72 FEDERAL PROJECT NUMBER: TE-72		MARSH CREATION AREA 2C LAYOUT
		DESIGNED BY: TRAVIS BYLAND, E.I. DRAWN BY: SHANI FAUST		DATE: SEPTEMBER 2012 SHEET 8 OF 68
REV.	DATE	DESCRIPTION	BY	APPROVED BY: JASON LANCLUS, P.E.

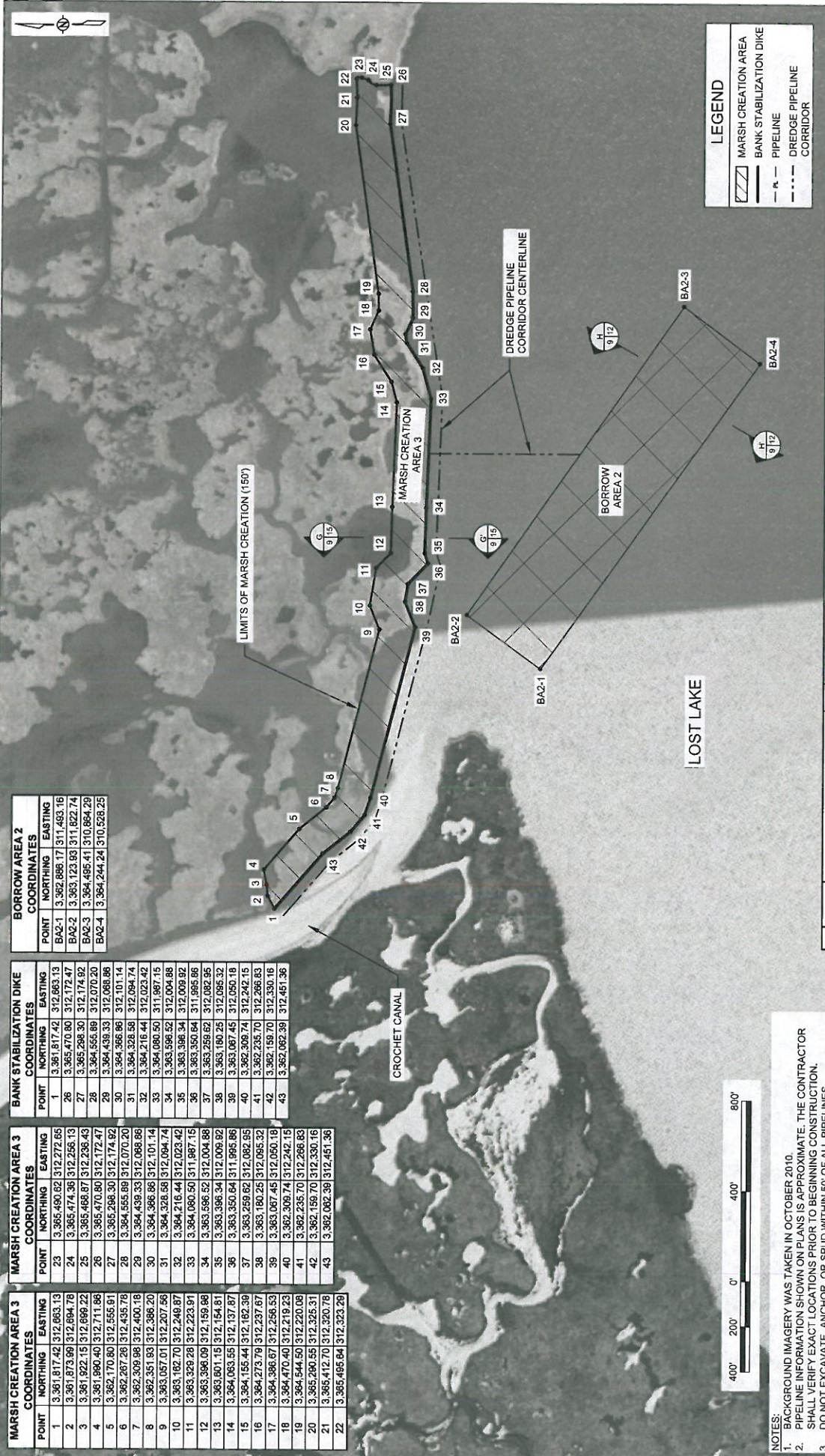


POINT	NORTHING	EASTING
1	3,361,817.42	312,663.13
2	3,361,817.42	312,663.13
3	3,361,817.42	312,663.13
4	3,361,817.42	312,663.13
5	3,361,817.42	312,663.13
6	3,361,817.42	312,663.13
7	3,361,817.42	312,663.13
8	3,361,817.42	312,663.13
9	3,361,817.42	312,663.13
10	3,361,817.42	312,663.13
11	3,361,817.42	312,663.13
12	3,361,817.42	312,663.13
13	3,361,817.42	312,663.13
14	3,361,817.42	312,663.13
15	3,361,817.42	312,663.13
16	3,361,817.42	312,663.13
17	3,361,817.42	312,663.13
18	3,361,817.42	312,663.13
19	3,361,817.42	312,663.13
20	3,361,817.42	312,663.13
21	3,361,817.42	312,663.13
22	3,361,817.42	312,663.13

POINT	NORTHING	EASTING
23	3,365,490.62	312,272.65
24	3,365,474.36	312,256.13
25	3,365,468.87	312,239.43
26	3,365,470.80	312,172.47
27	3,365,298.30	312,174.92
28	3,364,438.33	312,083.86
29	3,364,328.58	312,094.74
30	3,364,216.44	312,023.42
31	3,363,998.54	312,009.82
32	3,363,596.62	312,002.95
33	3,363,350.64	311,995.86
34	3,363,180.25	312,002.95
35	3,363,067.45	312,242.15
36	3,362,967.74	312,286.83
37	3,362,932.57	312,290.16
38	3,362,932.57	312,290.16
39	3,362,932.57	312,290.16
40	3,362,932.57	312,290.16
41	3,362,932.57	312,290.16
42	3,362,932.57	312,290.16
43	3,362,932.57	312,290.16

POINT	NORTHING	EASTING
1	3,361,817.42	312,663.13
26	3,365,470.80	312,172.47
27	3,365,298.30	312,174.92
28	3,364,438.33	312,083.86
29	3,364,328.58	312,094.74
30	3,364,216.44	312,023.42
31	3,363,998.54	312,009.82
32	3,363,596.62	312,002.95
33	3,363,350.64	311,995.86
34	3,363,180.25	312,002.95
35	3,363,067.45	312,242.15
36	3,362,967.74	312,286.83
37	3,362,932.57	312,290.16
38	3,362,932.57	312,290.16
39	3,362,932.57	312,290.16
40	3,362,932.57	312,290.16
41	3,362,932.57	312,290.16
42	3,362,932.57	312,290.16
43	3,362,932.57	312,290.16

POINT	NORTHING	EASTING
BA2-1	3,362,888.17	311,483.16
BA2-2	3,363,123.83	311,822.74
BA2-3	3,364,495.41	310,864.29
BA2-4	3,364,244.24	310,528.25



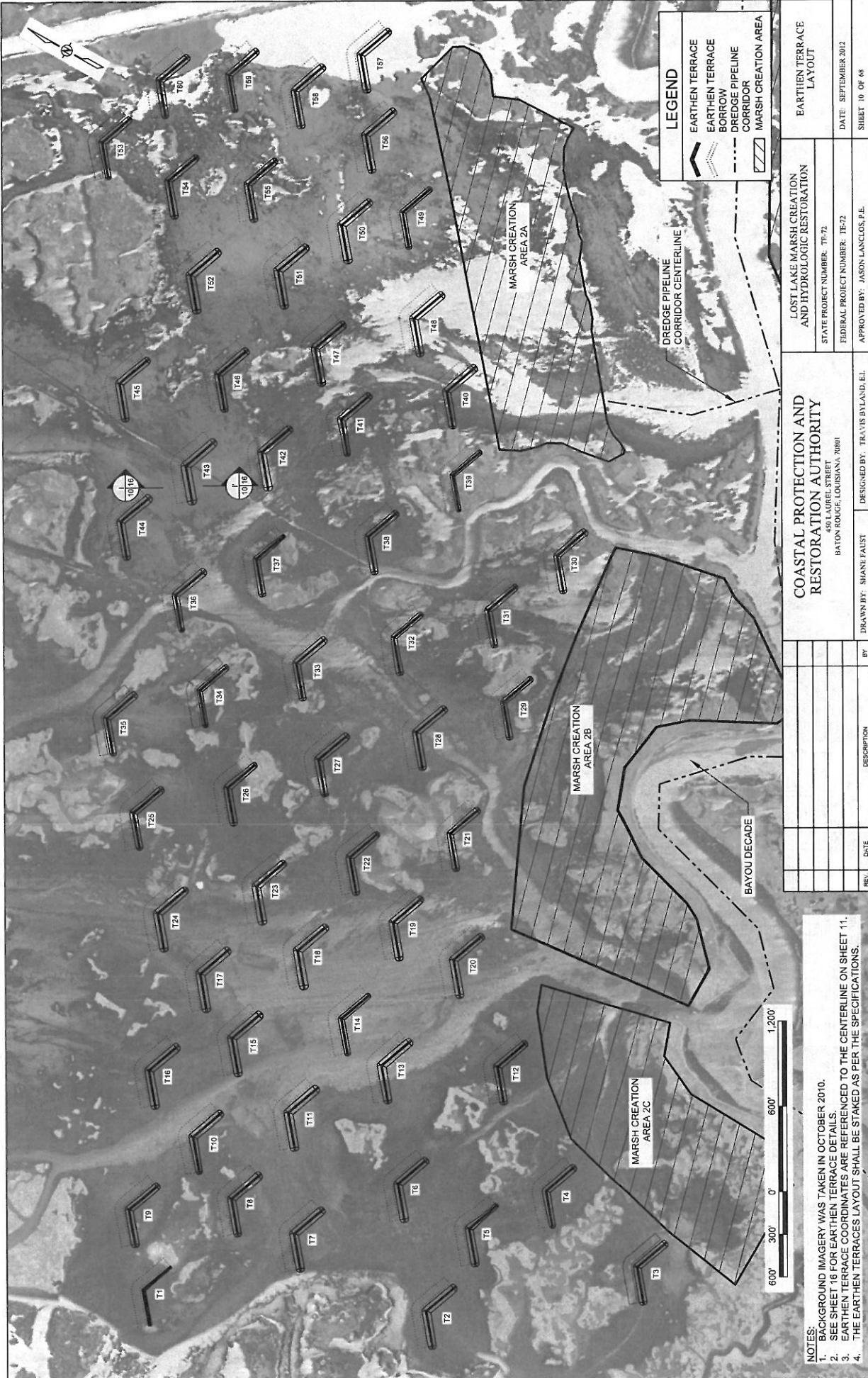
[Hatched Area]	MARSH CREATION AREA
[Solid Line]	BANK STABILIZATION DIKE
[Dashed Line]	PIPELINE
[Dash-dot Line]	DREDGE PIPELINE
[Dotted Line]	CORRIDOR

BY	DESCRIPTION	DATE	REV.

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
 STATE PROJECT NUMBER: TE-72
 FEDERAL PROJECT NUMBER: TE-77
 APPROVED BY: JASON LANGLUIS, P.E.
 DATE: SEPTEMBER 2012
 SHEET 9 OF 08

- NOTES:**
- BACKGROUND IMAGERY WAS TAKEN IN OCTOBER 2010.
 - PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 - DO NOT EXCAVATE, ANCHOR, OR SPUD WITHIN 50' OF ALL PIPELINES.
 - DREDGE PIPELINE CORRIDOR CONSTRUCTION LIMITS SHALL BE NO GREATER THAN 100' IN WIDTH.
 - THE BANK STABILIZATION DIKE SHALL BE CONSTRUCTED USING IN-SITU MATERIAL. THE LOCATION OF THE CONTRACTOR'S DREDGE PIPELINE CORRIDOR SHALL BE SHOWN IN THE WORK PLAN AND SUBMITTED FOR APPROVAL.
 - APPROXIMATE ACREAGE FOR MARSH CREATION AREA 3 IS 13.2.



REV.	DATE	DESCRIPTION	BY

EARTHEN TERRACE COORDINATES		
TERRACE	NORTHING	EASTING
T1	3,379,523.82	312,754.60
	3,379,716.16	312,914.30
	3,379,950.64	312,827.57
T2	3,380,361.03	310,951.29
	3,380,573.38	311,110.99
	3,380,807.85	311,024.27
T3	3,381,369.46	309,814.77
	3,381,581.80	309,974.47
	3,381,816.28	309,887.75
T4	3,381,536.25	310,633.52
	3,381,728.59	310,793.22
	3,381,963.07	310,706.49
T5	3,381,036.11	310,976.42
	3,381,228.46	311,136.12
	3,381,462.93	311,049.39
T6	3,381,060.88	311,566.56
	3,381,253.02	311,726.26
	3,381,487.50	311,639.54
T7	3,380,393.60	312,028.08
	3,380,585.95	312,187.76
	3,380,820.42	312,101.06
T8	3,380,388.44	312,532.85
	3,380,580.78	312,692.55
	3,380,815.26	312,605.82
T9	3,379,965.26	313,121.43
	3,380,157.60	313,281.13
	3,380,392.07	313,194.40
T10	3,373,985.59	3,380,831.23
	3,373,145.28	3,380,823.58
	3,373,068.56	3,381,068.05
T11	3,372,464.78	3,381,114.82
	3,372,644.48	3,381,307.16
	3,372,885.76	3,381,541.64
T12	3,371,365.13	3,382,124.53
	3,371,524.83	3,382,316.87
	3,371,438.11	3,382,551.35
T13	3,381,728.95	312,079.19
	3,381,919.30	312,238.89
	3,382,153.77	312,152.17
T14	3,381,873.43	312,489.05
	3,382,065.77	312,648.75
	3,382,300.25	312,562.02
T15	3,381,372.05	313,089.21
	3,381,564.40	313,248.91
	3,381,798.87	313,162.18
T16	3,380,885.05	313,486.00
	3,381,075.40	313,645.70
	3,381,309.87	313,558.88
T17	3,381,652.93	313,509.67
	3,381,845.28	313,669.37
	3,382,079.75	313,582.64

EARTHEN TERRACE COORDINATES		
TERRACE	NORTHING	EASTING
T18	3,382,137.08	312,991.21
	3,382,329.43	313,150.91
	3,382,563.90	313,064.18
T19	3,382,641.91	312,507.30
	3,382,834.26	312,667.00
	3,383,068.73	312,580.27
T20	3,382,624.85	312,008.92
	3,382,816.99	312,168.62
	3,383,051.47	312,079.89
T21	3,383,383.25	312,468.09
	3,383,575.59	312,627.79
	3,383,810.07	312,541.07
T22	3,382,889.18	312,999.65
	3,383,081.52	313,159.35
	3,383,316.00	313,073.62
T23	3,382,386.99	313,467.12
	3,382,578.34	313,626.82
	3,382,813.81	313,540.09
T24	3,381,874.54	313,979.51
	3,382,066.89	314,138.21
	3,382,301.36	314,052.48
T25	3,382,403.43	314,477.65
	3,382,595.78	314,637.34
	3,382,830.25	314,550.62
T26	3,382,888.41	313,987.88
	3,383,078.76	314,147.38
	3,383,313.23	314,060.65
T27	3,383,379.01	313,529.03
	3,383,571.35	313,688.73
	3,383,805.83	313,602.01
T28	3,383,885.79	313,025.57
	3,384,078.14	313,185.27
	3,384,312.61	313,098.54
T29	3,384,374.73	312,597.62
	3,384,567.07	312,757.32
	3,384,801.55	312,670.59
T30	3,385,458.61	312,775.67
	3,385,650.95	312,935.37
	3,385,885.43	312,848.64
T31	3,384,882.86	313,011.03
	3,385,075.21	313,170.73
	3,385,309.68	313,084.00
T32	3,384,386.46	313,494.73
	3,384,578.81	313,654.43
	3,384,813.28	313,567.71
T33	3,383,889.94	313,999.31
	3,384,082.29	314,159.01
	3,384,316.76	314,072.29
T34	3,383,381.93	314,501.62
	3,383,574.28	314,661.31
	3,383,808.75	314,574.59

EARTHEN TERRACE COORDINATES		
TERRACE	NORTHING	EASTING
T35	3,382,886.25	314,970.91
	3,383,078.59	315,130.61
	3,383,313.07	315,043.88
T36	3,383,880.63	314,978.74
	3,384,073.17	315,138.44
	3,384,307.65	315,051.72
T37	3,384,386.54	314,606.36
	3,384,578.89	314,766.06
	3,384,813.36	314,676.33
T38	3,384,914.14	314,000.42
	3,385,106.48	314,160.12
	3,385,340.95	314,073.39
T39	3,385,583.38	313,698.34
	3,385,775.72	313,858.04
	3,386,010.19	313,771.31
T40	3,386,074.74	314,027.54
	3,386,267.08	314,187.24
	3,386,501.56	314,100.51
T41	3,385,536.51	314,575.73
	3,385,728.86	314,735.43
	3,385,963.33	314,648.70
T42	3,385,058.47	314,944.94
	3,385,250.81	315,104.64
	3,385,485.29	315,017.91
T43	3,384,705.80	315,387.87
	3,384,898.15	315,527.57
	3,385,132.62	315,440.84
T44	3,384,137.16	315,570.85
	3,384,329.51	315,730.55
	3,384,563.98	315,643.82
T45	3,384,975.93	316,061.03
	3,385,168.27	316,220.72
	3,385,402.74	316,134.00
T46	3,385,380.01	315,483.73
	3,385,572.36	315,643.43
	3,385,806.83	315,556.71
T47	3,385,882.69	314,981.47
	3,386,075.04	315,141.17
	3,386,309.51	315,054.44
T48	3,386,406.83	314,482.08
	3,386,633.65	314,555.03
	3,386,868.18	314,464.76
T49	3,387,016.58	314,921.13
	3,387,208.92	315,080.83
	3,387,443.40	314,994.10
T50	3,386,723.44	315,248.08
	3,386,915.79	315,408.78
	3,387,150.26	315,322.06
T51	3,386,224.57	315,477.81
	3,386,416.91	315,637.51
	3,386,651.39	315,550.78

EARTHEN TERRACE COORDINATES		
TERRACE	NORTHING	EASTING
T52	3,385,886.82	316,004.36
	3,386,079.17	316,164.06
	3,386,313.64	316,077.33
T53	3,386,386.92	317,009.30
	3,386,579.26	317,169.00
	3,386,813.73	317,082.28
T54	3,386,386.23	316,468.03
	3,386,578.57	316,627.73
	3,386,813.05	316,541.00
T55	3,386,645.18	315,967.12
	3,386,837.52	316,126.82
	3,387,071.99	316,040.09
T56	3,387,359.49	315,416.61
	3,387,551.83	315,576.31
	3,387,786.31	315,489.59
T57	3,387,830.67	315,726.40
	3,388,023.01	315,886.09
	3,388,257.49	315,799.37
T58	3,387,383.12	316,004.45
	3,387,575.47	316,164.15
	3,387,809.94	316,077.43
T59	3,387,244.62	316,464.62
	3,387,436.96	316,624.32
	3,387,671.44	316,537.59
T60	3,386,964.26	316,872.94
	3,387,156.60	317,032.64
	3,387,391.08	316,945.91

REV.	DATE	DESCRIPTION	BY

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA, 70801

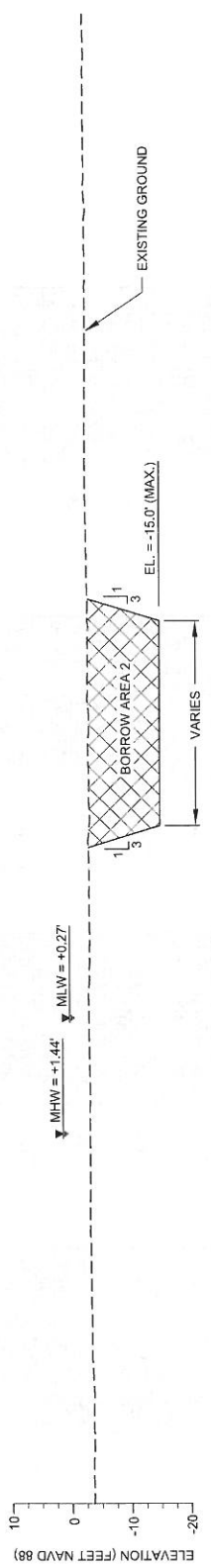
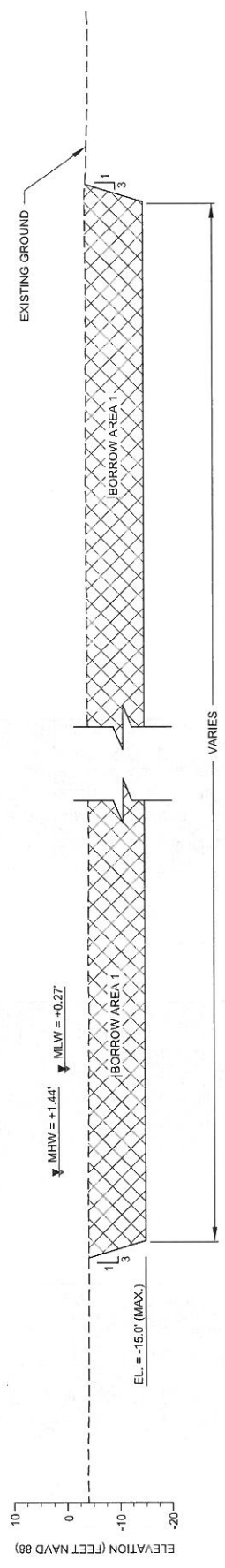
DESIGNED BY: TRAVIS BYLAND, L.E.I.
 DRAWN BY: SHANE FAUST

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TP-72
 FEDERAL PROJECT NUMBER: TP-72

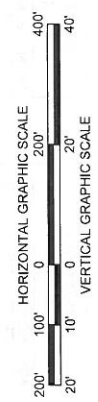
APPROVED BY: JASON LANGLOS, P.E.

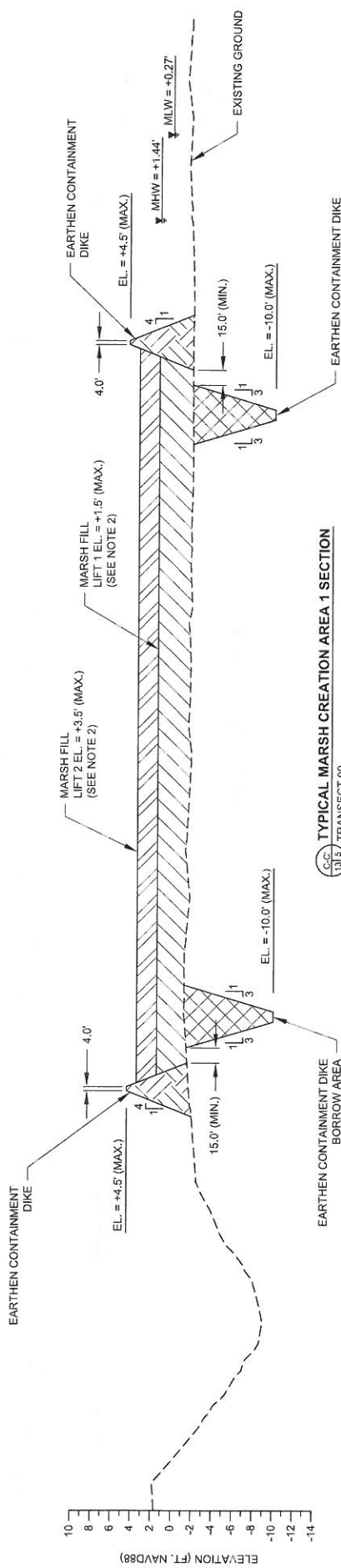
EARTHEN TERRACE COORDINATES
 DATE: SEPTEMBER 30/12
 SHEET 11 OF 68



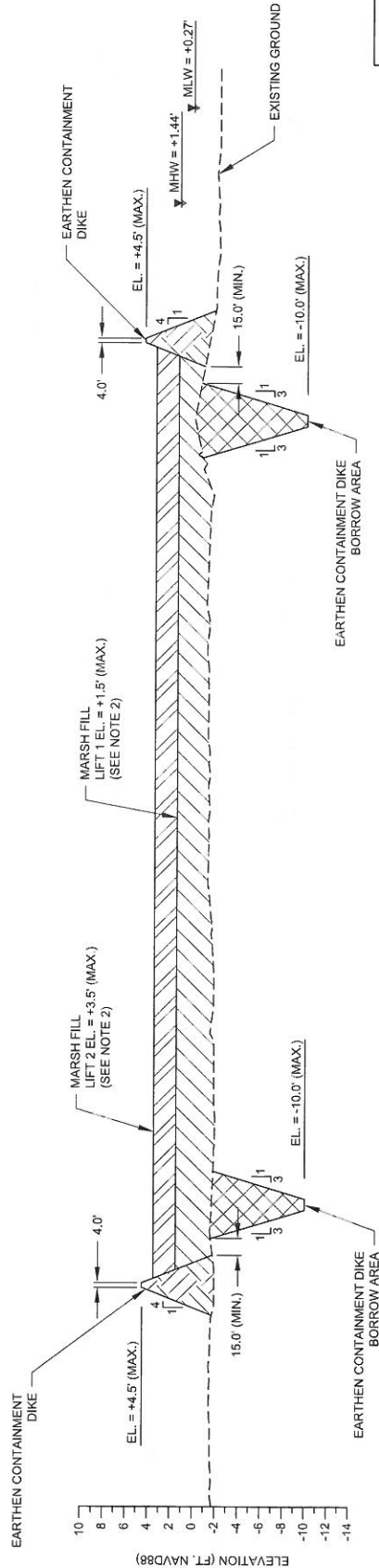
LEGEND	
	BORROW AREA
	EXISTING GROUND

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION STATE PROJECT NUMBER: TP-22 FEDERAL PROJECT NUMBER: TP-72		TYPICAL BORROW AREA SECTIONS		
DRAWN BY: SHANE PAUST		DESIGNED BY: TRAVIS BYLAND, I.L.		DATE: SEPTEMBER 2012		
BY:		APPROVED BY: JASON LANCIOS, P.E.		SHEET 12 OF 68		
REV.	DATE	DESCRIPTION				





TYPICAL MARSH CREATION AREA 1 SECTION
 TRANSECT 99



TYPICAL MARSH CREATION AREA 2A SECTION
 TRANSECT 62

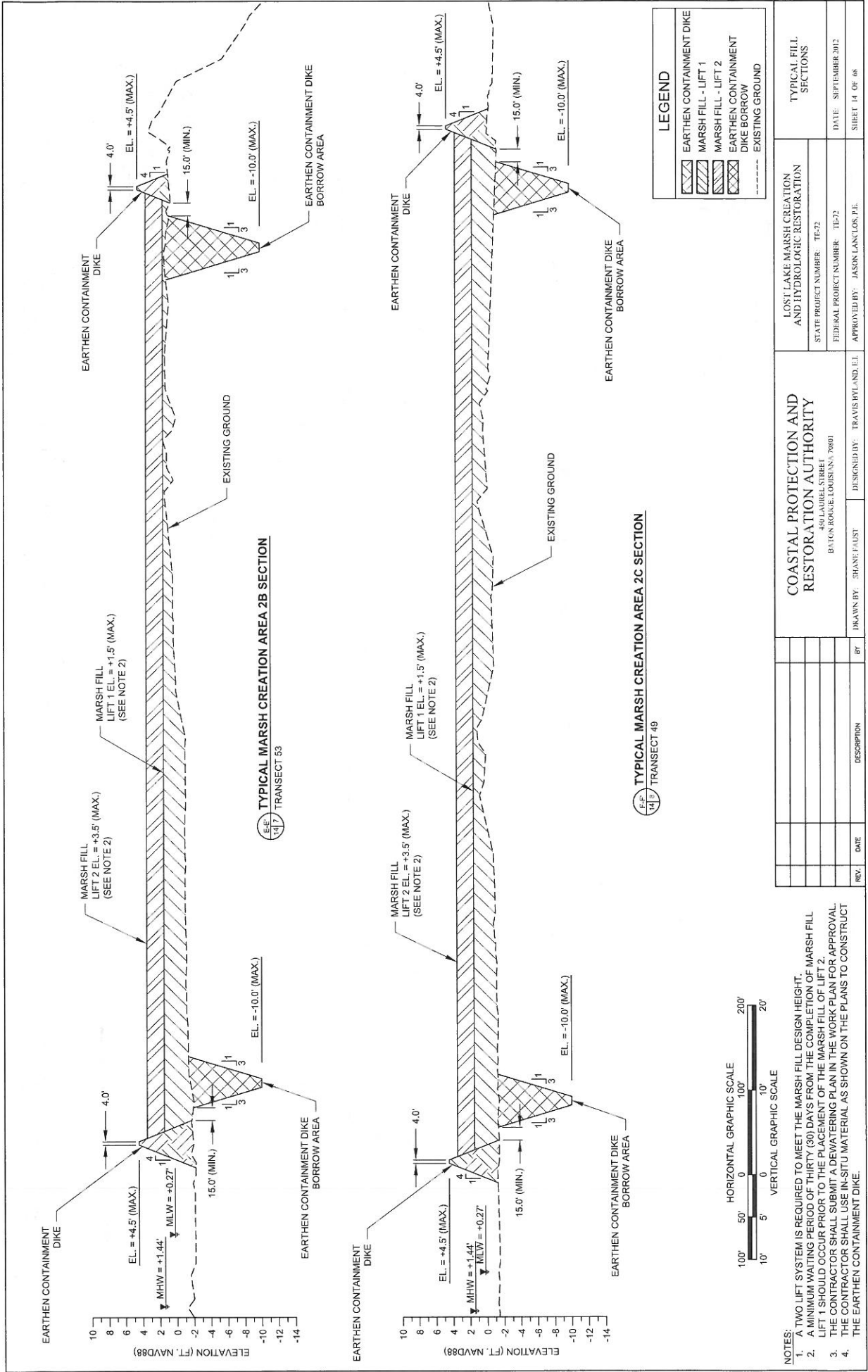


- NOTES:**
1. A TWO LIFT SYSTEM IS REQUIRED TO MEET THE MARSH FILL DESIGN HEIGHT.
 2. A MINIMUM WAITING PERIOD OF THIRTY (30) DAYS FROM THE COMPLETION OF MARSH FILL LIFT 1 SHOULD OCCUR PRIOR TO THE PLACEMENT OF THE MARSH FILL OF LIFT 2.
 3. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN IN THE WORK PLAN FOR APPROVAL.
 4. THE CONTRACTOR SHALL USE IN-SITU MATERIAL AS SHOWN ON THE PLANS TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE.

LEGEND

[Hatched pattern]	EARTHEN CONTAINMENT DIKE
[Diagonal lines]	MARSH FILL - LIFT 1
[Cross-hatched]	MARSH FILL - LIFT 2
[Stippled]	EARTHEN CONTAINMENT DIKE BORROW
[Dashed line]	EXISTING GROUND

COASTAL PROTECTION AND RESTORATION AUTHORITY 490 LAUREL STREET BATON ROUGE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	
STATE PROJECT NUMBER: TE-72	FEDERAL PROJECT NUMBER: 16-72	DATE: SEPTEMBER 2012	TYPICAL FILL SECTIONS
DRAWN BY: SHANE FAUST	DESIGNED BY: TRAVIS BYLAND, E.I.	APPROVED BY: JASON LANKLOS, P.E.	SHEET 13 OF 68



5.6. (4) 7 TYPICAL MARSH CREATION AREA 2B SECTION
TRANSECT 53

5.6. (4) 7 TYPICAL MARSH CREATION AREA 2C SECTION
TRANSECT 49

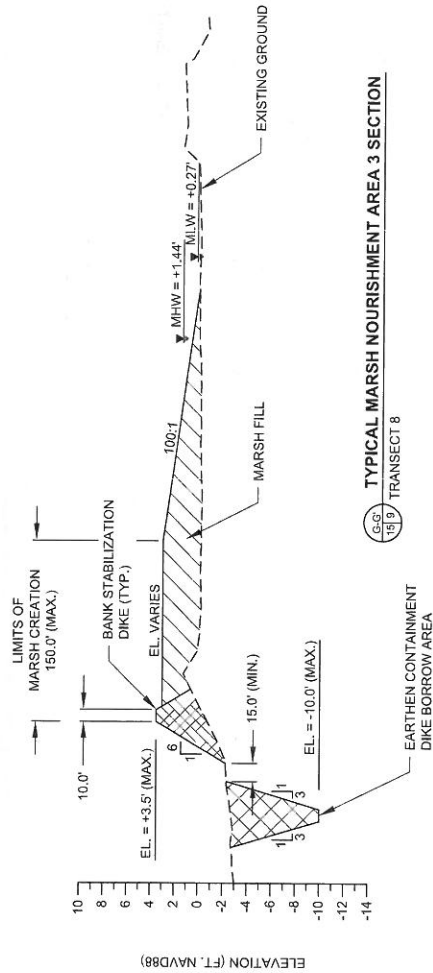
LEGEND

	EARTHEN CONTAINMENT DIKE
	MARSH FILL - LIFT 1
	MARSH FILL - LIFT 2
	EARTHEN CONTAINMENT DIKE BORROW
	EXISTING GROUND

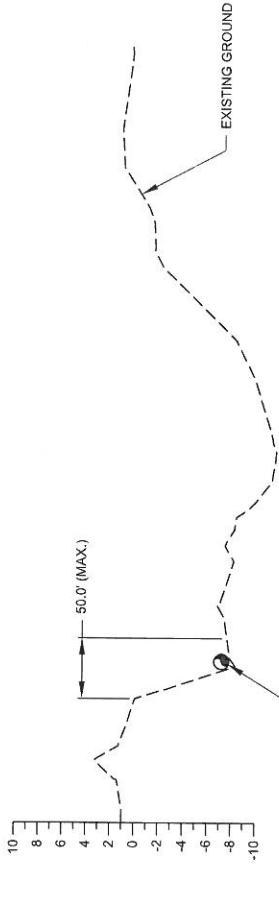
COASTAL PROTECTION AND RESTORATION AUTHORITY 40 LAUREL STREET BAYOU BOULE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION STATE PROJECT NUMBER: TE-22		TYPICAL FILL SECTIONS	
REV.	DATE	DESCRIPTION	BY	FEDERAL PROJECT NUMBER: TE-72	DATE: SEPTEMBER 2012
				APPROVED BY: JASON LANKFOS, P.E.	SHEET 14 OF 68
				DESIGNED BY: TRAVIS RYLAND, E.I.	
				DRAWN BY: SHANTY LUST	

NOTES:

1. A TWO LIFT SYSTEM IS REQUIRED TO MEET THE MARSH FILL DESIGN HEIGHT.
2. A MINIMUM WAITING PERIOD OF THIRTY (30) DAYS FROM THE COMPLETION OF MARSH FILL LIFT 1 SHOULD OCCUR PRIOR TO THE PLACEMENT OF THE MARSH FILL OF LIFT 2.
3. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN IN THE WORK PLAN FOR APPROVAL.
4. THE CONTRACTOR SHALL USE IN-SITU MATERIAL AS SHOWN ON THE PLANS TO CONSTRUCT THE EARTHEN CONTAINMENT DIKE.



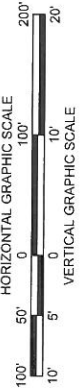
TYPICAL MARSH NOURISHMENT AREA 3 SECTION
 6.6' 19.9' TRANSECT 8



PIPELINE CORRIDOR
 6.8' 19.5' TRANSECT 64

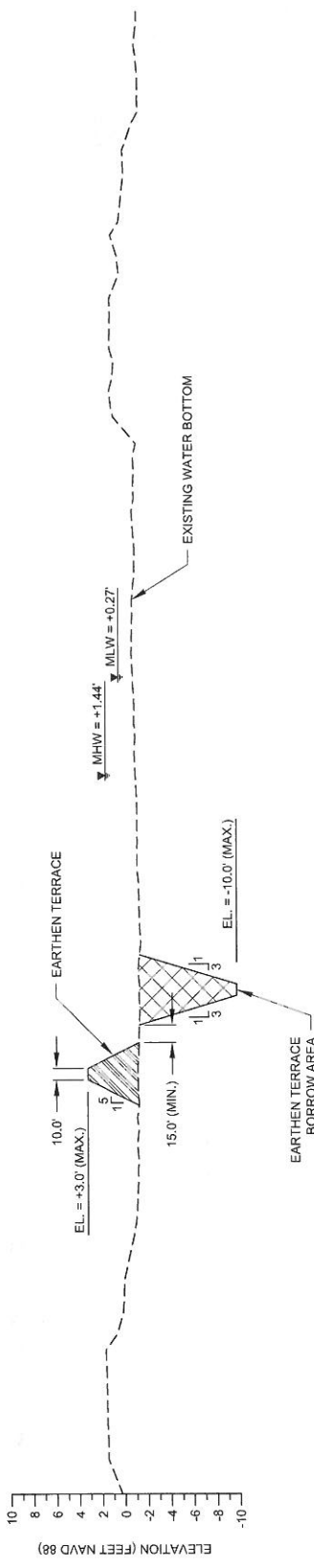
LEGEND

[Hatched pattern]	BANK STABILIZATION DIKE
[Diagonal lines]	MARSH FILL
[Cross-hatched pattern]	EARTHEN CONTAINMENT DIKE BORROW
[Dashed line]	EXISTING GROUND

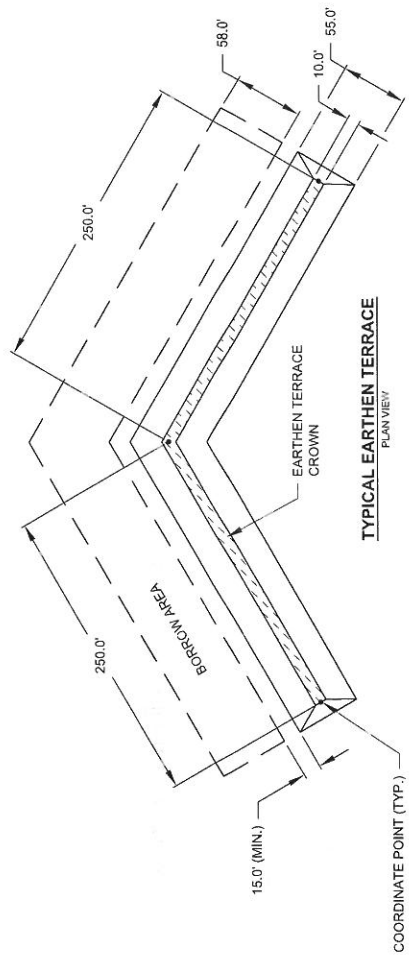


NOTES:
 1. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN IN THE WORK PLAN FOR APPROVAL.
 2. THE CONTRACTOR SHALL USE IN-SITU MATERIAL AS SHOWN ON THE PLANS TO CONSTRUCT THE BANK STABILIZATION CONTAINMENT DIKE.

COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION		TYPICAL MARSH NOURISHMENT AND PIPELINE CORRIDOR SECTIONS	
DESIGNED BY: TRAVIS BYLAND, E.I.	STATE PROJECT NUMBER: TE-72	FEDERAL PROJECT NUMBER: 16-72	DATE: SEPTEMBER, 2012	SUBSET 15 OF 08	
DRAWN BY: SHANE FAUST	APPROVED BY: JASON LANGLIOS, P.E.				
BY	DATE	DESCRIPTION			



TYPICAL EARTHEN TERRACE SECTION
TRANSSECT 43

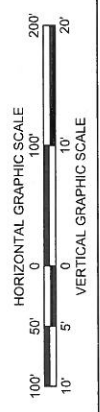


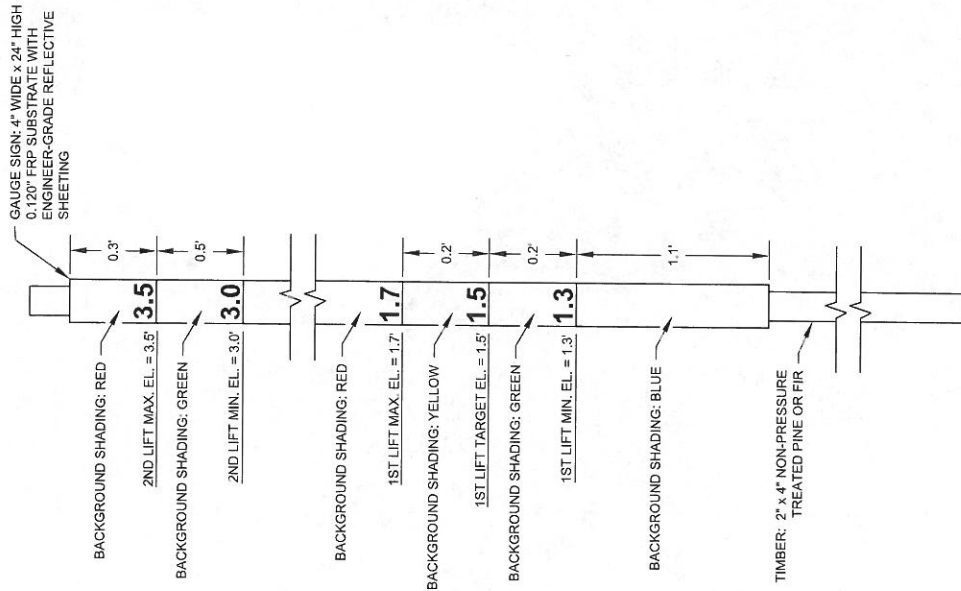
TYPICAL EARTHEN TERRACE
PLAN VIEW

REV.	DATE	DESCRIPTION	BY

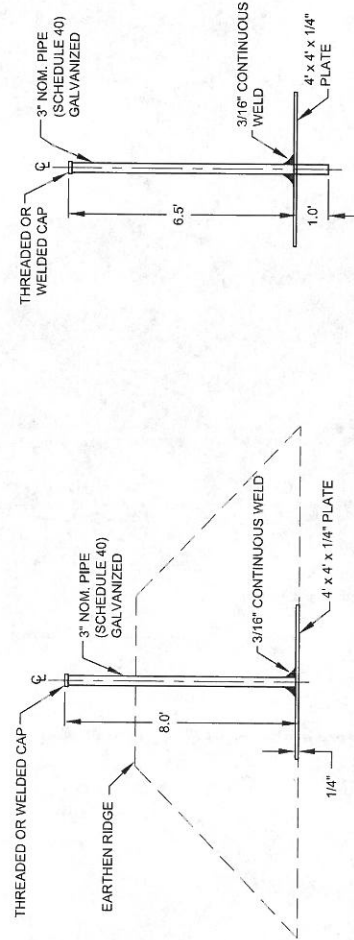
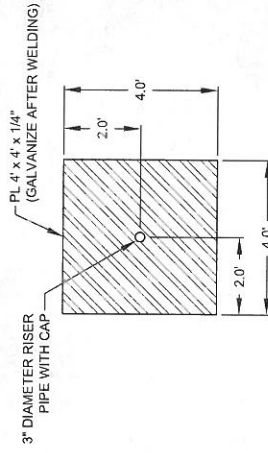
COASTAL PROTECTION AND RESTORATION AUTHORITY
 480 LUIBEL STREET
 BATON ROUGE, LOUISIANA 70801
 DESIGNED BY: TRAVIS BYLAND, P.E.
 DRAWN BY: SHANE FAUST
 APPROVED BY: JASON LANGLON, P.E.

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
 STATE PROJECT NUMBER: TE-2
 FEDERAL PROJECT NUMBER: TE-72
 DATE: SEPTEMBER 2012
 SHEET 16 OF 68





GRADE STAKE
NOT TO SCALE



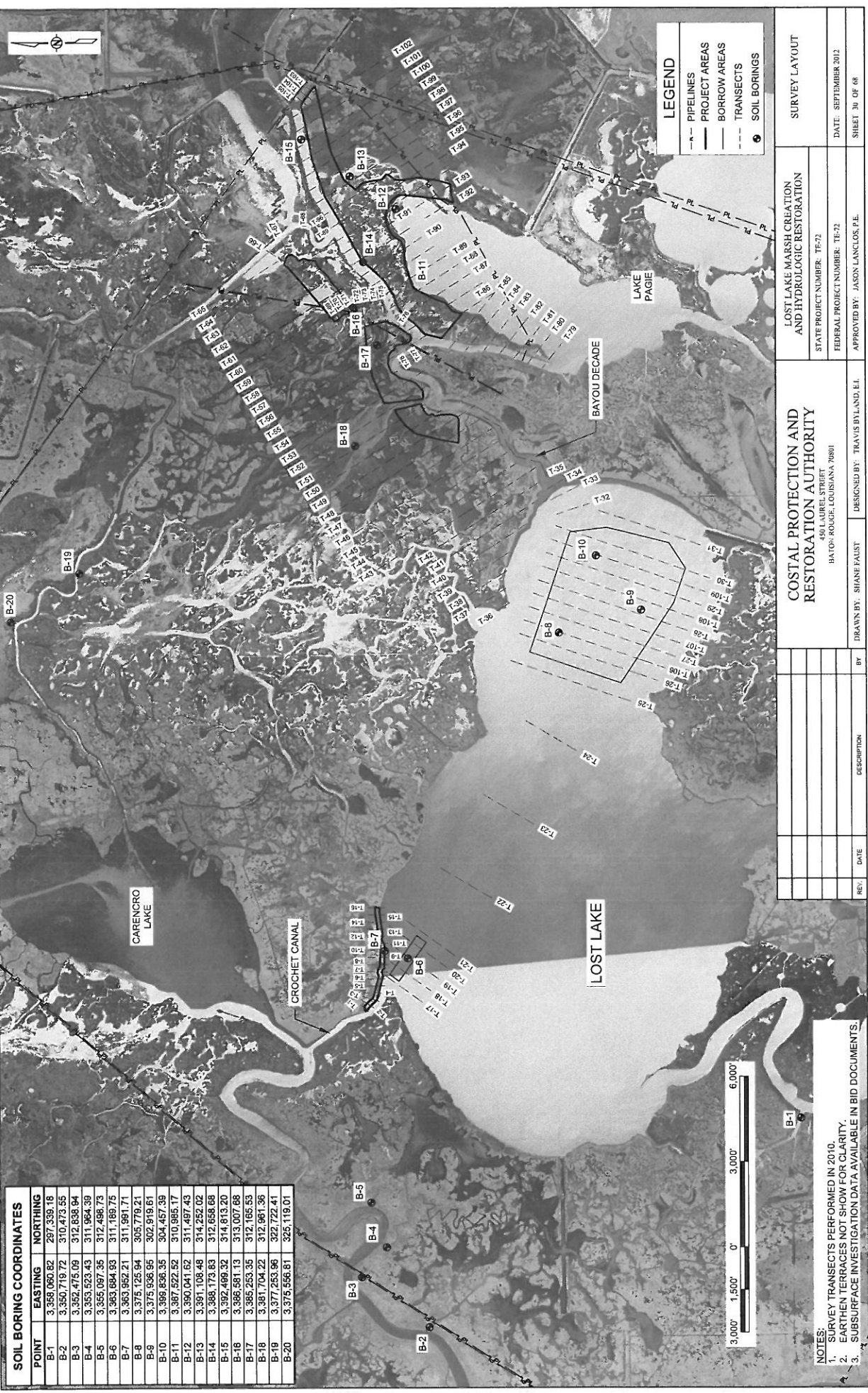
EARTHEN CONTAINMENT DIKE
SETTLEMENT PLATE
(SEE NOTE 2)
NOT TO SCALE

MARSH CREATION AREA
SETTLEMENT PLATE
NOT TO SCALE

SETTLEMENT PLATE NOTES:
1. SETTLEMENT PLATES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. LOCATION AND ELEVATION WILL BE RECORDED DURING AS-BUILT SURVEY.

REV.	DATE	DESCRIPTION	BY	DESIGNED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER:	STATE PROJECT NUMBER:	LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	GRADE STAKE AND SETTLEMENT PLATE DETAILS
				TRAVIS BYLAND, E.L.	JASON LANGLOS, P.E.	TE-72	TE-72		DATE: SEPTEMBER 2012
				SHANE FAUST					SHEET 39 OF 68

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAURIE STREET
BATON ROUGE, LOUISIANA 70801



SOIL BORING COORDINATES		
POINT	EASTING	NORTHING
B-1	3,358,060.82	287,339.18
B-2	3,350,473.72	310,473.55
B-3	3,352,475.09	312,638.94
B-4	3,353,523.43	311,964.39
B-5	3,355,097.35	312,496.73
B-6	3,363,884.93	311,189.75
B-7	3,363,952.21	311,991.71
B-8	3,375,125.94	305,779.21
B-9	3,375,936.95	302,919.61
B-10	3,389,656.35	304,497.99
B-11	3,367,522.52	310,965.17
B-12	3,390,041.62	311,497.43
B-13	3,391,108.48	314,252.02
B-14	3,388,173.83	312,658.68
B-15	3,392,469.32	314,813.20
B-16	3,396,581.13	313,007.68
B-17	3,365,253.35	312,165.53
B-18	3,381,704.22	312,981.36
B-19	3,377,263.96	302,722.41
B-20	3,375,556.81	325,119.01

LEGEND

- A- PIPELINES
- - - PROJECT AREAS
- - - BORROW AREAS
- - - TRANSECTS
- SOIL BORINGS

COSTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION	SURVEY LAYOUT
DRAWN BY: SHANE FAUST		STATE PROJECT NUMBER: TE-72	DATE: SEPTEMBER 2012
DESIGNED BY: TRAVIS BYLAND, E.I.		FEDERAL PROJECT NUMBER: TE-72	APPROVED BY: JASON LANGLIS, P.E.
REV.	DATE	DESCRIPTION	BY

NOTES:
 1. SURVEY TRANSECTS PERFORMED IN 2010.
 2. EARTHEN TERRACES NOT SHOWN FOR CLARITY.
 3. SUBSURFACE INVESTIGATION DATA AVAILABLE IN BID DOCUMENTS.