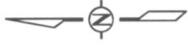
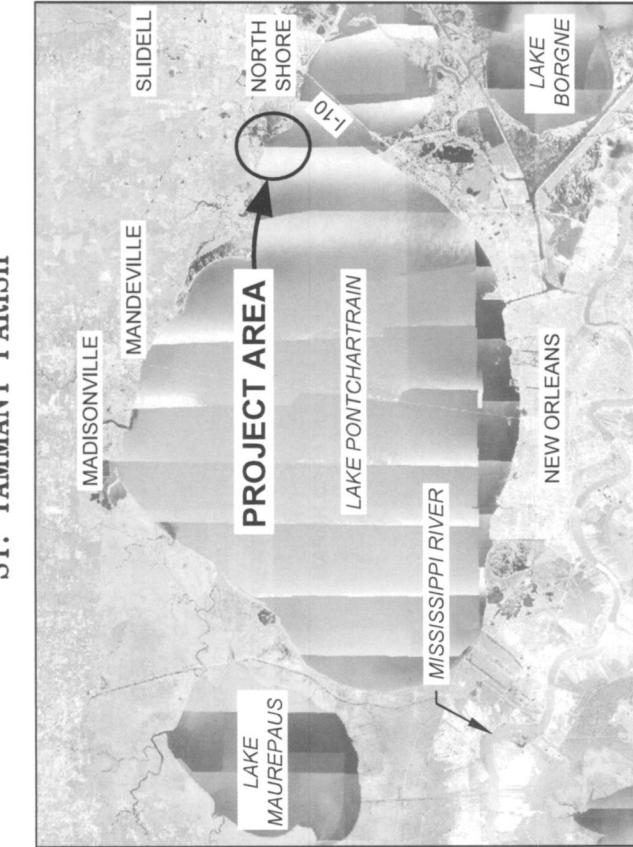


**INDEX TO SHEETS****SHEET NO.**    **DESCRIPTION**

- |         |                              |
|---------|------------------------------|
| 1       | TITLE SHEET                  |
| 2       | PROJECT LAYOUT               |
| 3       | BORROW AREA LAYOUT           |
| 4       | MARSH CREATION AREA 1 LAYOUT |
| 5       | MARSH CREATION AREA 2 LAYOUT |
| 6       | MARSH CREATION AREA 3 LAYOUT |
| 7       | MARSH CREATION AREA 4 LAYOUT |
| 8 - 10  | TYPICAL SECTIONS             |
| 11 - 14 | DETAILS                      |

**STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY**

**BAYOU BONFOUCA  
MARSH CREATION PROJECT**  
**P0-104**

**OFFICE OF COASTAL PROTECTION  
AND RESTORATION**STATE OF LOUISIANA  
INSET MAP

- |                                                 |
|-------------------------------------------------|
| UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) |
| 61389 HWY 434                                   |
| LACOME, LA. 70445                               |

DRAWN BY: K. CANTU

APPLIED BY:  
S. HAYNES, P.E.

DESIGNED BY: S. HAYNES, P.E.

APPROVED BY: J. CARROLL, P.E.

STATE PROJECT NUMBER: PO-104

FEDERAL PROJECT NUMBER: PO-104

DATE: NOVEMBER 2012

SHEET 1 OF 14

APPLICATION BY: UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) 61389 HWY 434 LACOME, LA. 70445	OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU BONFOUCA MARSH CREATION PROJECT	TITLE SHEET
----------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	------------------------------------------	-------------

DRAWN BY: K. CANTU

APPLIED BY:  
S. HAYNES, P.E.

DESIGNED BY: S. HAYNES, P.E.

APPROVED BY: J. CARROLL, P.E.

STATE PROJECT NUMBER: PO-104

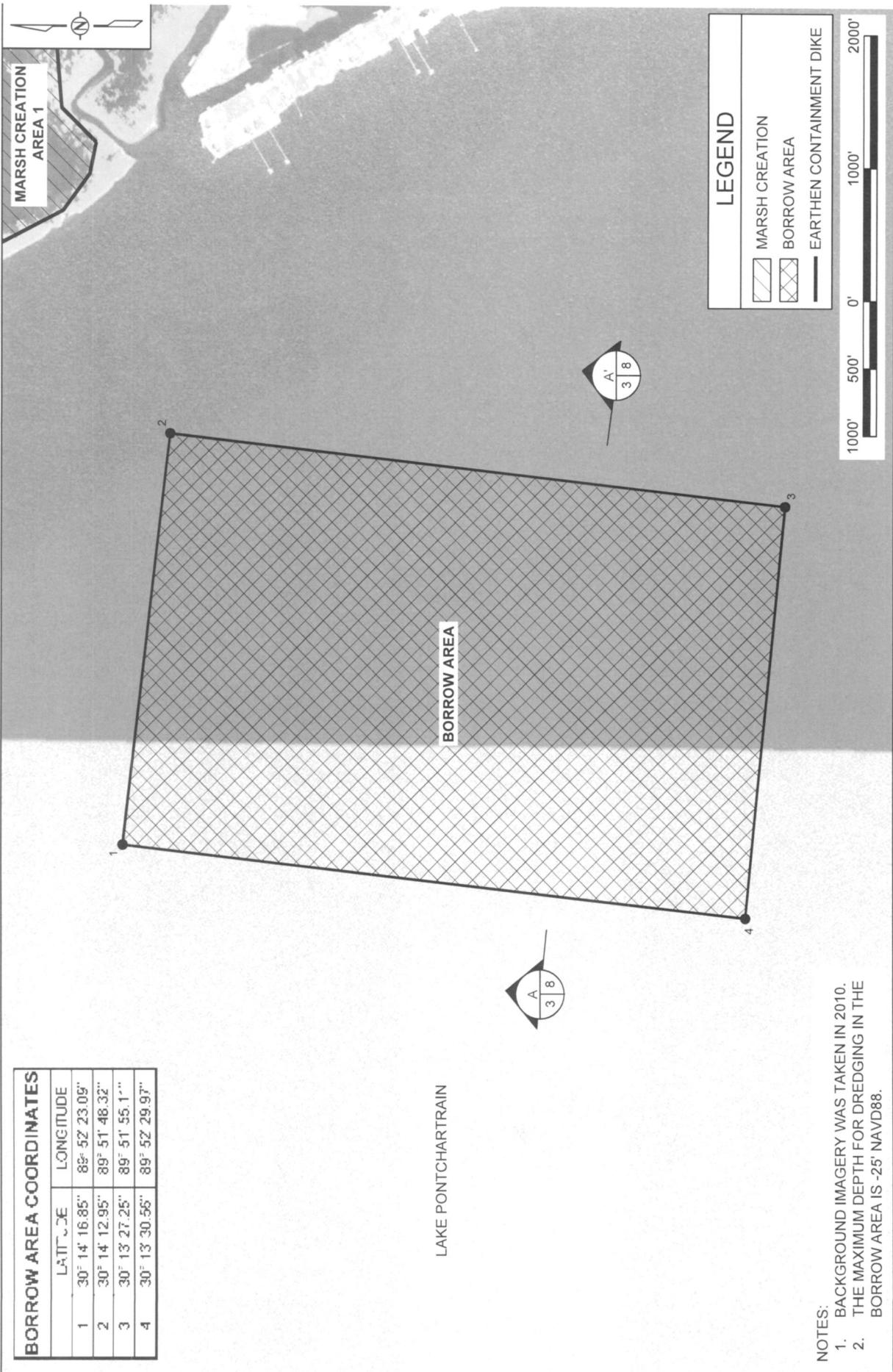
FEDERAL PROJECT NUMBER: PO-104

DATE: NOVEMBER 2012

SHEET 1 OF 14

**BORROW AREA COORDINATES**

	LAT°_E	LONGITUDE
1	30° 14' 16.85"	89° 52' 23.06"
2	30° 14' 12.95"	89° 51' 48.32"
3	30° 13' 27.25"	89° 51' 55.1"
4	30° 13' 30.56"	89° 52' 29.97"



## NOTES:

1. BACKGROUND IMAGERY WAS TAKEN IN 2010.
2. THE MAXIMUM DEPTH FOR DREDGING IN THE BORROW AREA IS -25' NAVD88.

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
61389 HWY 434  
LACOMBE, LA. 70445

DRAWN BY: K. CANTU

DESIGNED BY: S. HAYNES, P.E.

APPROVED BY: J. CARROLL, P.E.

FEDERAL PROJECT NUMBER: PO-104

COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

BAYOU BONFOUCA  
MARSH CREATION PROJECT

BORROW AREA LAYOUT

DATE: NOVEMBER 2012

SHEET 3 OF 14

LEGEND

MARSH CREATION  
BORROW AREA  
EARTHEN CONTAINMENT DIKE

1000' 500' 0' 1000' 2000'

## EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES

LATITUDE	LONGITUDE
30° 14' 49.15"	89° 50' 44.04"
30° 14' 40.00"	89° 50' 45.74"
30° 14' 37.15"	89° 50' 51.42"
30° 14' 36.31"	89° 51' 02.47"
30° 14' 25.74"	89° 51' 12.83"
30° 14' 21.30"	89° 51' 12.59"
30° 14' 20.82"	89° 51' 20.56"
30° 14' 18.27"	89° 51' 23.52"
30° 14' 18.77"	89° 51' 26.22"
30° 14' 20.81"	89° 51' 29.34"
30° 14' 29.65"	89° 51' 34.45"
30° 14' 37.51"	89° 51' 39.23"
30° 14' 42.12"	89° 51' 41.54"
30° 14' 43.27"	89° 51' 42.51"
30° 14' 47.04"	89° 51' 45.27"
30° 14' 51.09"	89° 51' 47.33"
30° 14' 56.32"	89° 51' 47.42"
30° 14' 59.89"	89° 51' 50.09"
30° 15' 10.89"	89° 51' 43.89"
30° 15' 13.66"	89° 51' 41.47"
30° 15' 15.73"	89° 51' 35.49"
30° 15' 12.56"	89° 51' 35.03"
30° 15' 09.13"	89° 51' 37.97"
30° 15' 07.26"	89° 51' 37.46"
30° 15' 04.39"	89° 51' 37.54"
30° 15' 01.78"	89° 51' 34.55"
30° 14' 59.71"	89° 51' 30.32"
30° 14' 57.13"	89° 51' 28.64"
30° 14' 57.47"	89° 51' 23.13"
30° 14' 55.44"	89° 51' 20.61"
30° 14' 53.32"	89° 51' 22.82"
30° 14' 51.60"	89° 51' 22.69"
30° 14' 50.31"	89° 51' 23.05"
30° 14' 48.92"	89° 51' 21.91"
30° 14' 49.04"	89° 51' 19.69"
30° 14' 50.38"	89° 51' 16.94"
30° 14' 50.20"	89° 51' 09.24"
30° 14' 49.36"	89° 51' 07.95"
30° 14' 50.36"	89° 51' 03.68"
30° 14' 57.14"	89° 51' 03.20"
30° 14' 57.85"	89° 51' 00.50"
30° 14' 52.39"	89° 50' 54.06"
30° 14' 49.38"	89° 50' 53.10"

Pipeline & Equipment Corridor 3  
SEE DETAIL ON SHEET 11

Pipeline & Equipment Corridor 1A  
SEE DETAIL ON SHEET 11

SEE DETAIL  
ON SHEET 11

ECD-1  
SEE DETAIL  
ON SHEET 11

ECD-2  
SEE DETAIL ON SHEET 11

POND A  
CONSTRUCTION MARSH  
FILL EL. = 1.7' ± 0.5'

R265.0'  
C 4 9

POND B  
CONSTRUCTION MARSH  
FILL EL. = 1.7' ± 0.5'

ECD-4  
SEE DETAIL  
ON SHEET 12

MARSH CREATION AREA 1  
CONSTRUCTION MARSH FILL  
EL. = 2.7' ± 0.5'

PPIPELINE &  
EQUIPMENT  
CORRIDOR 1B  
SEE DETAIL  
ON SHEET 11

PPIPELINE &  
EQUIPMENT  
CORRIDOR 1A  
SEE DETAIL ON SHEET 11

TIDAL CREEK/POND  
ACCESS

ECD-3  
SEE DETAIL ON SHEET 12

ECD-2  
SEE DETAIL ON SHEET 11

1000'  
500'  
0'  
1000'  
2000'

NOTES:

1. BACKGROUND IMAGERY WAS TAKEN IN 2010.
2. INTERNAL TRAINING DIKES MAY BE USED AS NECESSARY AT ANY LOCATION WITHIN THE MARSH CREATION AREA TO PROPERLY CONTAIN AND DEWATER FILL MATERIAL AND ACHIEVE THE TARGET CONSTRUCTION MARSH FILL ELEVATION.
3. DEWATERING OF FILL MATERIAL MUST NOT BE DIRECTLY DISCHARGED INTO BAYOU BONFOUCA AND LAKE PONTCHARTRAIN.
4. THE DEWATERING OUTFALL SHALL BE RESTRICTED TO A LOCATION IN BETWEEN EARTHEN CONTAINMENT DIKE CENTERLINE POINTS 1 THROUGH 5 AND 17.
5. THE ALIGNMENT OF THE TIDAL CREEKS SHALL BE FIELD-FIT DURING CONSTRUCTION WITH THE APPROVAL OF THE FIELD ENGINEER.
6. THE CONTRACTOR SHALL USE THE TIDAL CREEK ALIGNMENTS TO TRAVERSE THE MARSH CREATION FILL MATERIAL TO ACCESSE THE PONDS.
7. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOLIBILIZATION.
8. UP TO 15% OF THE TOTAL LENGTH OF CONTAINMENT DIKES MAY BE DEGRADED UPON REQUEST BY OWNER.

## LEGEND

- MARSH CREATION AREA
- EARTHEN CONTAINMENT DIKE (ECD-1)
- EARTHEN CONTAINMENT DIKE (ECD-2)
- EARTHEN CONTAINMENT DIKE (ECD-3)
- EARTHEN CONTAINMENT DIKE (ECD-4)
- TIDAL CREEK/POND ACCESS
- PIPELINE & EQUIPMENT CORRIDOR

## COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

BAYOU BONFOUCA  
MARSH CREATION PROJECT

MARSH CREATION  
AREA 1 LAYOUT

DATE: NOVEMBER 2012

SHEET 4 OF 14

STATE PROJECT NUMBER: PO-104

FEDERAL PROJECT NUMBER: PO-104

SHEET 4 OF 14

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
6339 HWY 434  
LACOMBE, LA. 70445

DRAWN BY: K. CANTU

DESIGNED BY: S. HAYNES, P.E.

APPROVED BY: J. CARROLL, P.E.

**EARTHEN CONTAINMENT DIKE  
CENTERLINE COORDINATES**

LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1 30° 15' 41.45"	89° 51' 02.82"	22 30° 15' 15.39"	89° 51' 25.33"
2 30° 15' 38.24"	89° 51' 00.47"	23 30° 15' 15.11"	89° 51' 25.83"
3 30° 15' 34.31"	89° 50' 57.60"	24 30° 15' 15.87"	89° 51' 27.09"
4 30° 15' 30.50"	89° 50' 55.16"	25 30° 15' 24.21"	89° 51' 28.27"
5 30° 15' 24.49"	89° 50' 46.98"	26 30° 15' 32.17"	89° 51' 34.17"
6 30° 15' 20.79"	89° 50' 41.39"	27 30° 15' 38.18"	89° 51' 32.81"
7 30° 15' 18.40"	89° 50' 43.13"	28 30° 15' 42.00"	89° 51' 29.83"
8 30° 15' 17.74"	89° 50' 45.84"	29 30° 15' 44.48"	89° 51' 27.50"
9 30° 15' 19.13"	89° 50' 48.66"	30 30° 15' 45.43"	89° 51' 27.11"
10 30° 15' 20.33"	89° 50' 51.88"	31 30° 15' 45.32"	89° 51' 24.81"
11 30° 15' 20.95"	89° 50' 53.74"	32 30° 15' 44.86"	89° 51' 23.23"
12 30° 15' 22.61"	89° 50' 55.74"	33 30° 15' 42.48"	89° 51' 20.48"
13 30° 15' 21.66"	89° 50' 58.55"	34 30° 15' 41.22"	89° 51' 21.50"
14 30° 15' 22.47"	89° 50' 59.88"	35 30° 15' 39.24"	89° 51' 21.06"
15 30° 15' 21.98"	89° 51' 01.41"	36 30° 15' 38.52"	89° 51' 18.31"
16 30° 15' 20.10"	89° 51' 02.61"	37 30° 15' 38.44"	89° 51' 16.73"
17 30° 15' 19.93"	89° 51' 06.33"	38 30° 15' 37.66"	89° 51' 15.66"
18 30° 15' 21.21"	89° 51' 07.28"	39 30° 15' 37.31"	89° 51' 12.99"
19 30° 15' 23.19"	89° 51' 06.70"	40 30° 15' 38.84"	89° 51' 06.47"
20 30° 15' 25.86"	89° 51' 12.91"	41 30° 15' 40.42"	89° 51' 06.12"
21 30° 15' 19.11"	89° 51' 18.82"		

NOTES:

1. BACKGROUND IMAGERY WAS TAKEN IN 2010.
2. INTERNAL TRAINING DIKES MAY BE USED AS NECESSARY AT ANY LOCATION WITHIN THE MARSH CREATION AREA TO PROPERLY CONTAIN AND DEWATER FILL MATERIAL AND ACHIEVE THE TARGET CONSTRUCTION MARSHPACK ELEVATION.
3. DEWATERING OF FILL MATERIAL MUST NOT BE DIRECTLY DISCHARGED INTO BAYOU BONFOUCA AND LAKE PONTCHARTRAIN.
4. THE DEWATERING OUTFALL SHALL BE RESTRICTED TO A LOCATION IN BETWEEN EARTHEN CONTAINMENT DIKE CENTERLINE POINTS 1 THROUGH 2 AND 17 THROUGH 18.
5. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.
6. UP TO 15% OF THE TOTAL LENGTH OF CONTAINMENT DIKES MAY BE DEGRADED UPON REQUEST BY OWNER.

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
6139 HWY 434  
LAUREL, LA. 70445

DRAWN BY: K. CANTU

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

**MARSH CREATION  
AREA 1**

**BAYOU BONFOUCA  
MARSH CREATION PROJECT**

**MARSH CREATION  
AREA 2 LAYOUT**

**MARSH CREATION  
AREA 2**

**EARTHEN CONTAINMENT DIKE (ECD-5)**

**Pipeline & Equipment Corridor**

**2000'**

**1000'**

**500'**

**0'**

**2000'**

**1000'**

**500'**

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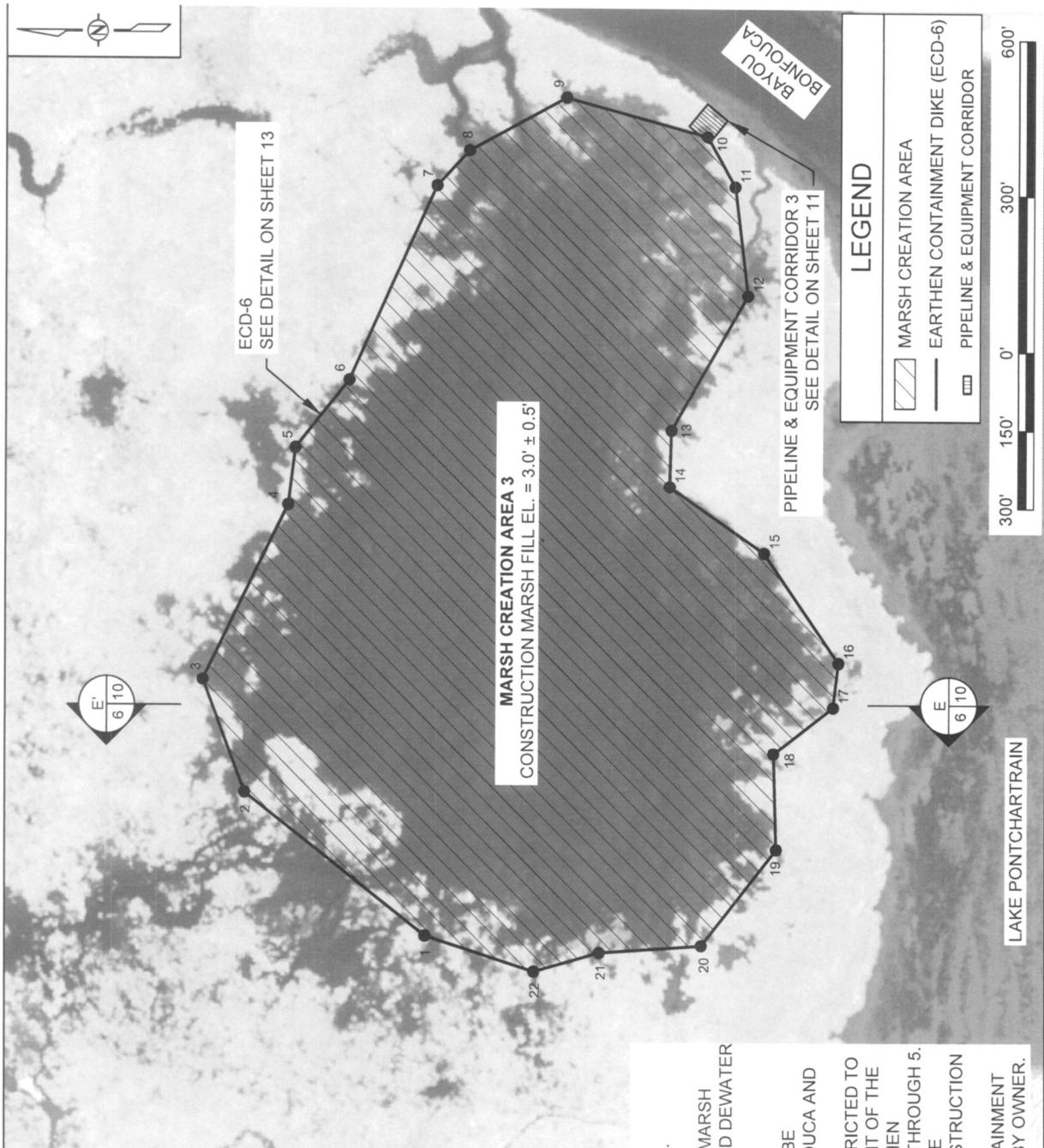
**1000'**

**500'**

## **EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES**

## NOTES.

1. BACKGROUND IMAGERY WAS TAKEN IN 2010.
  2. INTERNAL TRAINING DIKES MAY BE USED AS NECESSARY AT ANY LOCATION WITHIN THE MARSH CREATION AREA TO PROPERLY CONTAIN AND DEWATER FILL MATERIAL AND ACHIEVE THE TARGET CONSTRUCTION MARSH FILL ELEVATION.
  3. DEWATERING OF FILL MATERIAL MUST NOT BE DIRECTLY DISCHARGED INTO BAYOU BONFOUCA AND LAKE PONCHARTRAIN.
  4. THE DEWATERING OUTFALL SHALL BE RESTRICTED TO A LOCATION ON THE NORTHWEST QUADRANT OF THE MARSH CREATION AREA IN BETWEEN EARTHEN CONTAINMENT DIKE CENTERLINE POINTS 1 THROUGH 5. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.
  5. UP TO 15% OF THE TOTAL LENGTH OF CONTAINMENT DIKES MAY BE DEGRADED UPON REQUEST BY OWNER.



COASTAL PROTECTION AND  
RESTORATION AUTHORITY

UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
61389 HWY 434  
LAUREL, LA 70545

MARSH CREATION  
BAYOU BONFOUCA  
MARSH CREATION PROJECT  
AREA 3 LAYOUT

D'ONOFRIO, MUSCOLO, E GOSIOLSKI / 2001

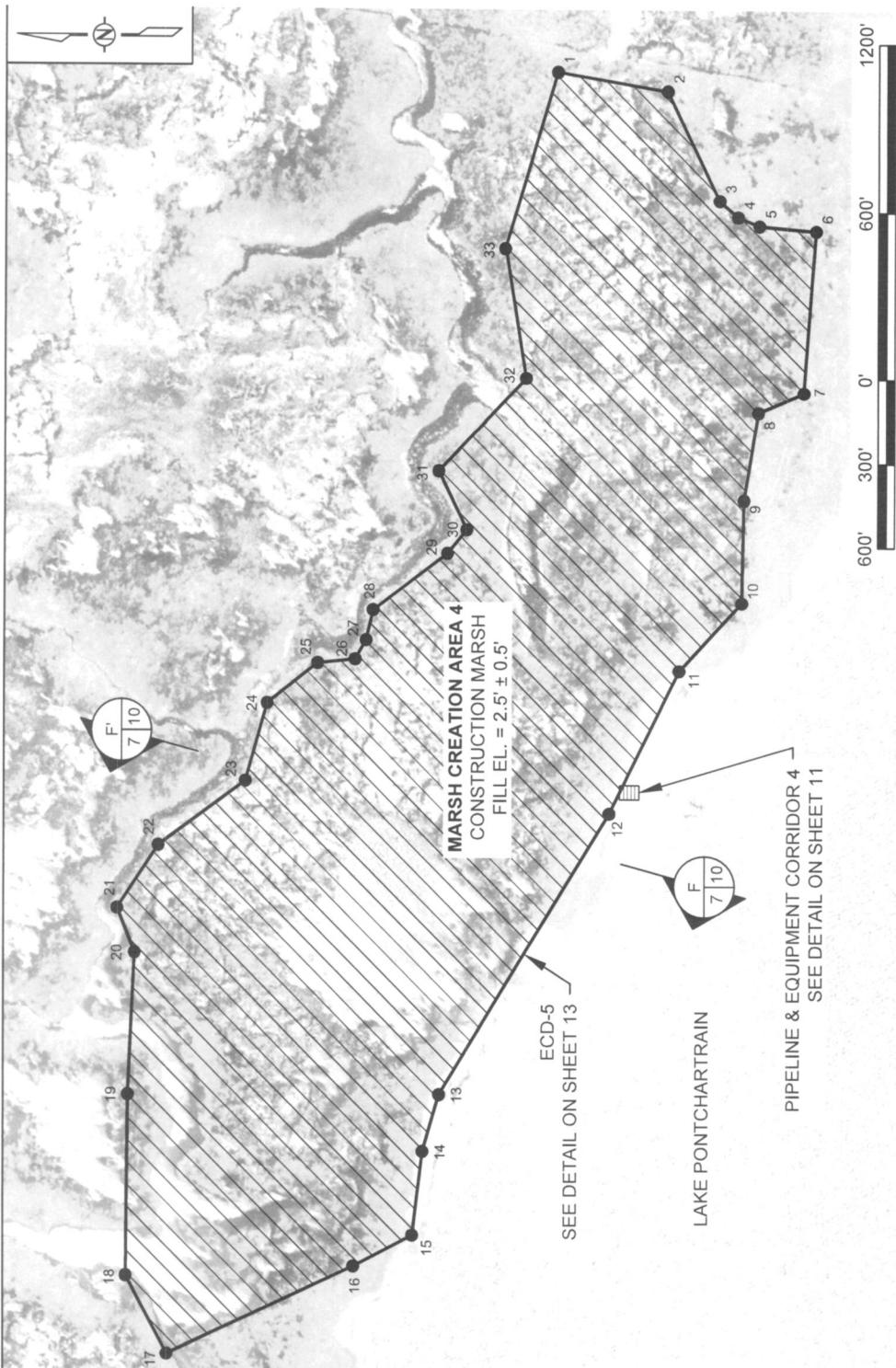
STATE PROJECT NUMBER: PO-104

DATE: NOVEMBER 2012

DATE: NOVEMBER 2012

**EARTHEN CONTAINMENT  
DIKE CENTERLINE  
COORDINATES**

LATITUDE	LONGITUDE
1 30°15'12.74"	89°52'26.44"
2 30°15'08.83"	89°52'27.27"
3 30°15'07.02"	89°52'31.72"
4 30°15'06.37"	89°52'32.40"
5 30°15'05.60"	89°52'32.77"
6 30°15'03.59"	89°52'33.00"
7 30°15'04.08"	89°52'39.63"
8 30°15'05.71"	89°52'40.41"
9 30°15'06.25"	89°52'43.95"
10 30°15'06.36"	89°52'48.15"
11 30°15'08.61"	89°52'50.89"
12 30°15'11.15"	89°52'56.60"
13 30°15'17.32"	89°53'07.88"
14 30°15'17.94"	89°53'10.17"
15 30°15'18.33"	89°53'13.58"
16 30°15'20.45"	89°53'14.81"
17 30°15'27.17"	89°53'18.25"
18 30°15'28.61"	89°53'15.07"
19 30°15'28.46"	89°53'07.71"
20 30°15'28.16"	89°53'02.01"
21 30°15'28.78"	89°53'00.19"
22 30°15'27.27"	89°52'57.66"
23 30°15'24.13"	89°52'55.10"
24 30°15'23.32"	89°52'51.99"
25 30°15'21.50"	89°52'50.39"
26 30°15'20.17"	89°52'50.25"
27 30°15'19.77"	89°52'49.49"
28 30°15'19.51"	89°52'48.26"
29 30°15'16.84"	89°52'45.99"
30 30°15'16.15"	89°52'45.03"
31 30°15'17.13"	89°52'42.63"
32 30°15'13.98"	89°52'38.91"
33 30°15'14.68"	89°52'33.59"



NOTES:

1. BACKGROUND IMAGERY WAS TAKEN IN 2010.
2. INTERNAL TRAINING DIKES MAY BE USED AS NECESSARY AT ANY LOCATION WITHIN THE MARSH CREATION AREA TO PROPERLY CONTAIN AND DEWATER FILL MATERIAL AND ACHIEVE THE TARGET CONSTRUCTION MARSH FILL ELEVATION.
3. DEWATERING OF FILL MATERIAL MUST NOT BE DIRECTLY DISCHARGED INTO BAYOU BONFOUCA AND LAKE PONTCHARTRAIN.
4. THE DEWATERING OUTFALL SHALL BE RESTRICTED TO A LOCATION ON THE NORTH SIDE OF THE MARSH CREATION AREA IN BETWEEN EARTHEN CONTAINMENT DIKE CENTERLINE POINTS 18 THROUGH 33.
5. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION UP TO 15% OF THE TOTAL LENGTH OF CONTAINMENT DIKES MAY BE DEGRADED UPON REQUEST BY OWNER.

**LEGEND**

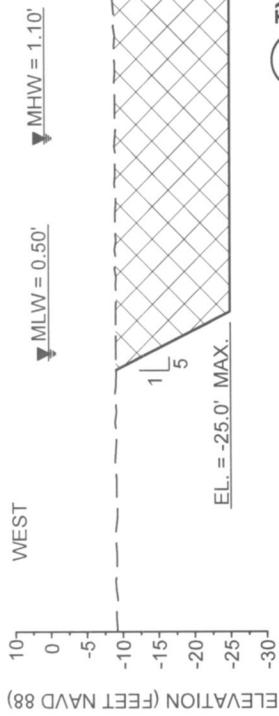
- MARSH CREATION AREA
- EARTHEN CONTAINMENT DIKE (ECD-5)
- PIPELINE & EQUIPMENT CORRIDOR

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
6139 HWY 434  
LACOME, LA. 70445

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

MARSH CREATION  
AREA 4 LAYOUT  
STATE PROJECT NUMBER: PO-104  
FEDERAL PROJECT NUMBER: PO-104  
DATE: NOVEMBER 2012  
SHEET 7 OF 14

EAST

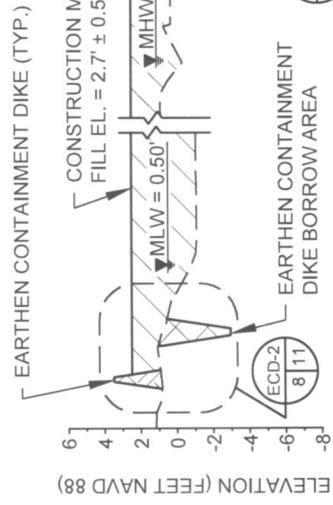


**TYPICAL SECTION - BORROW AREA**

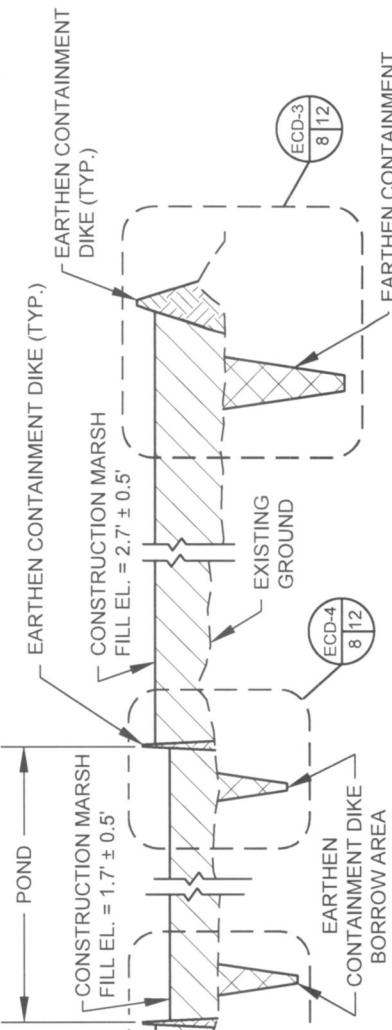
A-A'  
8 3



SOUTHWEST



NORTHWEST



NORTHEAST

EARTHEN CONTAINMENT DIKE (TYP.)  
DIKE (TYP.)

EARTHEN CONTAINMENT DIKE BORROW AREA  
ECD-3  
8 12

EARTHEN CONTAINMENT DIKE BORROW AREA

EXISTING GROUNDWATER BOTTOM

LEGEND

	EARTHEN CONTAINMENT DIKE
	EARTHEN CONTAINMENT DIKE BORROW AREA
	MARSH CREATION FILL
- - -	EXISTING GROUNDWATER BOTTOM

BAYOU BONFOUCA  
MARSH CREATION PROJECT

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

TYPICAL SECTIONS

EARTHEN

CONTAINMENT

DIKE

CONTAINMENT

DIKE

BORROW

AREA

EARTHEN

CREATION

FILL

- - -

EXISTING

GROUN

DWATER

BOTTOM

BAYOU BONFOUCA  
MARSH CREATION PROJECT

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

EARTHEN

CONTAINMENT

DIKE

CONTAINMENT

DIKE

BORROW

AREA

EARTHEN

CREATION

FILL

- - -

EXISTING

GROUN

DWATER

BOTTOM

EARTHEN

CONTAINMENT

DIKE

CONTAINMENT

DIKE

BORROW

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CONTAINMENT

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BORROW

AREA

EARTHEN

CREATION

FILL

- - -

EXISTING

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DIKE

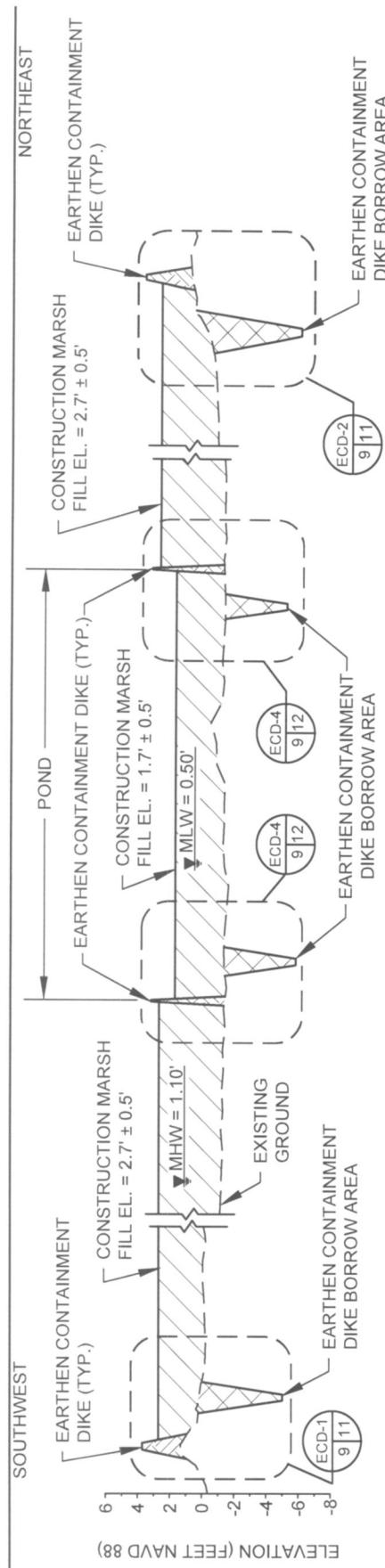
BORROW

AREA

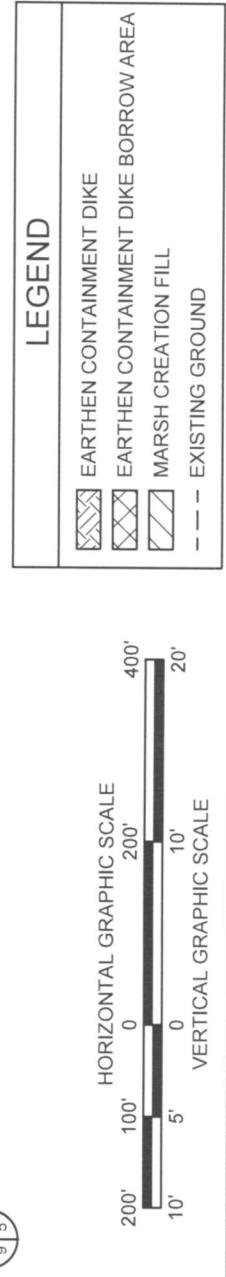
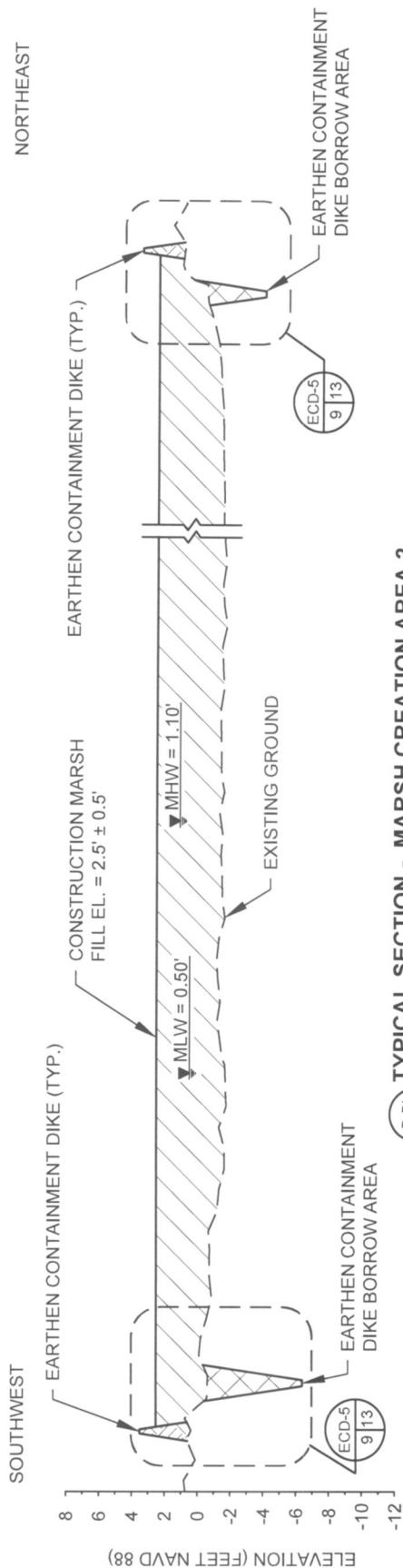
EARTHEN

CREATION

FILL</



**TYPICAL SECTION - MARSH CREATION AREA 1**



**LEGEND**



BAYOU BONFOUCA  
MARSH CREATION PROJECT

450 LAUREL STREET

BATON ROUGE, LOUISIANA 70801

STATE PROJECT NUMBER: PO-104

DATE: NOVEMBER 2012

DESIGNED BY: S. HAYNES, P.E.

FEDERAL PROJECT NUMBER: PO-104

DRAWN BY: K. CANTU

SHEET 9 OF 14

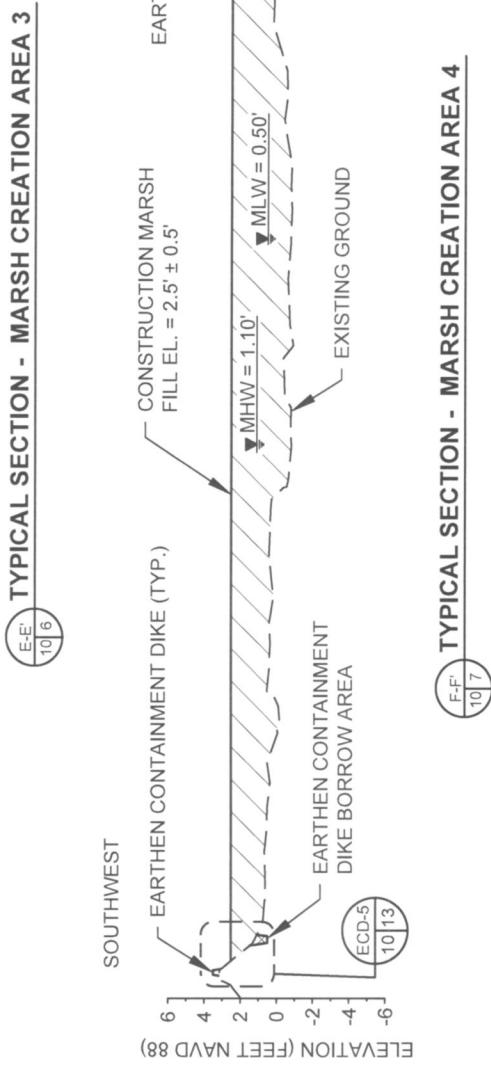
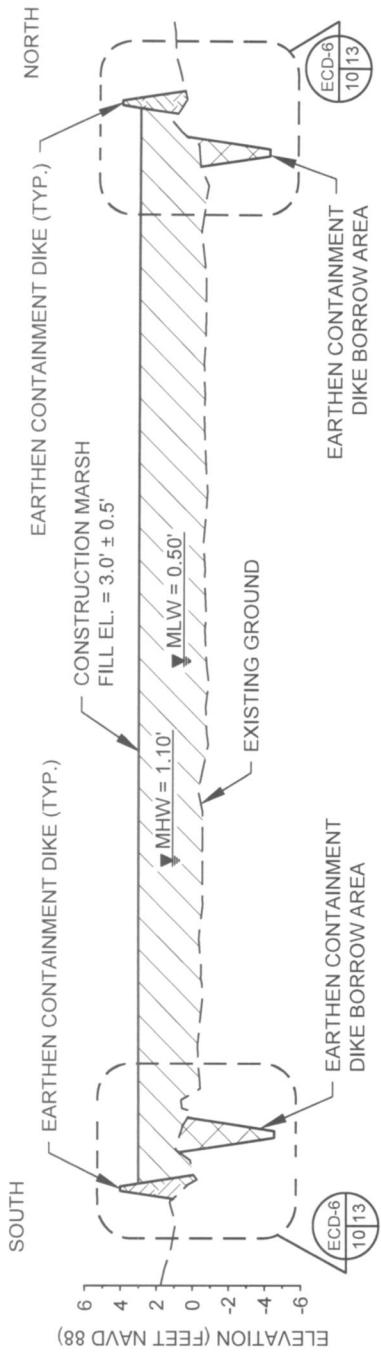
NOTE:  
DISCHARGE SHALL BE DIRECTED TO  
RETAIN AS MUCH MATERIAL AS POSSIBLE.

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
6138 HWY 434  
LA COMBE, LA. 70445

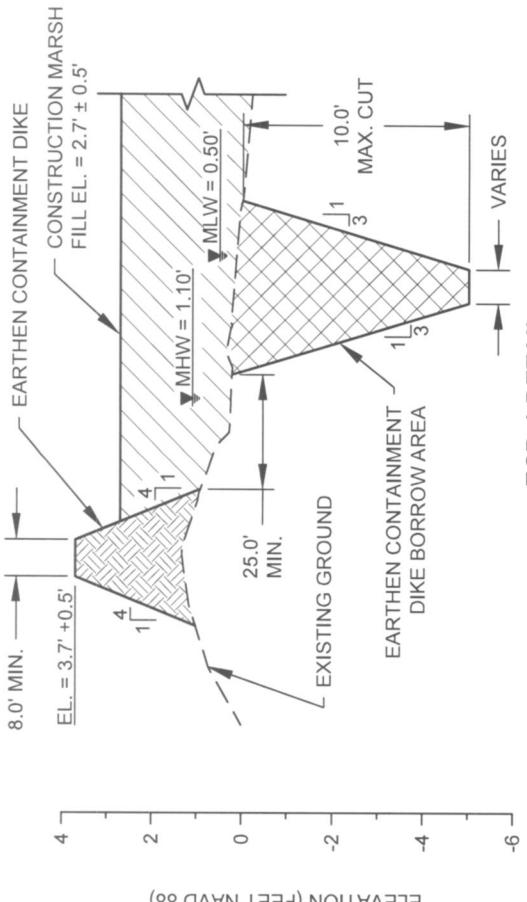
BAYOU BONFOUCA  
MARSH CREATION PROJECT

TYPICAL SECTIONS





COASTAL PROTECTION AND RESTORATION AUTHORITY		LEGEND	
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) 6339 HWY 43A LAUREL, LA. 70445		EARTHEN CONTAINMENT DIKE EARTHEN CONTAINMENT DIKE BORROW AREA MARSH CREATION FILL - - - EXISTING GROUND	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		TYPICAL SECTIONS	
APPLIED BY: DRAWN BY: K. CANTU	BAYOU BONFOUCA MARSH CREATION PROJECT	STATE PROJECT NUMBER: PO-104 FEDERAL PROJECT NUMBER: PO-104	DATE: NOVEMBER 2012 SHEET 10 OF 14
DESIGNED BY: S. HAYNES, P.E.	APPROVED BY: J. CARROLL, P.E.		

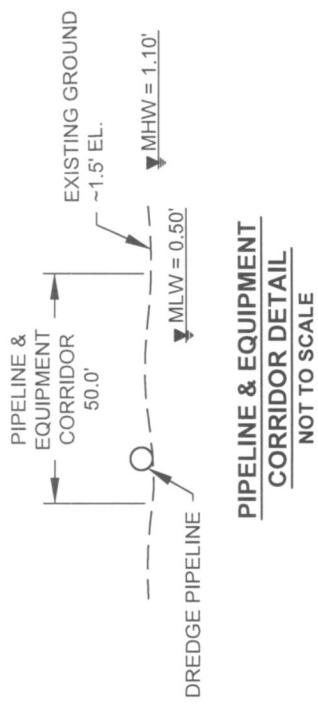


ECD-1 DETAIL

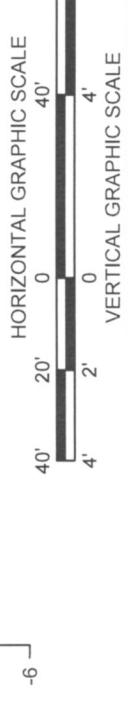


NOTES:

1. EARTHEN CONTAINMENT DIKES SHALL BE CONSTRUCTED USING IN-SITU MATERIAL. SEE SHEETS 4 - 7 FOR EARTHEN CONTAINMENT DIKE LOCATIONS.
2. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.



ECD-2 DETAIL



APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
6139 HWY 434  
LACOMBE, LA. 70445

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

DETAILS  
BAYOU BONFOUCA  
MARSH CREATION PROJECT

DATE: NOVEMBER 2012

SHEET 11 OF 14

STATE PROJECT NUMBER: PO-104  
FEDERAL PROJECT NUMBER: PO-104

NOTES:

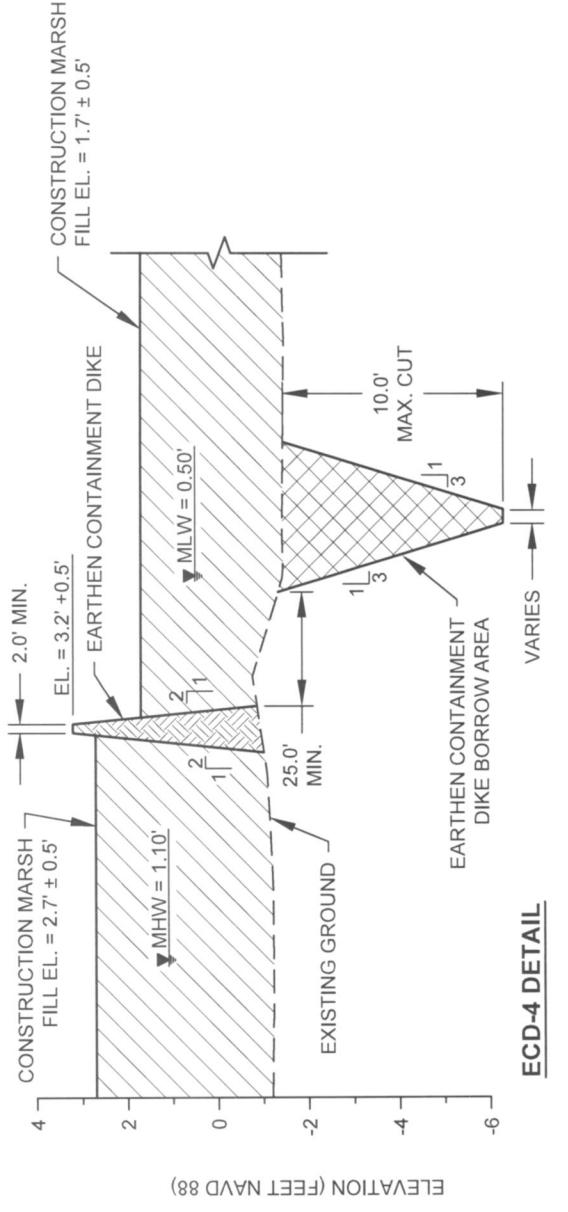
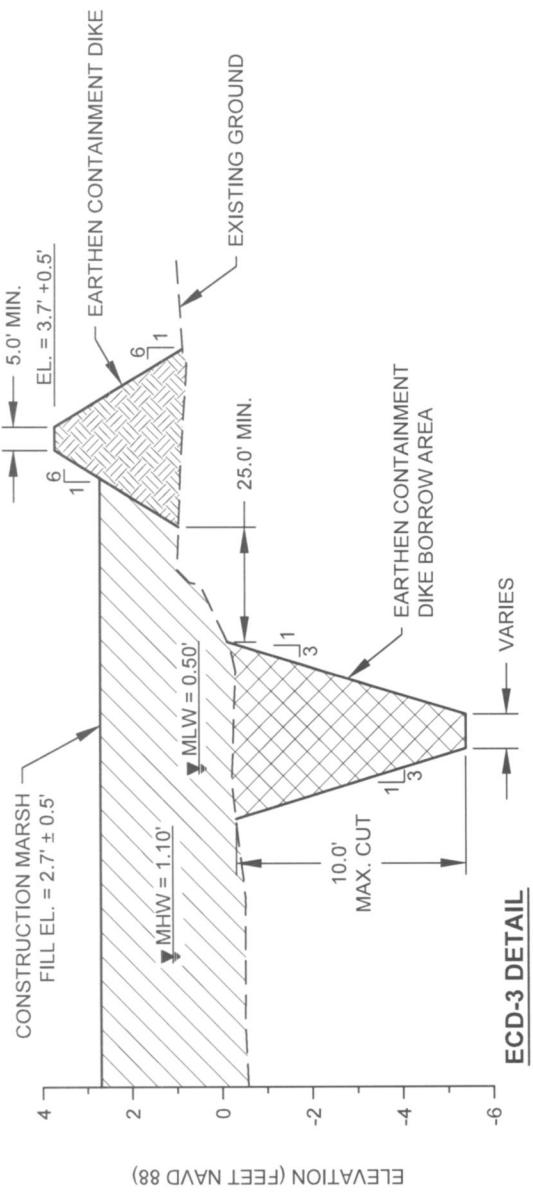
1. EARTHEN CONTAINMENT DIKES SHALL BE CONSTRUCTED USING IN-SITU MATERIAL. SEE SHEETS 4 - 7 FOR EARTHEN CONTAINMENT DIKE LOCATIONS.
2. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.

NOTES:

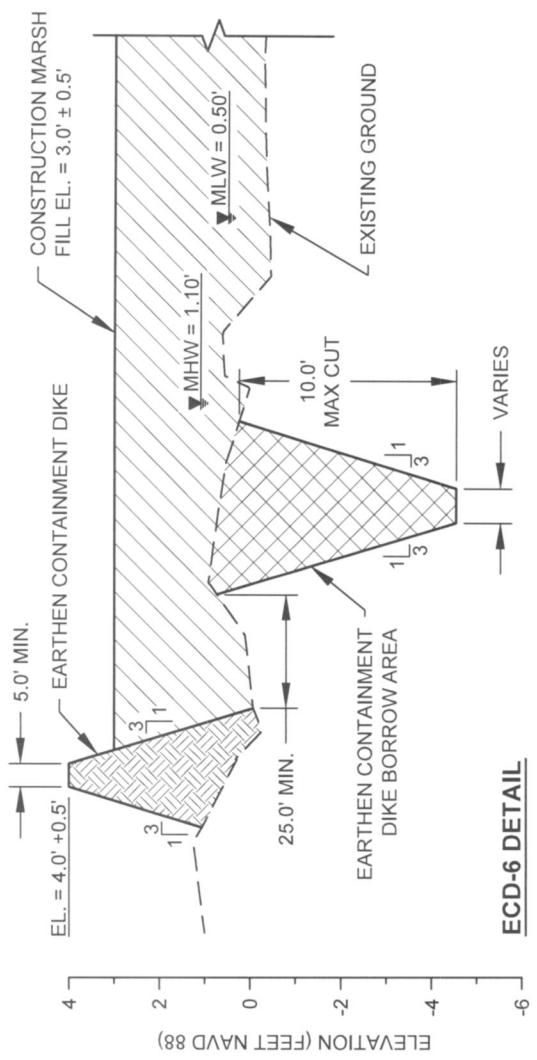
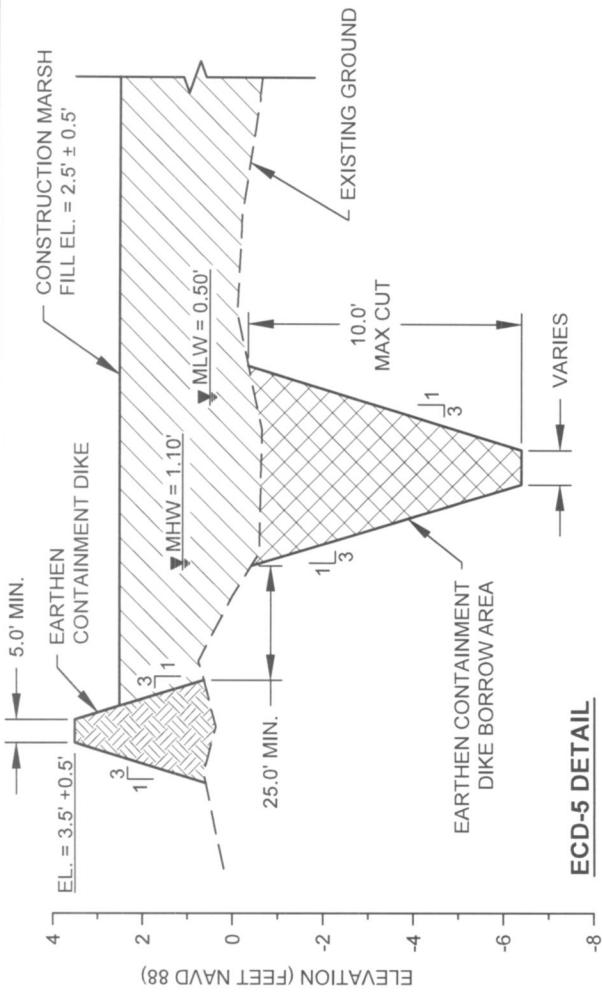
1. EARTHEN CONTAINMENT DIKES SHALL BE CONSTRUCTED USING IN-SITU MATERIAL. SEE SHEETS 4 - 7 FOR EARTHEN CONTAINMENT DIKE LOCATIONS.
2. THE EXISTING GROUND WITHIN THE PIPELINE CORRIDOR SHALL BE GRADED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.

DATE: NOVEMBER 2012

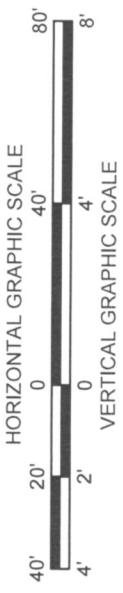
SHEET 11 OF 14



DRAWN BY: K. CANTU		APPLIED BY: UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) 61389 HWY 434 LACOMBE, LA. 70445	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LARREI STREET BATON ROUGE, LOUISIANA 70801	BAYOU BONFOUCA MARSH CREATION PROJECT	DETAILS
DESIGNED BY: S. HAYNES, P.E.	APPROVED BY: J. CARROLL, P.E.		STATE PROJECT NUMBER: PO-104	DATE: NOVEMBER 2012	
			FEDERAL PROJECT NUMBER: PO-104	SHEET 12 OF 14	



**NOTE:**  
EARTHEN CONTAINMENT DIKES SHALL BE  
CONSTRUCTED USING IN-SITU MATERIAL.  
SEE SHEETS 4 - 7 FOR EARTHEN  
CONTAINMENT DIKE LOCATIONS.



BAYOU BONFOUCA  
MARSH CREATION PROJECT

45 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DETAILS

STATE PROJECT NUMBER: PO-104  
FEDERAL PROJECT NUMBER: PO-104

DATE: NOVEMBER 2012  
SHEET 13 OF 14

APPLICATION BY:  
UNITED STATES FISH AND WILDLIFE SERVICE (USFWS)  
61380 HWY 434  
LACOMBE, LA. 70445

DRAWN BY: K. CANTU

DETAILS

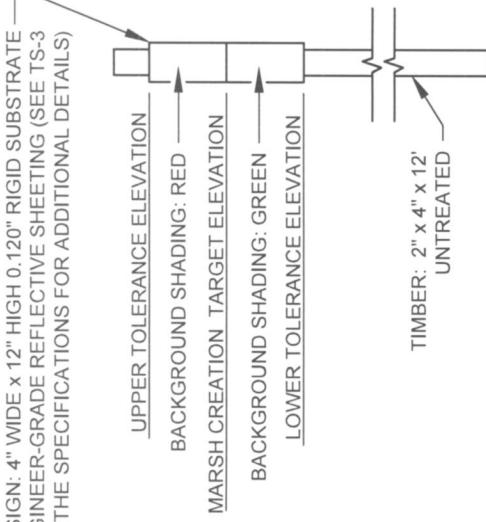
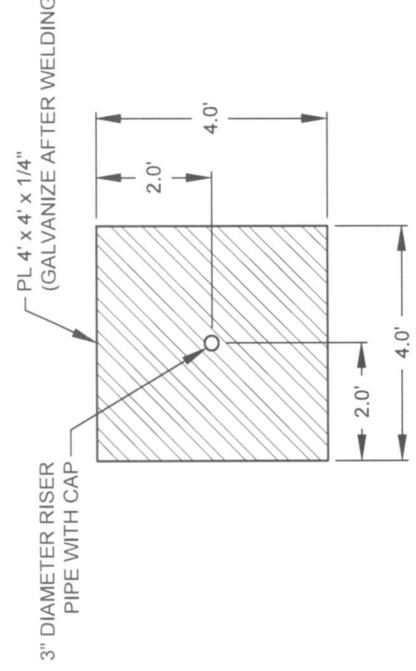
DATE: NOVEMBER 2012  
SHEET 13 OF 14

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

DESIGNED BY: S. HAYNES, P.E.

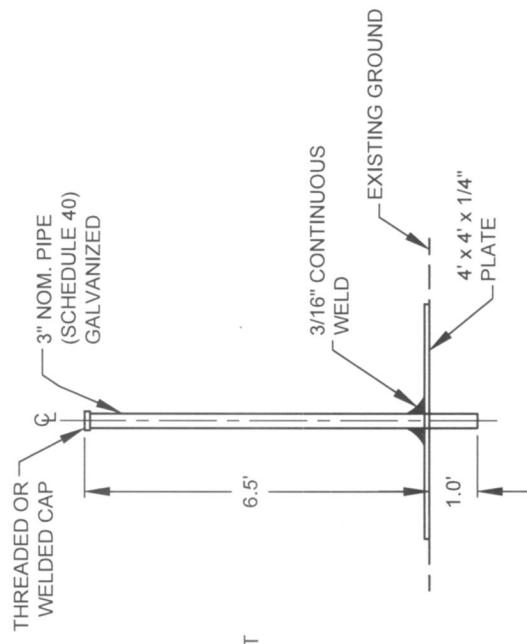
APPROVED BY: J. CARROLL, P.E.

DETAILS



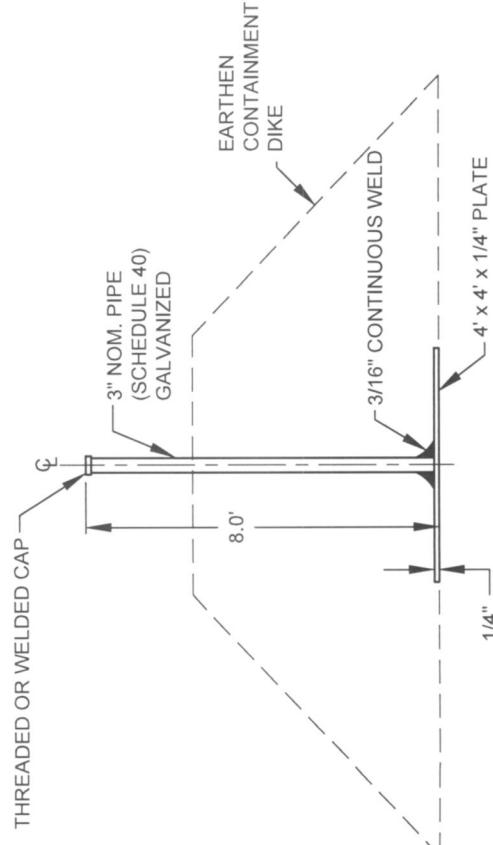
### GRADE STAKE DETAIL

NOT TO SCALE



### MARSH CREATION SETTLEMENT PLATE

NOT TO SCALE



### EARTHEN CONTAINMENT DIKE SETTLEMENT PLATE

NOT TO SCALE

APPLICATION BY: UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) 61389 HWY 434 LACOMBE, LA. 70445	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MARSH CREATION PROJECT	DETAILS
DRAWN BY: K. CANTU	DESIGNED BY: S. HAYNES, P.E.	APPROVED BY: J. CARROLL, P.E.	DATE: NOVEMBER 2012 FEDERAL PROJECT NUMBER: PO-104 SHEET 14 OF 14