



DEPARTMENT OF THE ARMY  
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 60267  
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO  
ATTENTION OF  
Operations Division  
Eastern Evaluation Section

OCT 15 2015

SUBJECT: MVN-2009-1353-EPP

Coastal Protection & Restoration Authority of Louisiana &  
Louisiana Department of Transportation & Development  
c/o Moffat & Nichol  
301 Main Street, Suite 800  
Baton Rouge, Louisiana 70825

Gentlemen:

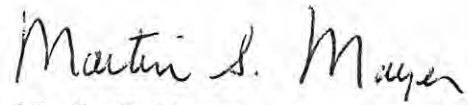
Revised drawings, enclosed in fifty three sheets, furnished with your Department of the Army permit application dated July 17, 2015, to dredge to construct a sediment pipeline corridor and marsh restoration/nourishment area, located within the Mississippi River, between 67 to 60 miles above Head of Passes, crossing and south of Highway 23, near Naomi, in Plaquemines and Jefferson Parishes, Louisiana, are approved and supersede those included in the work authorized by the Secretary of the Army in a permit dated February 19, 2013, and subsequently modified July 31, 2014, from the District Engineer at New Orleans, Louisiana.

The conditions to which the work is made subject shall remain in full force and effect.

A copy of the first page of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

Please find enclosed this District's decision pursuant to 33 USC 408 (Section 408) concerning your request to alter or occupy an existing US Army Corps of Engineers Civil Works Project. Questions concerning the enclosed permission should be directed to the point of contact provided in the Section 408 permission letter.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

A handwritten signature in black ink that reads "Martin S. Mayer". The signature is written in a cursive style with a large initial 'M'.

Martin S. Mayer  
Chief, Regulatory Branch  
for  
Richard L. Hansen  
Colonel, US Army  
District Commander

Enclosures

cc: Moffatt & Nichol



DEPARTMENT OF THE ARMY  
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS  
P. O. BOX 60267  
NEW ORLEANS, LOUISIANA 70160-0267

September 22, 2015

REPLY TO  
ATTENTION OF

Operations Division  
Operations Manager,  
Completed Works

Mr. Chris Williams  
Moffat & Nichol  
301 Main Street, Suite 800  
Baton Rouge, Louisiana 70825

Mr. Devyani Kar  
Coastal Protection and Restoration Authority  
Post Office Box 44027  
Baton Rouge, Louisiana 70804

Dear Mr. Williams and Mr. Kar:

Please reference our letter of no objection to Plaquemines Parish Government West Bank Levee District dated December 19, 2012, regarding a permit request (MVN-2009-01353-EFF) from Moffat & Nichol, on behalf of Coastal Protection and Restoration Authority, concerning permission to place a dredge pipe across the right descending Mississippi River levee, for the Mississippi River Long Distance Sediment Pipeline Project, vicinity of second order levee station 948+25, at La Reussite, Louisiana, in Plaquemines Parish.

Subsequently, we have received an application for a Department of the Army permit dated July 17, 2015, from Moffat & Nichol, on behalf of Coastal Protection and Restoration Authority, requesting approval for revisions to your original plans which includes placing the pipeline through existing siphons and the removal of the Myrtle Grove borrow area.

Pursuant to Section 14 of the Rivers and Harbors Act of 1899, 33 USC 408 (Section 408), we have no objection to the proposed project provided:

a. The work is accomplished in accordance with the above referenced application dated July 17, 2015, and accompanying revised drawings.

b. All excavation work within 1,500 feet of the Mississippi River levee shall be performed, completed and backfilled when the stage of the Mississippi River is below elevation +11.0 feet on the Carrollton gage, at New Orleans, Louisiana. Information concerning current river stages may be obtained on our website at [www.mvn.usace.army.mil](http://www.mvn.usace.army.mil).

c. All excavations within 1,500 feet of the Federal floodwall need to be backfilled within three days of a tropical event expected to make landfall of the Louisiana coast.

d. The permitted activity must not interfere with navigation and must be coordinated with the US Coast Guard.

e. Should the proposed structure or authorized work cause an obstruction or hazard to navigation, you will be required to remove, relocate or alter the work at your expense.

f. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein. You will, at your expense, install and maintain any safety light, signals, and signs prescribed by the United States Coast Guard, through regulations or otherwise, on authorized facilities or on equipment used in performing work under the authorization.

g. If the proposed project, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.) in the waterway, you are advised to notify the Eighth Coast Guard District so that a Notice to Mariners, if required, may be prepared. Notification with a copy of your permit approval and drawings should be mailed to the Commander, Eight Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, (504) 671-2107, about one month before you plan to start work.

h. You understand and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, you will be required upon due notice from the U.S. Corps of Engineers, to remove, relocate or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.



i. Any damage to the levee, batture and/or existing revetment as a result of your activities is repaired at your expense. The sediment delivery pipeline is not allowed to rest on the existing revetment.

j. You are not requesting changes to the limits of borrow for Willis Point, Alliance Anchorage, or Alliance South borrow areas from what was originally approved by the U.S. Army Corps of Engineers (USACE) and the State of Louisiana under the original permit MVN-2009-1353-EFF. Associated requirements for reservations of borrow material required to construct the salt water sill shall be adhered to.

k. The borrow site (Alliance Anchorage Borrow Area) identified in the application, is the saltwater barrier sill's primary Borrow Area # 1 , Mississippi River Mile 63.8 to Mile 65 AHP). The issuance of this permit and your actions hereunder, shall in no way adversely affect the cost, time, and schedule of the planning and/or construction of the saltwater barrier sill by the USACE.

l. You must ensure that 500,000 cubic yards (cy) are always available above elevation -70 NGVD, within the Alliance Anchorage Borrow area. A reserve area for this material has been designated and the reserve quantity must be located within the boundaries shown on the enclosed (Mississippi River Hydrographic Survey Salt Water Sill Borrow Area I-map), as Attachment I.

m. While this project is ongoing, you must be aware that the USACE may issue a contract to build the sill. If USACE issues a sill solicitation, you shall allow its contractor to bid on the sill contract. If your contractor is awarded the sill contract, then you shall release the contractor for the time required to build the sill. If your contractor chooses not to bid on the sill contract or another contractor is awarded the sill contract, your contractor shall suspend operations and move off site so as not to interfere with or delay the USACE notice to proceed or the sill contractor's work.

n. Until the Alliance Anchorage Borrow Area is naturally restored from the effects of this permit, any additional costs associated with USACE's construction of the sill shall be borne by you. These additional costs could occur after this permit has expired. These additional costs will be calculated by the USACE. You will provide funds prior to USACE opening bids for the saltwater barrier sill contract.

o. Dredging in the Alliance Anchorage Borrow site is limited to a 1 Vertical on 5 Horizontal slope with a control point 400 feet riverward of the levee centerline and Elevation +5 feet. You shall submit for approval a detailed dredging plan for the Alliance Anchorage Borrow Area. The plan shall be submitted at least 30 days prior to the scheduled commencement of work in the site and shall include hydrographic surveys of the borrow area with plans for dredging; thereby identifying the material to be removed and the 500,000 cy reserved area (material to be reserved above elevation -70 NGVD). USACE must approve the dredging plan prior to the commencement of your work. The surveys and plans shall be updated every 30 days until project completion. All updated plans must also be approved before you can implement the updated plan. The surveys and dredging plan shall be submitted in electronic format and hardcopy to the USACE Mississippi River Operations Manager. For questions or forwarding information, please contact Mrs. Heather Jennings at (504) 862-1253 or [heather.l.jennings@usace.army.mil](mailto:heather.l.jennings@usace.army.mil).

p. To address navigation safety during construction of the project, you will initiate a daily conference call; to include representatives of the dredging contractor, the US Coast Guard, pertinent members of the USACE, and other navigation stakeholders. During construction, the frequency of the conference call can be reduced upon agreement from the US Coast Guard and the USACE.

q. That should changes in the location or section of the existing levee and/or river, or in the generally prevailing conditions in the vicinity, be required in the future in the public interest, you shall make changes in the project concerned, or in the arrangement thereof, as may be necessary to satisfactorily meet the situation and shall bear the cost thereof.

r. You are solely responsible for any remedial actions needed to correct any deficiencies in the design or construction of the proposed project as it impacts the federal project.

s. Please provide written notification to this office of the construction timeline to include the proposed start and end dates. Additionally, please notify this office prior to commencement and upon completion of the work permitted herein.

t. Any individual authorization granted under this permit may be modified, suspended, or revoked in whole or in part if the Secretary of the Army or his authorized representative determines that there has been a violation of any of the terms or conditions of this permit or that such action would otherwise be in the public interest.

u. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party as described in stipulation "v" below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

v. If you sell the property associated with this permit, you must provide this office with a copy of the permit and a letter noting your agreement to transfer the permit to the new owner and the new owner's agreement to accept the permit and abide by all conditions of the permit. This letter must be signed by both parties.

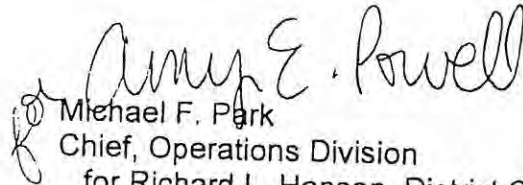
w. That all provisions of our original letter of no objection dated December 19, 2012, referenced above, not affected by this revision, remain in effect.

This letter is based upon engineering criteria, and no interpretation or comments regarding local laws, zoning, or ordinances concerning property rights, etc., have been made. Additionally, this letter does not obviate your requirement to obtain federal, state, or local permits required by law, and no work should commence until all necessary permits are required.

**You are advised that you must obtain a Department of the Army (DA) permit prior to the commencement of any work at the site. The U.S. Army Corps of Engineers point of contact in our Regulatory Branch for the DA permit (MVN-2009-01353-EFF), is Ms. Stephanie Castaing at 504-862-1564, or by email at [stephanie.l.casting@usace.army.mil](mailto:stephanie.l.casting@usace.army.mil).**

If you have any questions, please contact Amy Powell, Operations Manager for Completed Works or Albert Terry, Assistant Operations Manager for Completed Works of my office at 504-862-2241 or 504-862-2311, respectively. Additionally, future correspondence concerning this project should reference our letter number 15-386. This will allow us to more easily locate records of previous correspondence, and thus provide a quicker response.

Sincerely,

  
Michael F. Park  
Chief, Operations Division  
for Richard L. Hansen, District Commander

cc:

CPRA  
Plaquemines Parish Permits Office

STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER  
LONG DISTANCE SEDIMENT PIPELINE  
STATE PROJECT No. BA-43 EB  
JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA  
PERMIT MODIFICATIONS



THIS DRAWING SET IS FOR PERMITTING PURPOSES  
ONLY AND NOT TO BE USED FOR CONSTRUCTION

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BY	DESCRIPTION	DATE



DESIGNED BY: CW

<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b>	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
APPROVED BY: RUSS JOFFRION, P.E.	

MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	
TITLE SHEET	
STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
FEDERAL PROJECT NUMBER: N/A	SHEET 1 OF 53









**LEGEND**

- PERMITTED BORROW AREA
- EXISTING REVETMENT
- PERMITTED PIPELINE CORRIDOR
- PARISH BOUNDARY
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING PIPELINES
- MISSISSIPPI RIVER MILE (AHP)

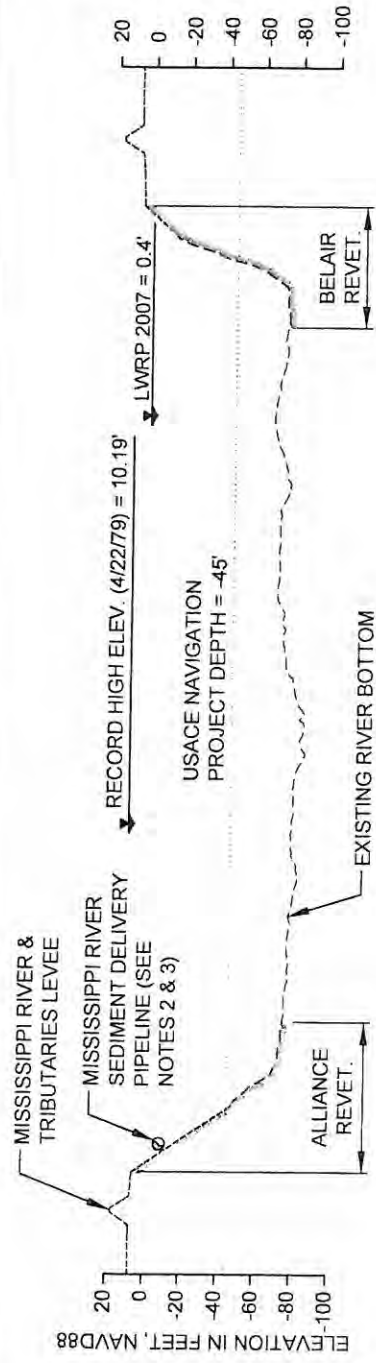


- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
  2. RIVER CONTOURS BASED ON 2004 USACE SURVEY AND REFER TO NAVD 1988.
  3. REQUEST PERMIT FOR ALL THREE MISSISSIPPI RIVER BORROW AREAS, WILLS POINT ANCHORAGE SOUTH, ALLIANCE ANCHORAGE, AND ALLIANCE SOUTH. SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.

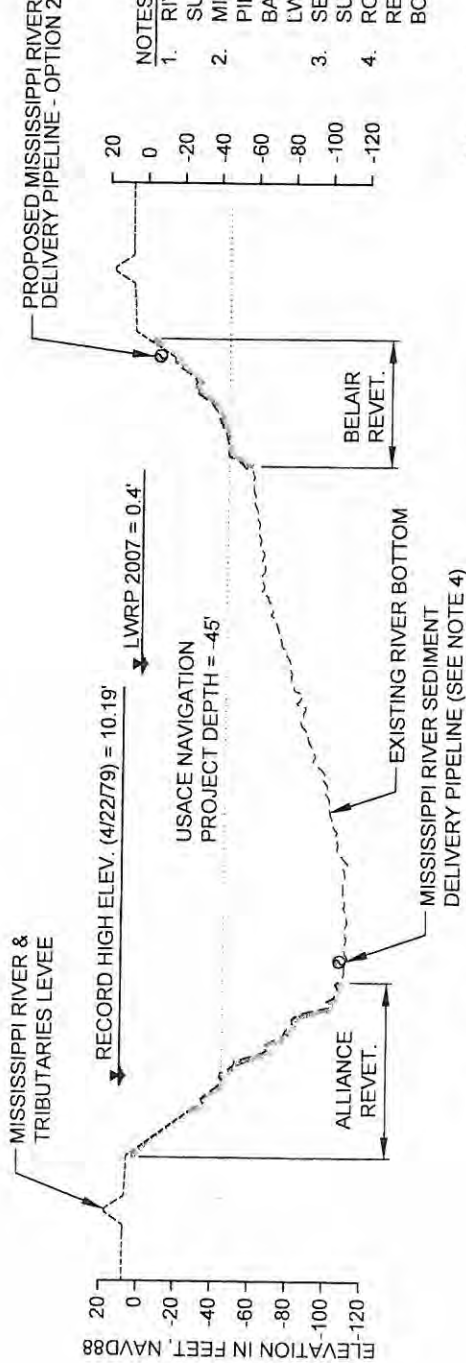


BY	DESCRIPTION	DATE	<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b></p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p> <p>BORROW AREAS</p>
<p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-427-7793 MOFFATT &amp; NICHOL</p>	<p>APPROVED BY: RUSS JOFFRION, P.E.</p>	<p>STATE PROJECT NUMBER: BA-43 (EB)</p>		
<p>DESIGNED BY: CW</p>	<p>DRAWN BY: YC</p>	<p>FEDERAL PROJECT NUMBER: N/A</p>	<p>SHEET 4 OF 53</p>	

LEGEND	
	AUGUST 2011 SURVEY
	EXISTING REVETMENT
	SEDIMENT DELIVERY PIPELINE

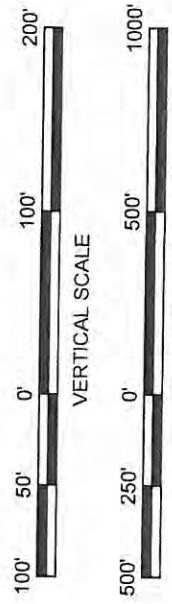


**A-A**  
4  
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION  
RIVER MILE 65.6



**B-B**  
4  
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION  
RIVER MILE 62.5

- NOTES:
1. RIVER BOTTOM PROFILES BASED ON OSI SURVEY DATED AUGUST 17, 2011.
  2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET +/- 30 FEET FROM THE LWRP.
  3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
  4. ROUTE SUBMERGED PIPELINE OFF TOE OF REVETMENT BELOW -70 FEET NAVD BOTTOM ELEVATION.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL MISSISSIPPI RIVER PIPELINE SECTIONS - PERMITTED
DRAWN BY	YC				STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
APPROVED BY: CW			APPROVED BY: RUSS JOFFRION, P.E.		FEDERAL PROJECT NUMBER: N/A	SHEET 5 OF 53

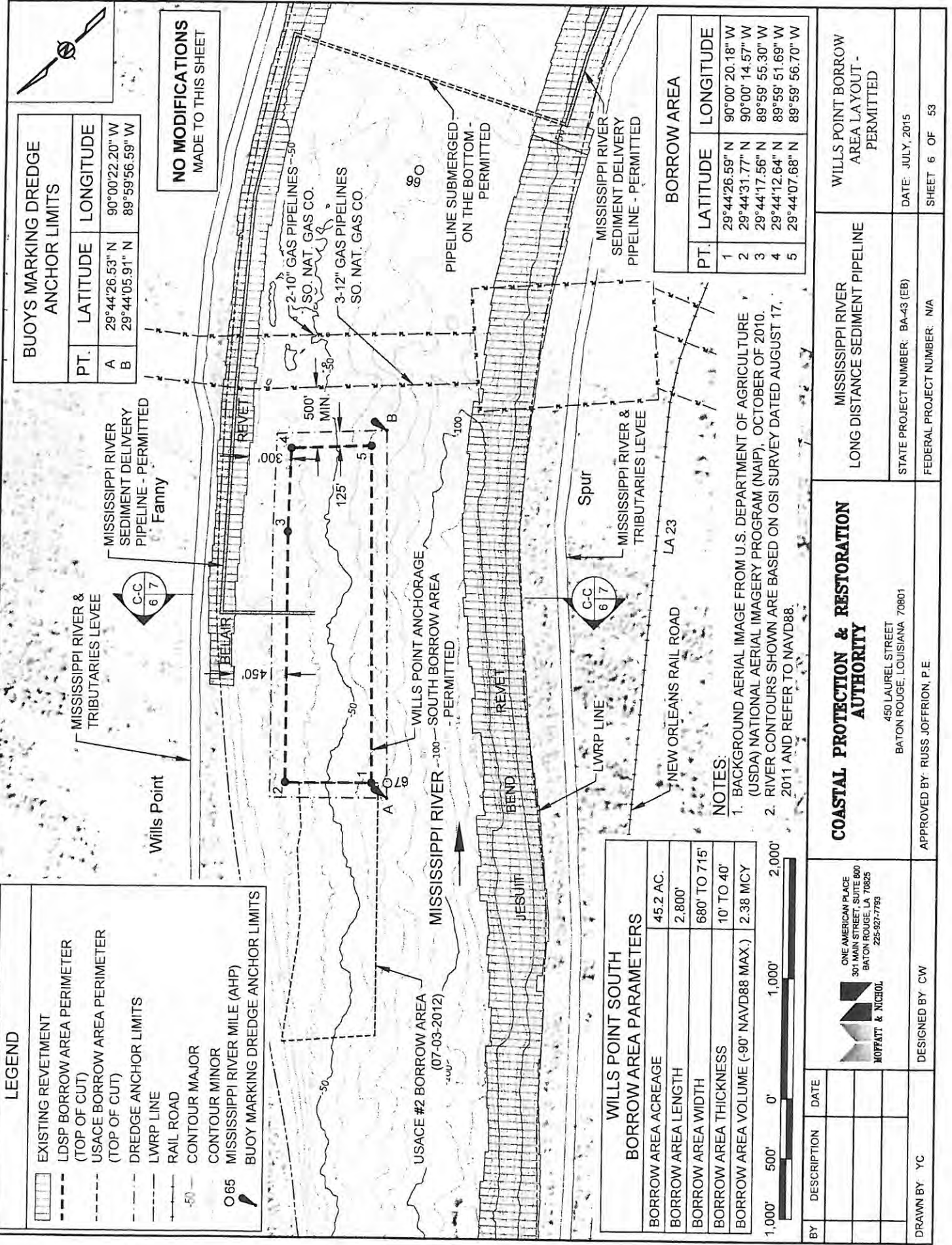
**LEGEND**

- EXISTING REVETMENT
- LDSP BORROW AREA PERIMETER (TOP OF CUT)
- USACE BORROW AREA PERIMETER (TOP OF CUT)
- DREDGE ANCHOR LIMITS
- LWRP LINE
- RAIL ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- MISSISSIPPI RIVER MILE (AHP)
- BUOY MARKING DREDGE ANCHOR LIMITS

**BUOYS MARKING DREDGE ANCHOR LIMITS**

PT.	LATITUDE	LONGITUDE
A	29°44'26.53" N	90°00'22.20" W
B	29°44'05.91" N	89°59'56.59" W

**NO MODIFICATIONS  
MADE TO THIS SHEET**



**WILLS POINT SOUTH BORROW AREA PARAMETERS**

BORROW AREA ACREAGE	45.2 AC.
BORROW AREA LENGTH	2,800'
BORROW AREA WIDTH	680' TO 715'
BORROW AREA THICKNESS	10' TO 40'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	2.38 MCY



**NOTES:**

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
- RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

**BORROW AREA**

PT.	LATITUDE	LONGITUDE
1	29°44'26.59" N	90°00'20.18" W
2	29°44'31.77" N	90°00'14.57" W
3	29°44'17.56" N	89°59'55.30" W
4	29°44'12.64" N	89°59'51.69" W
5	29°44'07.68" N	89°59'56.70" W

ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-927-7753

**COASTAL PROTECTION & RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801  
 APPROVED BY: RUSS JOFFRION, P.E.

MISSISSIPPI RIVER  
 LONG DISTANCE SEDIMENT PIPELINE  
 STATE PROJECT NUMBER: BA-43 (EB)  
 FEDERAL PROJECT NUMBER: N/A







WILLS POINT BORROW  
 AREA LAYOUT -  
 PERMITTED  
 DATE: JULY, 2015  
 SHEET 6 OF 53

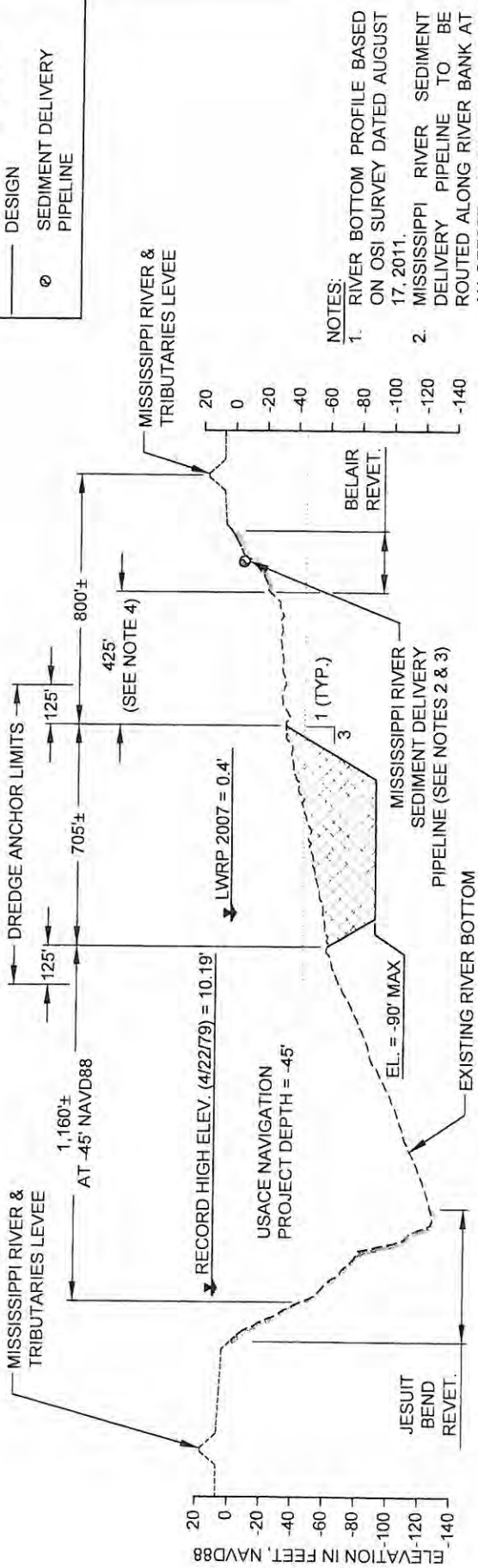
BY	DESCRIPTION	DATE

DESIGNED BY: CW  
 DRAWN BY: YC



# LEGEND

-  BORROW AREA
-  AUGUST 2011 SURVEY
-  APPROX. EXISTING GRADE
-  EXISTING REVETMENT
-  DESIGN
-  SEDIMENT DELIVERY PIPELINE



- NOTES:**
- RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
  - MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
  - SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
  - MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF BELAIR REVETMENT VARIES FROM 300 TO 450 FEET.




VERTICAL SCALE

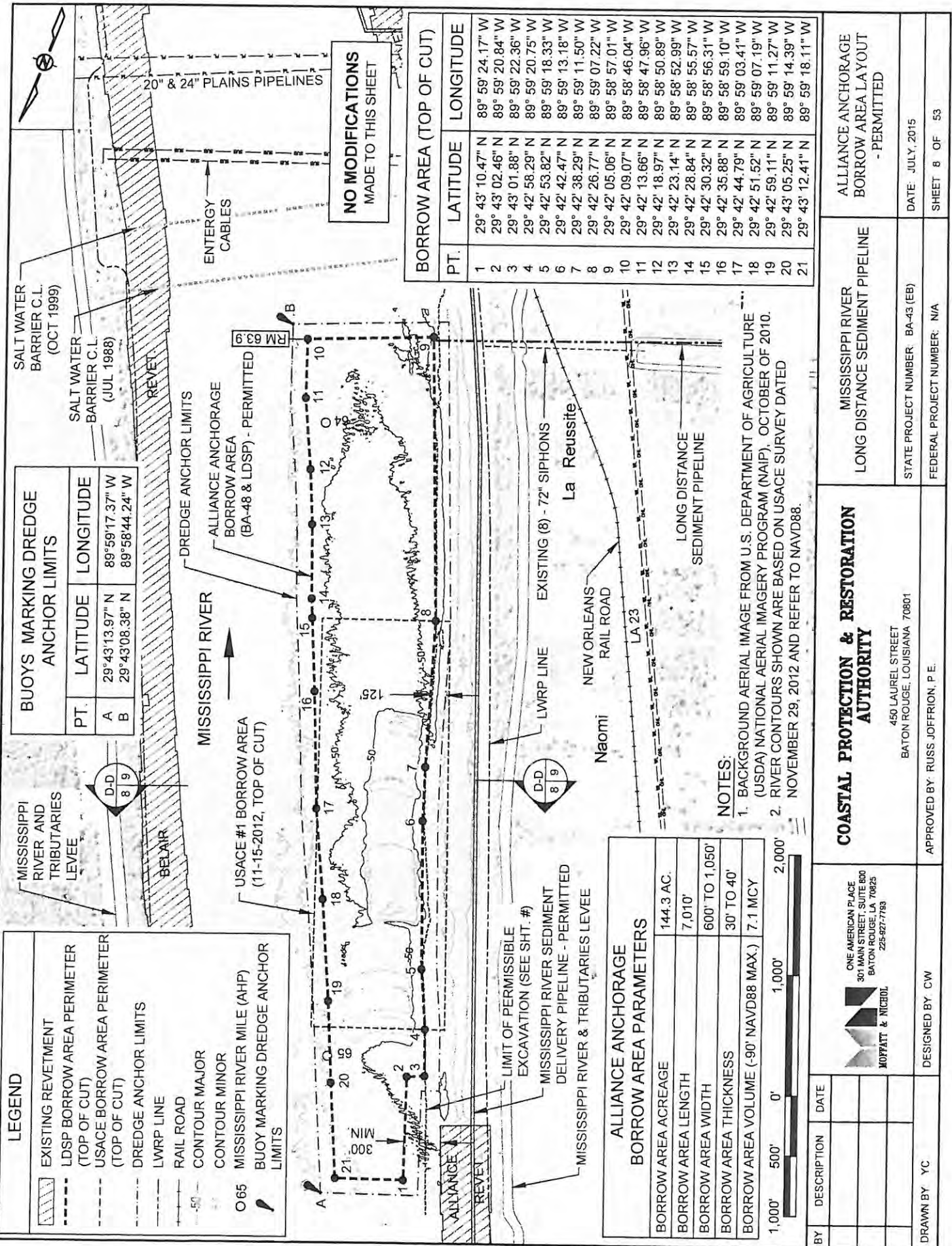


HORIZONTAL SCALE

**NO MODIFICATIONS  
MADE TO THIS SHEET**

## C-C WILLIS POINT ANCHORAGE SOUTH RIVER MILE 66.7

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	DESIGNED BY: CW	DRAWN BY: YC
			<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	WILLIS POINT SOUTH BORROW AREA TYPICAL SECTION - PERMITTED
			STATE PROJECT NUMBER: BA-43 (EB)	FEDERAL PROJECT NUMBER: N/A	DATE: JULY, 2015
			APPROVED BY: RUSS JOFFRION, P.E.		
			SHEET 7 OF 53		



**BUOYS MARKING DREDGE ANCHOR LIMITS**

PT.	LATITUDE	LONGITUDE
A	29° 43' 13.97" N	89° 59' 17.37" W
B	29° 43' 08.38" N	89° 58' 44.24" W

**BORROW AREA (TOP OF CUT)**

PT.	LATITUDE	LONGITUDE
1	29° 43' 10.47" N	89° 59' 24.17" W
2	29° 43' 02.46" N	89° 59' 20.84" W
3	29° 43' 01.88" N	89° 59' 22.36" W
4	29° 42' 58.29" N	89° 59' 20.75" W
5	29° 42' 53.82" N	89° 59' 18.33" W
6	29° 42' 42.47" N	89° 59' 13.18" W
7	29° 42' 38.29" N	89° 59' 11.50" W
8	29° 42' 26.77" N	89° 59' 07.22" W
9	29° 42' 05.06" N	89° 58' 57.01" W
10	29° 42' 09.07" N	89° 58' 46.04" W
11	29° 42' 13.66" N	89° 58' 47.96" W
12	29° 42' 18.97" N	89° 58' 50.89" W
13	29° 42' 23.14" N	89° 58' 52.99" W
14	29° 42' 28.84" N	89° 58' 55.57" W
15	29° 42' 30.32" N	89° 58' 56.31" W
16	29° 42' 35.88" N	89° 58' 59.10" W
17	29° 42' 44.79" N	89° 59' 03.41" W
18	29° 42' 51.52" N	89° 59' 07.19" W
19	29° 42' 59.11" N	89° 59' 11.27" W
20	29° 43' 05.25" N	89° 59' 14.39" W
21	29° 43' 12.41" N	89° 59' 18.11" W

**ALLIANCE ANCHORAGE BORROW AREA PARAMETERS**

BORROW AREA ACREAGE	144.3 AC.
BORROW AREA LENGTH	7,010'
BORROW AREA WIDTH	600' TO 1,050'
BORROW AREA THICKNESS	30' TO 40'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	7.1 MCY

1,000' 500' 0' 1,000' 2,000'

**NOTES:**  
 1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.  
 2. RIVER CONTOURS SHOWN ARE BASED ON USACE SURVEY DATED NOVEMBER 29, 2012 AND REFER TO NAVD88.

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

APPROVED BY: RUSS JOFFRION, P. E.

DESIGNED BY: CW

DRAWN BY: YC

DATE: \_\_\_\_\_







DESCRIPTION: \_\_\_\_\_

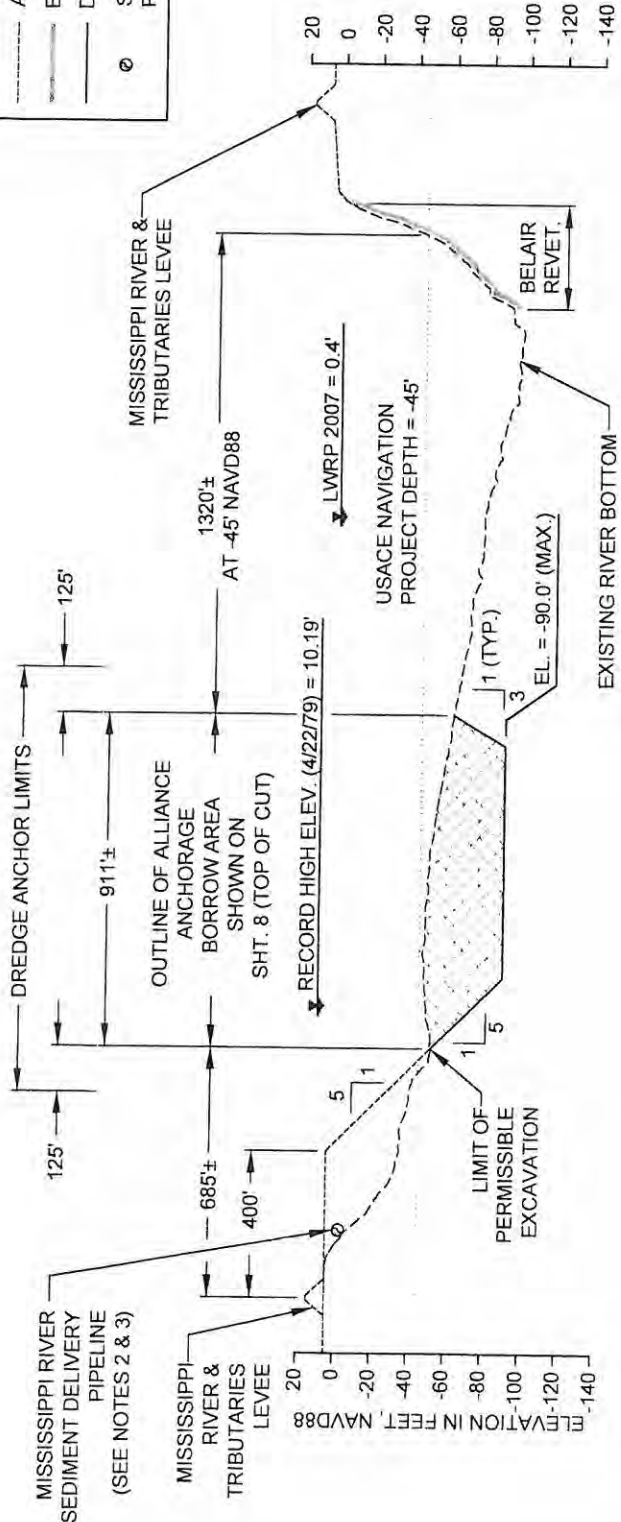
STATE PROJECT NUMBER: BA-43 (EB)  
 FEDERAL PROJECT NUMBER: N/A

MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE  
 ALLIANCE ANCHORAGE BORROW AREA LAYOUT - PERMITTED

DATE: JULY, 2015  
 SHEET 8 OF 53

# LEGEND

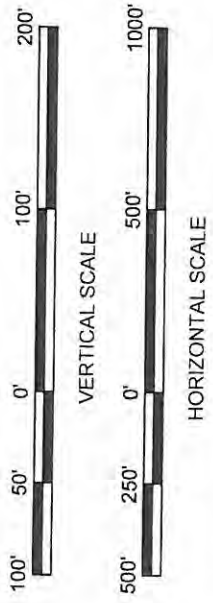
-  LDSP BORROW AREA
-  AUGUST 2011 SURVEY
-  APPROX. EXISTING GRADE
-  EXISTING REVETMENT
-  DESIGN
-  SEDIMENT DELIVERY PIPELINE




**NO MODIFICATIONS  
MADE TO THIS SHEET**

## D-D ALLIANCE ANCHORAGE BORROW AREA 8 RIVER MILE 64.3

- NOTES:
- RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
  - MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
  - SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
  - MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	COASTAL PROTECTION & RESTORATION <b>AUTHORITY</b> 450 LAJUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	ALLIANCE ANCHORAGE BORROW AREA TYPICAL SECTION - PERMITTED			
DRAWN BY	YC	DESIGNED BY:					CW	APPROVED BY:	RUSS JOFFRION, P.E.
STATE PROJECT NUMBER:	BA-43 (EB)	FEDERAL PROJECT NUMBER:					N/A	DATE:	JULY, 2015





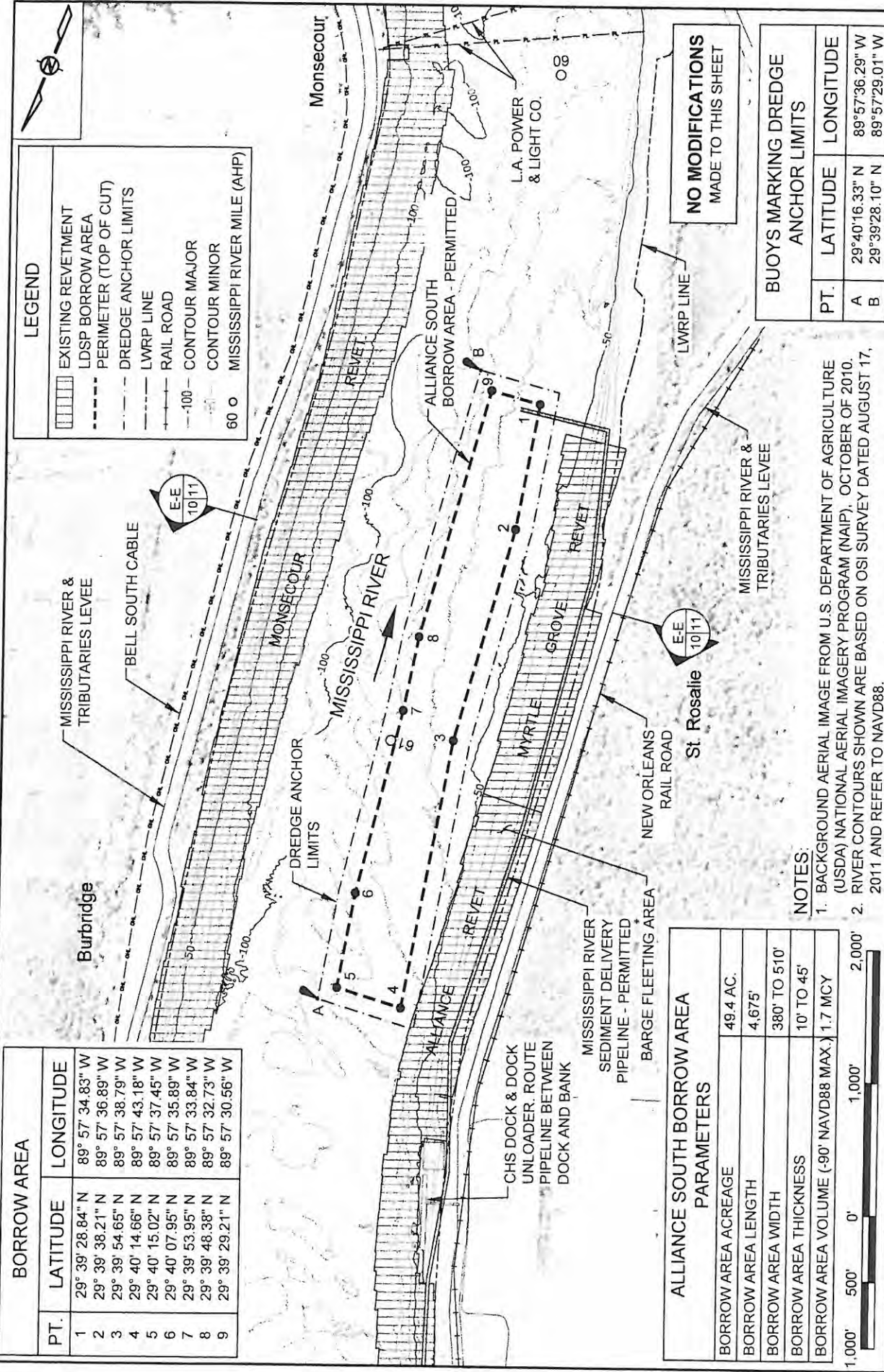
**LEGEND**

[Hatched Box]	EXISTING REVETMENT
[Dashed Line]	LDSP BORROW AREA PERIMETER (TOP OF CUT)
[Dotted Line]	DREDGE ANCHOR LIMITS
[Solid Line]	LWRP LINE
[Thick Solid Line]	RAIL ROAD
[Thin Solid Line]	-100- CONTOUR MAJOR
[Thin Solid Line]	CONTOUR MINOR
[Circle with 'O']	MISSISSIPPI RIVER MILE (AHP)

**BUOYS MARKING DREDGE ANCHOR LIMITS**

PT.	LATITUDE	LONGITUDE
A	29°40'16.33" N	89°57'36.29" W
B	29°39'28.10" N	89°57'29.01" W

**NO MODIFICATIONS  
MADE TO THIS SHEET**



**NOTES:**

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
- RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

**BORROW AREA**

PT.	LATITUDE	LONGITUDE
1	29° 39' 28.84" N	89° 57' 34.83" W
2	29° 39' 38.21" N	89° 57' 36.89" W
3	29° 39' 54.65" N	89° 57' 38.79" W
4	29° 40' 14.66" N	89° 57' 43.18" W
5	29° 40' 15.02" N	89° 57' 37.45" W
6	29° 40' 07.95" N	89° 57' 35.89" W
7	29° 39' 53.95" N	89° 57' 33.84" W
8	29° 39' 48.38" N	89° 57' 32.73" W
9	29° 39' 29.21" N	89° 57' 30.56" W

**ALLIANCE SOUTH BORROW AREA PARAMETERS**


BORROW AREA ACREAGE	49.4 AC.
BORROW AREA LENGTH	4,675'
BORROW AREA WIDTH	380' TO 510'
BORROW AREA THICKNESS	10' TO 45'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	1.7 MCY

BY	DESCRIPTION	DATE	<p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793 MOFFATT &amp; NICHOL</p>	<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b></p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>ALLIANCE SOUTH BORROW AREA LAYOUT - PERMITTED</p>
	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.				
DRAWN BY: YC	FEDERAL PROJECT NUMBER: N/A		MISSISSIPPI RIVER & TRIBUTARIES LEVEE		SHEET 10 OF 53	













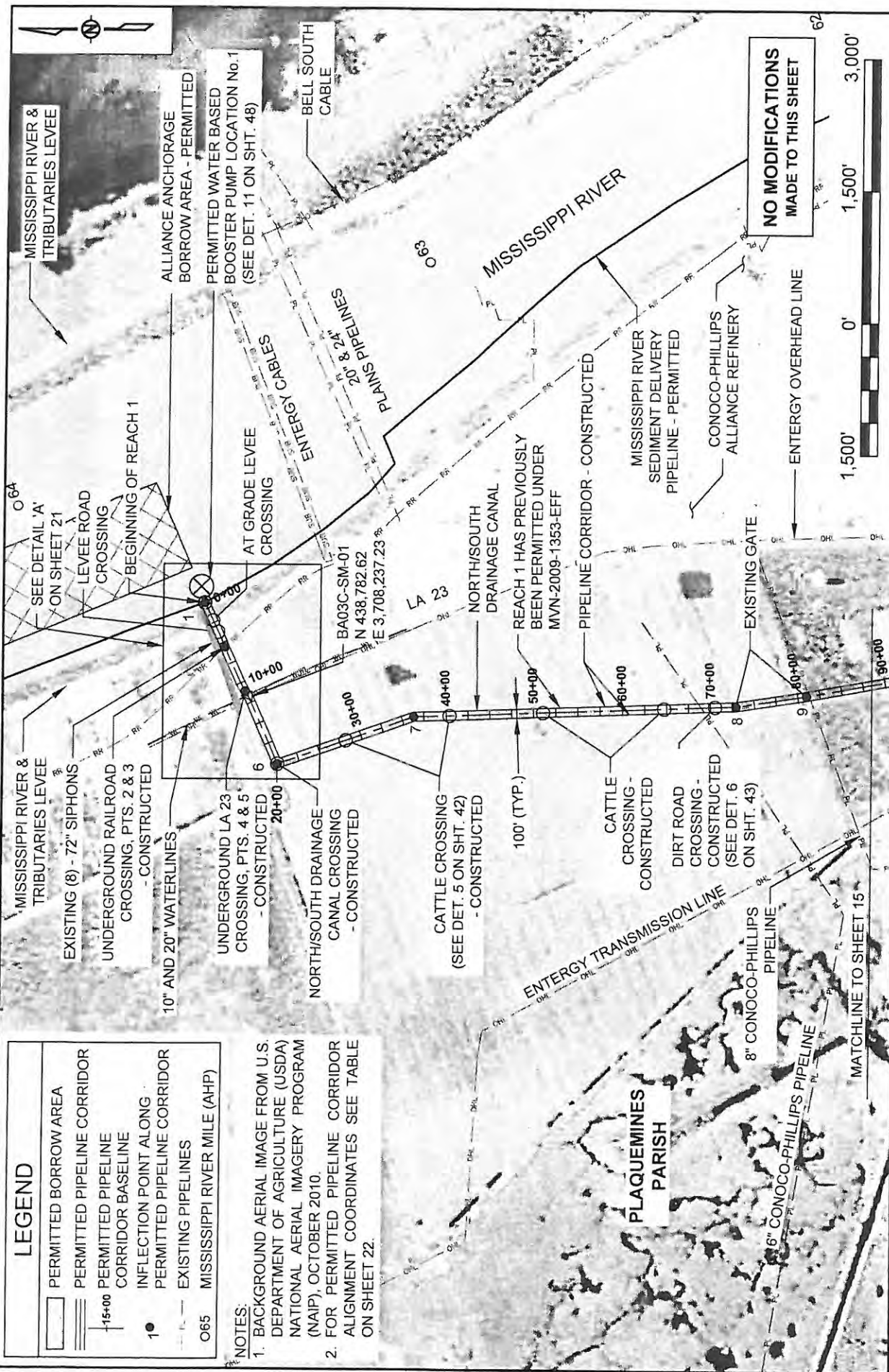
BY	DESCRIPTION	DATE	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793</p>	<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b></p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>MYRTLE GROVE BORROW AREA TYPICAL SECTION - OMITTED</p>		
DRAWN BY	YC	DESIGNED BY	CW	APPROVED BY	RUSS JOFFRION, P.E	DATE	JULY, 2015	
STATE PROJECT NUMBER	BA-43 (EB)	FEDERAL PROJECT NUMBER	N/A	DATE	JULY, 2015	SHEET	13 OF	53

# LEGEND

-  PERMITTED BORROW AREA
-  PERMITTED PIPELINE CORRIDOR
-  PERMITTED PIPELINE CORRIDOR BASELINE
-  INFLECTION POINT ALONG PERMITTED PIPELINE CORRIDOR
-  EXISTING PIPELINES
-  MISSISSIPPI RIVER MILE (AHP)


## NOTES:

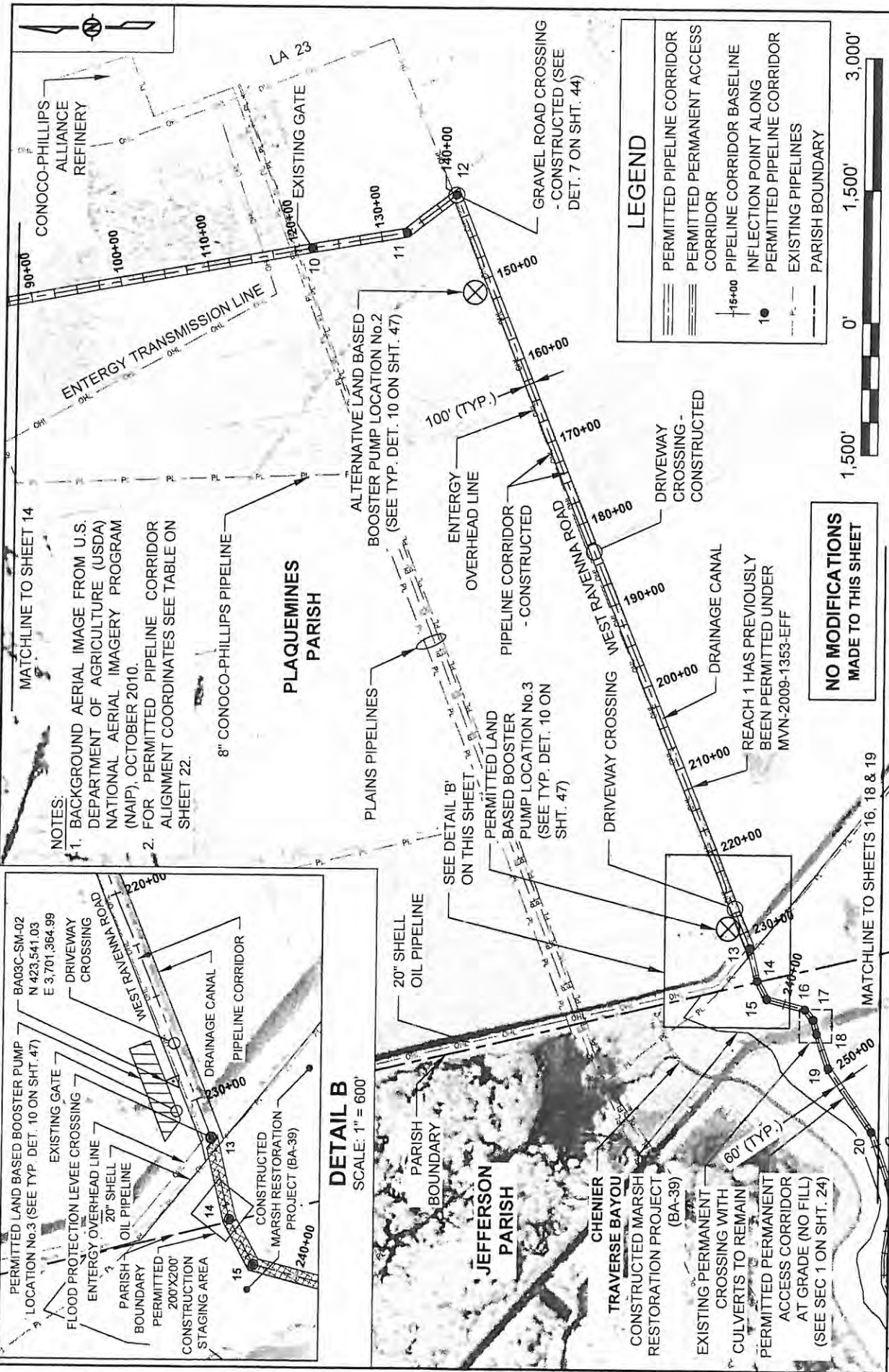
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. FOR PERMITTED PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 22.



**NO MODIFICATIONS  
MADE TO THIS SHEET**



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PERMITTED PIPELINE CORRIDOR LAYOUT (SHEET 1 OF 4)					
DRAWN BY	YC	DESIGNED BY					CW	APPROVED BY	RUSS JOFFRION, P.E.		
								STATE PROJECT NUMBER	BA-43 (EB)	DATE	JULY, 2015
				FEDERAL PROJECT NUMBER	N/A						SHEET 14 OF 53



**NOTES:**

1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. FOR PERMITTED PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 22.

**LEGEND**

- PERMITTED PIPELINE CORRIDOR
- PERMITTED PERMANENT ACCESS CORRIDOR
- PIPELINE CORRIDOR BASELINE
- INFLECTION POINT ALONG PERMITTED PIPELINE CORRIDOR
- EXISTING PIPELINES
- PARISH BOUNDARY

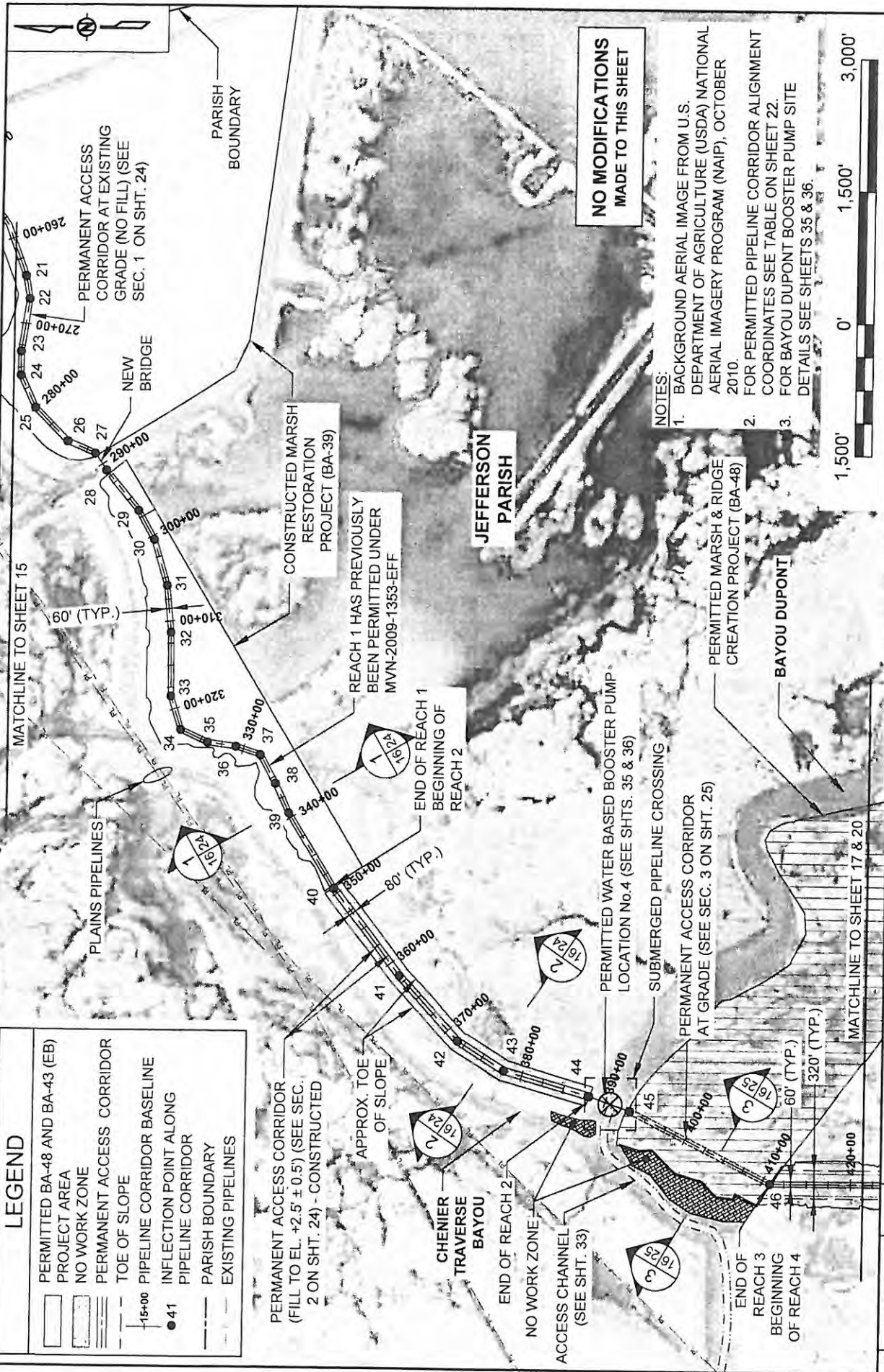
**NO MODIFICATIONS  
MADE TO THIS SHEET**

BY	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b>  450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PERMITTED PIPELINE CORRIDOR LA YOUT (SHEET 2 OF 4)
DESIGNED BY:	CW			APPROVED BY:	RUSS JOFFRION, P.E.
DRAWN BY:	YC			STATE PROJECT NUMBER:	BA-43 (EB)
			FEDERAL PROJECT NUMBER:	N/A	SHEET 15 OF 53



**LEGEND**

- PERMITTED BA-48 AND BA-43 (EB)
- PROJECT AREA
- NO WORK ZONE
- PERMANENT ACCESS CORRIDOR
- TOE OF SLOPE
- 15+00 PIPELINE CORRIDOR BASELINE
- 41 INFLECTION POINT ALONG PIPELINE CORRIDOR
- PARISH BOUNDARY
- EXISTING PIPELINES
- PERMANENT ACCESS CORRIDOR (FILL TO EL. +2.5' ± 0.5') (SEE SEC. 2 ON SHT. 24) - CONSTRUCTED
- APPROX. TOE OF SLOPE
- CHENIER TRAVERSE BAYOU
- NO WORK ZONE
- ACCESS CHANNEL (SEE SHT. 33)
- END OF REACH 2
- END OF REACH 3
- BEGINNING OF REACH 4



**NO MODIFICATIONS  
MADE TO THIS SHEET**

- NOTES:**
- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
  - FOR PERMITTED PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 22. FOR BAYOU DUPONT BOOSTER PUMP SITE DETAILS SEE SHEETS 35 & 36.



**COASTAL PROTECTION & RESTORATION  
AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-927-7793  
**MOFFATT & NICHOLO**

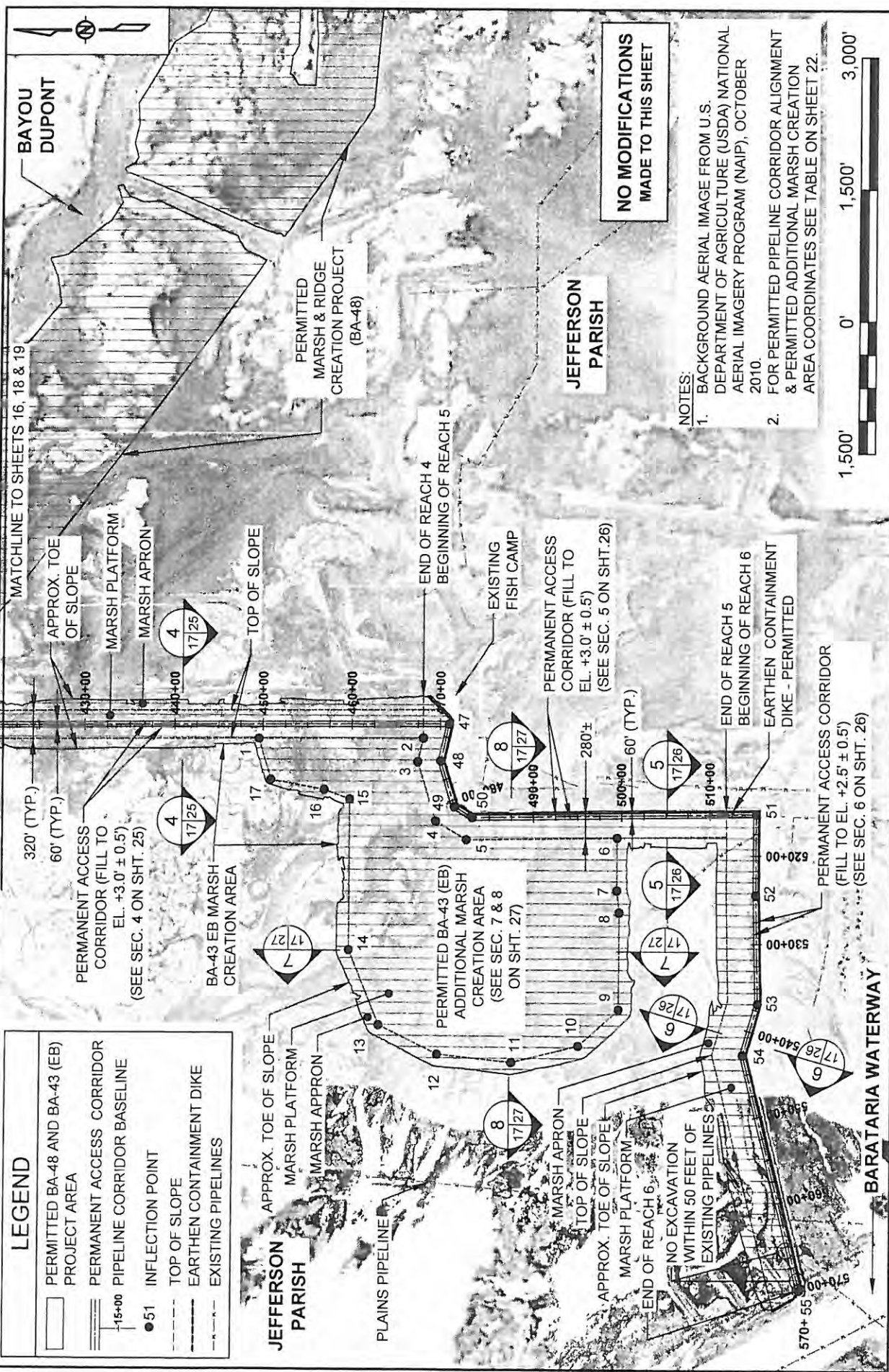
DESIGNED BY: CW

DRAWN BY: YC

MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PERMITTED PIPELINE CORRIDOR LAYOUT (SHEET 3 OF 4)
STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
FEDERAL PROJECT NUMBER: N/A	SHEET 16 OF 53

BY	DESCRIPTION	DATE





**NO MODIFICATIONS  
MADE TO THIS SHEET**

- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
  2. FOR PERMITTED PIPELINE CORRIDOR ALIGNMENT & PERMITTED ADDITIONAL MARSH CREATION AREA COORDINATES SEE TABLE ON SHEET 22.

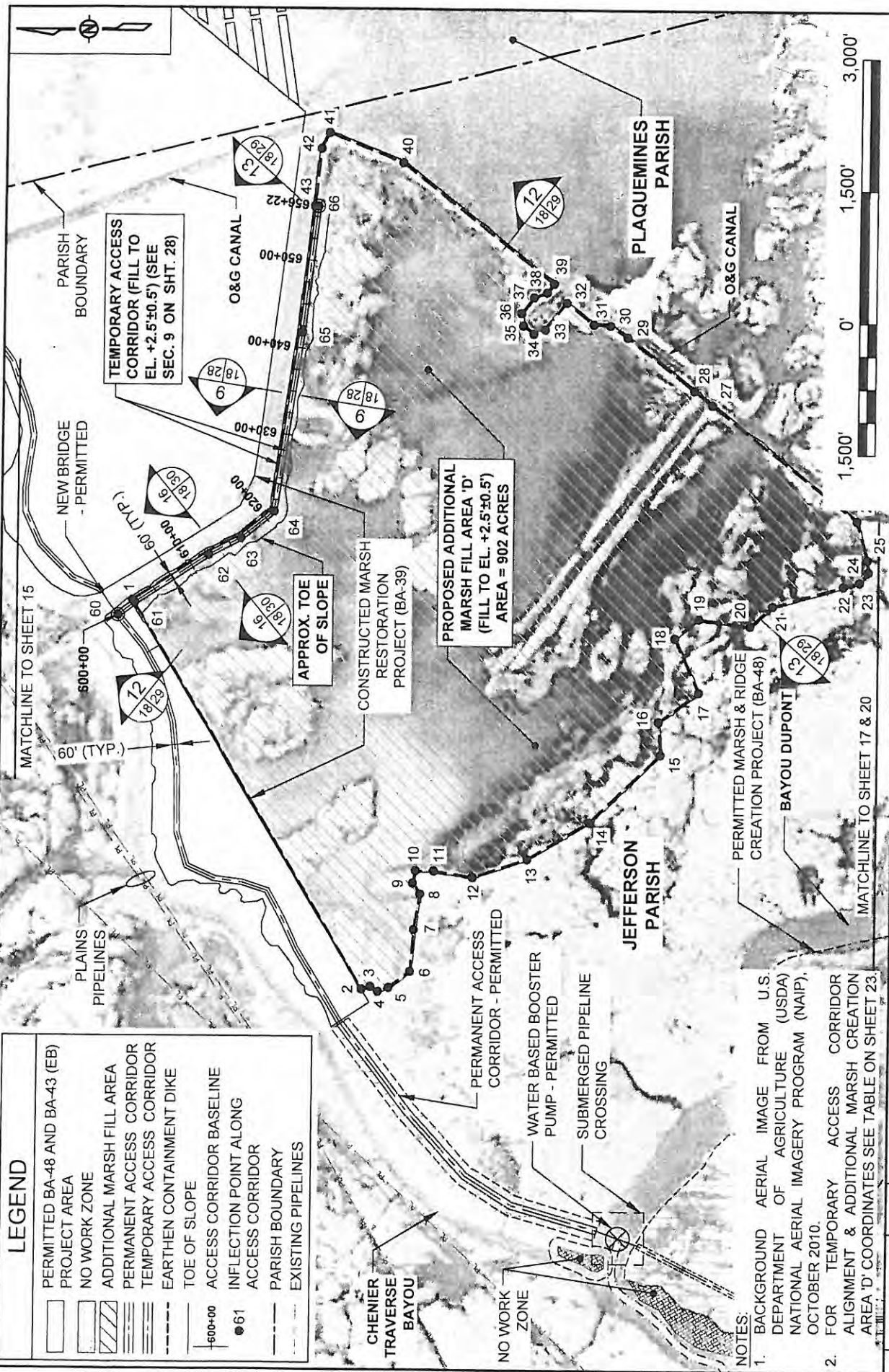


LEGEND	
[Symbol]	PERMITTED BA-48 AND BA-43 (EB) PROJECT AREA
[Symbol]	PERMANENT ACCESS CORRIDOR
[Symbol]	PIPELINE CORRIDOR BASELINE
[Symbol]	INFLECTION POINT
[Symbol]	TOP OF SLOPE
[Symbol]	EARTHEN CONTAINMENT DIKE
[Symbol]	EXISTING PIPELINES

BY	DESCRIPTION	DATE	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793 MOYFATT & NICHOL	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE PERMITTED PIPELINE CORRIDOR LAYOUT (SHEET 4 OF 4)	
DRAWN BY	YC	DESIGNED BY			CW
APPROVED BY	RUSS JOFFRION, P.E.	STATE PROJECT NUMBER			BA-43 (EB)
		FEDERAL PROJECT NUMBER			N/A
			APPROVED BY: RUSSELL JOFFRION, P.E.	DATE: JULY, 2015	
				SHEET 17 OF 53	

**LEGEND**

- PERMITTED BA-48 AND BA-43 (EB)
- PROJECT AREA
- NO WORK ZONE
- ADDITIONAL MARSH FILL AREA
- PERMANENT ACCESS CORRIDOR
- TEMPORARY ACCESS CORRIDOR
- EARTHEN CONTAINMENT DIKE
- TOE OF SLOPE
- ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG ACCESS CORRIDOR
- PARISH BOUNDARY
- EXISTING PIPELINES



**PROPOSED ADDITIONAL MARSH FILL AREA 'D'**  
(FILL TO EL. +2.5'±0.5')  
AREA = 902 ACRES

**COASTAL PROTECTION & RESTORATION AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER  
LONG DISTANCE SEDIMENT PIPELINE

PROPOSED  
ADDITIONAL MARSH  
FILL - AREA D

STATE PROJECT NUMBER: BA-43 (EB)

DATE: JULY, 2015

FEDERAL PROJECT NUMBER: N/A

SHEET 18 OF 53

**NOTES:**

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
- FOR TEMPORARY ACCESS CORRIDOR ALIGNMENT & ADDITIONAL MARSH CREATION AREA 'D' COORDINATES SEE TABLE ON SHEET 23.






BY	DESCRIPTION	DATE

DESIGNED BY: CW

APPROVED BY: RUSS JOFFRION, P.E.



**LEGEND**

-  IN-SITU TERRACE BORROW AREA
-  ACCESS CORRIDOR BASELINE
-  INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
-  PIPELINE
-  EARTHEN TERRACE

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

O & G CANAL

640+00  
650+00  
656+22

PARISH BOUNDARY

WORK LIMITS

EXISTING FLOOD PROTECTION LEVEE

PLAQUEMINES PARISH

TERRACE CREATION AREA 'C'  
(FILL TO EL. +2.5' +0.5)  
(SEE TYPICAL SECTION 20 ON SHEET 32)  
AREA = 11.0 ACRES (12,825 LF)

WORK LIMITS

TERRACE CREATION AREA 'B'  
(FILL TO EL. +2.5' +0.5)  
(SEE TYPICAL SECTION 20 ON SHEET 32)  
AREA = 11.6 ACRES (13,554 LF)


20" SHELL OIL PIPELINE  
TOP EL = -4.1'

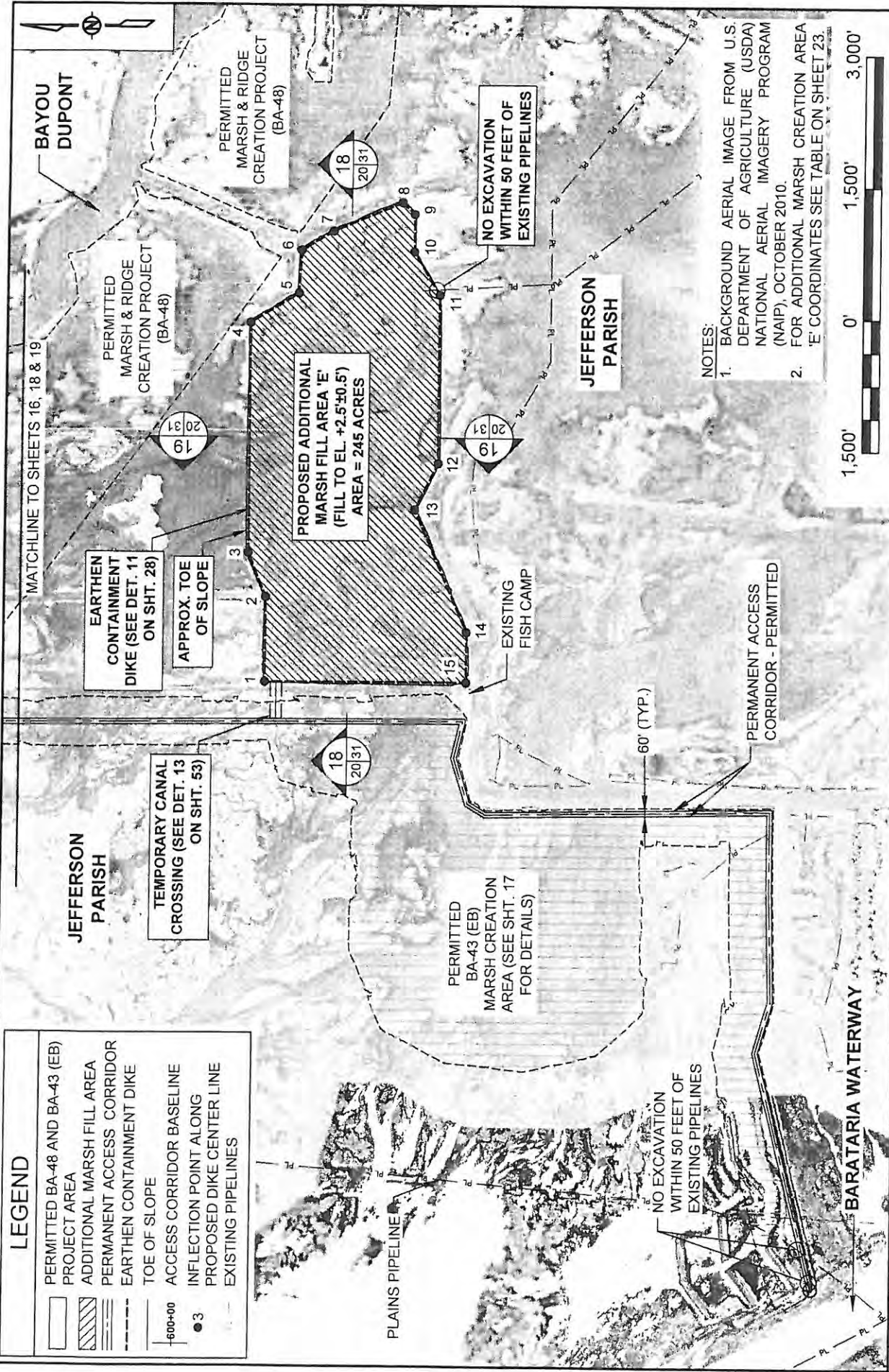
EXISTING FLOOD PROTECTION LEVEE

NO EXCAVATION WITHIN 100 FEET OF EXISTING PIPELINES



**NOTES:**  
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.  
2. FOR ADDITIONAL EARTHEN TERRACE AREA 'B' & 'C' COORDINATES SEE TABLE ON SHEET 23.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA, 70825 225-927-7753	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED EARTHEN TERRACE - AREAS B AND C
DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-43 (EB)				
DRAWN BY: YC	FEDERAL PROJECT NUMBER: N/A	SHEET 19 OF 53				



**LEGEND**

- PERMITTED BA-48 AND BA-43 (EB) PROJECT AREA
- ADDITIONAL MARSH FILL AREA
- PERMANENT ACCESS CORRIDOR
- EARTHEN CONTAINMENT DIKE
- TOE OF SLOPE
- ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG PROPOSED DIKE CENTER LINE
- EXISTING PIPELINES

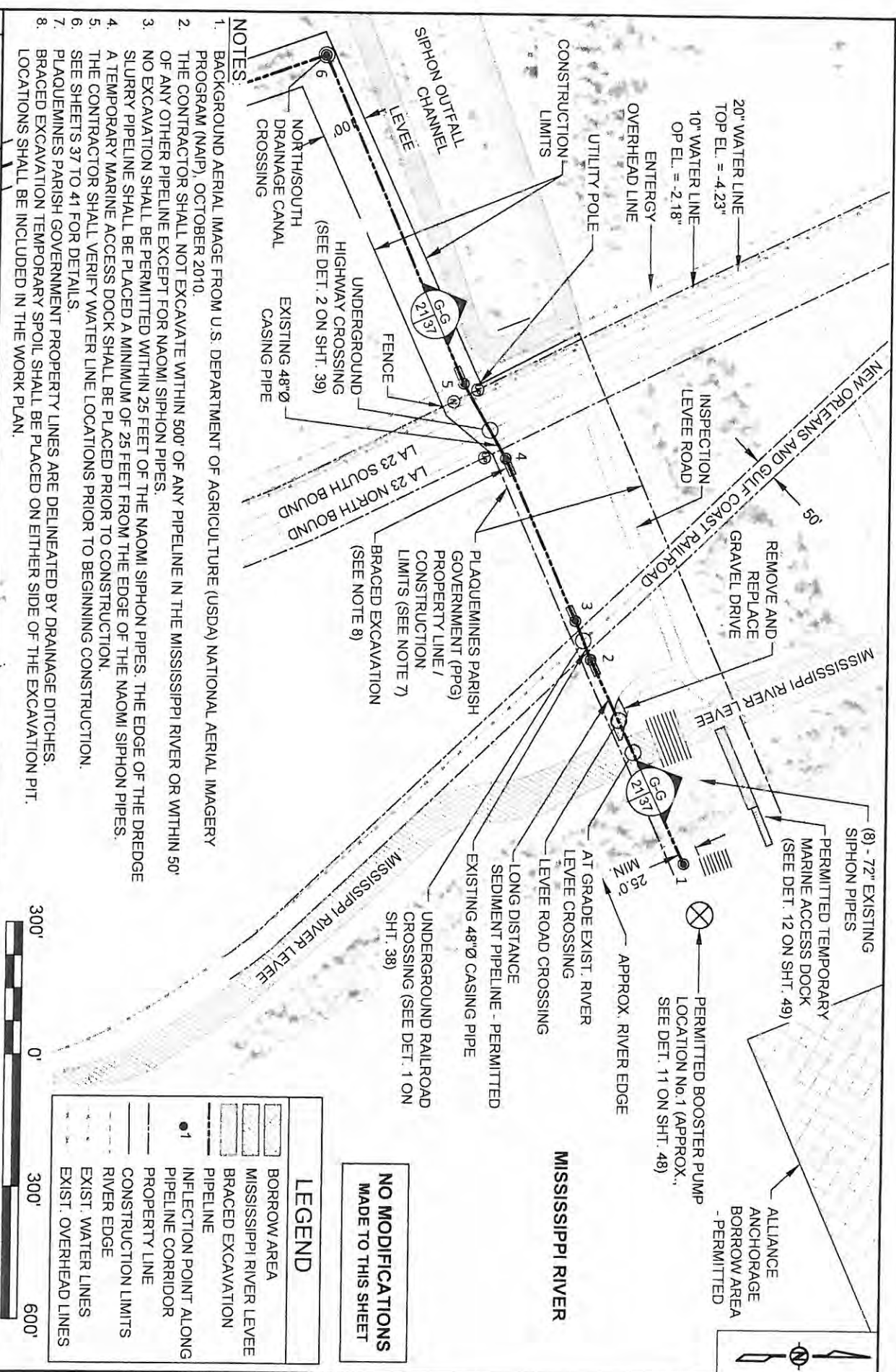
**NOTES:**

- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
- FOR ADDITIONAL MARSH CREATION AREA 'E' COORDINATES SEE TABLE ON SHEET 23.



BY	DESCRIPTION	DATE
DRAWN BY: YC	DESIGNED BY: CW	
<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		
APPROVED BY: RUSS JOFFRION, P.E.		
MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		
PROPOSED ADDITIONAL MARSH FILL - AREA E		
STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015	FEDERAL PROJECT NUMBER: N/A
SHEET 20 OF 53		



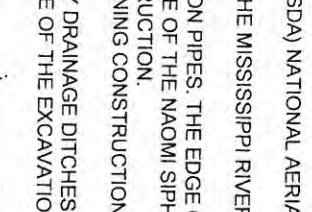



- NOTES**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
  2. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
  3. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE SLURRY PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
  4. A TEMPORARY MARINE ACCESS DOCK SHALL BE PLACED PRIOR TO CONSTRUCTION.
  5. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  6. SEE SHEETS 37 TO 41 FOR DETAILS.
  7. PLAQUEMINES PARISH GOVERNMENT PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES. BRACED EXCAVATION TEMPORARY SPOIL SHALL BE PLACED ON EITHER SIDE OF THE EXCAVATION PIT.
  8. LOCATIONS SHALL BE INCLUDED IN THE WORK PLAN.

**LEGEND**

- BORROW AREA
- MISSISSIPPI RIVER LEVEE
- BRACED EXCAVATION PIPELINE
- INFLECTION POINT ALONG PIPELINE CORRIDOR
- PROPERTY LINE
- CONSTRUCTION LIMITS
- RIVER EDGE
- EXIST. WATER LINES
- EXIST. OVERHEAD LINES

**NO MODIFICATIONS MADE TO THIS SHEET**



BY	DESCRIPTION	DATE	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-921-7793</p>	<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b></p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PERMITTED PIPELINE CORRIDOR - DETAIL A
DESIGNED BY:	YC				APPROVED BY:	RUSS. JOFFRION, P.E.
						SHEET 21 OF 53

PIPELINE CORRIDOR ALIGNMENT - PERMITTED

ACCESS CHANNEL ALIGNMENT - PERMITTED

PT.	LATITUDE	LONGITUDE
1	29° 42' 03.65" N	89° 59' 01.44" W
2	29° 42' 01.58" N	89° 59' 06.71" W
3	29° 42' 01.24" N	89° 59' 07.71" W
4	29° 41' 59.67" N	89° 59' 11.90" W
5	29° 41' 58.73" N	89° 59' 13.82" W
6	29° 41' 55.64" N	89° 59' 22.27" W
7	29° 41' 40.40" N	89° 59' 16.32" W
8	29° 41' 04.23" N	89° 59' 15.22" W
9	29° 40' 56.28" N	89° 59' 16.00" W
10	29° 40' 56.28" N	89° 59' 06.00" W
11	29° 40' 05.58" N	89° 59' 04.03" W
12	29° 40' 00.10" N	89° 58' 59.20" W
13	29° 39' 27.14" N	90° 00' 36.31" W
14	29° 39' 26.32" N	90° 00' 40.52" W
15	29° 39' 25.26" N	90° 00' 42.84" W
16	29° 39' 21.00" N	90° 00' 44.18" W
17	29° 39' 20.08" N	90° 00' 45.51" W
18	29° 39' 19.67" N	90° 00' 47.36" W
19	29° 39' 18.35" N	90° 00' 51.73" W
20	29° 39' 13.49" N	90° 00' 59.89" W
21	29° 39' 11.57" N	90° 01' 06.43" W
22	29° 39' 11.17" N	90° 01' 09.43" W
23	29° 39' 12.07" N	90° 01' 16.15" W
24	29° 39' 12.08" N	90° 01' 19.20" W
25	29° 39' 10.50" N	90° 01' 23.40" W
26	29° 39' 06.93" N	90° 01' 27.77" W
27	29° 39' 03.93" N	90° 01' 29.37" W
28	29° 39' 02.66" N	90° 01' 31.56" W
29	29° 38' 59.09" N	90° 01' 36.77" W
30	29° 38' 57.33" N	90° 01' 40.53" W
31	29° 38' 55.85" N	90° 01' 46.47" W
32	29° 38' 55.39" N	90° 01' 52.52" W
33	29° 38' 55.40" N	90° 02' 00.71" W
34	29° 38' 51.24" N	90° 02' 05.00" W
35	29° 38' 48.03" N	90° 02' 06.67" W
36	29° 38' 48.03" N	90° 02' 07.20" W
37	29° 38' 45.29" N	90° 02' 08.26" W
38	29° 38' 43.58" N	90° 02' 11.97" W
39	29° 38' 42.10" N	90° 02' 15.78" W
40	29° 38' 37.05" N	90° 02' 25.47" W
41	29° 38' 29.71" N	90° 02' 36.65" W
42	29° 38' 23.16" N	90° 02' 45.01" W
43	29° 38' 17.99" N	90° 02' 48.83" W
44	29° 38' 08.30" N	90° 02' 52.14" W
45	29° 38' 03.70" N	90° 02' 54.05" W

PT.	LATITUDE	LONGITUDE
46	29° 37' 47.94" N	90° 03' 03.37" W
47	29° 36' 48.43" N	90° 03' 03.76" W
48	29° 36' 49.44" N	90° 03' 08.53" W
49	29° 36' 47.92" N	90° 03' 14.40" W
50	29° 36' 45.93" N	90° 03' 15.80" W
51	29° 36' 14.08" N	90° 03' 15.64" W
52	29° 36' 14.19" N	90° 03' 26.04" W
53	29° 36' 14.03" N	90° 03' 39.98" W
54	29° 36' 15.72" N	90° 03' 46.51" W
55	29° 36' 09.48" N	90° 04' 16.78" W

PERMITTED BA-43 (EB)  
ADDITIONAL MARSH AREA  
(TOP OF SLOPE)

PT.	LATITUDE	LONGITUDE
1	29° 37' 09.74" N	90° 03' 05.44" W
2	29° 36' 51.36" N	90° 03' 05.55" W
3	29° 36' 52.00" N	90° 03' 08.60" W
4	29° 36' 50.03" N	90° 03' 16.24" W
5	29° 36' 46.63" N	90° 03' 18.64" W
6	29° 36' 29.72" N	90° 03' 18.55" W
7	29° 36' 29.79" N	90° 03' 25.34" W
8	29° 36' 29.53" N	90° 03' 28.15" W
9	29° 36' 29.65" N	90° 03' 40.60" W
10	29° 36' 34.21" N	90° 03' 45.20" W
11	29° 36' 41.70" N	90° 03' 47.24" W
12	29° 36' 49.99" N	90° 03' 46.13" W
13	29° 36' 56.56" N	90° 03' 42.32" W
14	29° 36' 59.84" N	90° 03' 32.70" W
15	29° 36' 59.65" N	90° 03' 13.33" W
16	29° 37' 02.51" N	90° 03' 12.08" W
17	29° 37' 08.41" N	90° 03' 10.74" W


PERMITTED  
BOOSTER PUMP LOCATIONS

PT.	LATITUDE	LONGITUDE
1	29° 42' 04.01" N	89° 59' 00.12" W
2	29° 39' 58.03" N	89° 59' 11.71" W
3	29° 39' 29.57" N	90° 00' 33.79" W
4	29° 38' 05.92" N	90° 02' 53.14" W

PT.	LATITUDE	LONGITUDE
1	29° 38' 33.79" N	90° 05' 43.76" W
2	29° 38' 36.11" N	90° 05' 39.23" W
3	29° 38' 35.26" N	90° 05' 38.05" W
4	29° 38' 33.34" N	90° 05' 37.43" W
5	29° 38' 33.08" N	90° 05' 35.59" W
6	29° 38' 32.07" N	90° 05' 34.21" W
7	29° 38' 30.85" N	90° 05' 31.02" W
8	29° 38' 30.78" N	90° 05' 28.75" W
9	29° 38' 28.67" N	90° 05' 22.82" W
10	29° 38' 28.43" N	90° 05' 18.94" W
11	29° 38' 20.26" N	90° 05' 16.81" W
12	29° 38' 33.48" N	90° 05' 15.41" W
13	29° 38' 34.70" N	90° 05' 13.23" W
14	29° 38' 35.21" N	90° 05' 06.01" W
15	29° 38' 34.77" N	90° 05' 00.40" W
16	29° 38' 33.52" N	90° 04' 55.13" W
17	29° 38' 31.55" N	90° 04' 49.78" W
18	29° 38' 24.42" N	90° 04' 38.98" W
19	29° 38' 22.33" N	90° 04' 37.22" W
20	29° 38' 17.09" N	90° 04' 33.99" W
21	29° 38' 16.07" N	90° 04' 29.78" W
22	29° 38' 14.53" N	90° 04' 28.39" W
23	29° 38' 14.53" N	90° 04' 28.39" W
24	29° 38' 11.96" N	90° 04' 25.94" W
25	29° 38' 11.26" N	90° 04' 18.04" W
26	29° 38' 10.59" N	90° 04' 14.17" W
27	29° 38' 08.55" N	90° 04' 11.61" W
28	29° 38' 07.56" N	90° 04' 11.11" W
29	29° 38' 05.95" N	90° 04' 09.47" W
30	29° 38' 04.23" N	90° 04' 01.09" W
31	29° 38' 01.33" N	90° 03' 57.32" W
32	29° 37' 59.26" N	90° 03' 53.74" W
33	29° 37' 58.56" N	90° 03' 50.99" W
34	29° 37' 58.67" N	90° 03' 48.16" W
35	29° 37' 59.61" N	90° 03' 45.24" W
36	29° 38' 00.16" N	90° 03' 42.71" W
37	29° 37' 59.91" N	90° 03' 39.88" W
38	29° 37' 58.56" N	90° 03' 38.16" W
39	29° 37' 56.92" N	90° 03' 36.90" W
40	29° 37' 56.06" N	90° 03' 36.03" W
41	29° 37' 55.53" N	90° 03' 35.00" W
42	29° 37' 53.79" N	90° 03' 29.95" W
43	29° 37' 52.82" N	90° 03' 23.74" W
44	29° 37' 52.63" N	90° 03' 20.42" W
45	29° 37' 52.78" N	90° 03' 15.34" W

PT.	LATITUDE	LONGITUDE
46	29° 37' 53.05" N	90° 03' 12.51" W
47	29° 37' 53.63" N	90° 03' 10.48" W
48	29° 37' 54.31" N	90° 03' 09.40" W
49	29° 37' 56.11" N	90° 03' 08.75" W
50	29° 37' 57.50" N	90° 03' 08.22" W
51	29° 37' 59.11" N	90° 03' 06.86" W
52	29° 38' 00.30" N	90° 03' 05.45" W
53	29° 38' 02.81" N	90° 03' 04.47" W
54	29° 38' 02.81" N	90° 03' 02.54" W
55	29° 38' 04.04" N	90° 03' 01.49" W
56	29° 38' 04.97" N	90° 03' 00.88" W
57	29° 38' 06.05" N	90° 02' 59.77" W
58	29° 38' 06.50" N	90° 02' 58.86" W
59	29° 38' 06.70" N	90° 02' 57.71" W
60	29° 38' 06.81" N	90° 02' 56.01" W
61	29° 38' 05.55" N	90° 02' 51.89" W

NO MODIFICATIONS  
MADE TO THIS SHEET

BY	DESCRIPTION	DATE	DESIGNED BY	APPROVED BY	DATE
			CW	RUSS JOFFRION, P.E.	JULY, 2015
 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793</p>			<p>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>		
DRAWN BY VC			FEDERAL PROJECT NUMBER: BA-43 (EB)		
			STATE PROJECT NUMBER: N/A		
			LONG DISTANCE SEDIMENT PIPELINE		
			PERMITTED PROJECT ALIGNMENT TABLES		
			SHEET 22 OF 58		

BA-164 MARSH CREATION  
AREA B - TERRACE CENTERLINE

PT.	START		END	
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1	29°38'41.17"N	90°00'27.04"W	29°38'42.51"N	90°00'15.87"W
2	29°38'42.66"N	90°00'14.64"W	29°38'43.53"N	90°00'04.05"W
3	29°38'44.08"N	90°00'02.78"W	29°38'45.36"N	90°59'52.17"W
4	29°38'45.50"N	89°59'59.93"W	29°38'46.48"N	89°59'42.81"W
5	29°38'44.56"N	90°00'23.81"W	29°38'45.45"N	90°00'16.34"W
6	29°38'45.60"N	90°00'15.10"W	29°38'46.87"N	90°00'04.51"W
7	29°38'47.03"N	90°00'03.24"W	29°38'48.30"N	89°59'52.63"W
8	29°38'48.45"N	89°59'51.39"W	29°38'48.40"N	89°59'46.28"W
9	29°38'47.94"N	90°00'20.57"W	29°38'48.40"N	90°00'16.80"W
10	29°38'48.54"N	90°00'15.56"W	29°38'48.82"N	90°00'04.97"W
11	29°38'49.97"N	90°00'03.70"W	29°38'51.24"N	89°59'53.09"W
12	29°38'51.39"N	89°59'51.86"W	29°38'51.62"N	89°59'45.95"W
13	29°38'51.42"N	90°00'16.59"W	29°38'52.76"N	90°00'05.43"W
14	29°38'52.91"N	90°00'04.16"W	29°38'54.19"N	89°59'53.50"W
15	29°38'54.72"N	90°00'14.09"W	29°38'55.70"N	90°00'04.62"W
16	29°38'55.85"N	90°00'04.62"W	29°38'55.76"N	89°59'57.09"W
17	29°38'58.10"N	90°00'10.85"W	29°38'59.33"N	90°00'00.66"W
18	29°39'01.49"N	90°00'07.61"W	29°39'01.90"N	90°00'04.23"W

BA-164 MARSH CREATION  
AREA C - TERRACE CENTERLINE

PT.	START		END	
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1	29°38'24.63"N	89°59'12.95"W	29°38'18.73"N	89°59'12.07"W
2	29°38'17.65"N	89°59'11.91"W	29°38'07.83"N	89°59'10.45"W
3	29°38'06.75"N	89°59'10.29"W	29°37'56.94"N	89°59'08.83"W
4	29°38'27.23"N	89°59'09.90"W	29°38'24.19"N	89°59'09.45"W
5	29°38'21.35"N	89°59'09.03"W	29°38'19.11"N	89°59'08.70"W
6	29°38'18.03"N	89°59'08.54"W	29°38'08.22"N	89°59'07.08"W
7	29°38'07.14"N	89°59'06.92"W	29°37'57.32"N	89°59'05.46"W
8	29°38'18.42"N	89°59'05.16"W	29°38'08.60"N	89°59'05.60"W
9	29°38'27.33"N	89°59'03.06"W	29°38'18.55"N	89°59'01.76"W
10	29°38'07.52"N	89°59'03.55"W	29°37'57.70"N	89°59'02.09"W
11	29°38'15.71"N	89°59'01.34"W	29°38'08.98"N	89°59'00.34"W
12	29°38'07.90"N	89°58'59.00.18"W	29°37'58.08"N	89°58'58.72"W
13	29°38'22.41"N	89°58'57.49"W	29°38'15.74"N	89°58'57.91"W
14	29°38'12.91"N	89°58'56.81"W	29°37'59.11"N	89°58'55.44"W
15	29°38'08.28"N	89°58'54.40"W	29°38'12.91"N	89°58'54.06"W
16	29°38'15.15"N	89°58'53.64"W	29°38'07.14"N	89°58'53.21"W
17				
18				

MARSH CREATION AREA 'D'  
(CENTERLINE OF EARTHEN  
CONTAINMENT DIKE)

PT.	LATITUDE	LONGITUDE
1	29°39'00.30" N	90°01'30.68" W
2	29°38'34.72" N	90°02'20.98" W
3	29°38'33.75" N	90°02'20.66" W
4	29°38'32.91" N	90°02'21.31" W
5	29°38'29.30" N	90°02'20.81" W
6	29°38'28.86" N	90°02'18.78" W
7	29°38'28.14" N	90°02'13.40" W
8	29°38'28.98" N	90°02'08.82" W
9	29°38'28.65" N	90°02'07.40" W
10	29°38'28.65" N	90°02'05.82" W
11	29°38'26.62" N	90°02'05.86" W
12	29°38'22.28" N	90°02'06.68" W
13	29°38'16.15" N	90°02'04.39" W
14	29°38'09.19" N	90°01'59.73" W
15	29°38'01.14" N	90°01'51.13" W
16	29°37'56.82" N	90°01'46.89" W
17	29°37'56.82" N	90°01'43.15" W
18	29°37'59.49" N	90°01'36.11" W
19	29°37'56.80" N	90°01'33.65" W
20	29°37'50.98" N	90°01'34.62" W
21	29°37'48.45" N	90°01'32.05" W
22	29°37'40.54" N	90°01'29.51" W
23	29°37'38.71" N	90°01'29.01" W
24	29°37'37.73" N	90°01'27.59" W
25	29°37'37.85" N	90°01'26.06" W
26	29°37'39.00" N	90°01'21.02" W
27	29°37'55.18" N	90°01'06.08" W
28	29°37'57.23" N	90°01'04.16" W
29	29°38'04.72" N	90°00'57.24" W
30	29°38'06.67" N	90°00'55.72" W
31	29°38'08.55" N	90°00'55.53" W
32	29°38'11.57" N	90°00'52.73" W
33	29°38'13.99" N	90°00'56.16" W
34	29°38'15.32" N	90°00'56.72" W
35	29°38'16.49" N	90°00'55.63" W
36	29°38'16.69" N	90°00'54.04" W
37	29°38'15.27" N	90°00'52.02" W
38	29°38'13.80" N	90°00'51.40" W
39	29°38'13.01" N	90°00'50.27" W
40	29°38'29.89" N	90°00'34.66" W
41	29°38'38.21" N	90°00'30.74" W
42	29°38'39.13" N	90°00'32.77" W
43	29°38'39.84" N	90°00'40.10" W

MARSH CREATION AREA 'E'  
(CENTERLINE OF EARTHEN  
CONTAINMENT DIKE)

PT.	LATITUDE	LONGITUDE
1	29°37'10.55" N	90°02'58.45" W
2	29°37'10.45" N	90°02'47.56" W
3	29°37'12.40" N	90°02'41.85" W
4	29°37'12.11" N	90°02'12.21" W
5	29°37'06.72" N	90°02'08.50" W
6	29°37'06.38" N	90°02'02.95" W
7	29°37'02.83" N	90°02'00.52" W
8	29°36'55.11" N	90°01'56.91" W
9	29°36'53.74" N	90°01'58.41" W
10	29°36'53.79" N	90°02'03.23" W
11	29°36'50.93" N	90°02'08.85" W
12	29°36'51.15" N	90°02'30.52" W
13	29°36'53.81" N	90°02'36.48" W
14	29°36'48.00" N	90°02'52.28" W
15	29°36'48.06" N	90°02'58.74" W

TEMPORARY ACCESS  
CORRIDOR ALIGNMENT

PT.	LATITUDE	LONGITUDE
60	29°39'01.91" N	90°01'32.67" W
61	29°39'00.11" N	90°01'31.05" W
62	29°38'51.83" N	90°01'24.96" W
63	29°38'48.15" N	90°01'22.83" W
64	29°38'44.46" N	90°01'19.43" W
65	29°38'41.29" N	90°00'56.31" W
66	29°38'39.47" N	90°00'40.16" W

BY DESCRIPTION DATE



COASTAL PROTECTION & RESTORATION  
AUTHORITY

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER  
LONG DISTANCE SEDIMENT PIPELINE

PROPOSED PROJECT  
ALIGNMENT TABLES

DRAWN BY: YC

DESIGNED BY: CW

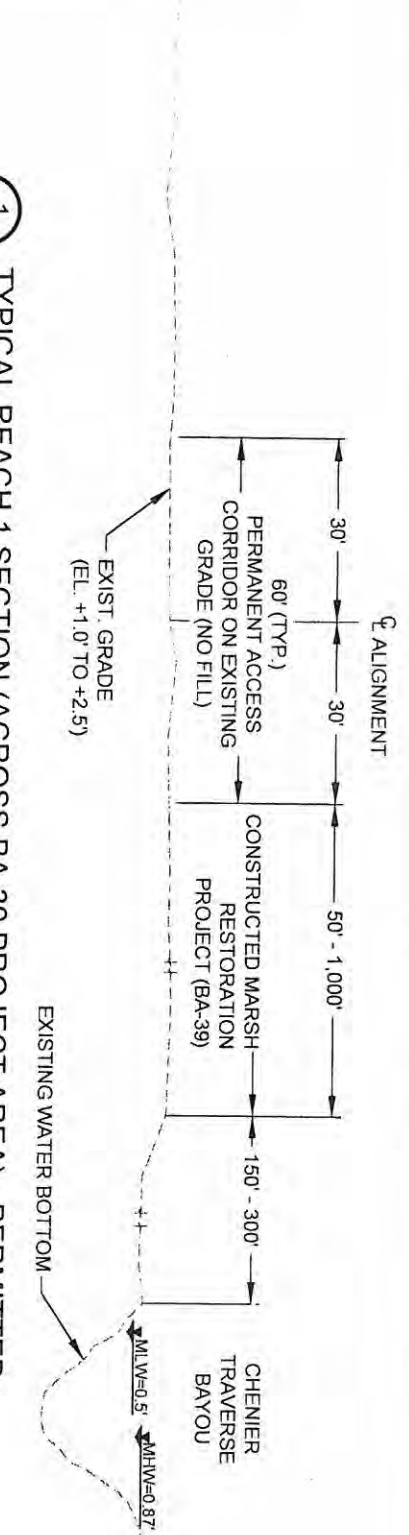
APPROVED BY: RUSS JOFFRION, P.E.

STATE PROJECT NUMBER: BA-43 (EB)  
FEDERAL PROJECT NUMBER: N/A

DATE: JULY, 2015  
SHEET 23 OF 53

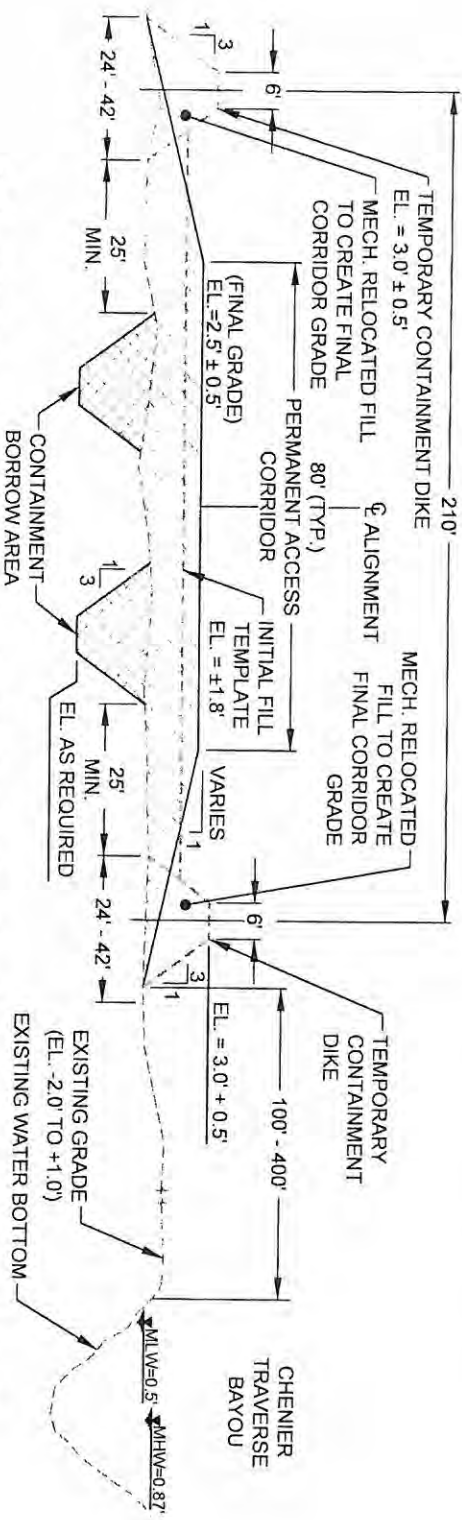


ELEVATION IN FEET, NAVD88



**1** TYPICAL REACH 1 SECTION (ACROSS BA-39 PROJECT AREA) - PERMITTED  
16 (STA. 232+12.07 TO STA. 349+28.02)

ELEVATION IN FEET, NAVD88



**2** TYPICAL REACH 2 SECTION (BETWEEN BA-39 & BAYOU DUPONT) - PERMITTED  
16 (STA. 349+28.02 TO STA. 388+06.42)

NOTE:  
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC  
SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10,  
2011 BY T. BAKER SMITH, LLC.


**NO MODIFICATIONS  
MADE TO THIS SHEET**

HORIZONTAL SCALE

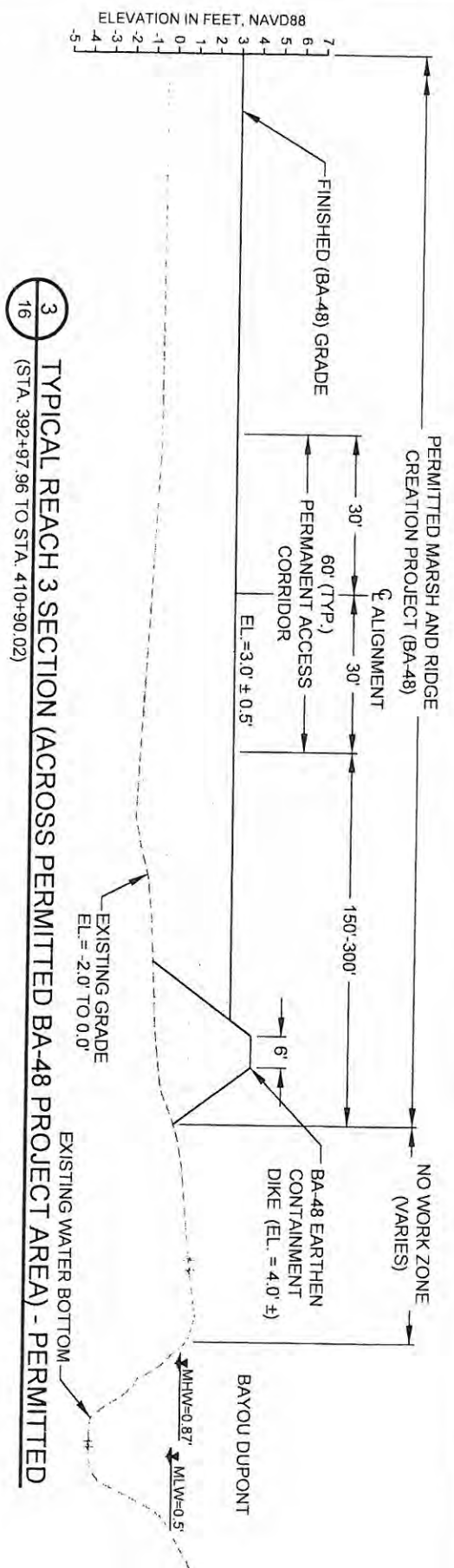


BY	DESCRIPTION	DATE

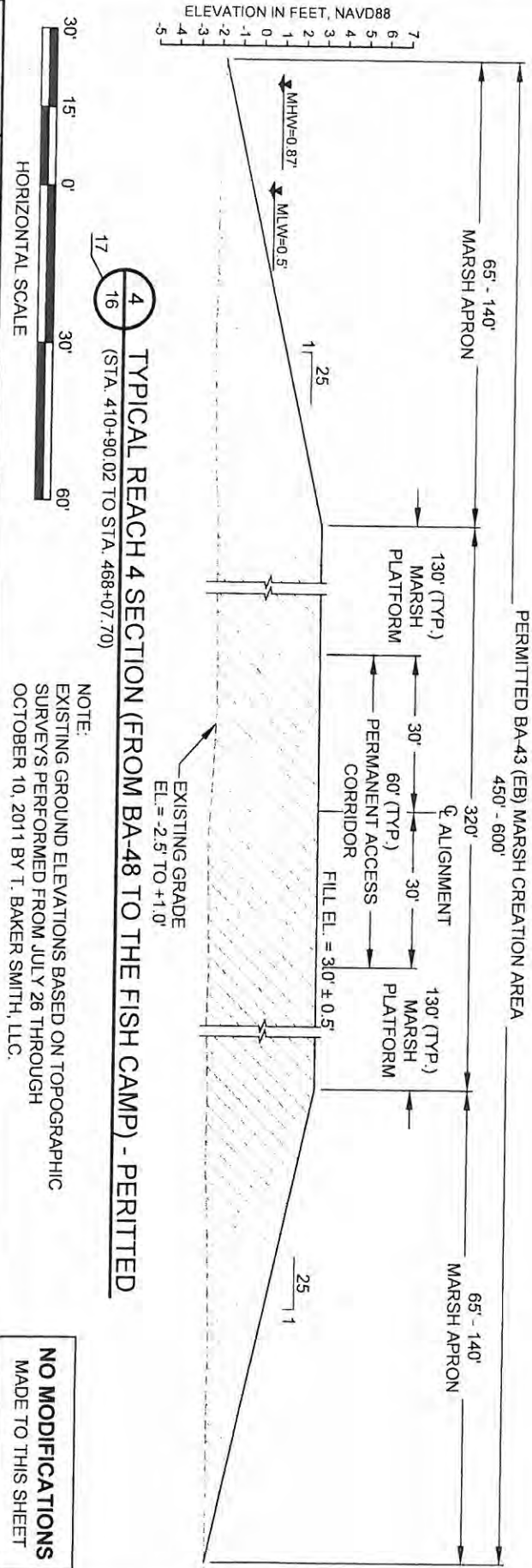
  

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	DESIGNED BY: CW
<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY: RUSS JOFFRION, P.E.
MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A
TYPICAL FILL SECTIONS (SHEET 1 OF 4) PERMITTED	DATE: JULY, 2015 SHEET 24 OF 53
DRAWN BY: YC	DESIGNED BY: CW





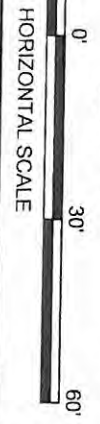
**3** TYPICAL REACH 3 SECTION (ACROSS PERMITTED BA-48 PROJECT AREA) - PERMITTED  
 (STA. 392+97.96 TO STA. 410+90.02)



**4** TYPICAL REACH 4 SECTION (FROM BA-48 TO THE FISH CAMP) - PERMITTED  
 (STA. 410+90.02 TO STA. 468+07.70)


NOTE:  
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

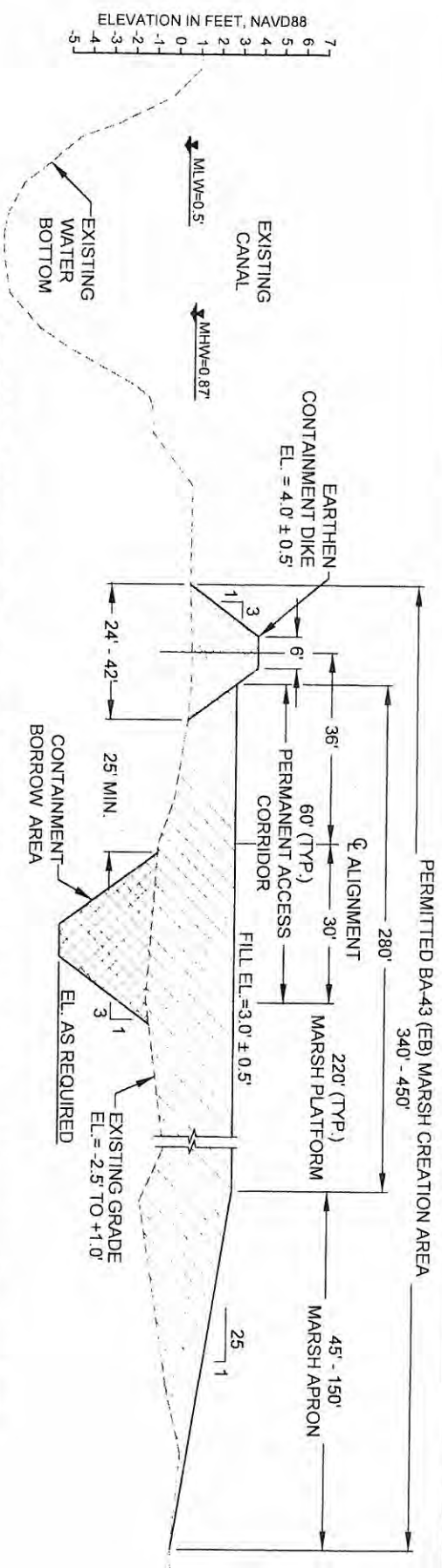
**NO MODIFICATIONS MADE TO THIS SHEET**



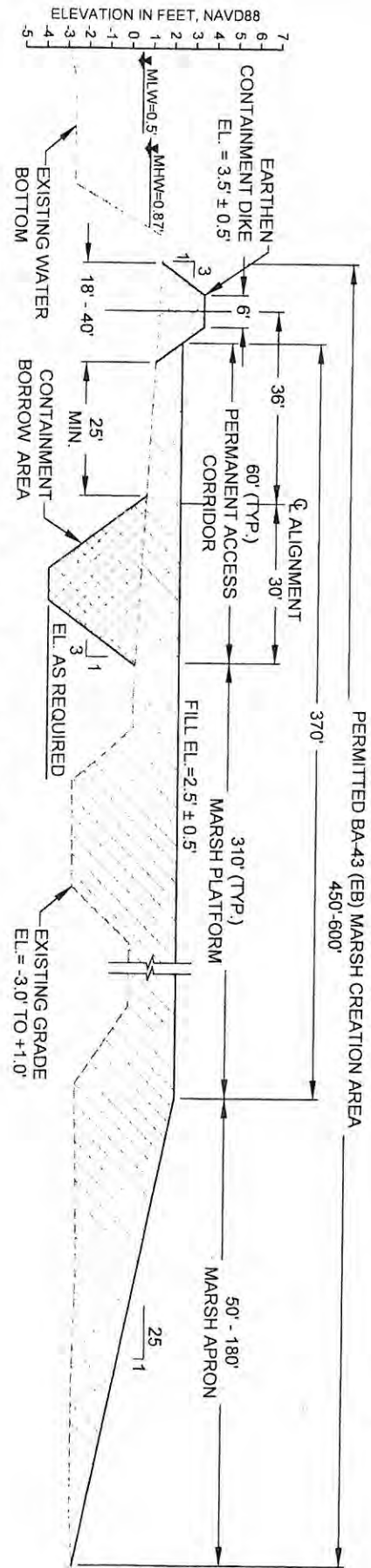
BY	DESCRIPTION	DATE

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DRAWN BY: YC DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.
STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE TYPICAL FILL SECTIONS (SHEET 2 OF 4) PERMITTED DATE: JULY, 2015 SHEET 25 OF 53



**5** TYPICAL REACH 5 SECTION (FROM THE FISH CAMP TO STA. 511+83.65) - PERMITTED  
 (STA. 468+07.70 TO STA. 511+83.65)



**6** TYPICAL REACH 6 SECTION (FROM STA. 511+83.65 TO BARATARIA WATERWAY) - PERMITTED  
 (STA. 511+83.65 TO STA. 570+22.0)




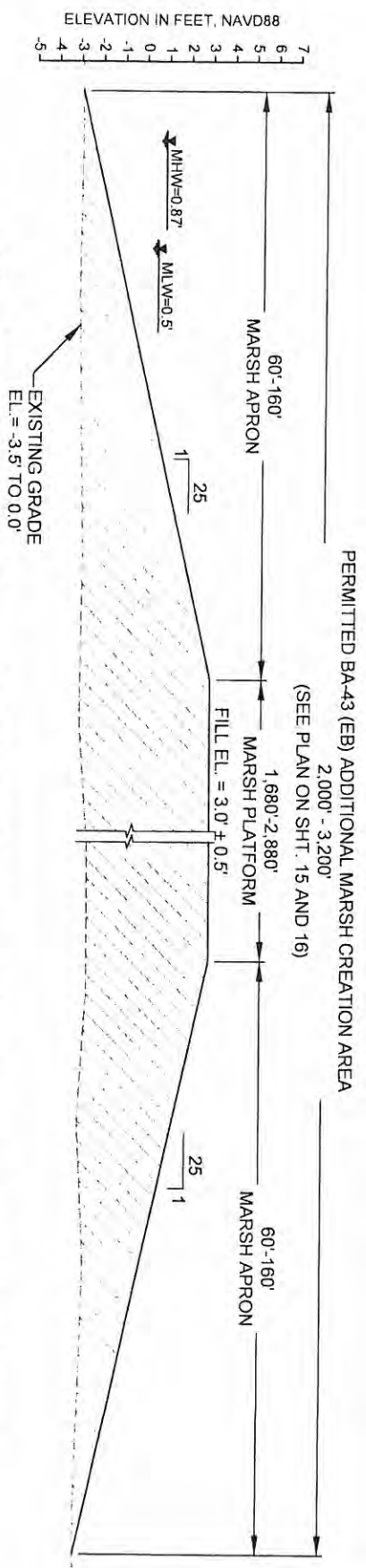
NOTE:  
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

**NO MODIFICATIONS  
 MADE TO THIS SHEET**

BY	DESCRIPTION	DATE

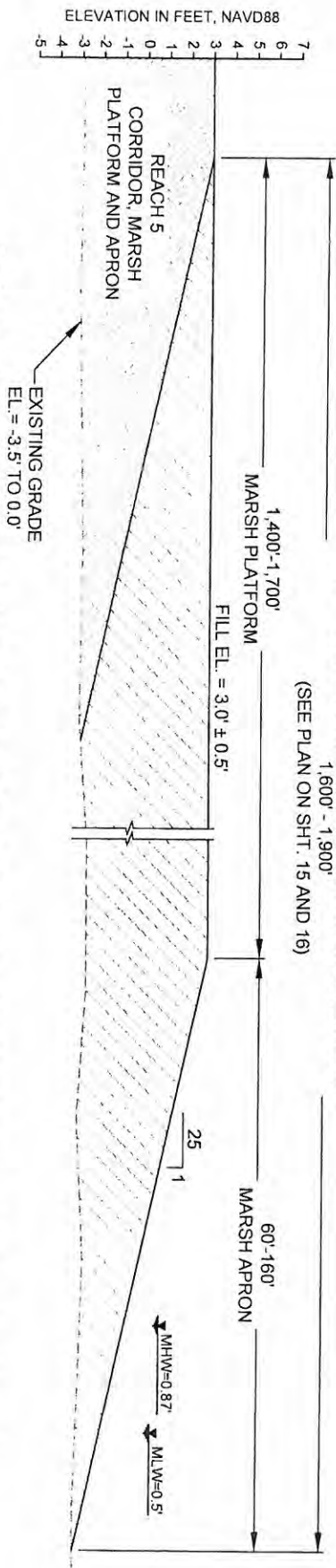
  

 <p>ONE AMERICAN PLACE          301 MAIN STREET, SUITE 800          BATON ROUGE, LA 70825          225-927-7193</p>	<p>DESIGNED BY CW</p>
<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b></p> <p>450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY: RUSS JOFFRION, P.E.</p>
<p>MISSISSIPPI RIVER          LONG DISTANCE SEDIMENT PIPELINE</p>	<p>STATE PROJECT NUMBER: BA-43 (EB)</p>
<p>TYPICAL FILL SECTIONS          (SHEET 3 OF 4)          PERMITTED</p>	<p>DATE: JULY, 2015</p>
<p>DRAWN BY: YC</p>	<p>FEDERAL PROJECT NUMBER: N/A</p>
<p>SHEET 26 OF 53</p>	<p> </p>



7  
17  
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA - PERMITTED  
(SOUTH TO NORTH)

PERMITTED BA-43 (EB) ADDITIONAL MARSH CREATION AREA  
2,000' - 3,200'  
(SEE PLAN ON SH. 15 AND 16)



8  
17  
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA - PERMITTED  
(WEST TO EAST)


NOTE:  
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC  
SURVEYS PERFORMED FROM JULY 26 THROUGH  
OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

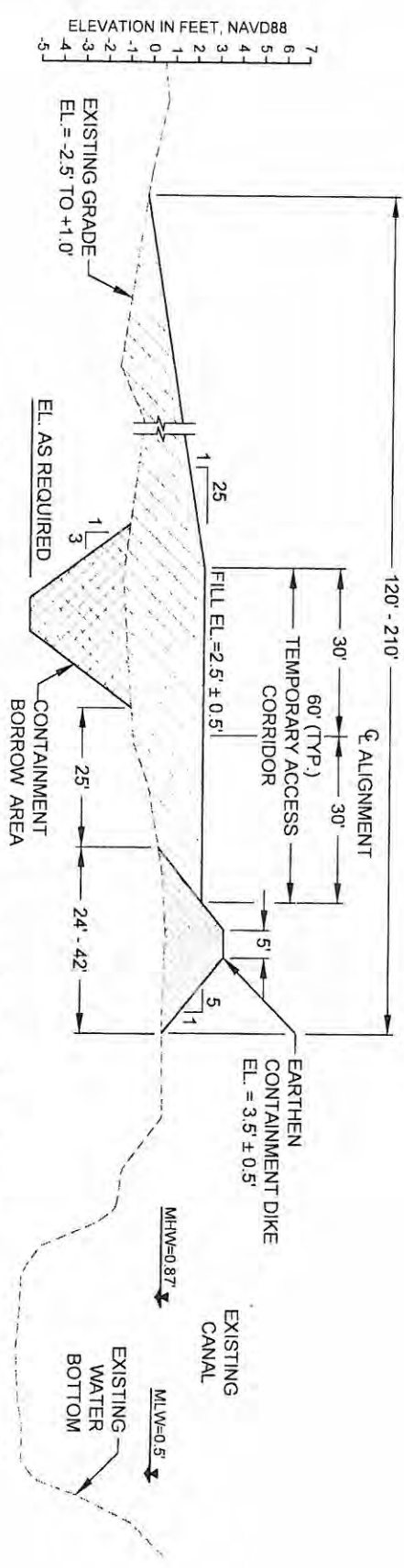


**NO MODIFICATIONS  
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE
DRAWN BY: YC <td></td> <td></td>		
DESIGNED BY: CW <td></td> <td></td>		

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7193	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL FILL SECTIONS (SHEET 4 OF 4) PERMITTED
		APPROVED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A




**9** **TEMPORARY ACCESS CORRIDOR TYPICAL SECTION**  
 (STA. 602+34 TO STA. 656+22)

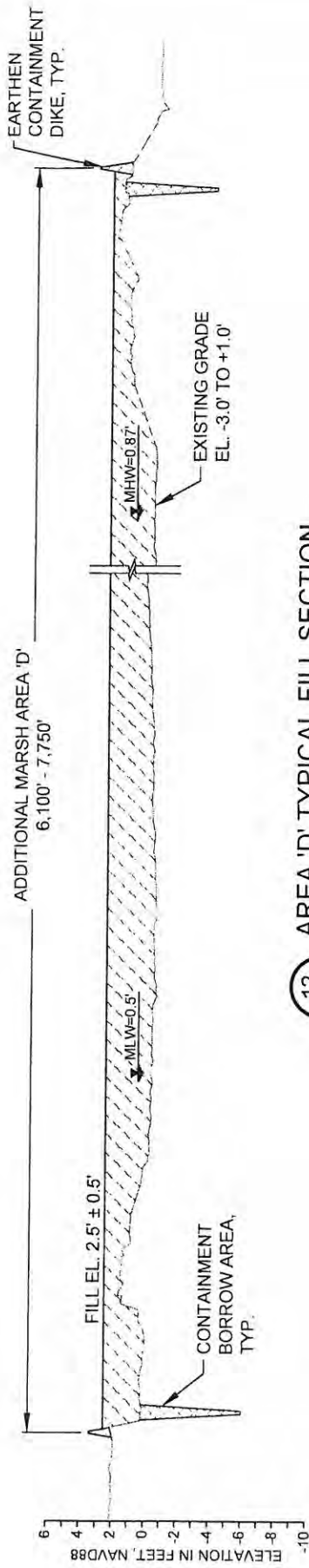


BY	DESCRIPTION	DATE

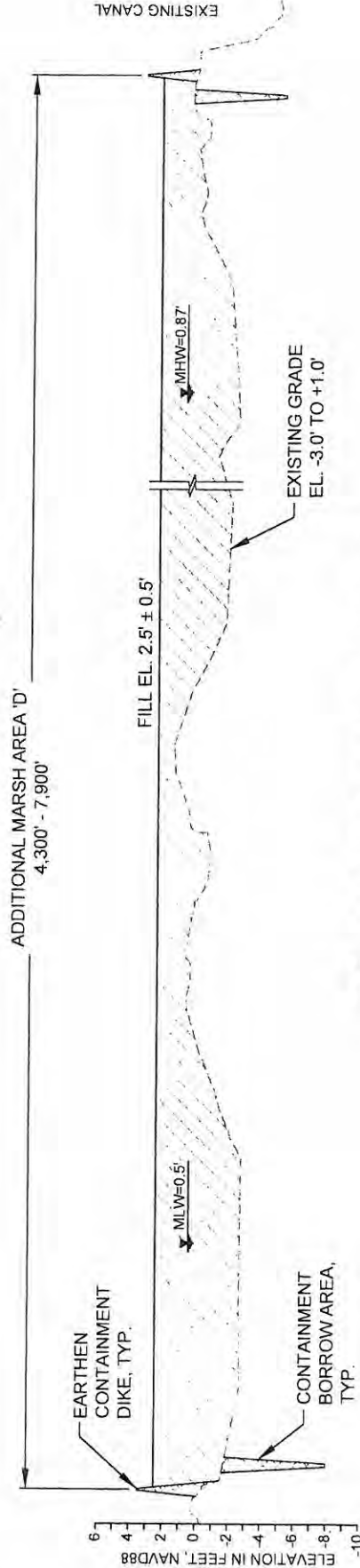
  

DRAWN BY: YC	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
 <p>ONE AMERICAN PLACE          301 MAIN STREET, SUITE 800          BATON ROUGE, LA 70825          225-527-7793</p>		<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b>          450 LAUREL STREET          BATON ROUGE, LOUISIANA, 70801</p>		FEDERAL PROJECT NUMBER: N/A
			MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED TYPICAL FILL SECTIONS (SHEET 1 OF 5)
				SHEET 28 OF 53





12  
18  
**AREA 'D' TYPICAL FILL SECTION**  
(NORTHWEST TO SOUTHEAST)

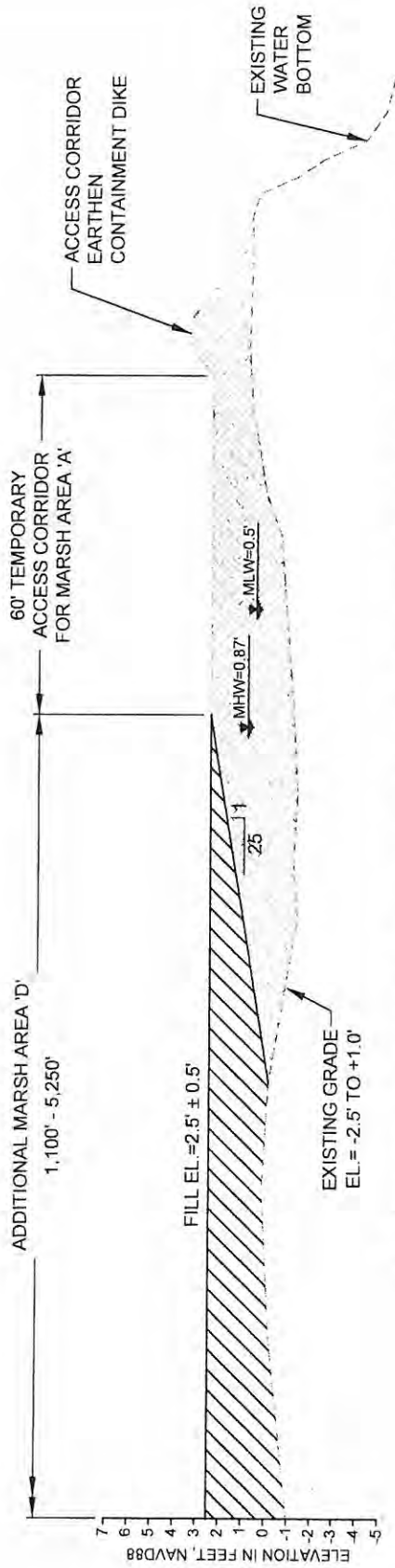


13  
18  
**AREA 'D' TYPICAL FILL SECTION**  
(SOUTHWEST TO NORTHEAST)



NOTE:  
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

BY	DESCRIPTION	DATE		<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED TYPICAL FILL SECTIONS (SHEET 2 OF 5)	
							DRAWN BY: YC
HORIZONTAL SCALE			FEDERAL PROJECT NUMBER: N/A				SHEET 29 OF 53



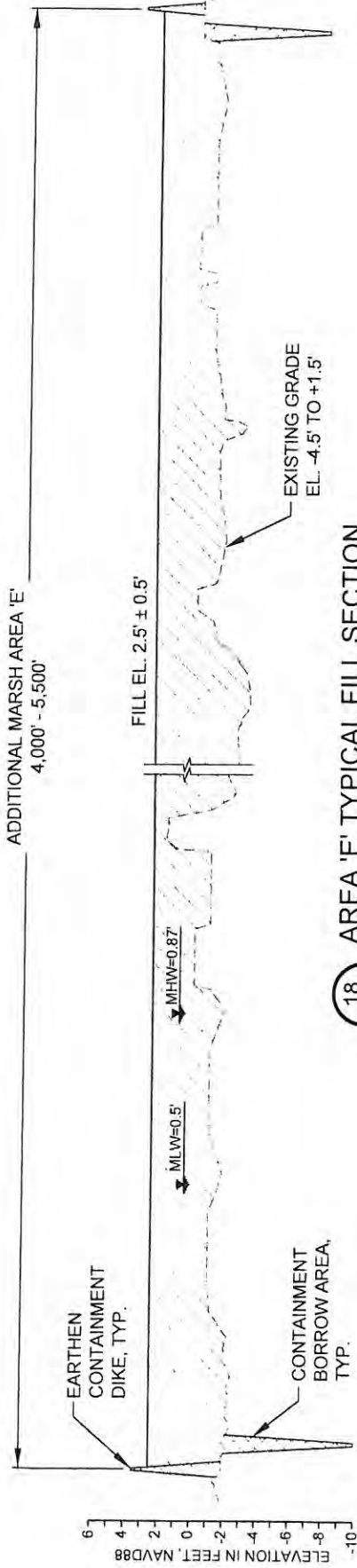
**16**  
**19**

**AREA 'D' TYPICAL FILL SECTION ADJACENT TO TEMPORARY ACCESS CORRIDOR**  
(SOUTH TO NORTH)

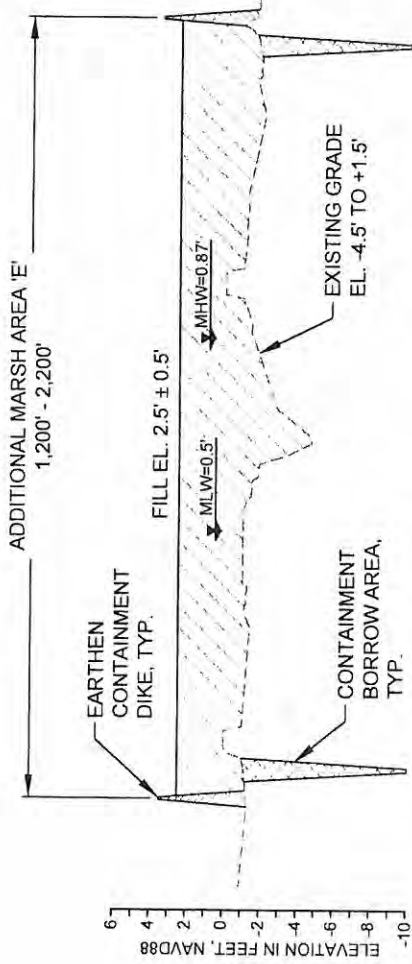
NOTE:  
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-627-7753	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED TYPICAL FILL SECTIONS (SHEET 3 OF 5)
FEDERAL PROJECT NUMBER: N/A			SHEET 30 OF 53			



18  
20  
**AREA 'E' TYPICAL FILL SECTION**  
(WEST TO EAST)

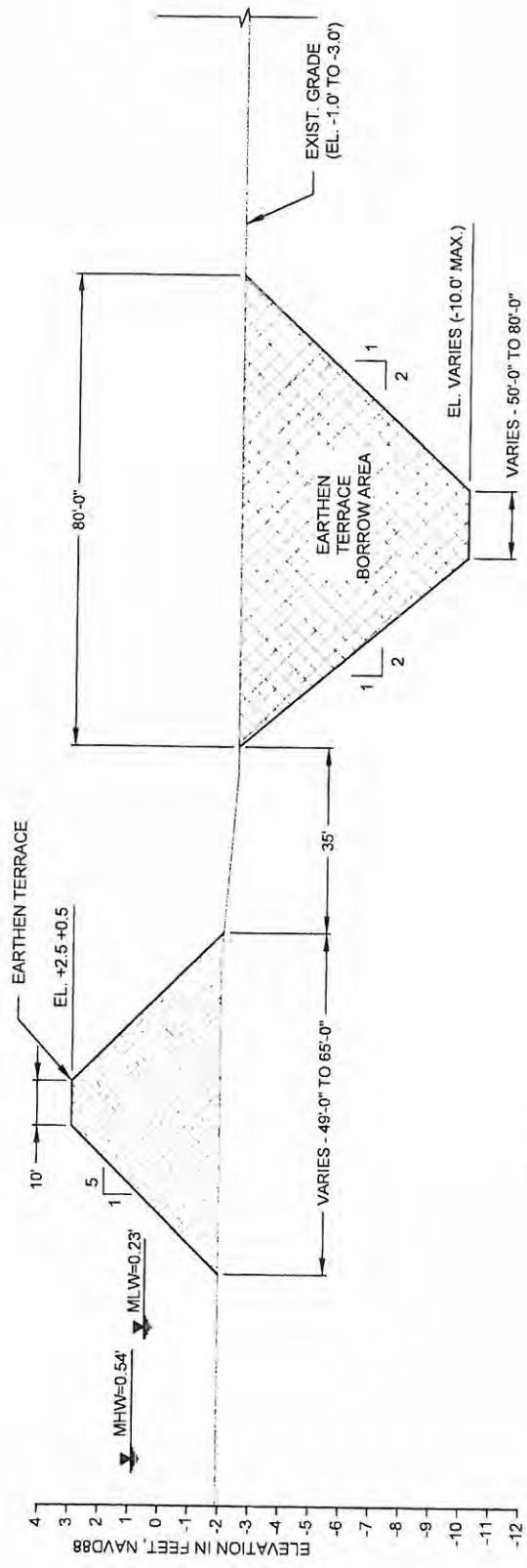


19  
20  
**AREA 'E' TYPICAL FILL SECTION**  
(SOUTH TO NORTH)



NOTE:  
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED TYPICAL FILL SECTIONS (SHEET 4 OF 5)
DRAWN BY	YC	DESIGNED BY				
			STATE PROJECT NUMBER	BA-43 (EB)	DATE	JULY, 2015
			FEDERAL PROJECT NUMBER	N/A	SHEET 31 OF 53	



20  
19

**AREA 'B' AND AREA 'C' EARTHEN TERRACE TYPICAL SECTION**

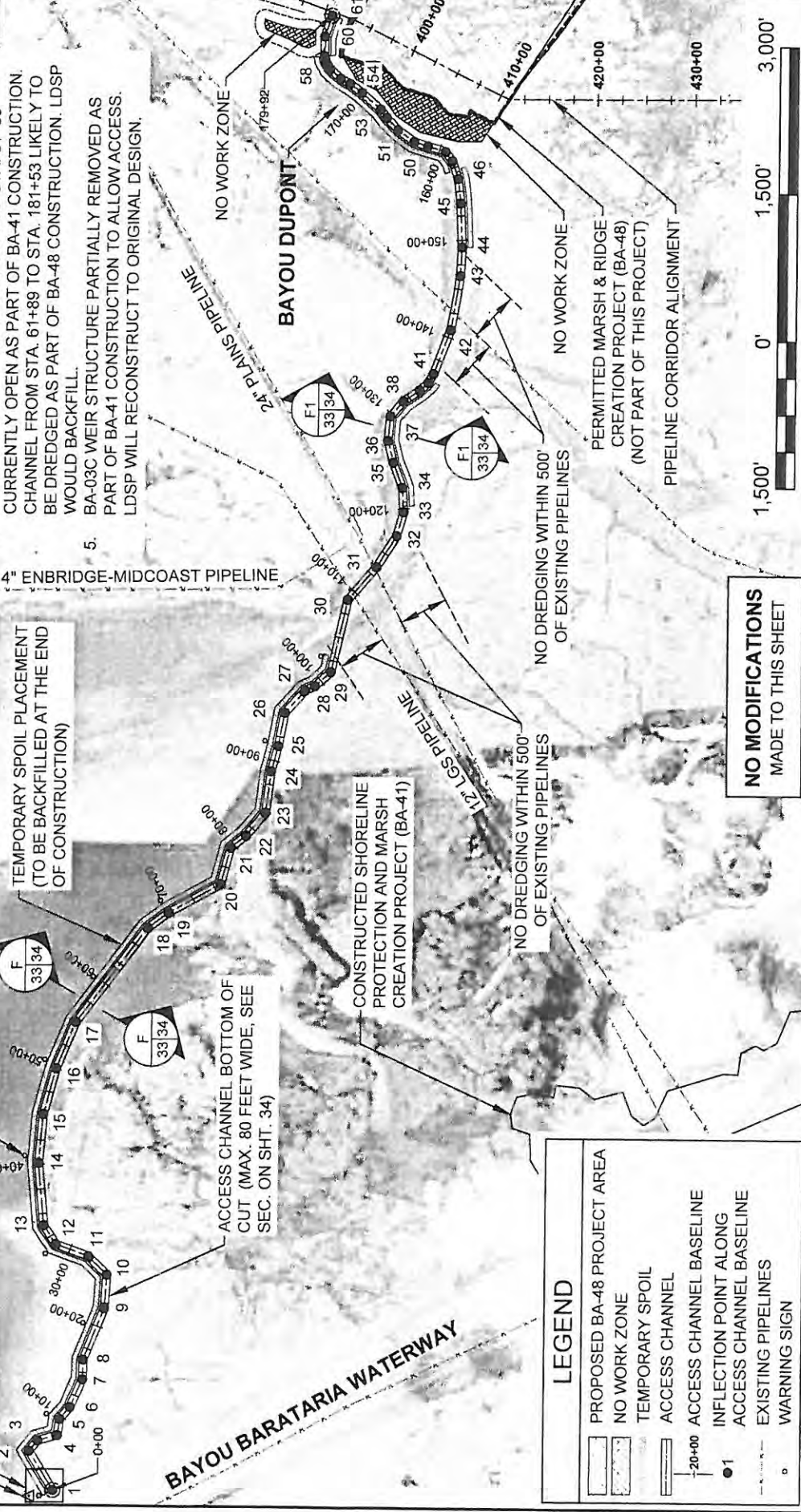


BY	DESCRIPTION	DATE	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	PROPOSED TYPICAL FILL SECTIONS (SHEET 5 OF 5)
<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801			STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
<b>MOTPANT &amp; NICHOL</b> ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-627-7763			FEDERAL PROJECT NUMBER: N/A	SHEET 32 OF 53
DESIGNED BY: CW				
DRAWN BY: YC				
APPROVED BY: RUSS JOFFERION, P.E.				



**NOTES:**

1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. NO DREDGING WITHIN 500' OF EXISTING PIPELINES.
3. FOR ACCESS CHANNEL ALIGNMENT SEE TABLE ON SHEET 22.
4. ACCESS CHANNEL FROM STA. 0+00 TO STA. 61+89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61+89 TO STA. 181+53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.
5. BA-03C WEIR STRUCTURE PARTIALLY REMOVED AS PART OF BA-41 CONSTRUCTION TO ALLOW ACCESS. LDSP WILL RECONSTRUCT TO ORIGINAL DESIGN.



**NO MODIFICATIONS  
MADE TO THIS SHEET**



BA41-SM-01  
N 417,912.65  
E 3,673,985.68

BA-03C WEIR  
STRUCTURE  
(SEE NOTE 5)

**THE PEN**

TEMPORARY WARNING SIGN  
(TYP., SEE DET. 9 ON SHT. 46)

TEMPORARY SPOIL PLACEMENT  
(TO BE BACKFILLED AT THE END  
OF CONSTRUCTION)

ACCESS CHANNEL BOTTOM OF  
CUT (MAX. 80 FEET WIDE, SEE  
SEC. ON SHT. 34)

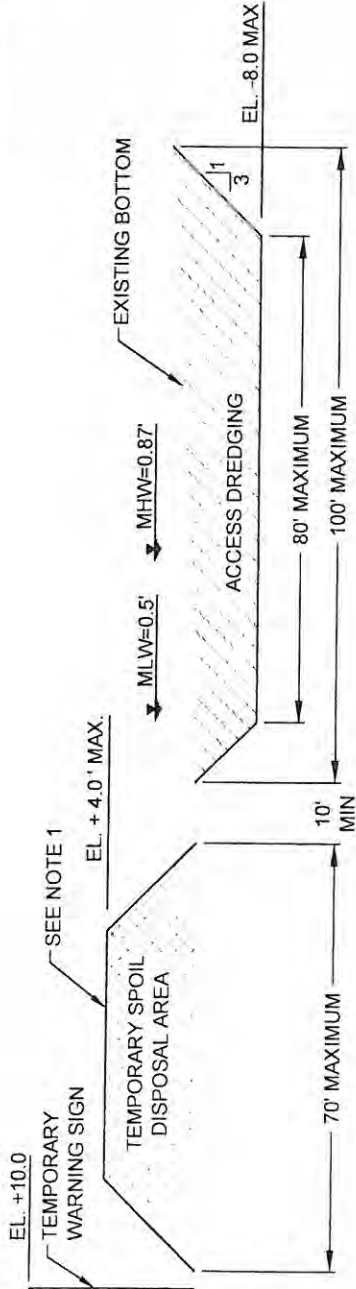
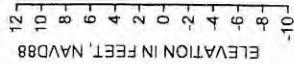
CONSTRUCTED SHORELINE  
PROTECTION AND MARSH  
CREATION PROJECT (BA-41)

**LEGEND**

- PROPOSED BA-48 PROJECT AREA
- NO WORK ZONE
- TEMPORARY SPOIL
- ACCESS CHANNEL
- ACCESS CHANNEL BASELINE
- INFLECTION POINT ALONG ACCESS CHANNEL BASELINE
- EXISTING PIPELINES
- WARNING SIGN

BY	DESCRIPTION	DATE
DRAWN BY	YC	DESIGNED BY: CW
 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA. 70825 225-927-7783		
<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		
APPROVED BY: RUSS JOFFRION, P.E.		
FEDERAL PROJECT NUMBER: N/A		
STATE PROJECT NUMBER: BA-43 (EB)		
DATE: JULY, 2015		
MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		ACCESS CHANNEL LAYOUT - PERMITTED
SHEET 33 OF 53		

THE PEN

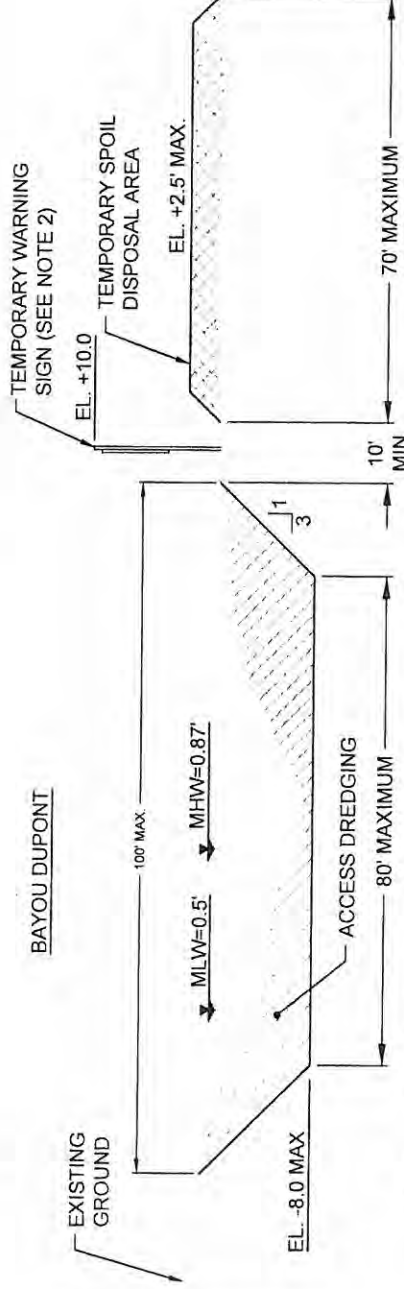
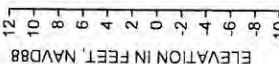


**NOTES:**

1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION.
2. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 500 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.
3. ACCESS CHANNEL FROM STA. 0+00 TO STA. 61+89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61+89 TO STA. 181+53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.

**F 33 TYPICAL ACCESS CHANNEL SECTION @ THE PEN - PERMITTED**

BAYOU DUPONT

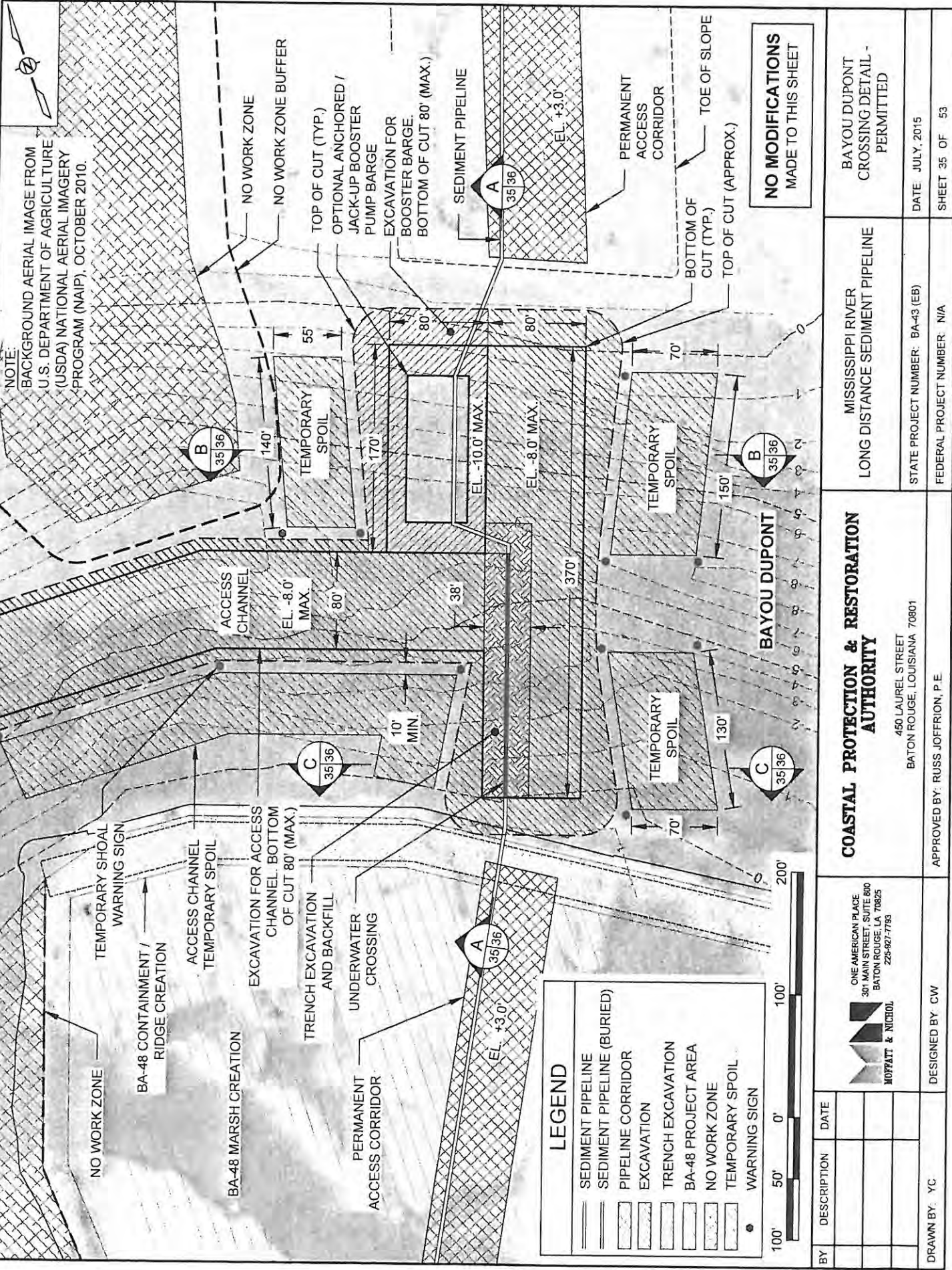


**F1 33 TYPICAL ACCESS CHANNEL SECTION @ BAYOU DUPONT - PERMITTED**

**NO MODIFICATIONS  
MADE TO THIS SHEET**



BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL ACCESS CHANNEL SECTIONS - PERMITTED
			 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-627-7753 MOTTFAIT & NICHOIL			
					450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: BA-43 (EB)
			APPROVED BY: RUSS JOFFRION, P.E.		FEDERAL PROJECT NUMBER: N/A	SHEET 34 OF 53
	DRAWN BY	YC	DESIGNED BY: CW			



NOTE:  
BACKGROUND AERIAL IMAGE FROM  
U.S. DEPARTMENT OF AGRICULTURE  
(USDA) NATIONAL AERIAL IMAGERY  
PROGRAM (NAIP), OCTOBER 2010.

**NO MODIFICATIONS  
MADE TO THIS SHEET**

**LEGEND**

- SEDIMENT PIPELINE
- SEDIMENT PIPELINE (BURIED)
- PIPELINE CORRIDOR
- EXCAVATION
- TRENCH EXCAVATION
- BA-48 PROJECT AREA
- NO WORK ZONE
- TEMPORARY SPOIL
- WARNING SIGN



BY	DESCRIPTION	DATE

**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-927-7793

DESIGNED BY: CW

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

APPROVED BY: RUSS JOFFRION, P.E.

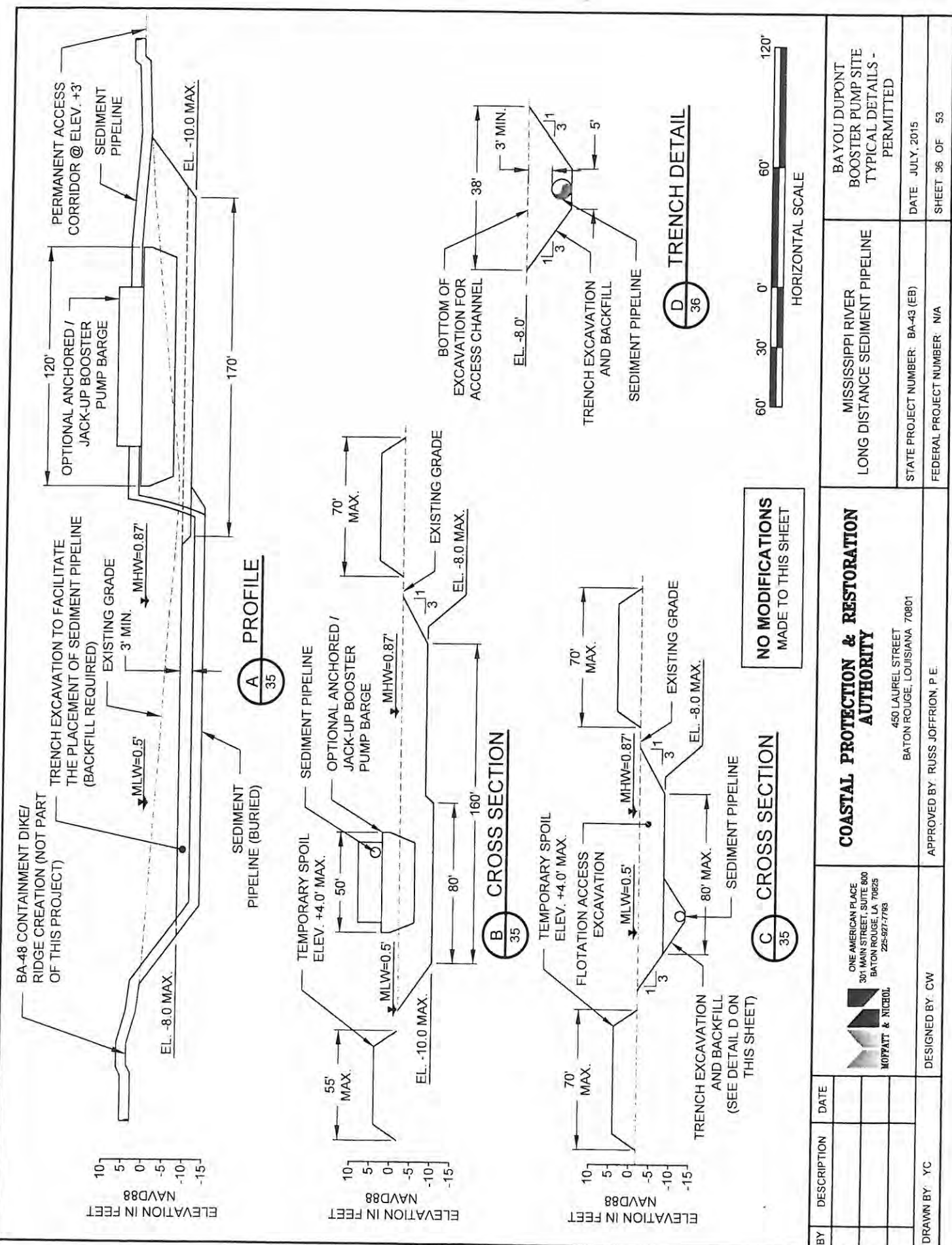
MISSISSIPPI RIVER  
LONG DISTANCE SEDIMENT PIPELINE

STATE PROJECT NUMBER: BA-43 (EB)  
FEDERAL PROJECT NUMBER: N/A

BAYOU DUPONT  
CROSSING DETAIL -  
PERMITTED

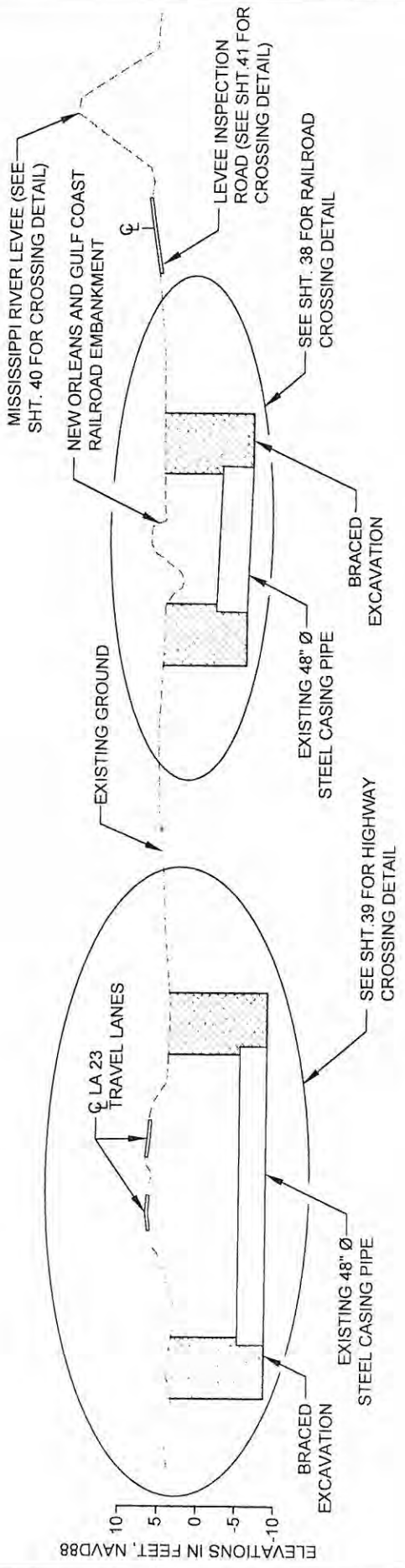
DATE: JULY 2015  
SHEET 35 OF 53





BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7783	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	BAYOU DUPONT BOOSTER PUMP SITE TYPICAL DETAILS - PERMITTED
DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-43 (EB)				
DRAWN BY: YC					FEDERAL PROJECT NUMBER: N/A	SHEET 36 OF 53




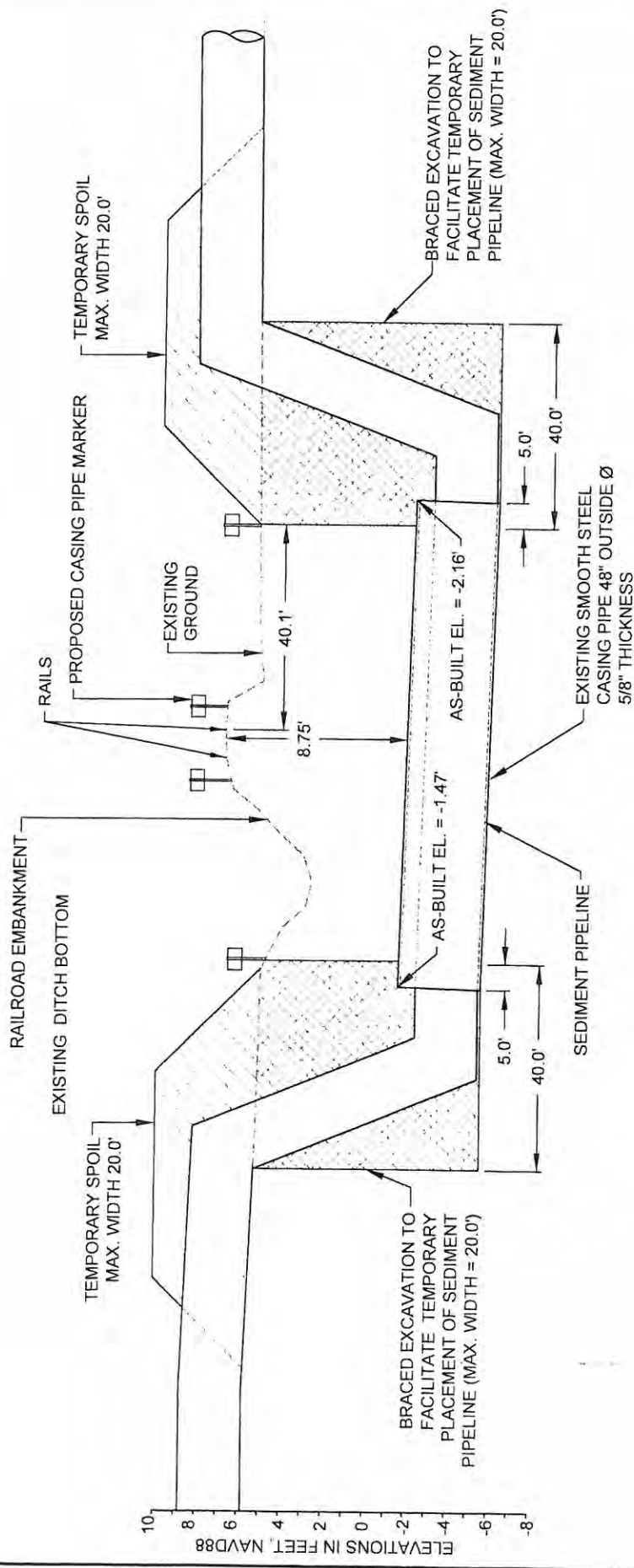


**G-G**  
21  
**DREDGE PIPELINE CORRIDOR SECTION**



**NO MODIFICATIONS  
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	DRAWN BY	YC	DESIGNED BY	CW	APPROVED BY:	RUSS JOFFRION, P E	
 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-597-7783			<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801			MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE			DREDGE PIPELINE CORRIDOR SECTION - PERMITTED
DRAWN BY				YC	DESIGNED BY		CW		
STATE PROJECT NUMBER:				BA-43 (EB)		DATE:		JULY, 2015	
FEDERAL PROJECT NUMBER:				N/A		SHEET 37 OF		53	



**NO MODIFICATIONS  
MADE TO THIS SHEET**

LEGEND	
[Pattern]	TEMPORARY SPOIL
[Pattern]	BRACED EXCAVATION
[Pattern]	EXISTING GROUND

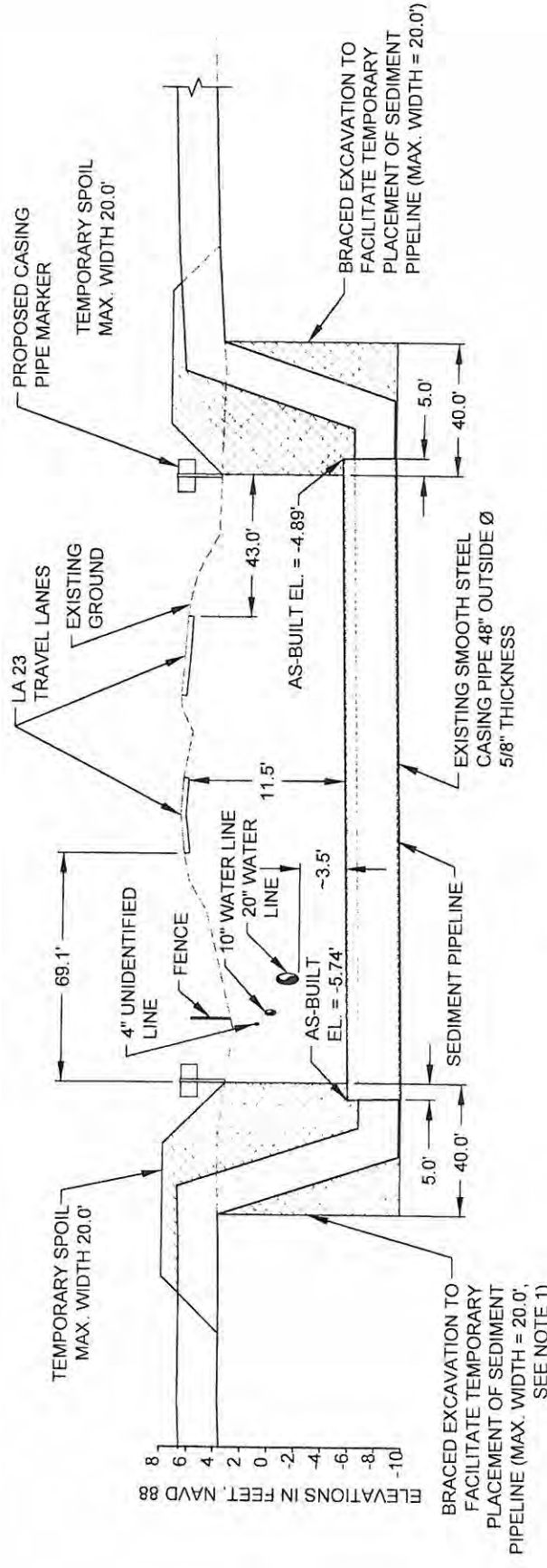
**1  
21** RAILROAD CROSSING DETAIL

**NOTES:**

- TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
- THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	RAILROAD CROSSING DETAIL - PERMITTED
	DRAWN BY: YC	DESIGNED BY: CW				
FEDERAL PROJECT NUMBER: N/A			SHEET 38 OF 53			



**2** HIGHWAY CROSSING DETAIL  
21

**NO MODIFICATIONS**  
MADE TO THIS SHEET

LEGEND	
[Pattern]	TEMPORARY SPOIL
[Pattern]	BRACED EXCAVATION
[Pattern]	EXISTING GROUND

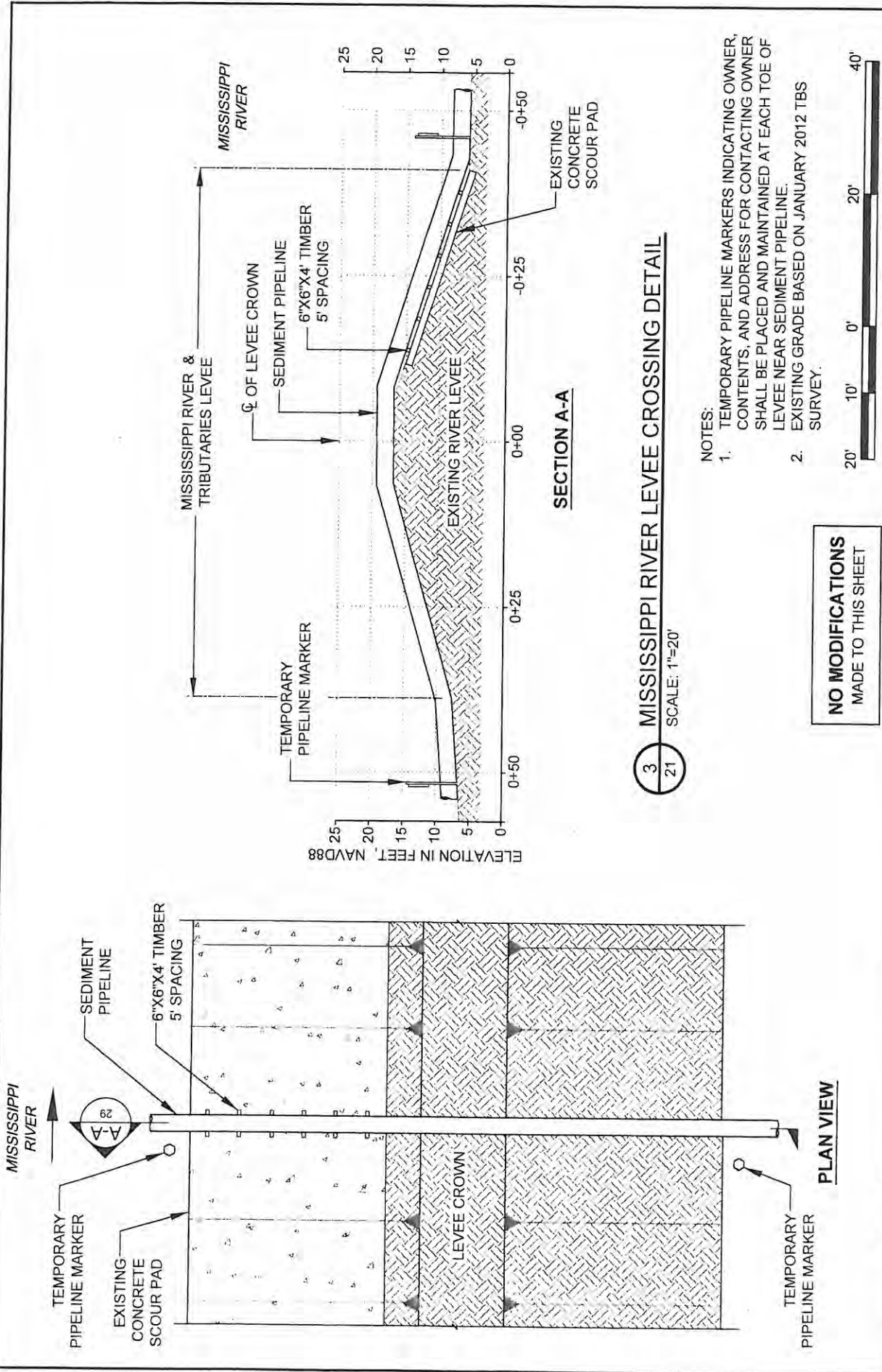
**NOTES:**

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.



BY	DESCRIPTION	DATE
DRAWN BY	YC	DESIGNED BY
		CW
<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801		
APPROVED BY: RUSS JOFFRON, P E		
STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A		
DATE: JULY, 2015		
SHEET 39 OF 53		

HIGHWAY CROSSING  
DETAIL - PERMITTED



**SECTION A-A**

**3 MISSISSIPPI RIVER LEVEE CROSSING DETAIL**  
SCALE: 1"=20'

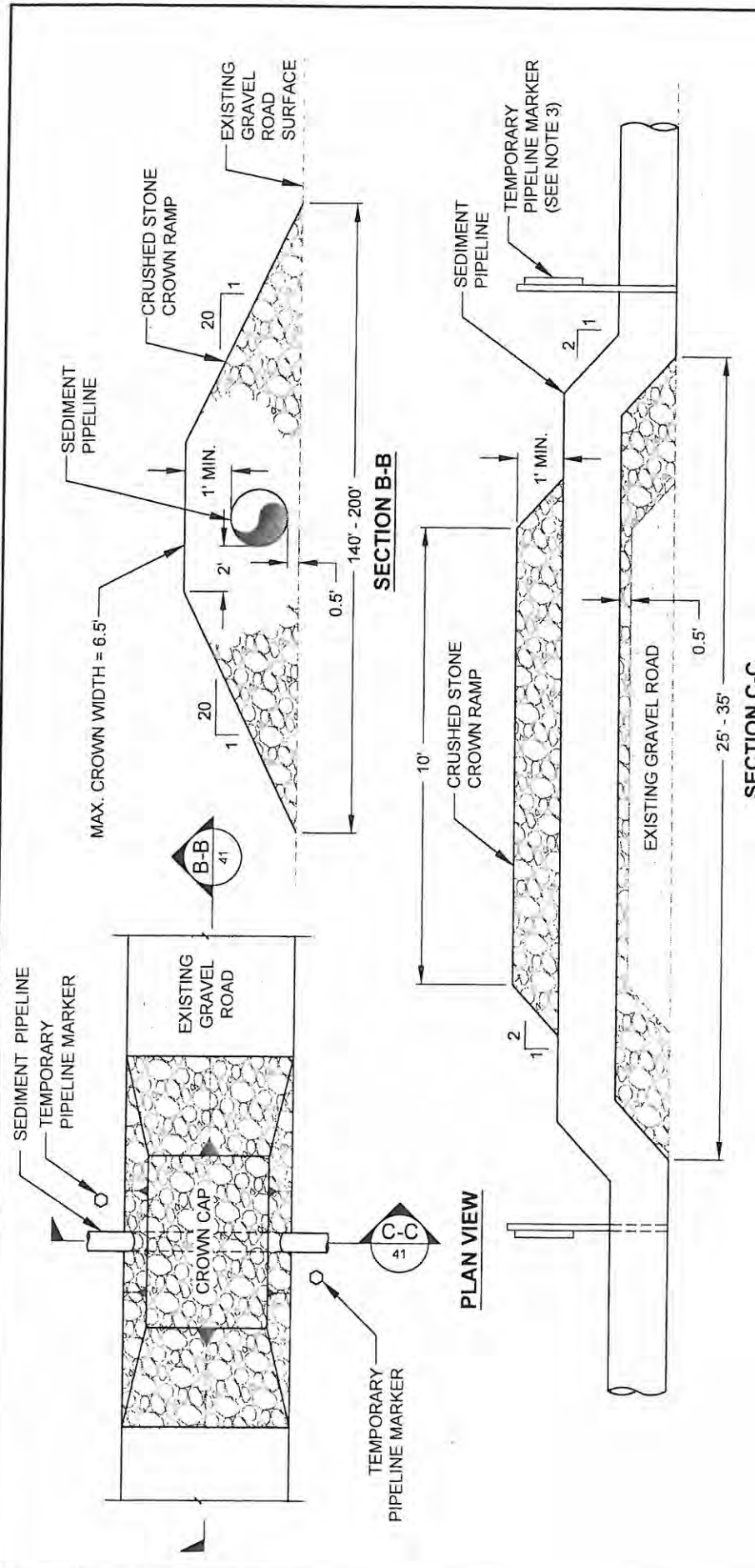
- NOTES:
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.
  2. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.

**NO MODIFICATIONS  
MADE TO THIS SHEET**



BY	DESCRIPTION	DATE		<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	MISSISSIPPI RIVER LEVEE CROSSING DETAIL - PERMITTED
DRAWN BY: YC DESIGNED BY: CW	APPROVED BY: RUSS JOFFRON, P.E.	STATE PROJECT NUMBER: BA-43 (EB)				




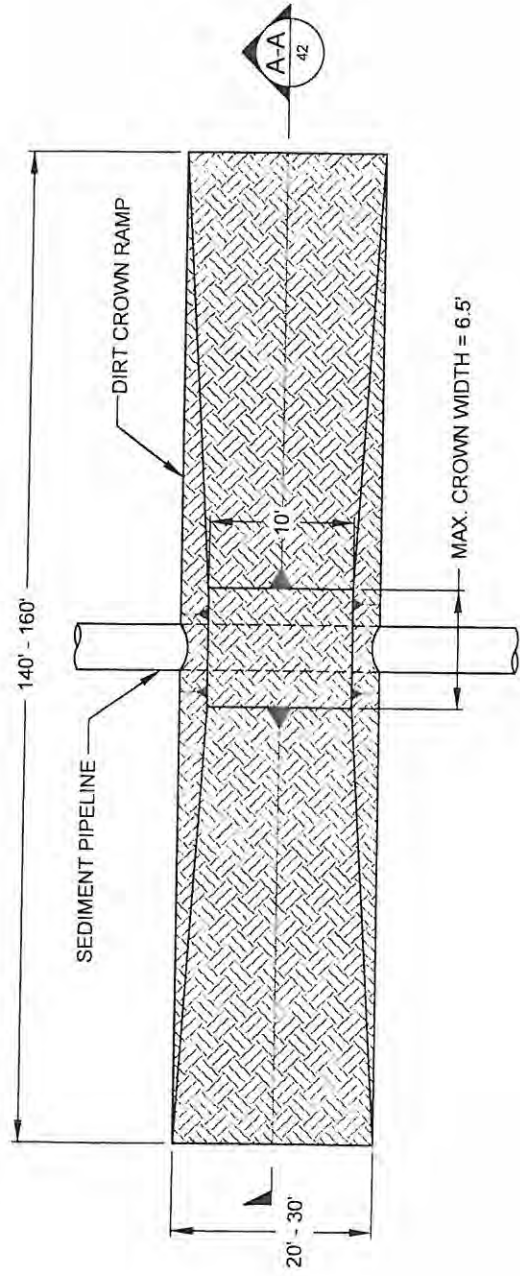


**MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL**  
NOT TO SCALE

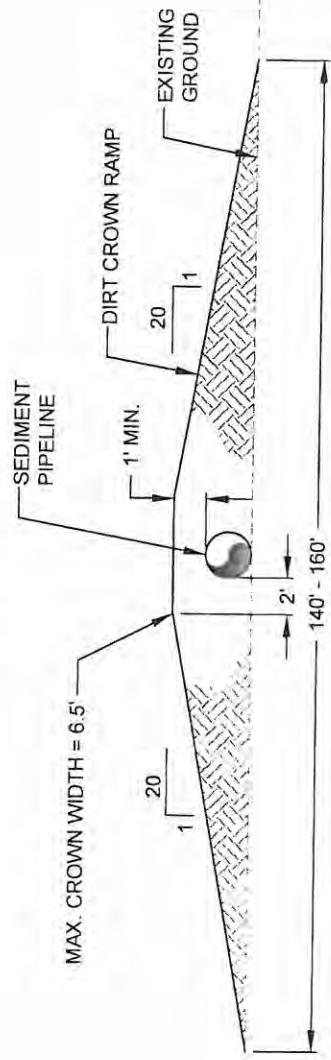
- NOTES:**
- MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
  - THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).
  - TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.

**NO MODIFICATIONS  
MADE TO THIS SHEET**

BY		DATE		DESCRIPTION	
DRAWN BY	YC	DESIGNED BY	CW	APPROVED BY	RUSS JOFFRION, P E
		<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL - PERMITTED
				STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
				FEDERAL PROJECT NUMBER: N/A	SHEET 41 OF 53



**PLAN VIEW**

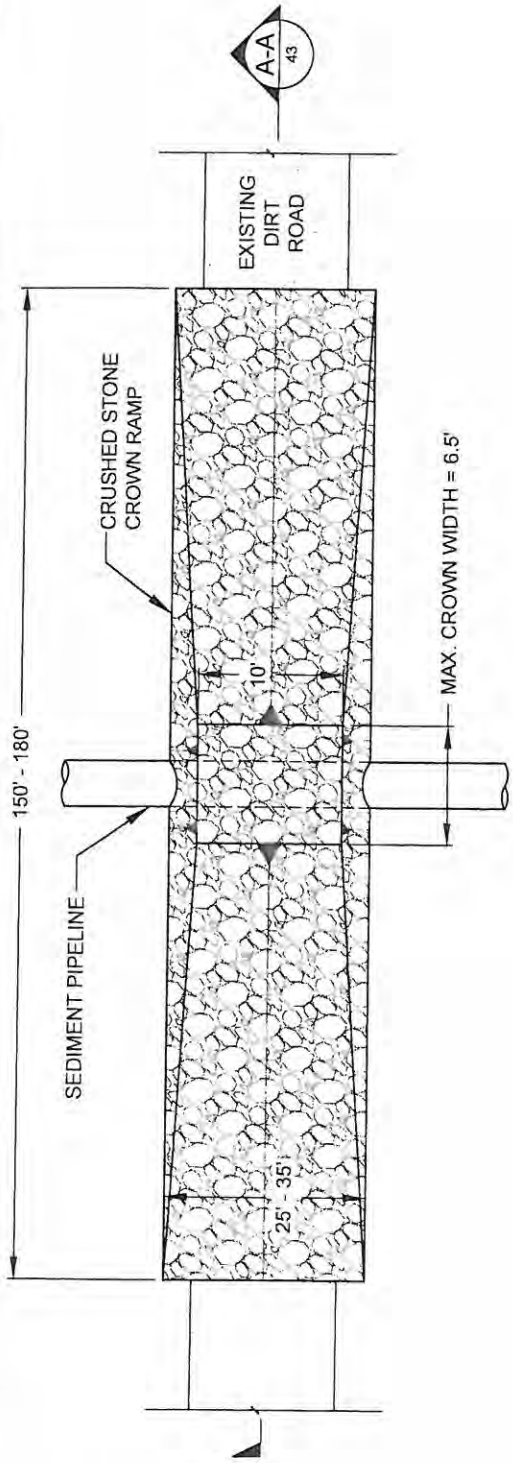


**SECTION A-A**

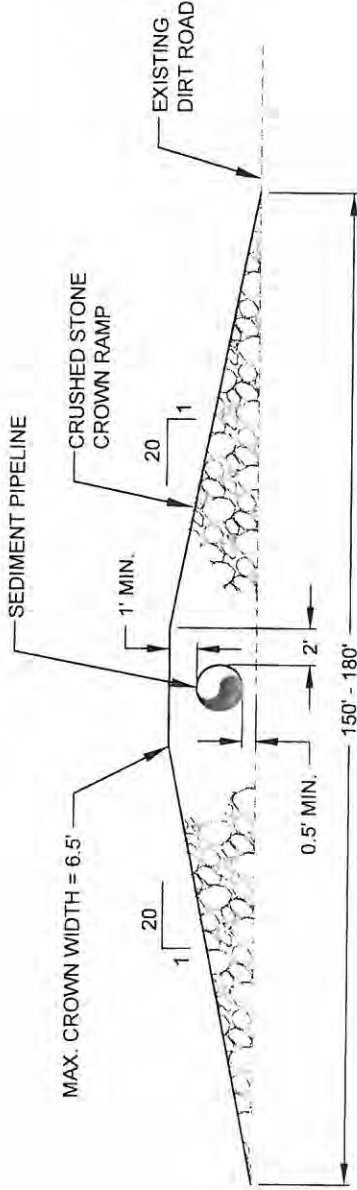
**5**  
14  
**CATTLE CROSSING DETAIL**  
NOT TO SCALE

**NO MODIFICATIONS**  
MADE TO THIS SHEET

BY	DESCRIPTION	DATE		<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	CATTLE CROSSING DETAIL - PERMITTED		
							STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
DRAWN BY	YC						FEDERAL PROJECT NUMBER: N/A	SHEET 42 OF 53
			APPROVED BY: RUSS JOFFRION, P. E.					



**PLAN VIEW**



**NOTE:**  
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).

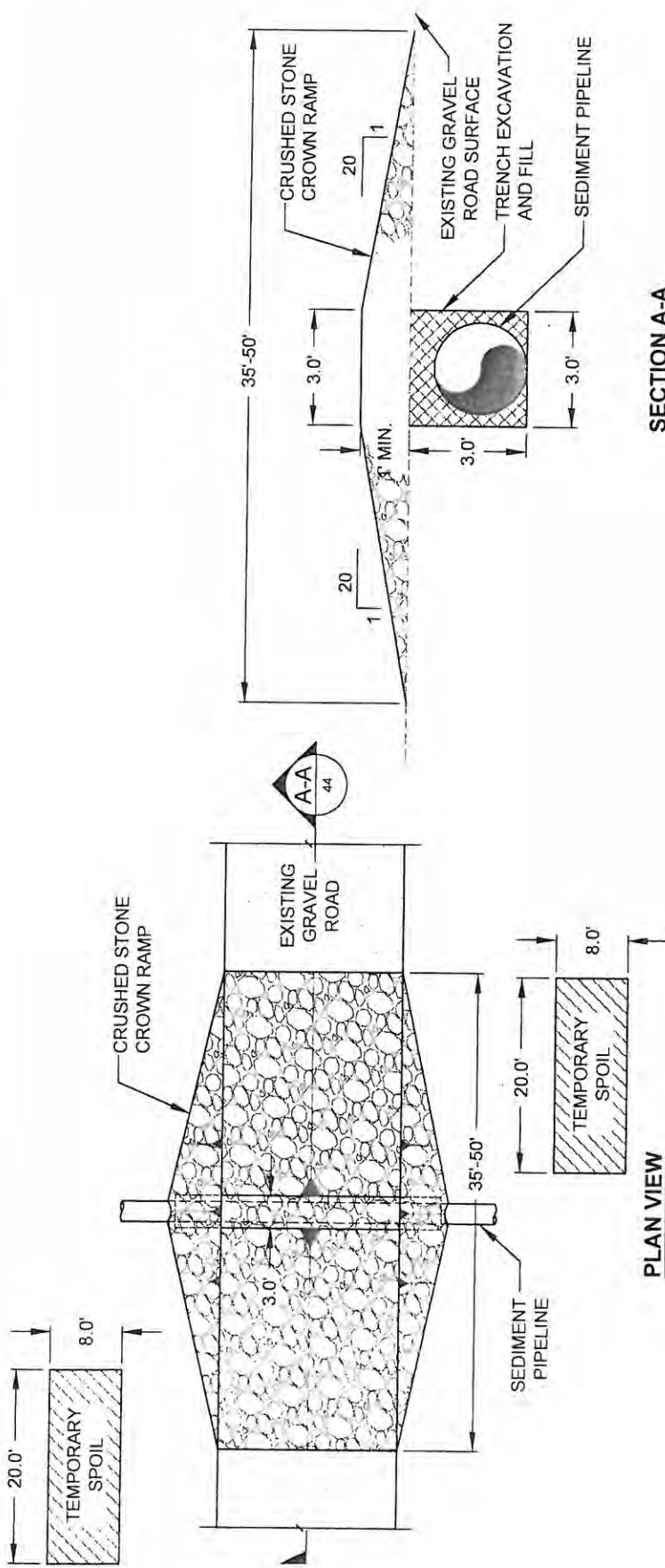
**6**  
14  
**DIRT ROAD CROSSING DETAIL**  
NOT TO SCALE

**NO MODIFICATIONS  
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE

DESIGNED BY: CW	APPROVED BY: RUSS JOFFRON, P.E.	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b>	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	DIRT ROAD CROSSING DETAIL - PERMITTED
DRAWN BY: YC	FEDERAL PROJECT NUMBER: N/A	STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015	SHEET 43 OF 53	



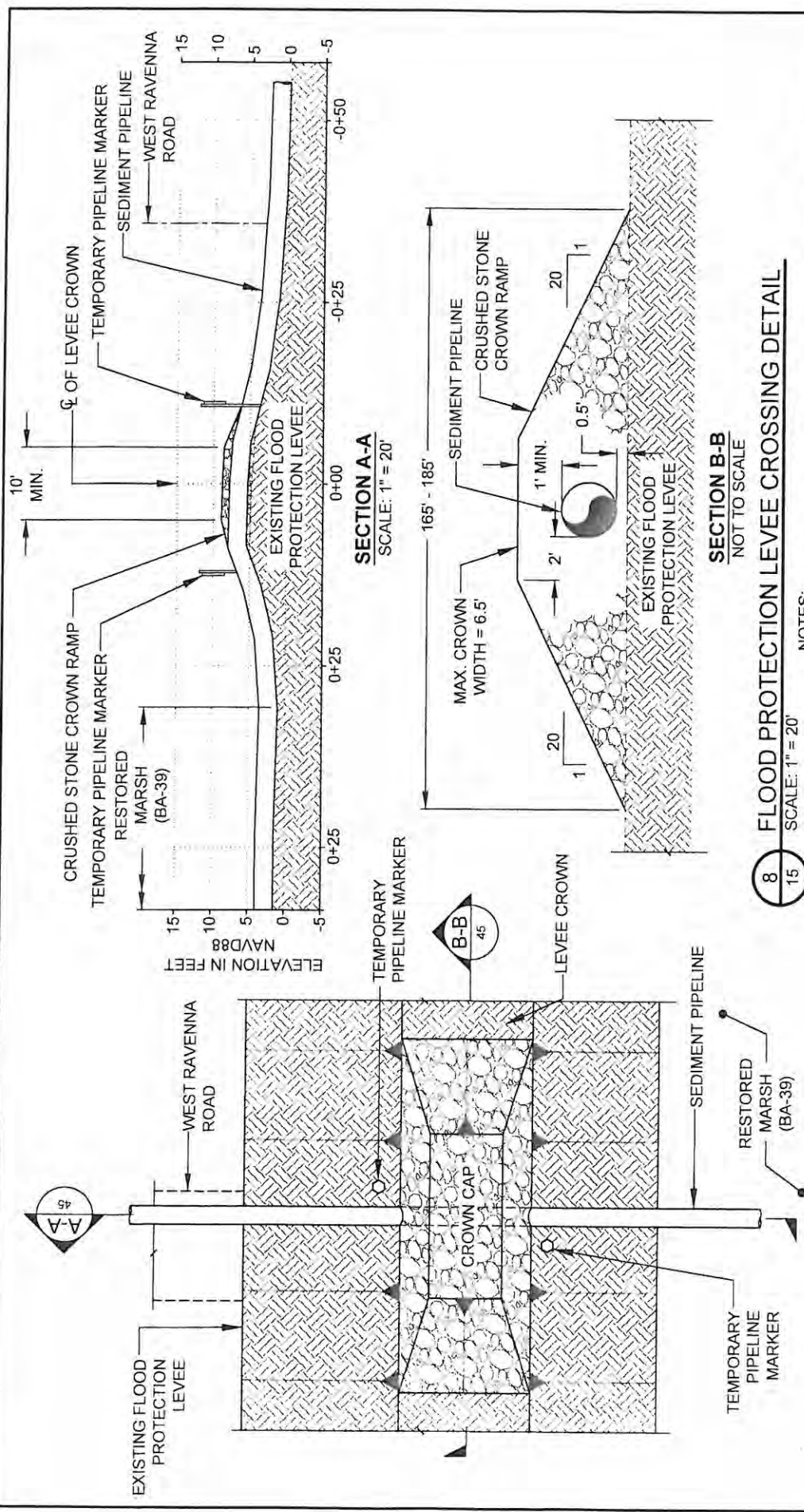
NOTE:  
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).

**NO MODIFICATIONS  
 MADE TO THIS SHEET**

**7** GRAVEL ROAD CROSSING DETAIL  
 15 NOT TO SCALE

BY	DESCRIPTION	DATE		<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	GRAVEL ROAD CROSSING DETAIL - PERMITTED		
							STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
DRAWN BY: YC	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P. E.					FEDERAL PROJECT NUMBER: N/A	SHEET 44 OF 53





**PLAN VIEW**  
NOT TO SCALE



8  
15

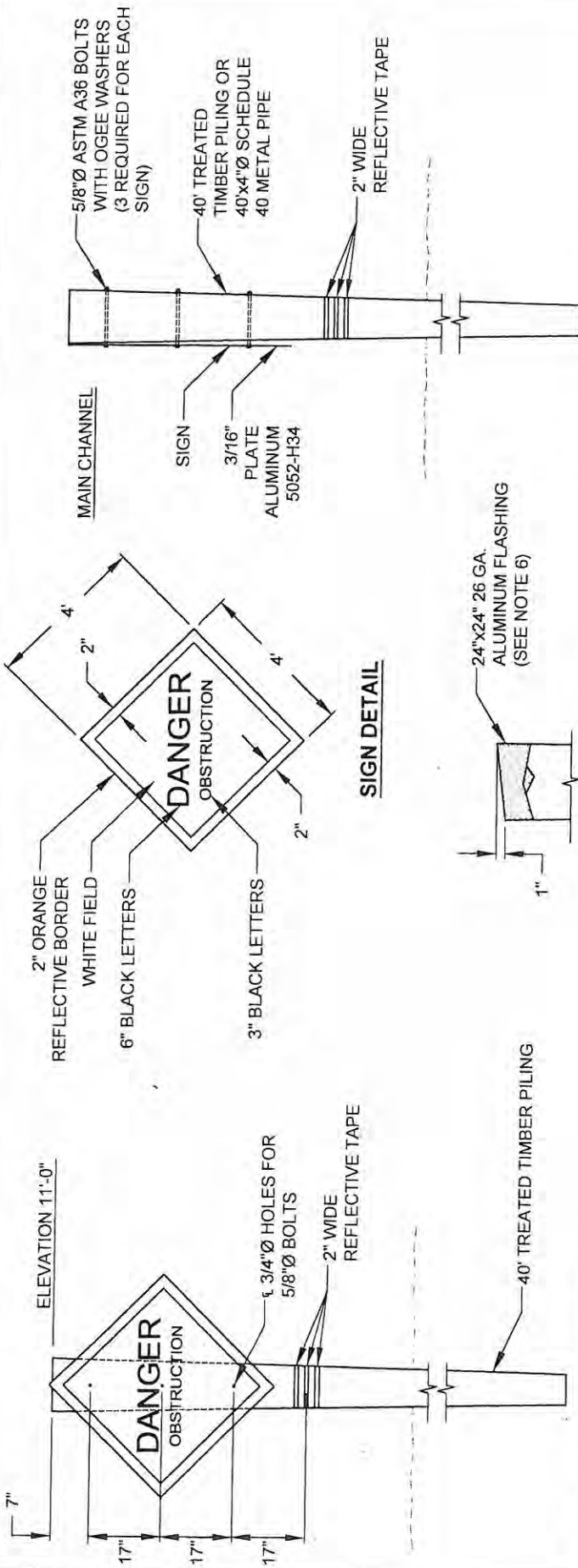
**FLOOD PROTECTION LEVEE CROSSING DETAIL**  
SCALE: 1" = 20'

NOTES:

1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 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 SEDIMENT PIPELINE.
3. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.

**NO MODIFICATIONS**  
MADE TO THIS SHEET

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-527-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	FLOOD PROTECTION LEVEE CROSSING DETAIL - PERMITTED		
DRAWN BY	YC	DESIGNED BY				CW	APPROVED BY	RUSS JOFFRION, P.E.
STATE PROJECT NUMBER:	BA-43 (EB)	DATE:				JULY, 2015	FEDERAL PROJECT NUMBER:	N/A



**WARNING SIGN ELEVATION**

**TYPICAL TIMBER PILING CAP**

**WARNING SIGN SIDE DETAIL**


9  
33

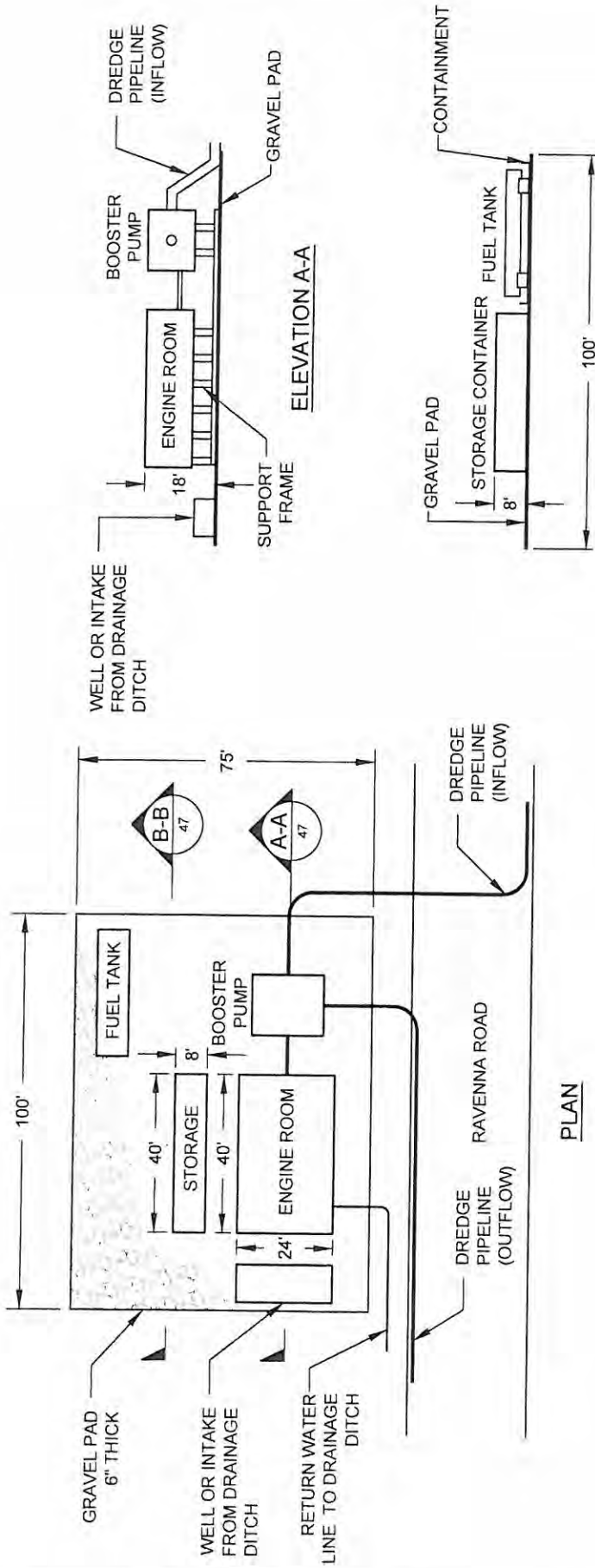
**TEMPORARY WARNING SIGN DETAILS**

**NO MODIFICATIONS  
MADE TO THIS SHEET**

**WARNING SIGN NOTES**

1. TWENTY-FIVE (25) TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 21 AND 23. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS, IN ACCORDANCE WITH 33 CFR 330.4 (a)(1) WHICH CAN BE DOWNLOADED AT [http://www.access.gpo.gov/nara/cfr/waisidx\\_0233cfr330\\_02.html](http://www.access.gpo.gov/nara/cfr/waisidx_0233cfr330_02.html)
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWP A P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
5. TIMBER PILING SHALL BE 40" IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TEMPORARY SHOAL WARNING SIGN DETAILS - PERMITTED	
DRAWN BY: YC	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.				STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
						FEDERAL PROJECT NUMBER: N/A	SHEET 46 OF 53




PLAN

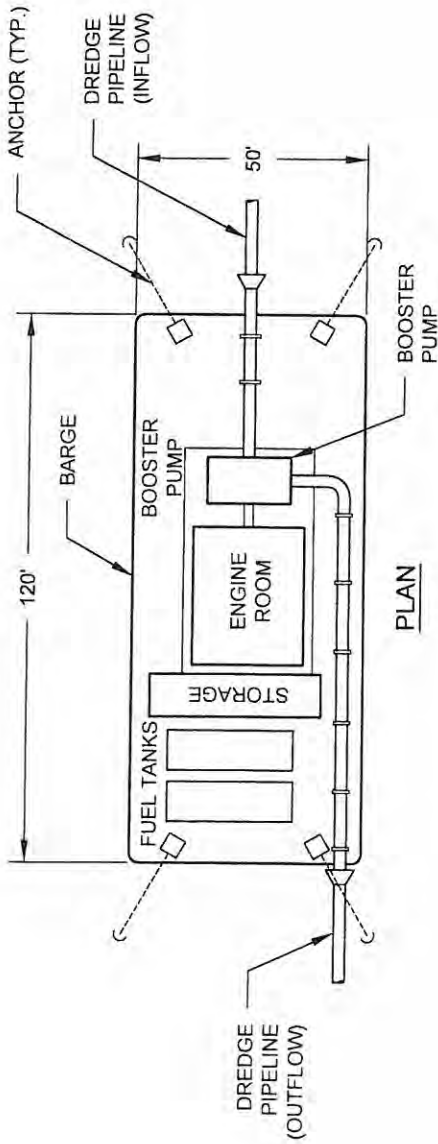
ELEVATION B-B

**10**  
15  
**LANDSIDE BOOSTER PUMP DETAILS**  
NOT TO SCALE

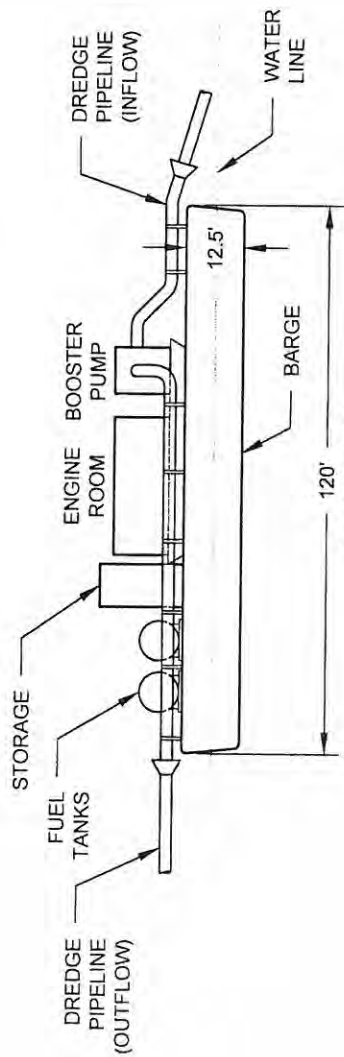
NOTE:  
TYPICAL LANDSIDE BOOSTER SETUP. ACTUAL MAY VARY.

**NO MODIFICATIONS**  
MADE TO THIS SHEET

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793 <b>MOFFATT &amp; NICHOL</b>	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAJUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	LANDSIDE BOOSTER PUMP PLAN AND ELEVATIONS - PERMITTED		
							STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
DRAWN BY: YC	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.					FEDERAL PROJECT NUMBER: N/A	SHEET 47 OF 53



PLAN



ELEVATION


**11**  
21  
**FLOATING BOOSTER PUMP DETAILS**  
NOT TO SCALE

NOTE:  
TYPICAL FLOATING BOOSTER SETUP.  
ACTUAL MAY VARY.

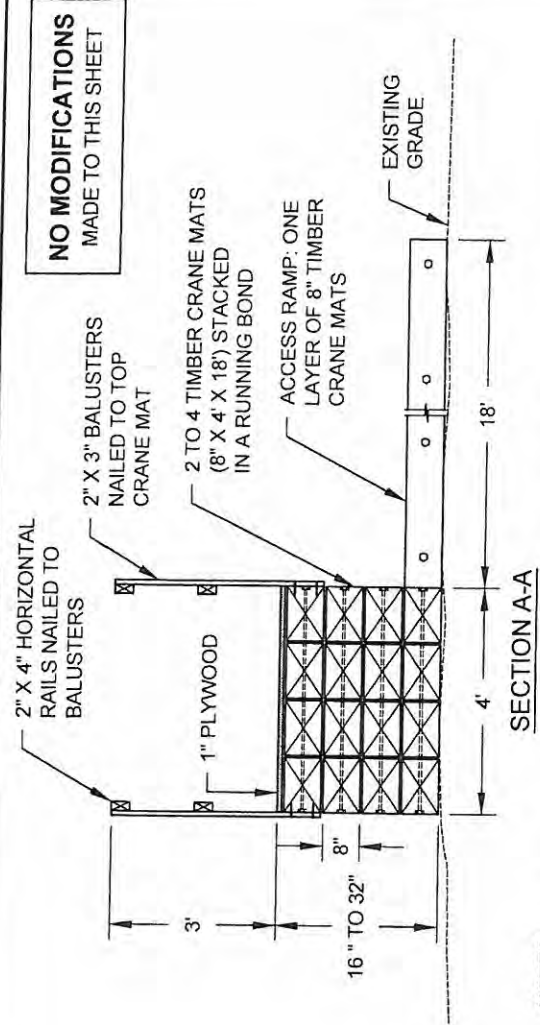
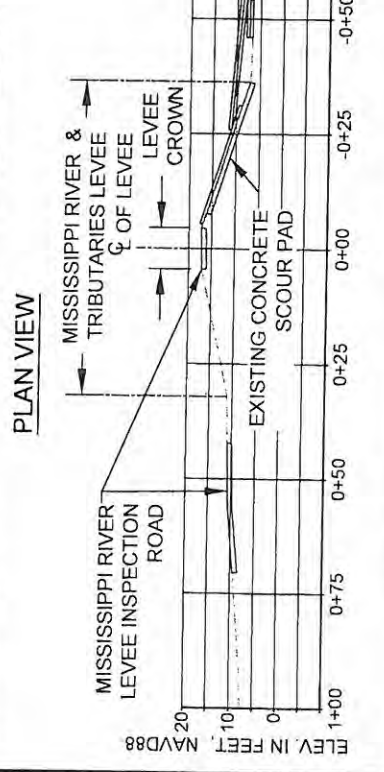
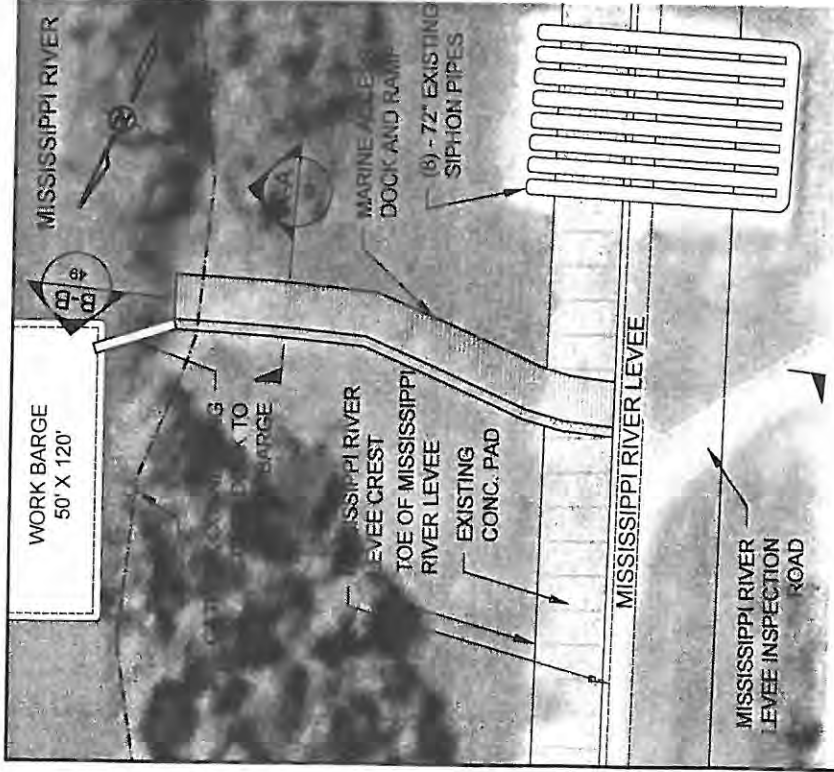
**NO MODIFICATIONS**  
MADE TO THIS SHEET

BY	DESCRIPTION	DATE

DESIGNED BY: CW	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793</p>	<p><b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	FLOATING BOOSTER PUMP PLAN AND ELEVATIONS - PERMITTED
DRAWN BY: YC	APPROVED BY: RUSS JOFFRION, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015	SHEET 48 OF 53





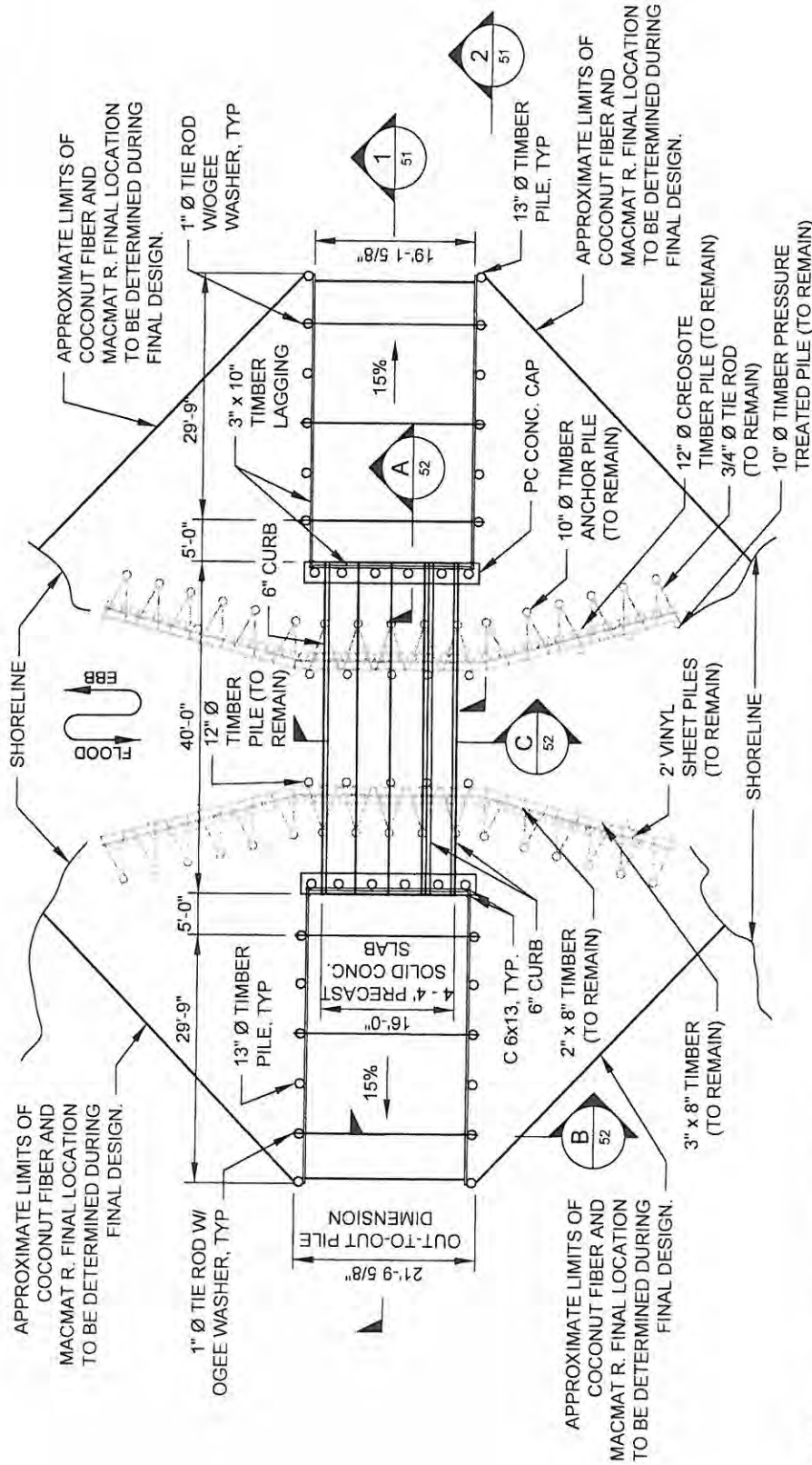
**NO MODIFICATIONS MADE TO THIS SHEET**

**NOTES:**

- EXISTING GRADES BASED ON JANUARY 2012 TBS SURVEY.
- TEMPORARY MARINE ACCESS DOCK WILL BE PLACED TO FACILITATE CONSTRUCTION PERSONNEL ACCESS TO THE MISSISSIPPI RIVER.
- ACCESS DOCK DETAILS BASED ON BA-39 PROJECT CONSTRUCTION. ACTUAL DETAILS MAY VARY BUT WILL BE INCLUDED IN THE CONTRACTOR'S WORK PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION AND PLACED WITHIN THE CONSTRUCTION LIMITS.
- ACCESS DOCK TO BE COMPLETELY REMOVED AFTER PROJECT IS COMPLETE.

**12** TEMPORARY MARINE ACCESS DOCK DETAILS  
21 NOT TO SCALE

BY	DESCRIPTION	DATE	COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TEMPORARY MARINE ACCESS DOCK DETAILS - PERMITTED
			450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 APPROVED BY: RUSS JOFFRION, P.E.		STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A	DATE: JULY, 2015 SHEET 49 OF 53
	DESIGNED BY: CW					



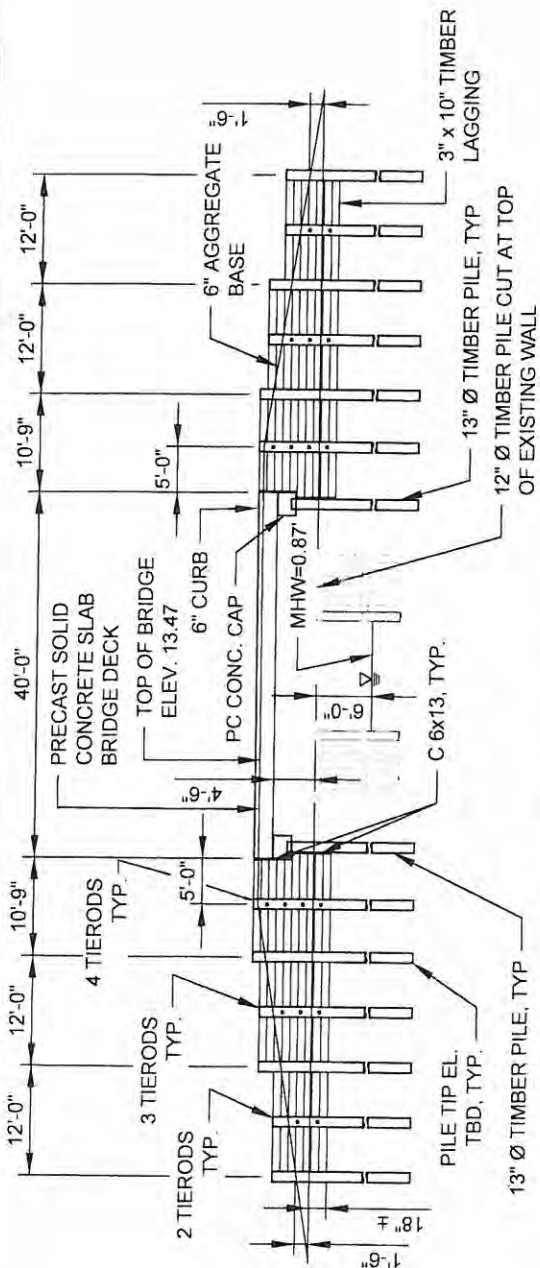
NOTE:  
REMOVE EXISTING METAL GRATE BRIDGE,  
PILES AND BEAMS ABOVE TOP OF BULKHEAD.

13 PROPOSED BRIDGE PLAN  
16 SCALE: 1" = 20'

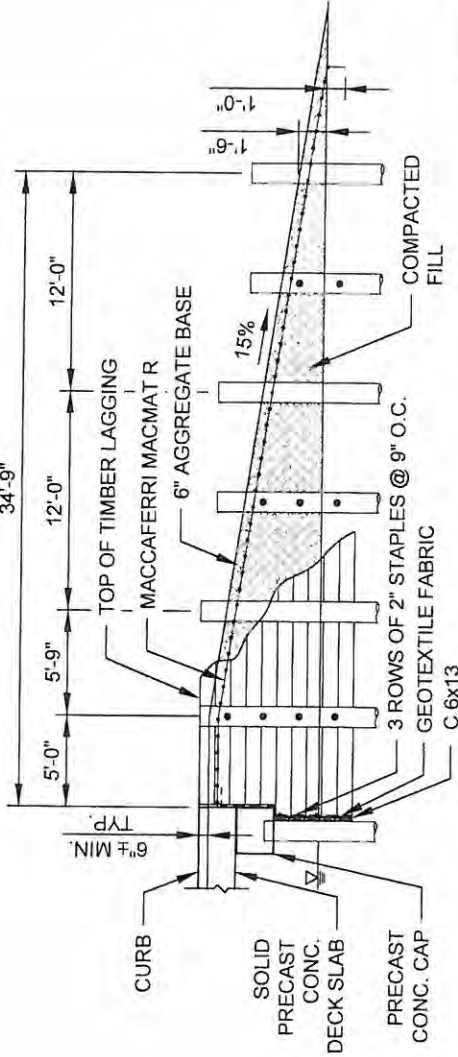


**NO MODIFICATIONS  
MADE TO THIS SHEET**

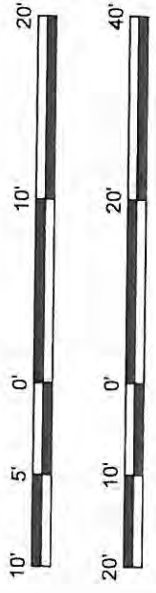
BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793	<b>COASTAL PROTECTION &amp; RESTORATION AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE PIPE CROSSING DETAILS (SHEET 1 OF 3) - PERMITTED			
DRAWN BY	YC	DESIGNED BY					CW	APPROVED BY	RUSS JOFFRION, P.E.
								STATE PROJECT NUMBER	BA-43 (EB)
				FEDERAL PROJECT NUMBER	N/A			SHEET 50 OF 53	




1 PROPOSED BRIDGE ELEVATION  
SCALE: 1" = 20'



2 SECTION OF APPROACH  
SCALE: 1" = 10'

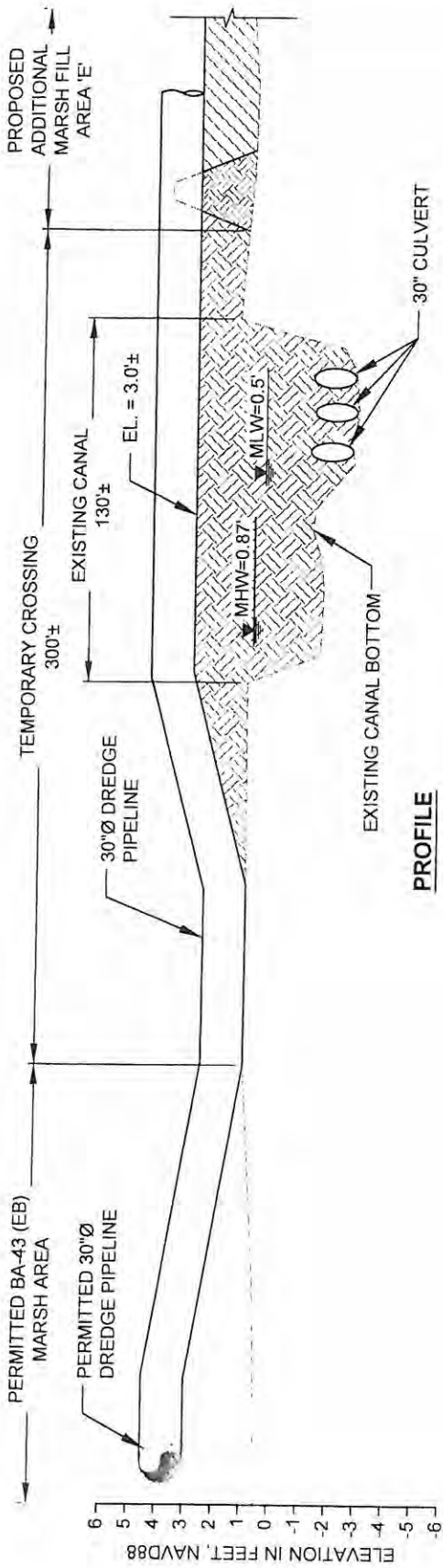


NO MODIFICATIONS  
MADE TO THIS SHEET

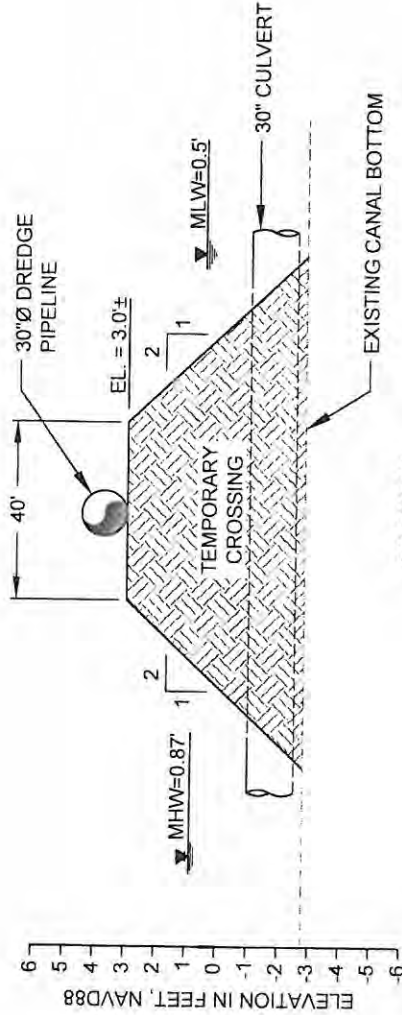
BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA. 70825 225-927-7793	DESIGNED BY: CW	APPROVED BY: RUSS JOFFRION, P.E.	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE PIPE CROSSING DETAILS (SHEET 2 OF 3) - PERMITTED








**PROFILE**



**SECTION**

**13** TEMPORARY CANAL CROSSING DETAIL  
20 NOT TO SCALE

- NOTES:
1. THE TEMPORARY CROSSINGS SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
  2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7753	COASTAL PROTECTION & RESTORATION <b>AUTHORITY</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TEMPORARY CANAL CROSSING DETAIL
DESIGNED BY	CW	APPROVED BY				
DRAWN BY	YC				STATE PROJECT NUMBER: BA-43 (EB)	DATE: JULY, 2015
					FEDERAL PROJECT NUMBER: N/A	SHEET 53 OF 53