

# JOINT PUBLIC NOTICE

July 1, 2013

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch  
Post Office Box 60267  
New Orleans, Louisiana 70160-0267

(504) 862-2225

[Brad.LaBorde@usace.army.mil](mailto:Brad.LaBorde@usace.army.mil)

Project Manager  
Brad LaBorde  
Permit Application Number  
MVN 2009-0264 EOO

State of Louisiana  
Department of Environmental Quality  
ATTN: Water Quality Certifications  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

(225) 219-3225

Project Manager  
Jamie Phillippe  
WQC Application Number  
WQC 090223-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## **Permit Modification and Time Extension: Dredging in the Mississippi River for the Lake Hermitage Marsh Creation Project in Plaquemines Parish**

**NAME OF APPLICANT:** U.S. Fish and Wildlife Service, % Louisiana Coastal Protection and Restoration Authority, Attn: Kristi Cantu, Post Office Box 44027, Baton Rouge, Louisiana, 70804.

**LOCATION OF WORK:** Excavation within the Mississippi River between mile markers 49 and 52 above Head of Passes and material placement in and adjacent to the open water areas in Lake Hermitage, Plaquemines Parish, Louisiana, as shown on the enclosed drawings.

Mississippi River Location: Latitude: 29.585678/Longitude: -89.81925 Hydrologic Unit Code: 08090100 – Lower Mississippi-New Orleans

Lake Hermitage Location: Latitude 29.552264/Longitude: -89.850975 Hydrologic Unit Code: 08090301 – East Central Louisiana Coastal

**CHARACTER OF WORK:** Modified plans include dredging the previously approved Mississippi River Borrow Area from EL. -76.0 to EL. -90.0 (NAVD88) and depositing material within nine fill sites in Lake Hermitage. Approximately 1,936,088 cubic yards of material will be excavated, transported by pipeline within the previously permitted dredge pipeline corridor, and placed within 8,200 linear feet of Earthen Containment Dikes. Expansion of the marsh creation project would provide an additional 357 acres of marsh creation. This coastal restoration project is aimed at yielding overall benefits to fish and wildlife values, and wetlands; therefore, no compensatory mitigation measures have been proposed at this time.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **30 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. **Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.**

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

No properties listed on the National Register of Historic Places are near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of **357** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Michael V. Farabee  
Chief, Eastern Evaluation Section

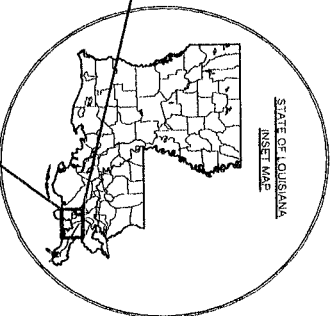
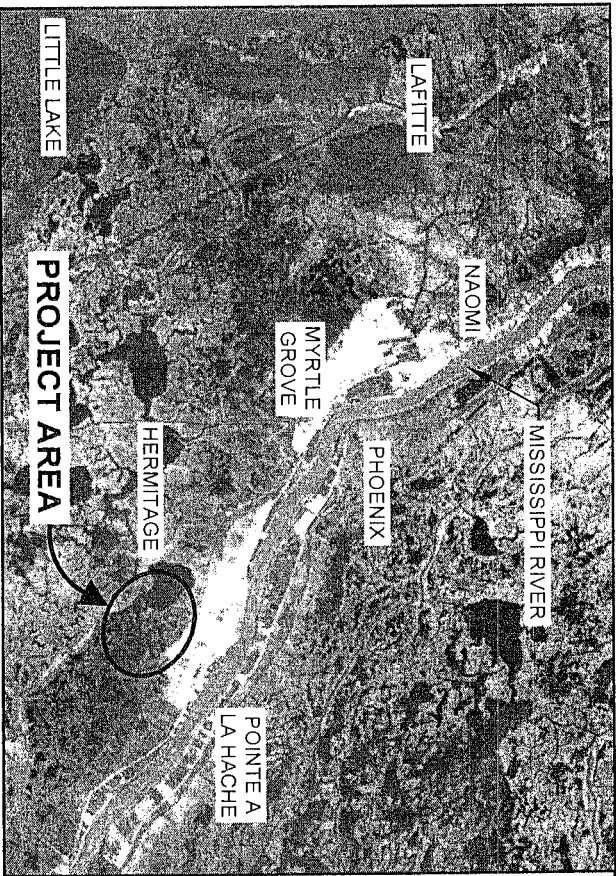
Enclosure

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STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH

LAKE HERMITAGE  
MARSH CREATION  
BA-42  
PLAQUEMINES PARISH



APPLICATION BY:  
U.S. FISH & WILDLIFE SERVICE  
649 CALUMET BLVD SUITE 400  
LAFAYETTE, LA 70508

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
MARSH CREATION

TITLE SHEET

STATE PROJECT NUMBER: BA-42

DATE: MAY 2013 (MOD. 3)

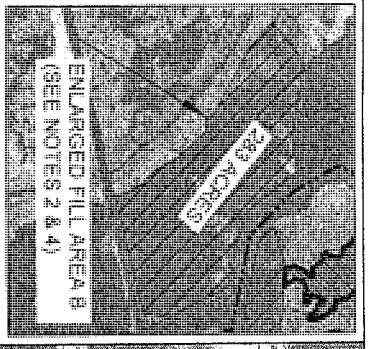
DRAWN BY: KRISTI CANTU

DESIGNED BY: RUDY SIMONEAUX

APPROVED BY: MAURY CHATELIER

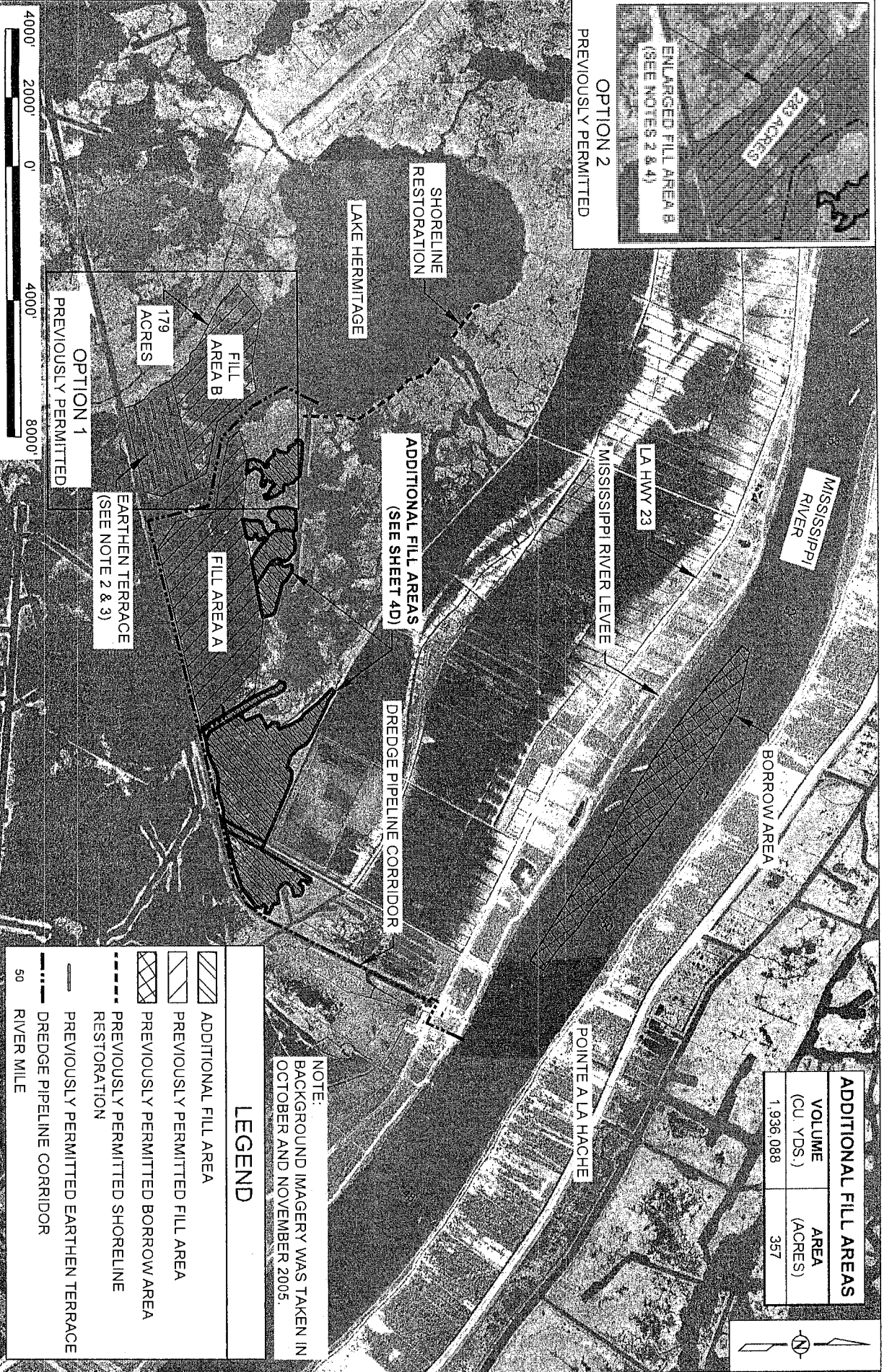
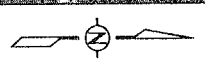
FEDERAL PROJECT NUMBER:

SHEET 1 OF 15



**OPTION 2**  
PREVIOUSLY PERMITTED

ADDITIONAL FILL AREAS	
VOLUME (CU YDS.)	AREA (ACRES)
1,936,088	357



**NOTE:**  
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER AND NOVEMBER 2005.

**LEGEND**

- ADDITIONAL FILL AREA
- PREVIOUSLY PERMITTED FILL AREA
- PREVIOUSLY PERMITTED BORROW AREA
- PREVIOUSLY PERMITTED SHORELINE RESTORATION
- PREVIOUSLY PERMITTED EARTHEN TERRACE
- DREDGE PIPELINE CORRIDOR
- 50 RIVER MILE

APPLICATION BY:  
U.S. FISH & WILDLIFE SERVICE  
646 CALJUNDDOME BLVD, SUITE 400  
LAFAYETTE, LA 70506

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA, 70801

LAKE HERMITAGE  
MARSH CREATION

PLAN VIEW

DRAWN BY: KRISTI CANTU      DESIGNED BY: RUDY SIMONEAUX      APPROVED BY: MAURY CHATELLIER







STATE PROJECT NUMBER: BA-42      FEDERAL PROJECT NUMBER:      DATE: MAY 2013 (MOD. 3)

SHEET 2B OF 15

BORROW AREA		
NORTHING	EASTING	
1	396,438.62	3,765,510.54
2	396,833.82	3,765,786.10
3	396,308.90	3,765,148.27
4	396,886.54	3,764,582.71
5	397,350.34	3,763,922.37
6	397,903.33	3,763,350.47
7	398,438.55	3,762,738.49
8	398,908.23	3,762,125.21
9	399,403.47	3,761,462.17
10	399,887.00	3,760,825.00
11	400,863.67	3,759,542.88
12	401,726.96	3,758,197.87
13	402,109.34	3,756,496.84
14	401,875.91	3,756,322.95
15	400,783.06	3,757,530.95
16	400,263.67	3,758,143.81
17	399,305.93	3,759,424.62
18	398,448.15	3,760,788.84
19	397,690.98	3,762,180.80
20	396,753.86	3,763,494.45

- NOTES:
- COORDINATES ARE GIVEN IN NAD 83, LOUISIANA STATE PLANE, SOUTHERN ZONE, US FOOT. THE BORROW AREA CONTAINS APPROXIMATELY 6,363,440 CU. YDS. OF MATERIAL.
  - THE BORROW AREA VOLUME EXCEEDS THE FILL VOLUME TO ACCOUNT FOR LOSSES DURING HYDRAULIC OPERATIONS.
  - CONTRACTOR SHALL NOT DREDGE OUTSIDE BORROW AREA LIMITS.

**LEGEND**

-  BORROW AREA
-  NAVIGATION CHANNEL
-  DREDGE PIPELINE CORRIDOR
-  ANCHORAGE AREA
-  REVETMENT
-  50 RIVER MILE



APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 648 CHANDLER BLVD SUITE 400  
 LA FAYETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

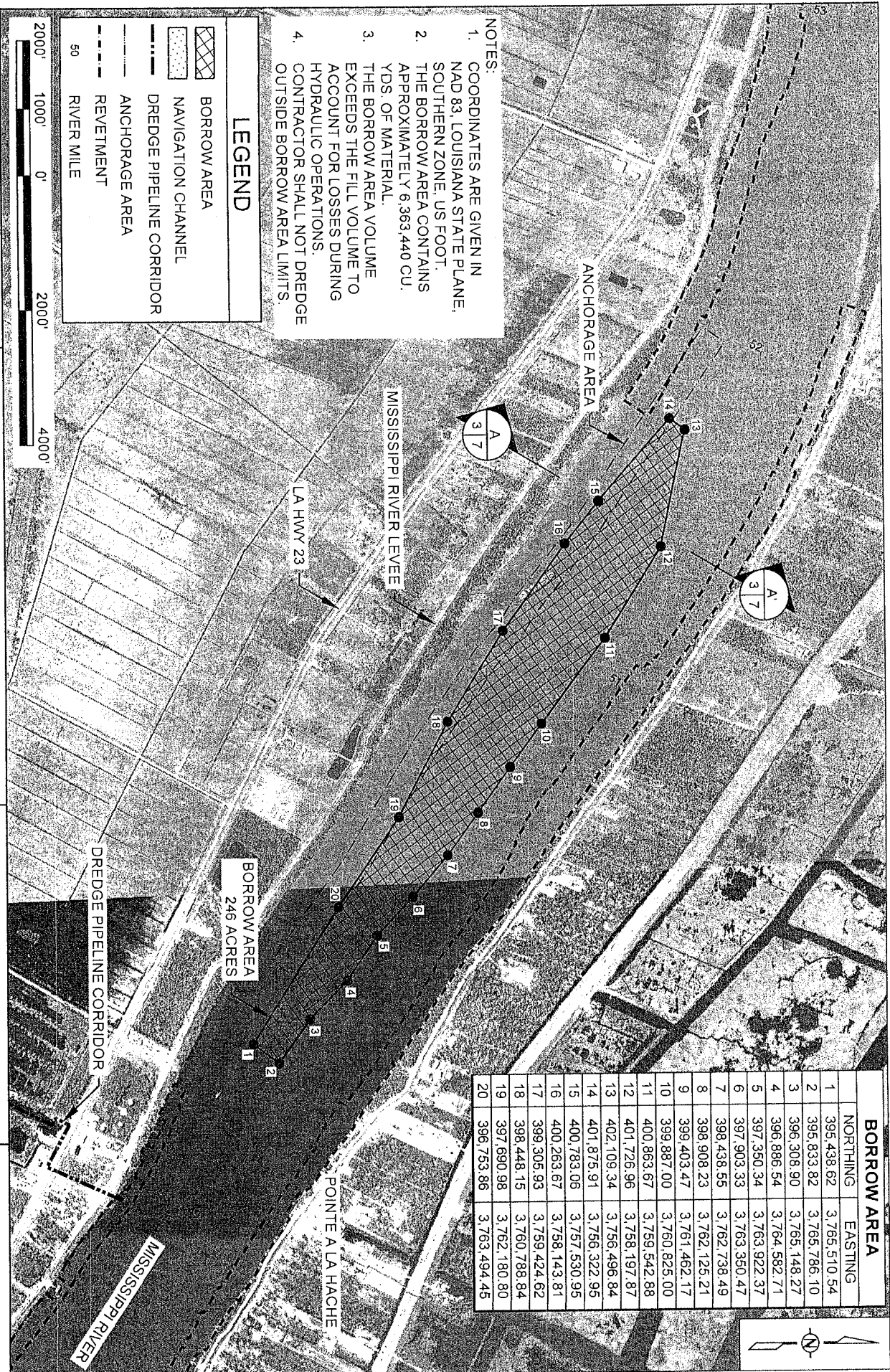
LAKE HERMITAGE  
 MARSH CREATION

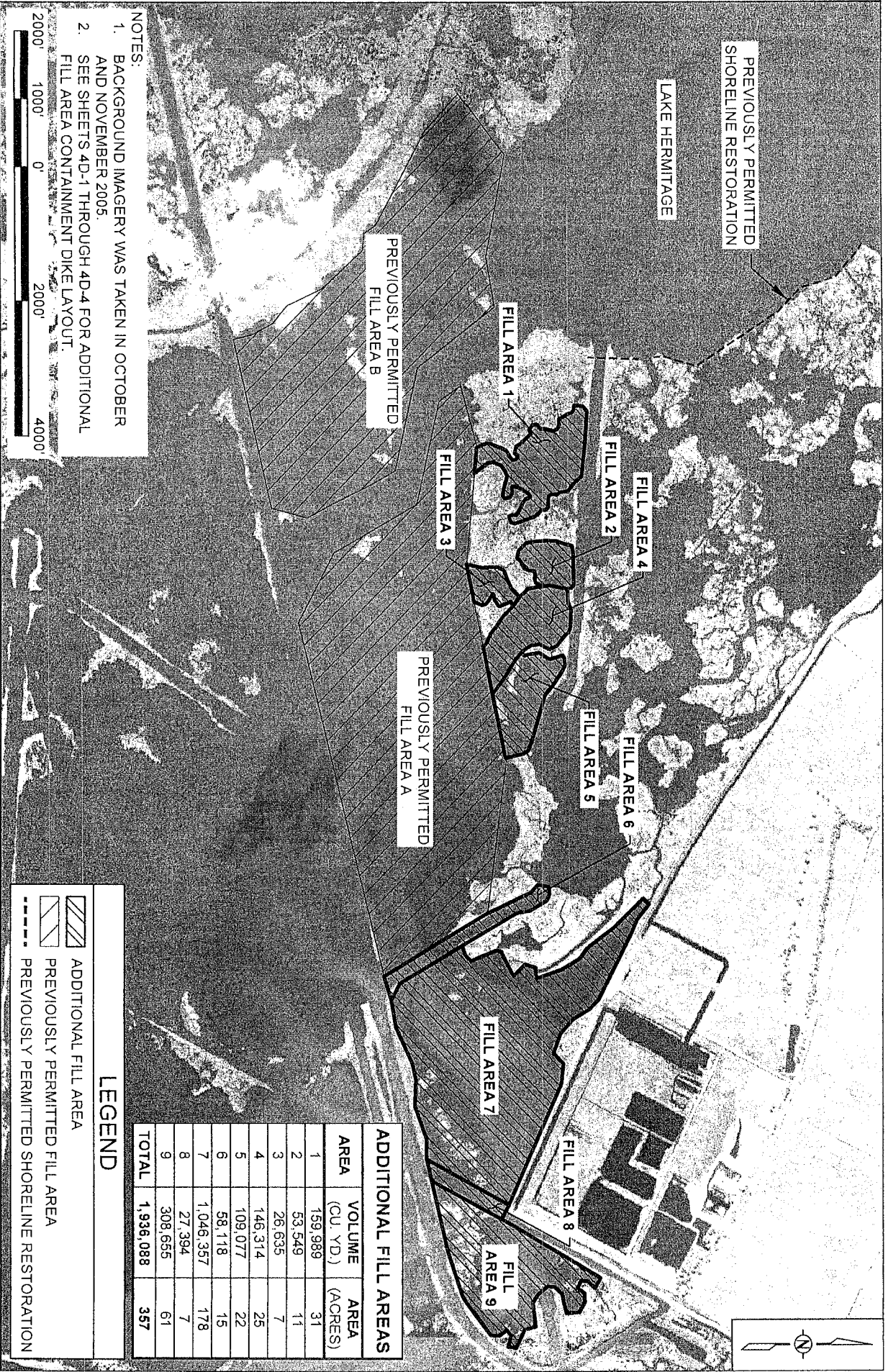
STATE PROJECT NUMBER: BA-42

FEDERAL PROJECT NUMBER:

DATE: JANUARY 2009

SHEET 3 OF 15





ADDITIONAL FILL AREAS		
AREA	VOLUME (CU YD.)	AREA (ACRES)
1	159,989	31
2	53,549	11
3	26,635	7
4	146,314	25
5	109,077	22
6	58,118	15
7	1,046,357	178
8	27,394	7
9	308,655	61
<b>TOTAL</b>	<b>1,936,088</b>	<b>357</b>

LEGEND	
	ADDITIONAL FILL AREA
	PREVIOUSLY PERMITTED FILL AREA
	PREVIOUSLY PERMITTED SHORELINE RESTORATION

- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER AND NOVEMBER 2005.
  2. SEE SHEETS 4D-1 THROUGH 4D-4 FOR ADDITIONAL FILL AREA CONTAINMENT DIKE LAYOUT.



APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CAJUNDOME BLVD., SUITE 400  
 LAFAYETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

ADDITIONAL FILL  
 AREAS PLAN VIEW

STATE PROJECT NUMBER: BA-42

DATE: MAY 2013 (MOD. 3)

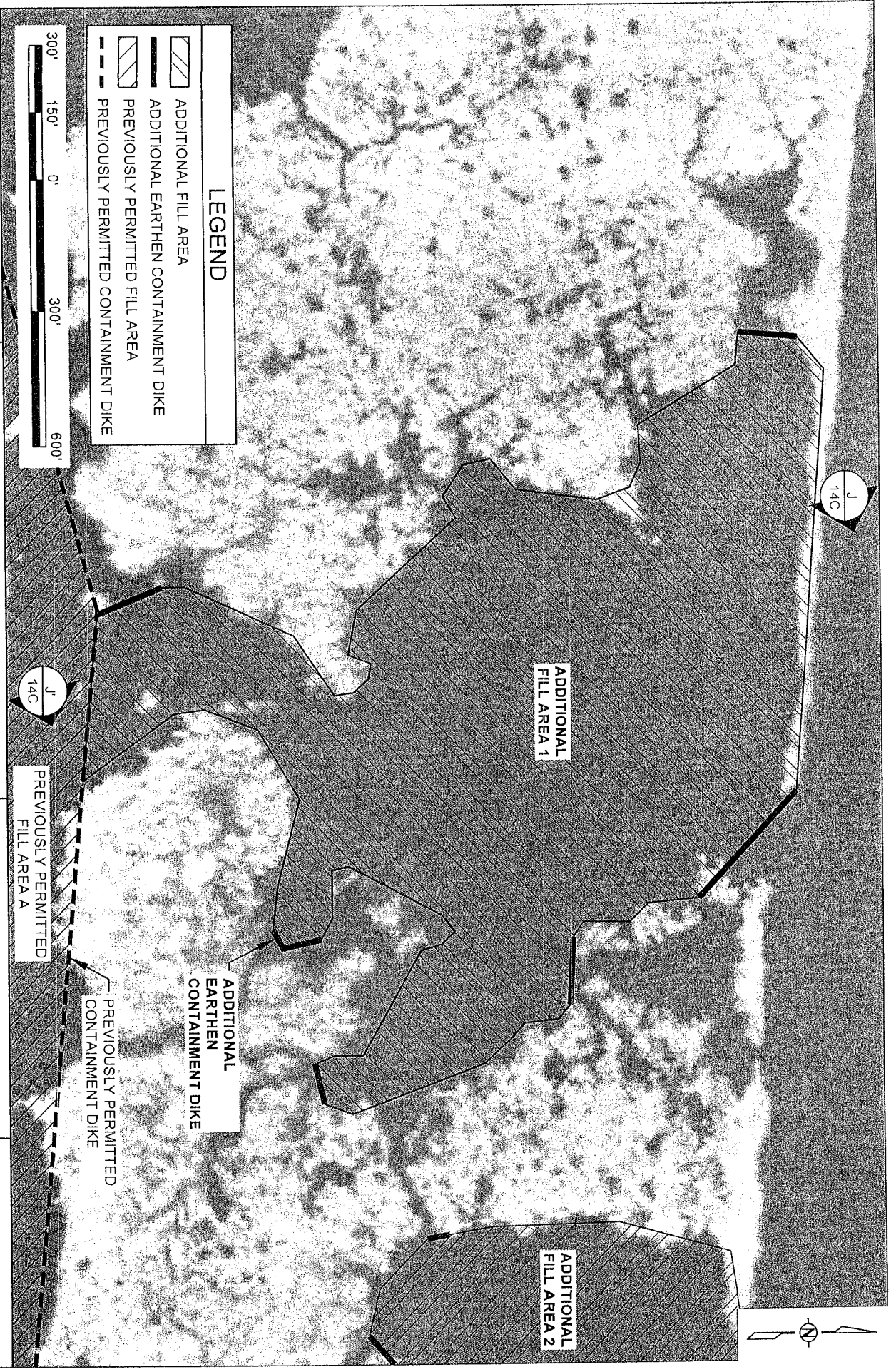
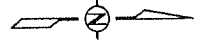
DRAWN BY: KRISTI CANTU

DESIGNED BY: RUDY SIMONEAUX





APPROVED BY: MAURY CHATELLIER

FEDERAL PROJECT NUMBER:

SHEET 4D OF 15



### LEGEND

-  ADDITIONAL FILL AREA
-  ADDITIONAL EARTHEN CONTAINMENT DIKE
-  PREVIOUSLY PERMITTED FILL AREA
-  PREVIOUSLY PERMITTED CONTAINMENT DIKE



APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 648 CAUDROUVE BLVD SUITE 400  
 LA FAYETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

ADDITIONAL FILL  
 AREA 1 PLAN VIEW

STATE PROJECT NUMBER: BA-42

DATE: MAY 2013 (MOD. 3)

DRAWN BY: KRISTI CANTU

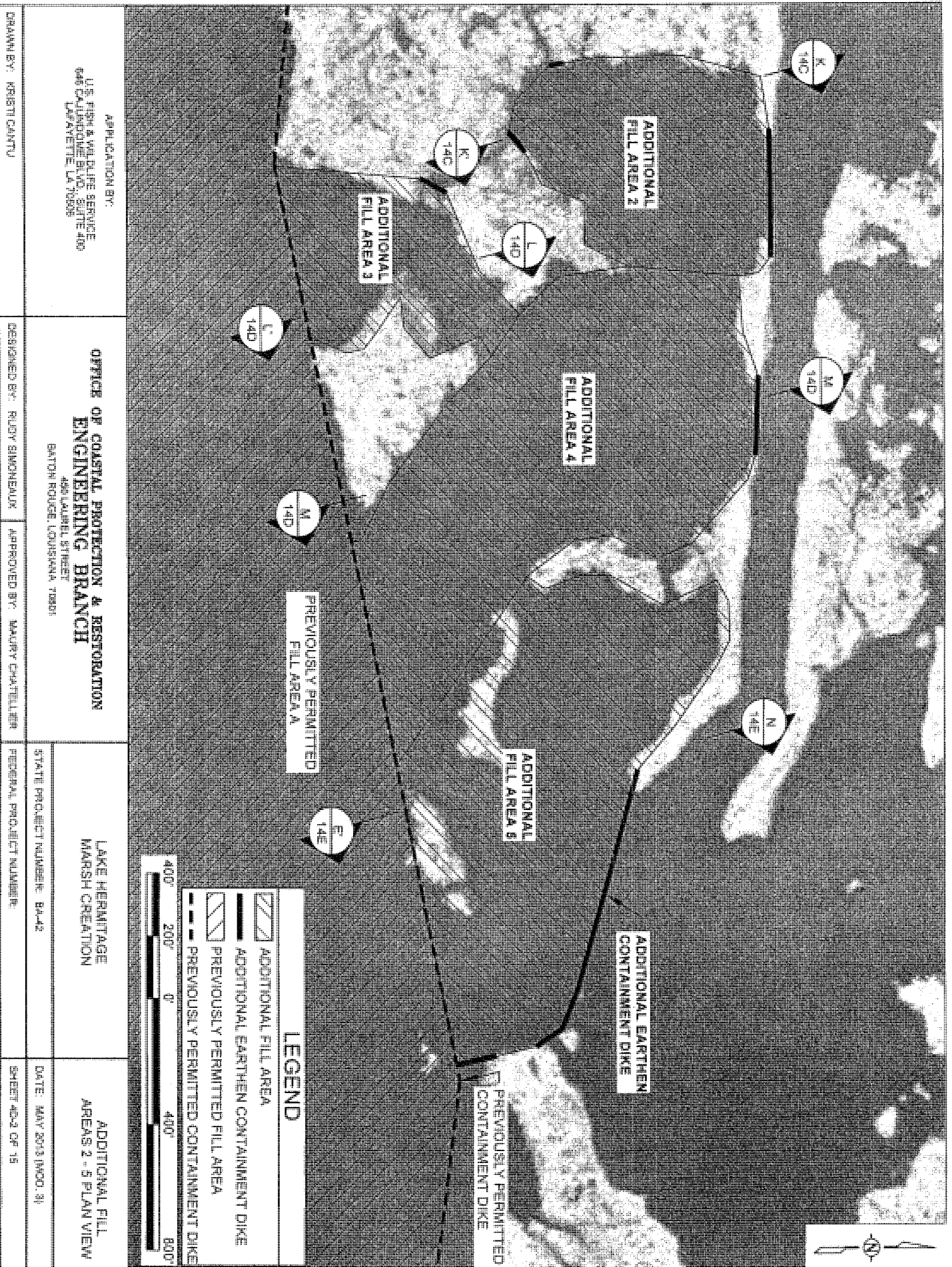
DESIGNED BY: RUDY SIMONEAUX

APPROVED BY: MAURY CHATELLIER

FEDERAL PROJECT NUMBER:

SHEET 4D-1 OF 15





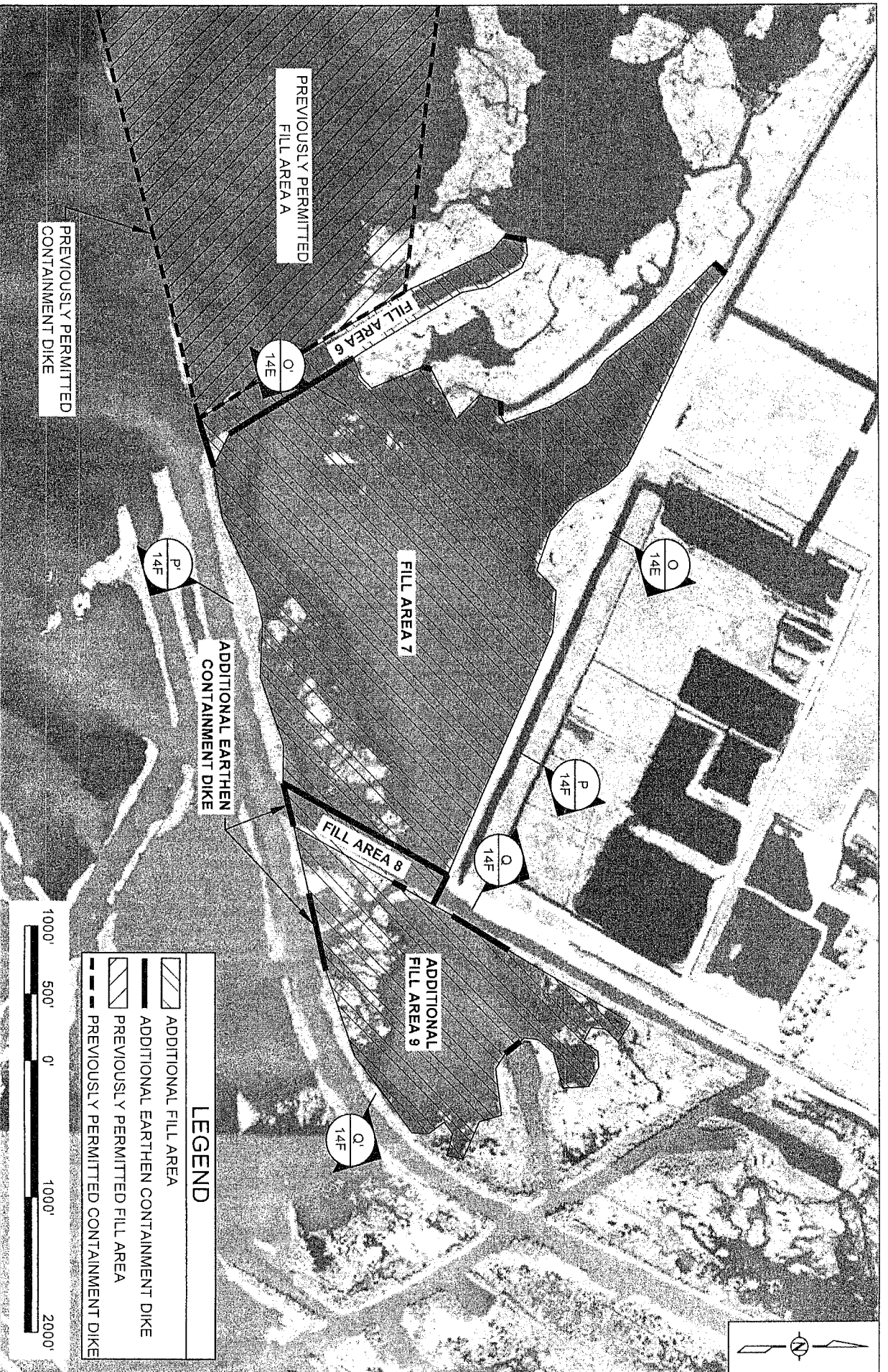
APPLICATION BY:  
 U.S. ARMY & NAVY ENGINE SERVICE  
 6400 CALHOUN BLVD. SUITE 400  
 LAHAYETTE, LA 70508

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 CALUMEL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

ADDITIONAL FILL  
 AREAS 2 - 5 PLAN VIEW

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONBAUM	APPROVED BY: MAURY CHATFIELD	STATE PROJECT NUMBER: BA-42	DATE: MAY 2013 (DODG 3)
			FEDERAL PROJECT NUMBER:	SHEET 40-2 OF 15



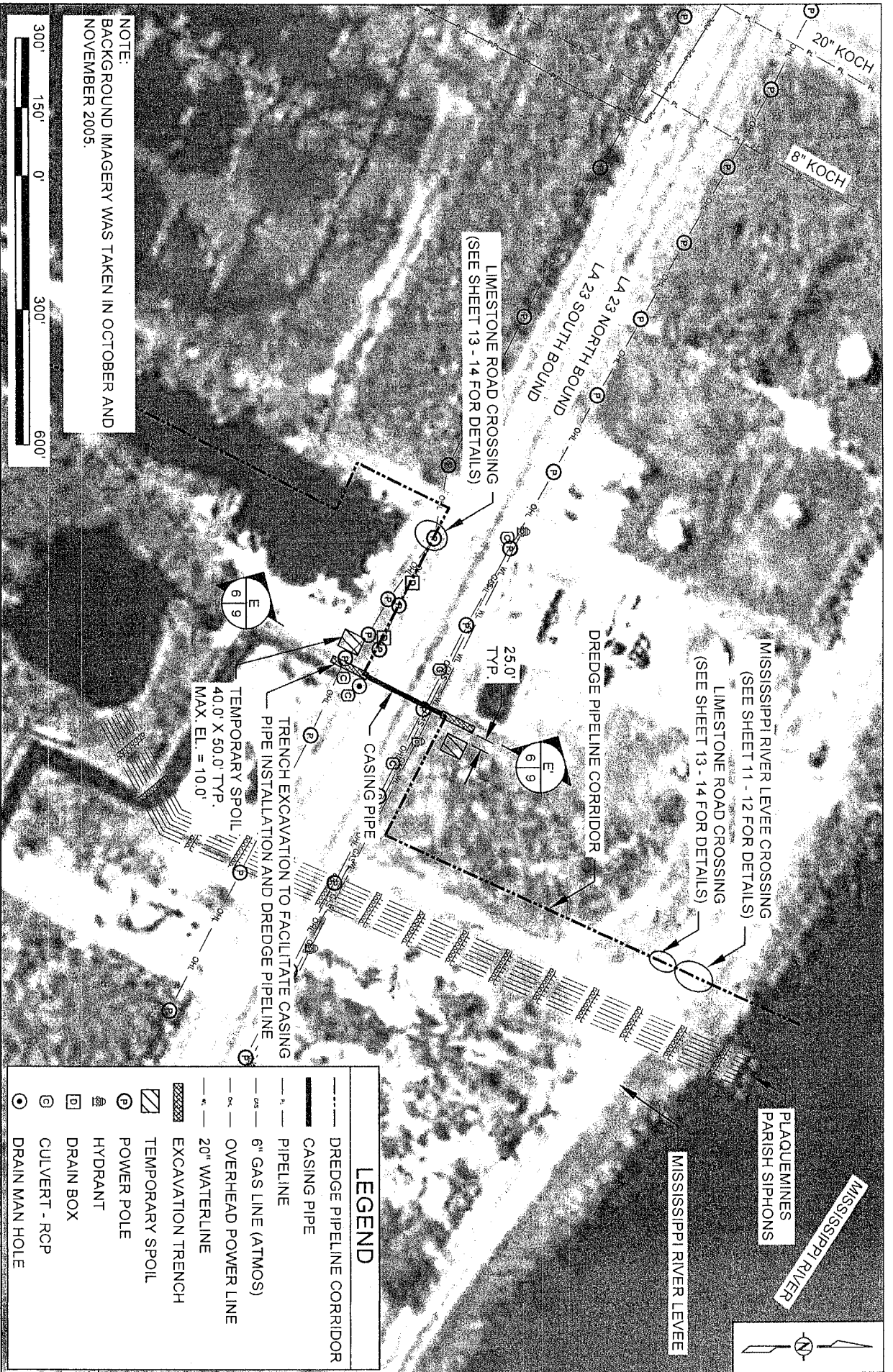
APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CALJUNDDOME BLVD, SUITE 400  
 LA FAYETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

ADDITIONAL FILL  
 AREA 6 - 9 PLAN VIEW

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	FEDERAL PROJECT NUMBER: BA-42	DATE: MAY 2013 (MOD. 3)
			STATE PROJECT NUMBER: BA-42	SHEET 4D-3 OF 15



NOTE:  
 BACKGROUND IMAGERY WAS TAKEN IN OCTOBER AND  
 NOVEMBER 2005.



APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CAJUNDOME BLVD., SUITE 400  
 LAFAYETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUDY SIMONEAUX

APPROVED BY: MAURY CHATELLIER

LAKE HERMITAGE  
 MARSH CREATION

STATE PROJECT NUMBER: BA-42

FEDERAL PROJECT NUMBER:

DREDGE PIPELINE  
 CROSSINGS

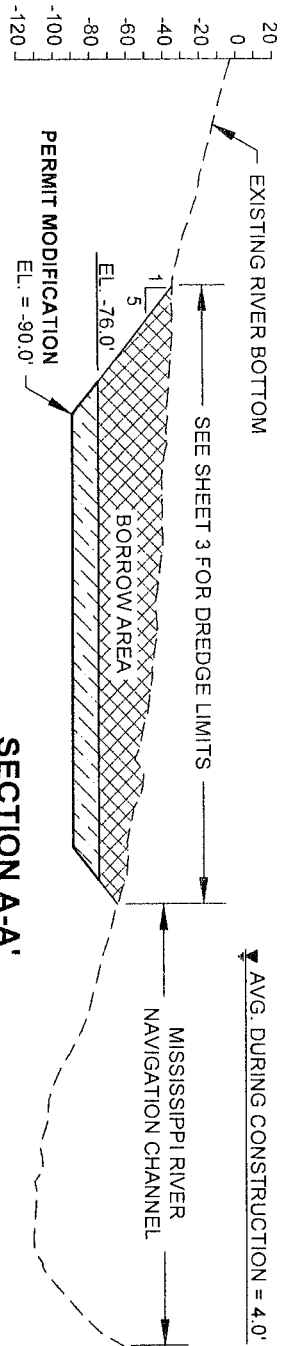
DATE: JANUARY 2009

SHEET 6 OF 15

**LEGEND**

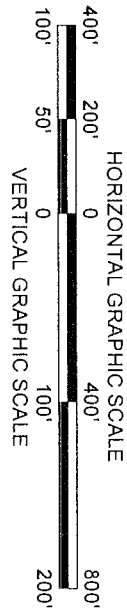
- DREDGE PIPELINE CORRIDOR
- CASING PIPE
- PIPELINE
- 6" GAS LINE (ATMOS)
- OVERHEAD POWER LINE
- 20" WATERLINE
- EXCAVATION TRENCH
- TEMPORARY SPOIL
- POWER POLE
- HYDRANT
- DRAIN BOX
- CULVERT - RCP
- DRAIN MAN HOLE

ELEVATIONS IN FEET, NAVD 88

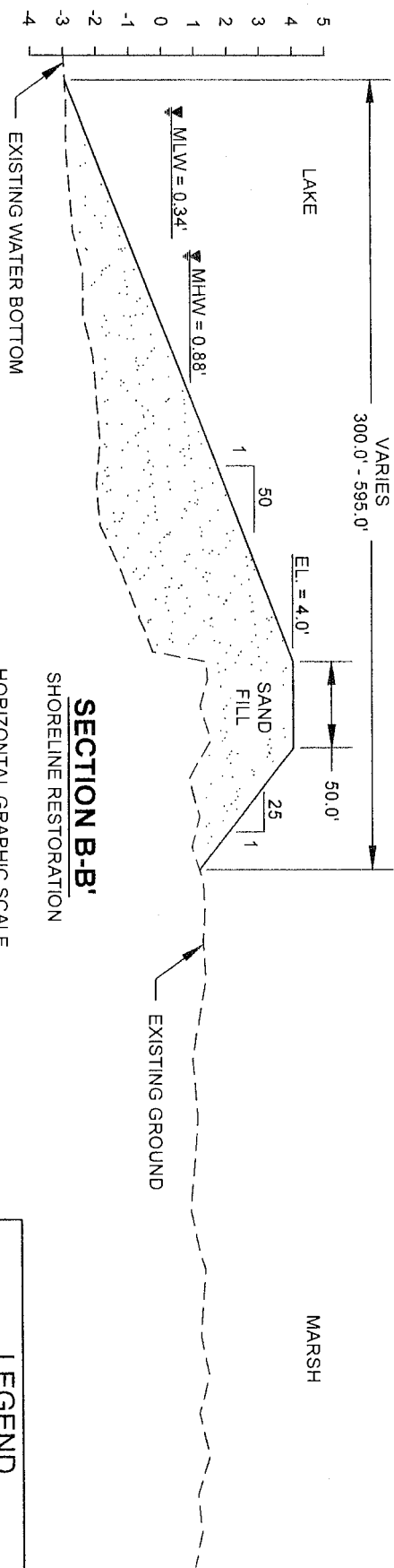


**SECTION A-A'**  
MISSISSIPPI RIVER BORROW AREA

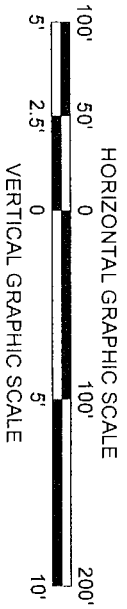
**PERMIT MODIFICATION NOTE:**  
THE PREVIOUSLY PERMITTED MAXIMUM CUT ELEVATION IS -76 NAVD88. THE REQUESTED MODIFICATION ELEVATION IS -90 NAVD88.



ELEVATIONS IN FEET, NAVD 88



**SECTION B-B'**  
SHORELINE RESTORATION



LEGEND	
	EXISTING WATER BOTTOM
	BORROW AREA
	SAND FILL

APPLICATION BY:  
U.S. FISH & WILDLIFE SERVICE  
648 CALUMONIE BLVD., SUITE 400  
LAFAYETTE, LA 70508

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
MARSH CREATION

TYPICAL SECTIONS

STATE PROJECT NUMBER: BA-42

DATE: MAY 2013 (MOD. 3)

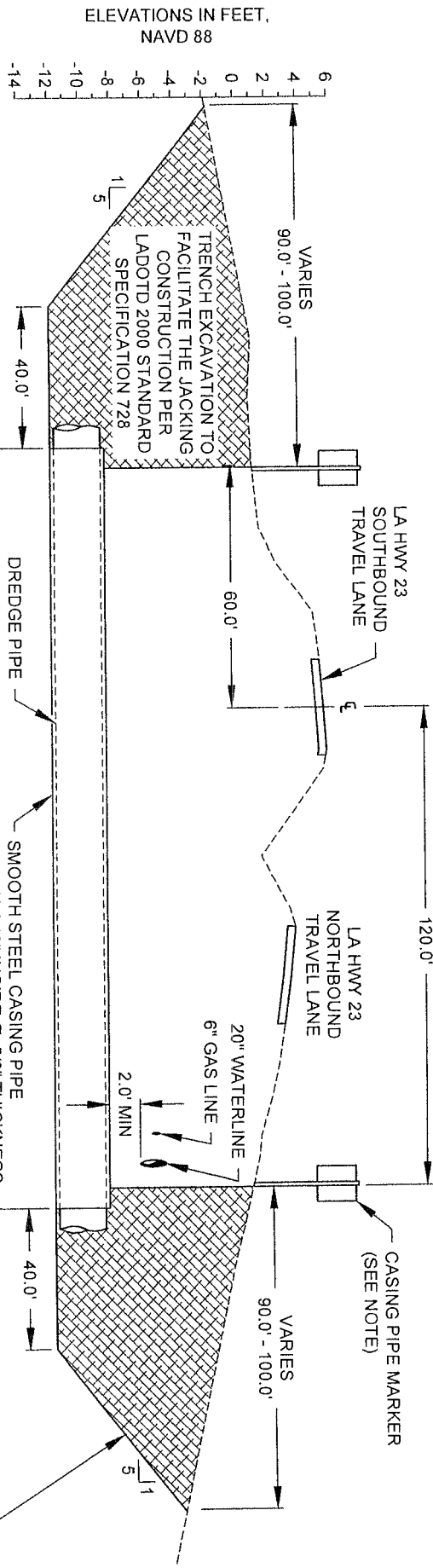
DRAWN BY: KRISTI CANTU

DESIGNED BY: RUDY SIMONEAUX

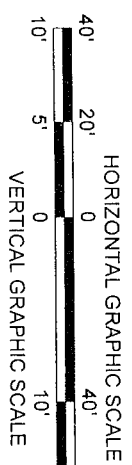
APPROVED BY: MAURY CHATELIER

FEDERAL PROJECT NUMBER:

SHEET 7B OF 15



**SECTION E-E'**  
HIGHWAY CROSSING



NOTE:  
PERMANENT CASING PIPE MARKER INDICATING  
OWNER AND PLAQUEMINES PARISH  
GOVERNMENT CONTACT INFORMATION SHALL  
BE PLACED AT EACH SIDE OF HIGHWAY.

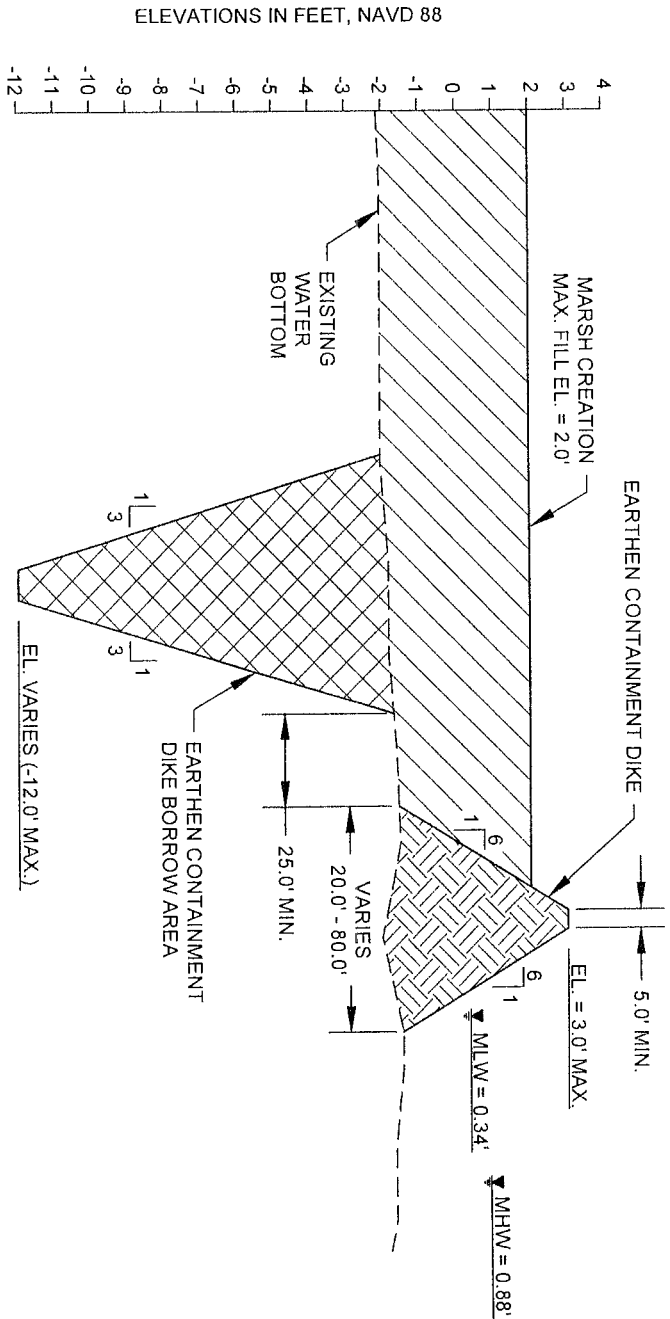
APPLICATION BY:  
U.S. FISH & WILDLIFE SERVICE  
646 CAJUNDOME BLVD. SUITE 400  
LAFALETTE, LA 70506

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
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BATON ROUGE, LOUISIANA 70801

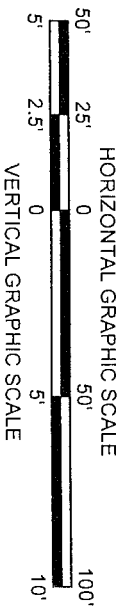
LAKE HERMITAGE  
MARSH CREATION

HIGHWAY CROSSING  
SECTION

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	FEDERAL PROJECT NUMBER:	STATE PROJECT NUMBER: BA-42	DATE: JANUARY 2009
					SHEET 9 OF 15

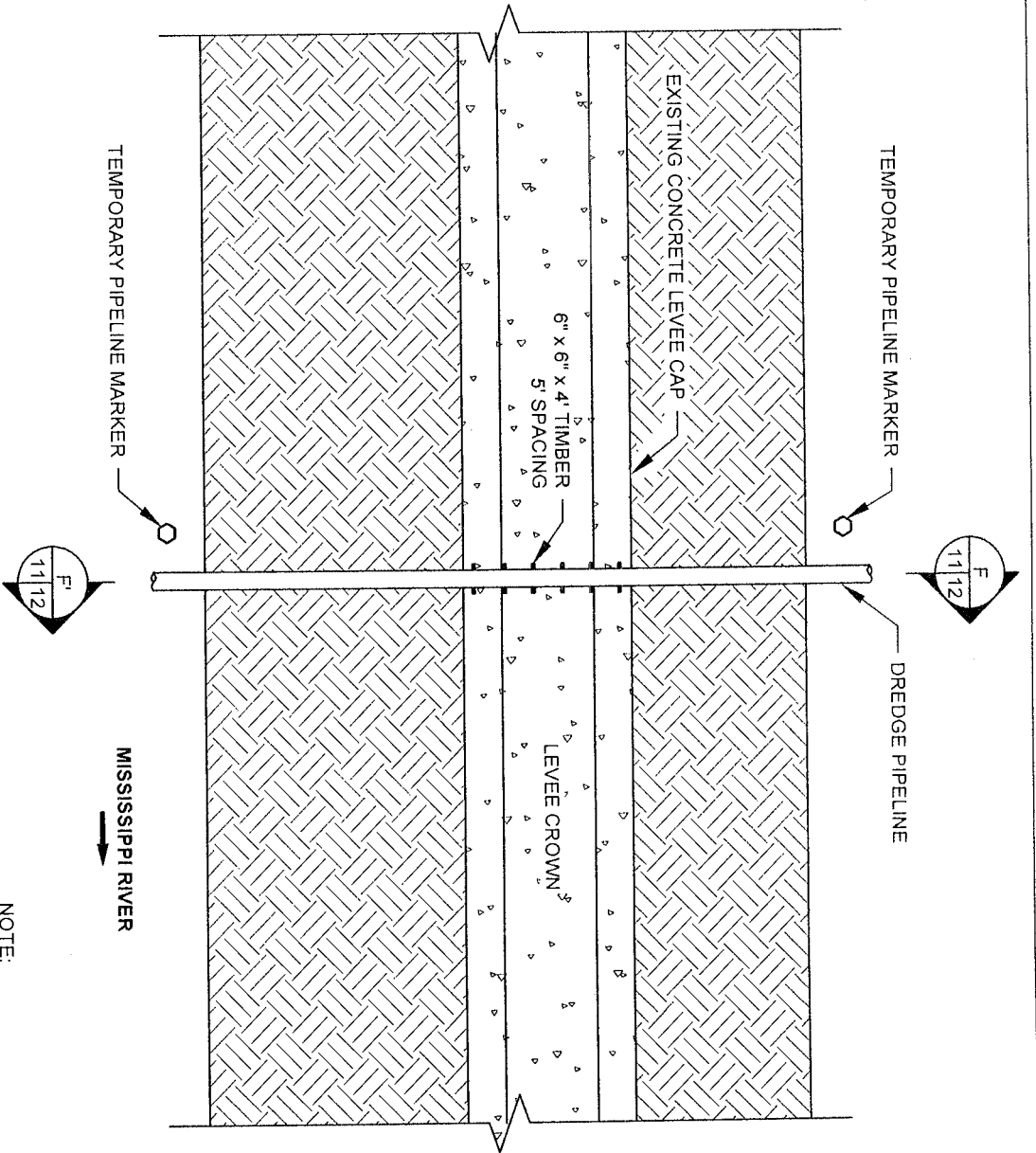


## EARTHEN CONTAINMENT DIKE DETAIL



LEGEND	
---	EXISTING GROUNDWATER BOTTOM
/ / /	MARSH CREATION (FILL)
\ \ \	EARTHEN CONTAINMENT DIKE
X X X	BORROW AREA

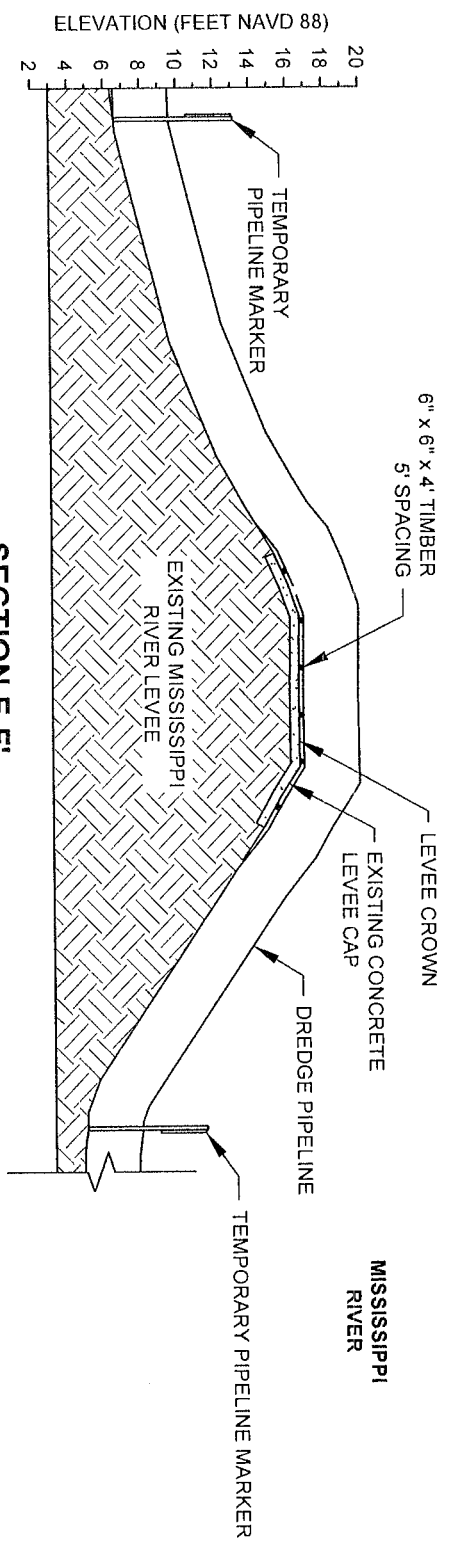
APPLICATION BY: U. S. FISH & WILDLIFE SERVICE 646 CALUMBOME BLVD, SUITE 400 LAFALETTE, LA 70506	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	LAKE HERMITAGE MARSH CREATION
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	STATE PROJECT NUMBER: BA-42
APPROVED BY: MAURY CHATELLIER		FEDERAL PROJECT NUMBER:
G:\Users\Autocad\BASINS\BA\BA-42 Lake Hermitage\Permit\10 Containment Detail.dwg, 5/28/2013 11:46:23 AM		DATE: JANUARY 2009
SHEET 10 OF 15		



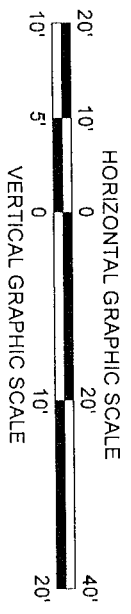
**MISSISSIPPI RIVER LEVEE  
PLAN VIEW**

NOTE:  
 TEMPORARY PIPELINE MARKERS INDICATING OWNER,  
 CONTENTS, AND ADDRESS FOR CONTACTING OWNER  
 SHALL BE PLACED AND MAINTAINED AT EACH TOE OF  
 THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY: U. S. FISH & WILDLIFE SERVICE 646 CAJUNDOME BLVD., SUITE 400 LA FAYETTE, LA 70506	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	LAKE HERMITAGE MARSH CREATION	MISSISSIPPI RIVER LEVEE CROSSING DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	STATE PROJECT NUMBER: BA-42 FEDERAL PROJECT NUMBER:	DATE: JANUARY 2009 SHEET 11 OF 15



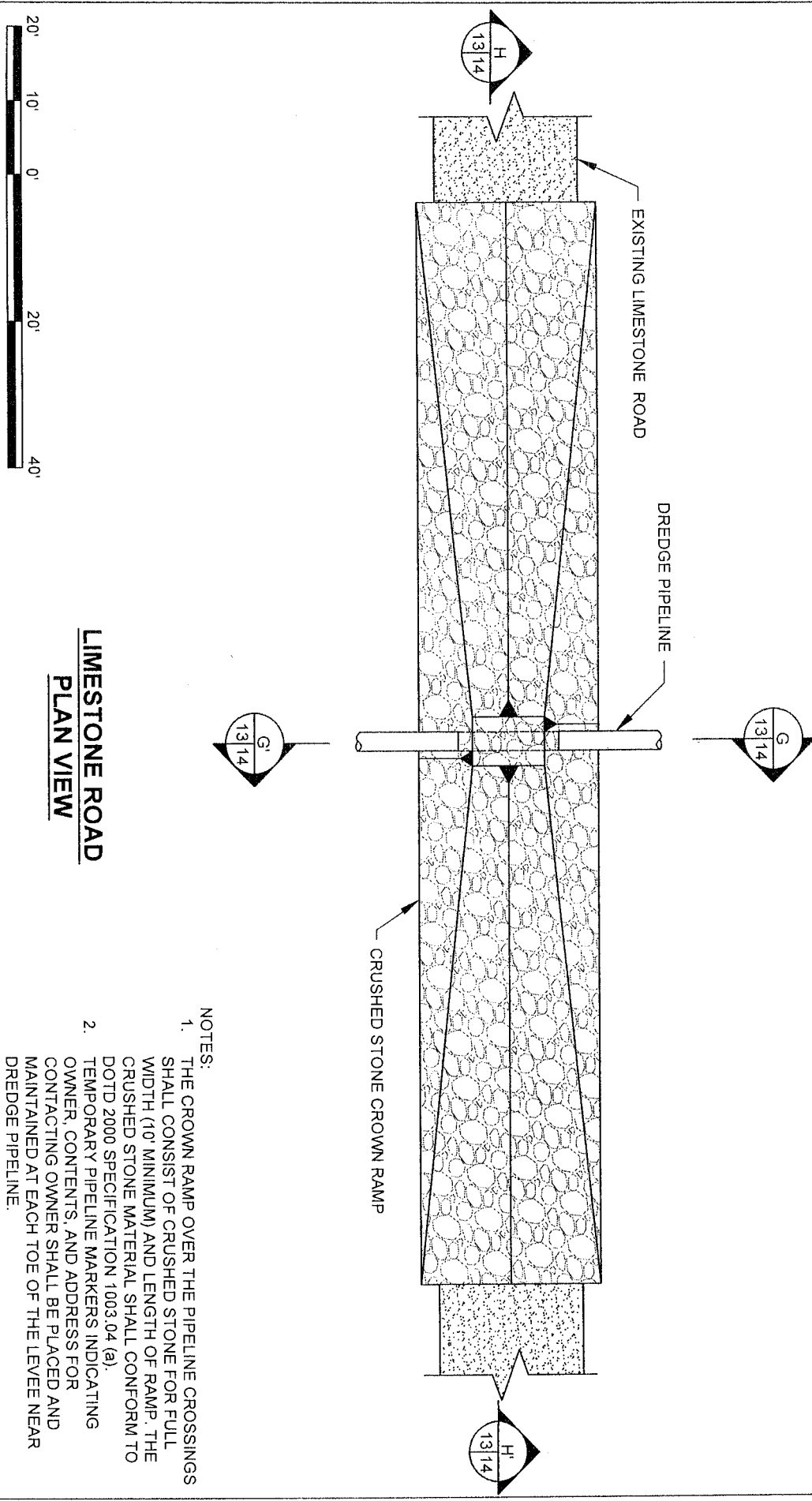
**SECTION F-F'**



NOTE:  
 PERMANENT CASING PIPE MARKER INDICATING  
 OWNER AND PLAQUEMINES PARISH  
 GOVERNMENT CONTACT INFORMATION SHALL  
 BE PLACED AT EACH SIDE OF HIGHWAY.

APPLICATION BY: U.S. FISH & WILDLIFE SERVICE 646 CAJUNDOME BLVD., SUITE 400 LAFAVETTE, LA 70506		<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION          ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	LAKE HERMITAGE MARSH CREATION
MISSISSIPPI RIVER LEVEE CROSSING DETAILS	STATE PROJECT NUMBER: BA-42	FEDERAL PROJECT NUMBER:	DATE: JANUARY 2009
SHEET 12 OF 15			





**LIMESTONE ROAD  
PLAN VIEW**

- NOTES:
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2000 SPECIFICATION 1003.04 (a).
  2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY:  
 JEFFERSON PARISH COUNCIL  
 1221 ELMWOOD PARK BLVD., 1ST FLOOR  
 JEFFERSON, LA 70129

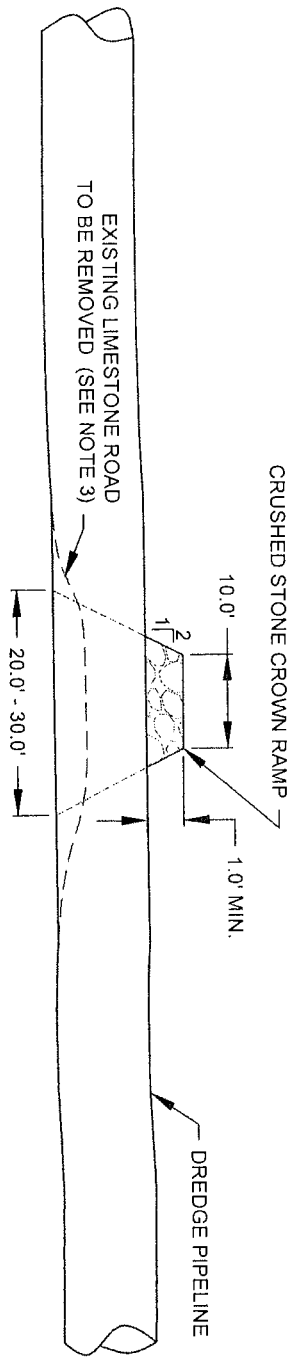
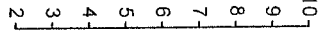
**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

TYPICAL LIMESTONE ROAD  
 CROSSING DETAILS

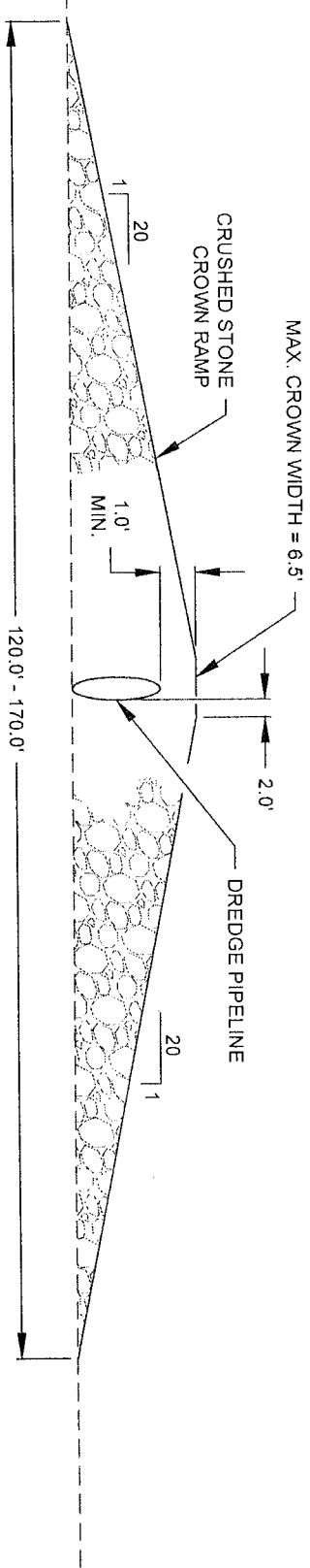
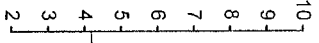
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	STATE PROJECT NUMBER: BA-42	DATE: JANUARY 2009
			FEDERAL PROJECT NUMBER: BA-42	SHEET 13 OF 15

ELEVATIONS IN FEET, NAVD 88



**SECTION G-G'**

ELEVATIONS IN FEET, NAVD 88



**SECTION H-H'**

- NOTES:
1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE LEVEE.
  2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.
  3. THE EXISTING LIMESTONE ROAD SHALL BE REMOVED FOR EASE OF CONSTRUCTION. AFTER THE REMOVAL OF DREDGE PIPE, THE ROAD SHALL BE REBUILT TO PRIOR CONDITION.



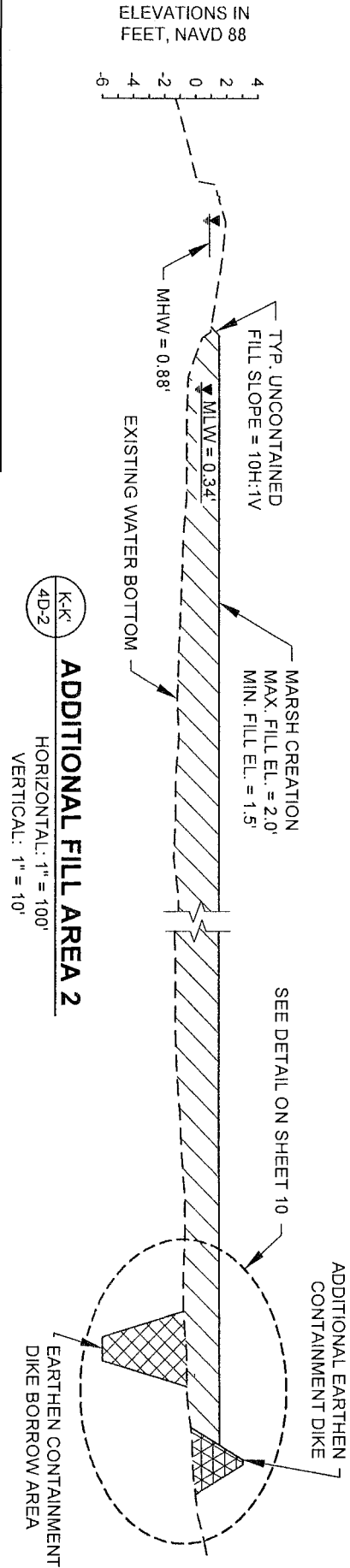
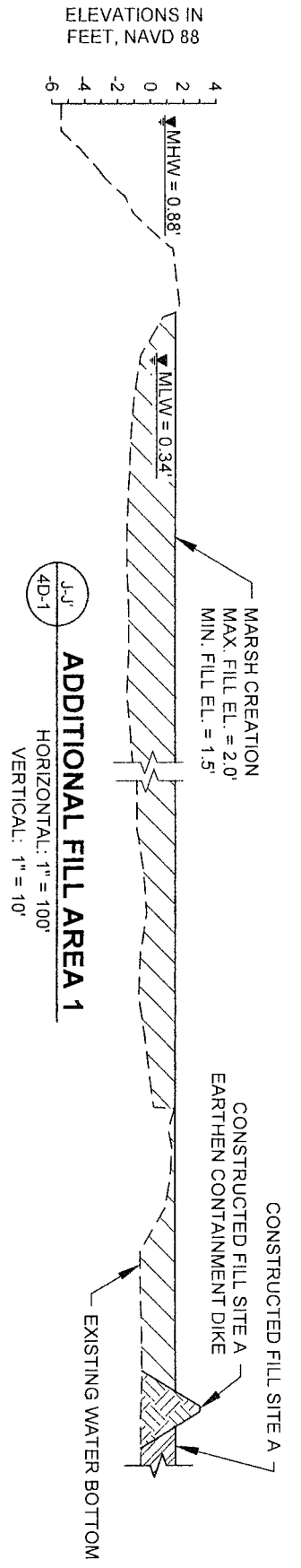
APPLICATION BY:  
 JEFFERSON PARISH COUNCIL  
 1221 ELMWOOD PARK BLVD., 10TH FLOOR  
 JEFFERSON, LA 70123

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

TYPICAL LIMESTONE ROAD  
 CROSSING DETAILS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	STATE PROJECT NUMBER: BA-42	DATE: JANUARY 2009
G:\Users\Autocad\BASINS\BA\BA-42 Lake Hermitage\Permit\13-14 Limestone Rd. Crossin\dwg. 5/28/2013 11:46:29 AM			FEDERAL PROJECT NUMBER: BA-42	SHEET 14 OF 15



**LEGEND**

	EXISTING GROUNDWATER BOTTOM
	ADDITIONAL MARSH CREATION (FILL)
	ADDITIONAL EARTHEN CONTAINMENT DIKE
	BORROW AREA
	CONSTRUCTED EARTHEN CONTAINMENT DIKE
	CONSTRUCTED MARSH CREATION (FILL)



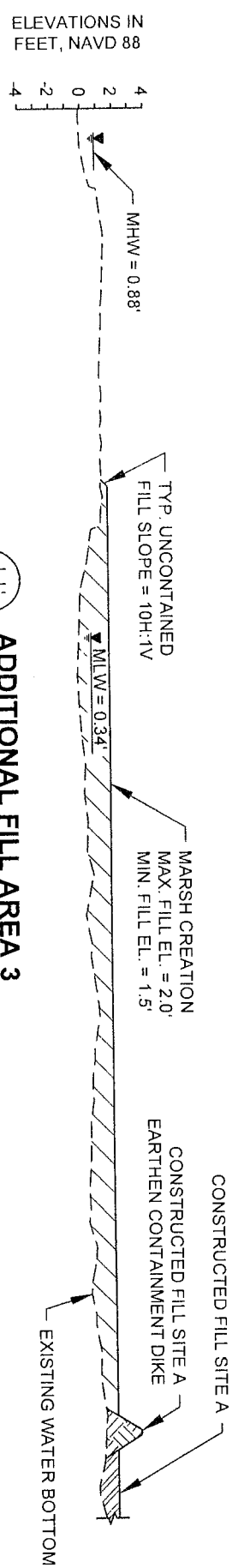
APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CALUNDOME BLVD., SUITE 400  
 LAFAYETTE, LA 70506

**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

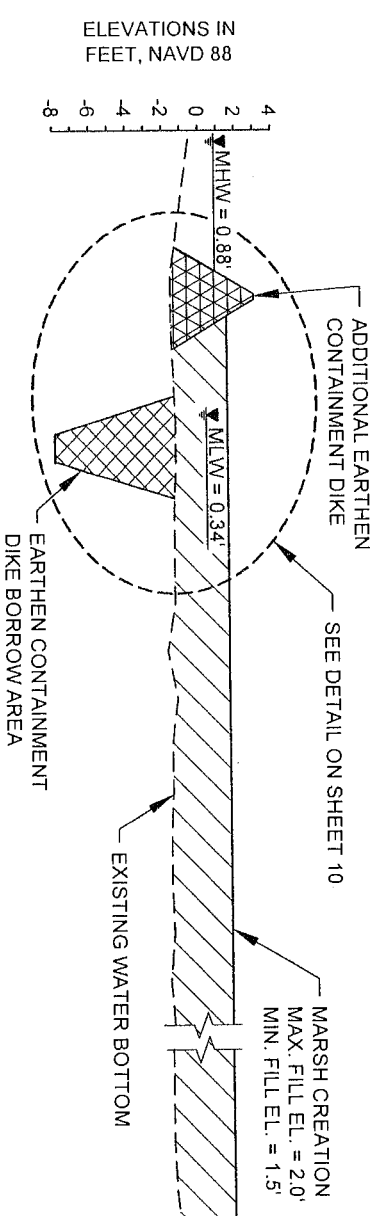
LAKE HERMITAGE  
 MARSH CREATION

TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELIER
STATE PROJECT NUMBER: BA-42	FEDERAL PROJECT NUMBER:	DATE: MAY 2013 (MOD. 3)
		SHEET 14C OF 15



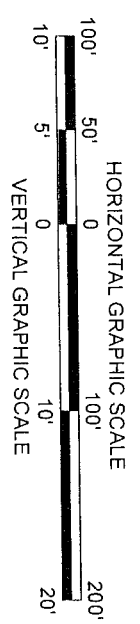
**4D-2**  
**ADDITIONAL FILL AREA 3**  
 HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'



**4D-2**  
**ADDITIONAL FILL AREA 4**  
 HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'

**LEGEND**

	EXISTING GROUNDWATER BOTTOM
	ADDITIONAL MARSH CREATION (FILL)
	ADDITIONAL EARTHEN CONTAINMENT DIKE
	BORROW AREA
	CONSTRUCTED EARTHEN CONTAINMENT DIKE
	CONSTRUCTED MARSH CREATION (FILL)



APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CAJUNDOME BLVD., SUITE 400  
 LAFAVETTE, LA 70506

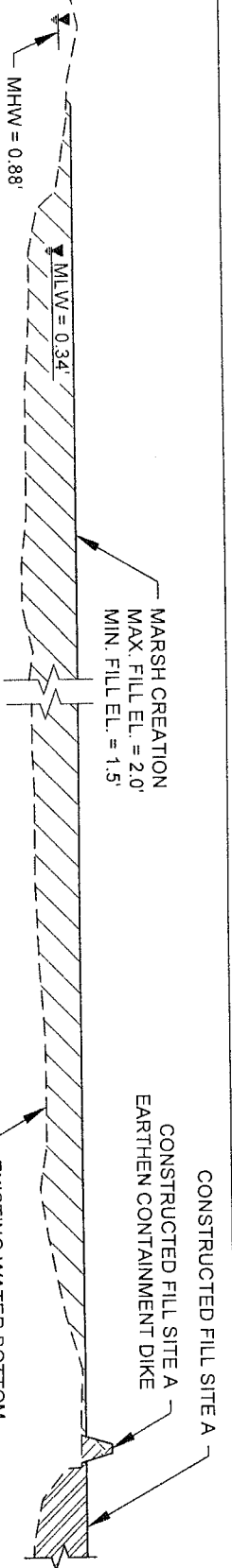
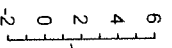
OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
 MARSH CREATION

TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	STATE PROJECT NUMBER: BA-42	DATE: MAY 2013 (MOD. 3)
			FEDERAL PROJECT NUMBER:	SHEET 14D OF 15

ELEVATIONS IN FEET, NAVD 88

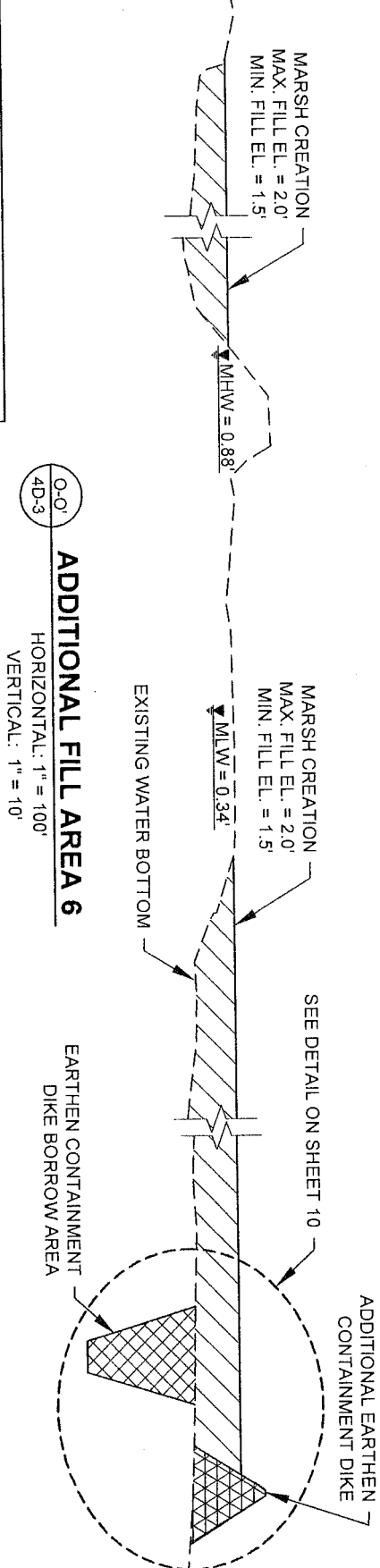
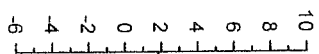


N-N'  
4D-2

**ADDITIONAL FILL AREA 5**

HORIZONTAL: 1" = 100'  
VERTICAL: 1" = 10'

ELEVATIONS IN FEET, NAVD 88



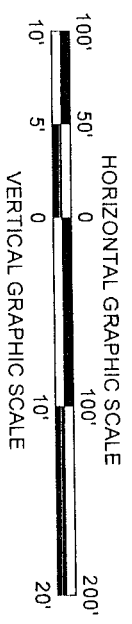
O-O'  
4D-3

**ADDITIONAL FILL AREA 6**

HORIZONTAL: 1" = 100'  
VERTICAL: 1" = 10'

**LEGEND**

	EXISTING GROUNDWATER BOTTOM
	ADDITIONAL MARSH CREATION (FILL)
	ADDITIONAL EARTHEN CONTAINMENT DIKE
	BORROW AREA
	CONSTRUCTED EARTHEN CONTAINMENT DIKE
	CONSTRUCTED MARSH CREATION (FILL)



APPLICATION BY:

U. S. FISH & WILDLIFE SERVICE  
646 CAJUNDOME BLVD., SUITE 400  
LAFAYETTE, LA 70506

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
MARSH CREATION

TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUDY SIMONEAUX

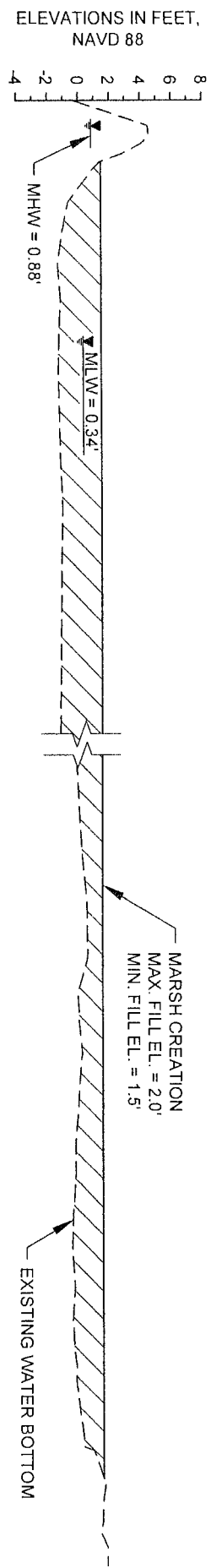
APPROVED BY: MAURY CHATELLIER

FEDERAL PROJECT NUMBER:

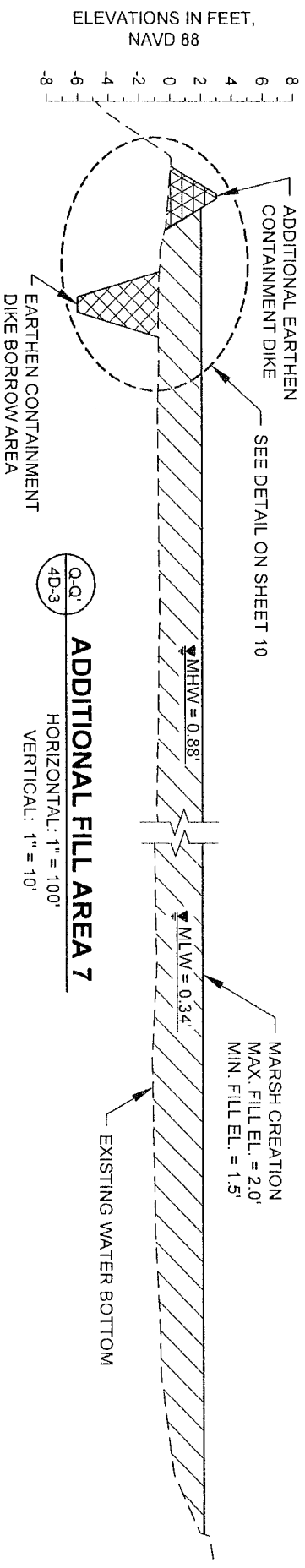
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SHEET 14E OF 15

DATE: MAY 2013 (MOD. 3)



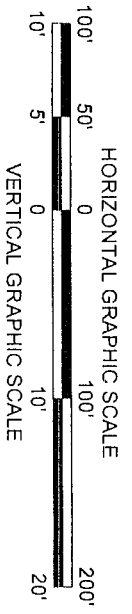
**P-P'**  
**4D-3**  
**ADDITIONAL FILL AREA 6**  
 HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'



**Q-Q'**  
**4D-3**  
**ADDITIONAL FILL AREA 7**  
 HORIZONTAL: 1" = 100'  
 VERTICAL: 1" = 10'

**LEGEND**

	EXISTING GROUND/WATER BOTTOM
	ADDITIONAL MARSH CREATION (FILL)
	ADDITIONAL EARTHEN CONTAINMENT DIKE
	BORROW AREA



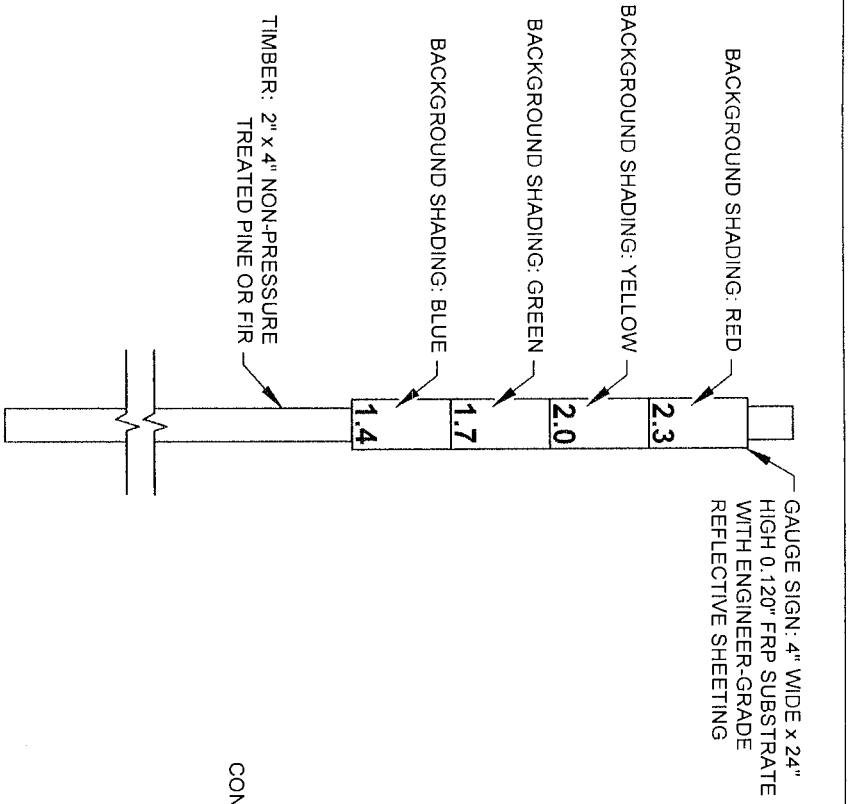
APPLICATION BY:  
 U.S. FISH & WILDLIFE SERVICE  
 646 CALUMDOME BLVD., SUITE 400  
 LAFAYETTE, LA 70506

**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

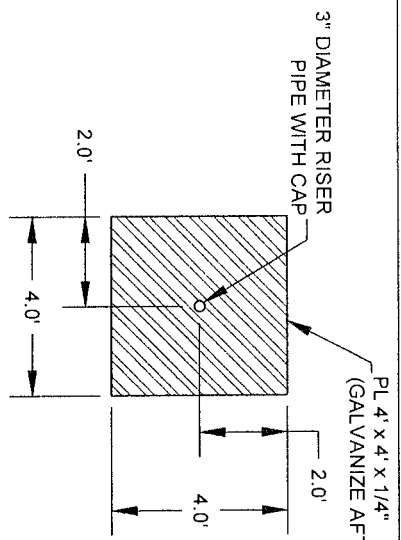
LAKE HERMITAGE  
 MARSH CREATION

TYPICAL SECTIONS

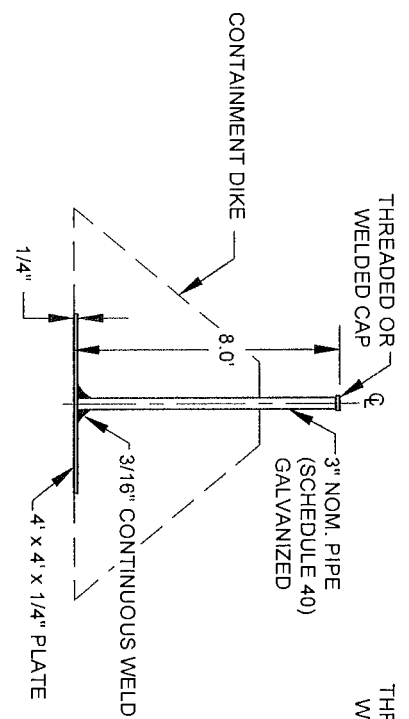
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELIER	STATE PROJECT NUMBER: BA-42	DATE: MAY 2013 (MOD. 3)
			FEDERAL PROJECT NUMBER:	SHEET 14F OF 15



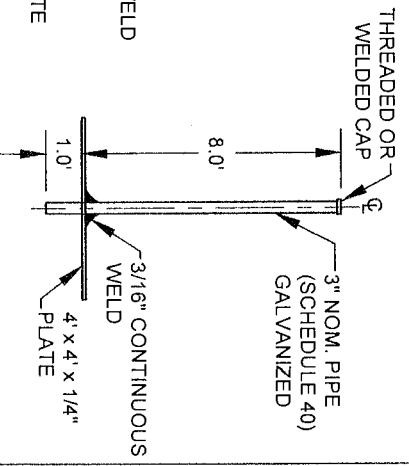
**GRADE STAKE**  
NOT TO SCALE



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



**EARTHEN CONTAINMENT DIKE SETTLEMENT PLATE**  
NOT TO SCALE



**MARSH CREATION SETTLEMENT PLATE**  
NOT TO SCALE

- GRADE STAKE NOTES:**
1. THE SIGNS SHALL HAVE THE DIMENSIONS, NUMBERING, AND SHADING AS SHOWN.
  2. THE GAUGE SIGN SHALL BE CONSTRUCTED OF 0.120" THICK FIBERGLASS REINFORCED PLASTIC (FRP) WHICH HAS BEEN UV STABILIZED FOR OUTDOOR WEATHERABILITY. THE FRP MATERIAL SHALL BE WHITE OR GRAY IN COLOR AND BE TOTALLY DIELECTRIC AND NON-CONDUCTIVE. THE FRP MATERIAL STRENGTH AND IMPACT RESISTANCE SHOULD NOT BE APPRECIABLY AFFECTED OVER A TEMPERATURE RANGE OF -65 TO + 212 DEGREES FAHRENHEIT.
  3. THIS WORK CONSISTS OF FURNISHING, ASSEMBLING, AND INSTALLING THE REQUIRED MATERIAL FOR GRADE STAKES. THE GRADE STAKES SHALL BE USED BY THE CONTRACTOR TO MONITOR ELEVATIONS OF THE MARSH FILL WITHIN THE FILL AREA. IF MARSH FILL AREAS ARE DEEMED INACCESSIBLE BY THE ENGINEER FOR PAYMENT SURVEYS AFTER PLACEMENT OF THE FILL, THE CONTRACTOR SHALL USE THE GRADE STAKES TO DETERMINE ELEVATIONS AND VOLUMES. IN SUCH CASE THE CONTRACTOR SHALL DETERMINE MARSH ELEVATION FROM VISUAL INSPECTIONS OF THE GRADE STAKES UNDER DIRECT SUPERVISION OF THE INSPECTOR.

APPLICATION BY:  
U S FISH & WILDLIFE SERVICE  
646 CALUDROME BLVD SUITE 400  
LAURELLETTE, LA 70506

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

LAKE HERMITAGE  
MARSH CREATION

DETAILS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUDY SIMONEAUX	APPROVED BY: MAURY CHATELLIER	STATE PROJECT NUMBER: BA-42	DATE: JANUARY 2009
			FEDERAL PROJECT NUMBER:	SHEET 15 OF 15