



Louisiana Department of Natural  
Resources  
Office of Coastal Management  
(OCM)

# Joint Permit Application

For Work Within the Louisiana  
Coastal Zone



U.S. Army Corps Of Engineers  
(COE)  
New Orleans District

[Print Application](#)

Permit Number: P20190093

Date Received: 03/11/2019

## Step 1 of 15 - Applicant Information

**Applicant/Company Name:** Coastal Protection & Restoration Authority of Louisiana (CPRA)

**Applicant Type:** GOVERNMENT AGENCY

**Mailing Address:** 150 Terrace Avenue  
Baton Rouge, LA 70802

**Contact Information:** Megan Terrell

**Daytime:** 225 342 6952 **Fax:** 225

**Contact Email:**

## Step 2 of 15 - Agent Information

**Company Name:** CPRA

**Mailing Address:** 150 Terrace Avenue  
Baton Rouge, LA 70802

**Contact Information:** Elizabeth Davoli

**Daytime:** 225 342 4616 **Fax:** 225 342 4591 **Contact Email:** Elizabeth.Davoli@la.gov

## Step 3 of 15 - Permit Type

Coastal Use Permit (CUP)     Solicitation of Views (SOV)     Request for Determination (RFD)

## Step 4 of 15 - Pre-Application Activity

a. Have you participated in a Pre-Application or Geological Review Meeting for the proposed project?

No

Yes

Date meeting was held:

03/06/2018

Megan Terrell, Ann Howard

Brad LaBorde

Attendees:

(Individual or Company Rep)

(OCM Representative)

(COE Representative)

b. Have you obtained an official wetland determination from the COE for the project site?

No

Yes

JD Number:

c. Is this application a mitigation plan for another CUP?

No

Yes

OCM Permit Number:

## Step 5 of 15 - Project Information

a. Describe the project:

The Mid-Breton Sediment Diversion is a large-scale, complex civil works and ecosystem restoration project. When operated, up to 75,000 cubic feet per second (cfs) of sediment-laden fresh water would be diverted from the Mississippi River to the Breton Sound Basin to reconnect and re-establish the deltaic sediment deposition processes between the Mississippi River and Breton Sound. See Attachment A for a list of Project features/components.

b. Is this application a change to an existing permit?

No

Yes

OCM Permit Number:

c. Have you previously applied for a permit or emergency authorization for all or any part of the proposed project?

No

Yes

	<u>Agency Name</u>	<u>Permit Number</u>	<u>Decision Status</u>	<u>Decision Date</u>
OCM				
COE				
Other				

### Step 6 of 15 - Project Location

**a. Physical Location**

Street: Louisiana Highway 39 (LA 39)  
 City: Parish: PLAQUEMINES Zip:  
 Water Body: Mississippi River (RM 68) Breton Sound Basin

**b. Latitude and Longitude**

Latitude: 29 45 5.510 Longitude: -90 0 43.01

**c. Section, Township, and Range**

Section #: 4,5 Township #: 15S Range #: 12E  
 Section #: Township #: Range #:

**d. Lot, Tract, Parcel, or Subdivision Name**

Lot #: Parcel #:  
 Tract #: Subdivision Name:

**e. Site Direction:**

START-From I-10 in New Orleans, follow I-10 E to LA 39 S/N Claiborne Ave. Take exit 236B from I-10 E. Continue onto LA 39 S/N Claiborne Ave for approx 4 miles. Turn right onto W Center St. Turn left onto LA 46 E. Continue on LA 46 E for approx 10 miles. Slight right towards LA 39 S/St. Bernard Park Way. Continue approx 6 miles; turn left to stay on LA 39 S. Continue South on LA 39 for approx 7 miles to the project area, near Mississippi River Mile 68. -END

### Step 7 of 15 - Adjacent Landowners

Adjacent Landowner : [Redacted]  
 [Redacted] [Redacted]  
 [Redacted] [Redacted]  
 [Redacted] [Redacted]  
 [Redacted] [Redacted]  
 [Redacted] [Redacted]  
 [Redacted] [Redacted]





**c. Fill Materials**

<input checked="" type="checkbox"/> Concrete:	67,800.00 yd <sup>3</sup>	<input checked="" type="checkbox"/> Rock:	409,500.00yd <sup>3</sup>
<input checked="" type="checkbox"/> Crushed Stone or Gravel:	13,600.00 yd <sup>3</sup>	<input checked="" type="checkbox"/> Sand:	1,900.00 yd <sup>3</sup>
<input checked="" type="checkbox"/> Excavated and placed onsite:	111,000.00 yd <sup>3</sup>	<input checked="" type="checkbox"/> Hauled in topsoil/Dirt:	80,700.00 yd <sup>3</sup>
<input checked="" type="checkbox"/> Excavated and hauled offsite:	6,610,000.00yd <sup>3</sup>		
<input checked="" type="checkbox"/> Other: Asphalt and Structural Embankment	543,300.00 yd <sup>3</sup>		

**d. What equipment will be used for the proposed project?**

- |   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Airboat   | <input checked="" type="checkbox"/> Bulldozer/Grader        | <input checked="" type="checkbox"/> Marsh Buggy                       |
| <input checked="" type="checkbox"/> Backhoe   | <input checked="" type="checkbox"/> Dragline/Excavator      | <input checked="" type="checkbox"/> Other Tracked or Wheeled Vehicles |
| <input checked="" type="checkbox"/> Barge Mounted Bucket Dredge                     | <input type="checkbox"/> Handjet                            | <input type="checkbox"/> Self Propelled Pipe Laying Barge             |
| <input checked="" type="checkbox"/> Barge Mounted Drilling Rig                      | <input checked="" type="checkbox"/> Land Based Drilling Rig | <input type="checkbox"/> Tugboat                                      |
| <input checked="" type="checkbox"/> Other: Skiff (flat boat), Pile Driver/Vibrator, |   |   |

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## Step 11 of 15 - Project Alternatives

**a. Total acres of wetlands and/or waterbottoms filled and/or excavated.**

186.00 acres

**b. What alternative locations, methods, and access routes were considered to avoid impact to wetlands and/or waterbottoms?**

As part of the engineering and design phase, construction and staging areas would consider the use of existing access roads and drives to minimize impacts to wetlands. See Attachment for additional information on alternatives (location and capacity) analysis conducted that resulted in the location of the Mid-Breton Sediment Diversion at River mile 68 with a capacity of up to 75,000 cfs.

**c. What efforts were made to minimize impact to wetlands and/or waterbottoms?**

The analysis of the Mid-Breton Sediment Diversion was developed using the minimum construction footprint necessary that would still maximize the conveyance of sediment-laden water from the Mississippi to the Breton Sound Basin. The gravity conveyance alignment was developed for efficient sediment conveyance between the river and the basin. Best Management Practices (BMPs) are being developed for access routes to minimize disturbance to wetlands between the MR&T and non-federal levees.

**d. How are unavoidable impacts to vegetated wetlands to be mitigated?**

The project is self-mitigating. The purpose of the Mid-Breton Sediment Diversion is to reconnect and re-establish the deltaic sediment deposition process between the Mississippi River and the Breton Sound Basin through a sediment diversion that will deliver sediment, freshwater, and nutrients. The project is needed as a long-term resilient, sustainable strategy within the Basin to reduce land loss rates and help sustain and restore wetlands, including wetlands injured by the DWH spill.

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## Step 12 of 15 - Permit Type and Owners

a. Are you applying for a Coastal Use Permit?

- No  Yes

b. Are you the sole landowner/oyster lease holder?

- No  Yes

The applicant is an owner of the property on which the proposed described activity is to occur.

The applicant has made reasonable effort to determine the identity and current address of the owner(s) of the land on which the proposed described activity is to occur, which included, a search of the public records of the parish in which the proposed activity is to occur.

The applicant hereby attests that a copy of the application has been distributed to the following landowners/oyster lease holders.

Landowner/Oyster Lease Holder:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

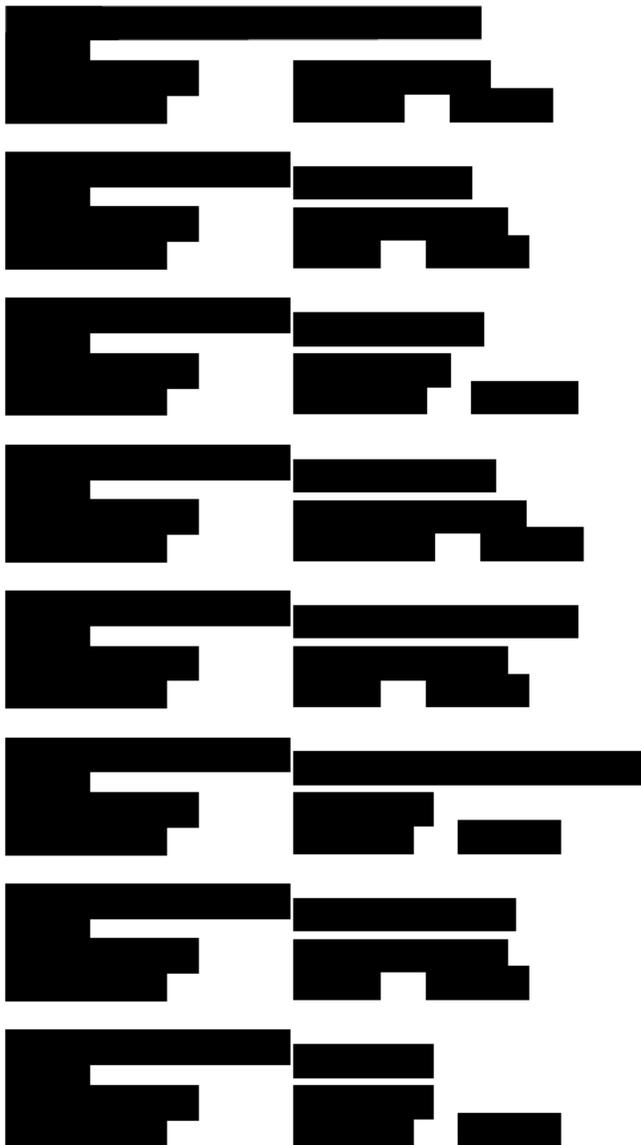
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]





c. Does the project involve drilling, production, and/or storage of oil and gas?

No  Yes

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### Step 13 of 15 - Maps and Drawing Instructions

<a href="#">AttB combined 5pct permit drawings rev3.pdf</a>	03/11/2019 04:10:35 PM
<a href="#">P20190093 5pct Permit Rev1 20190204.pdf</a>	02/04/2019 01:42:48 PM
<a href="#">P20190093 CPRAPreliminaryOperationsBreton 20190204.pdf</a>	02/04/2019 01:42:48 PM
<a href="#">BS-0030 JPAApplcationFeeWaiverRequest.pdf</a>	01/25/2019 03:08:51 PM
<a href="#">BS-0030 JPAPlats.pdf</a>	01/25/2019 03:08:51 PM

<a href="#">BS-0030_JPAProjectFeaturesandComponents.pdf</a>	01/25/2019 03:08:51 PM
<a href="#">BS-0030_JPANEedsandAlternativesJustification.pdf</a>	01/25/2019 03:08:51 PM
<a href="#">20190125MidBretonPermitApp.pdf</a>	01/25/2019 03:09:07 PM

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## Step 14 of 15 - Payment

*The fee for this permit is:*        \$100.00

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## Step 15 of 15 - Payment Processed

### *Applicant Information*

**Applicant Name:** Coastal Protection & Restoration Authority of Louisiana (CPRA)  
**Address:** 150 Terrace Avenue  
**City/State/Zip:** Baton Rouge, LA 70802

### *Application Information*

**Permit Type:** CUP

**To the best of my knowledge the proposed activity described in this permit application complies with, and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. If applicable, I also certify that the declarations in Step 12c, oil spill response, are complete and accurate.**

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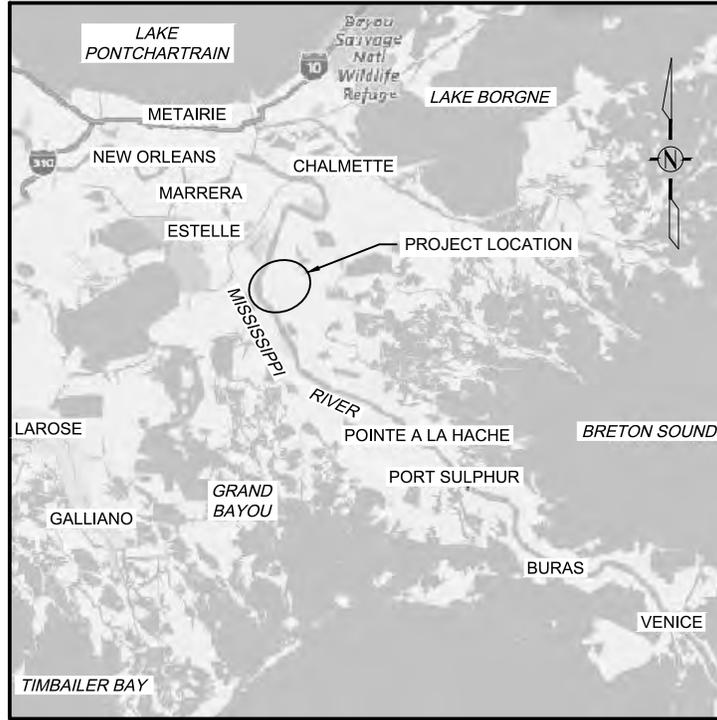
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[View Comments related to this project](#)

STATE OF LOUISIANA  
 COASTAL PROTECTION AND RESTORATION AUTHORITY

MID-BRETON SEDIMENT  
 DIVERSION PROJECT

BS-0030  
 PLAQUEMINES PARISH, LOUISIANA



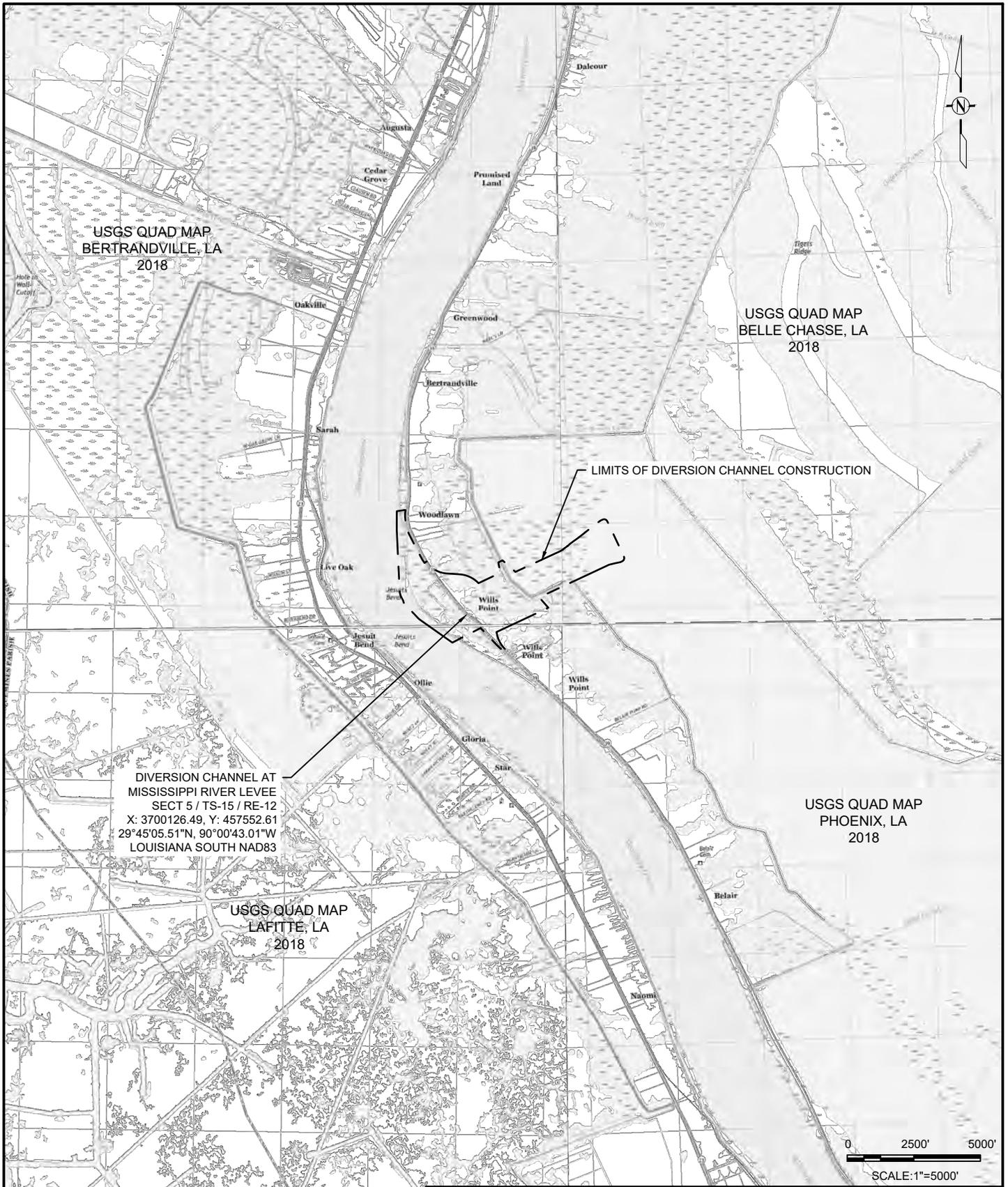
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INDEX TO SHEETS:

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	VICINITY MAP (USGS QUAD MAP)
3	VICINITY MAP (USACE NAVIGATION MAP)
4	DIVERSION CHANNEL PLAN
5	DIVERSION CHANNEL PROFILE
6	DIVERSION CHANNEL TYPICAL SECTIONS
7	DIVERSION CHANNEL TYPICAL SECTIONS
8	DIVERSION CHANNEL TYPICAL SECTIONS
9	AREA OF DELTA FORMATION
10	ROADWAY PLAN
11	TYPICAL ROADWAY SECTIONS
12	TYPICAL BRIDGE SECTION
13	AREAS OF EXCAVATION AND FILL

CONCEPTUAL DESIGN; SUBJECT TO REVISION - NOT FOR CONSTRUCTION

APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY COASTAL ENGINEERING DIVISION 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	COVER SHEET
			STATE PROJECT NUMBER: BS-0030	DATE: 02/20/2019
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	FEDERAL PROJECT NUMBER:	SHEET 1 OF 13 REV. 3



USGS QUAD MAP  
BERTRANDVILLE, LA  
2018

USGS QUAD MAP  
BELLE CHASSE, LA  
2018

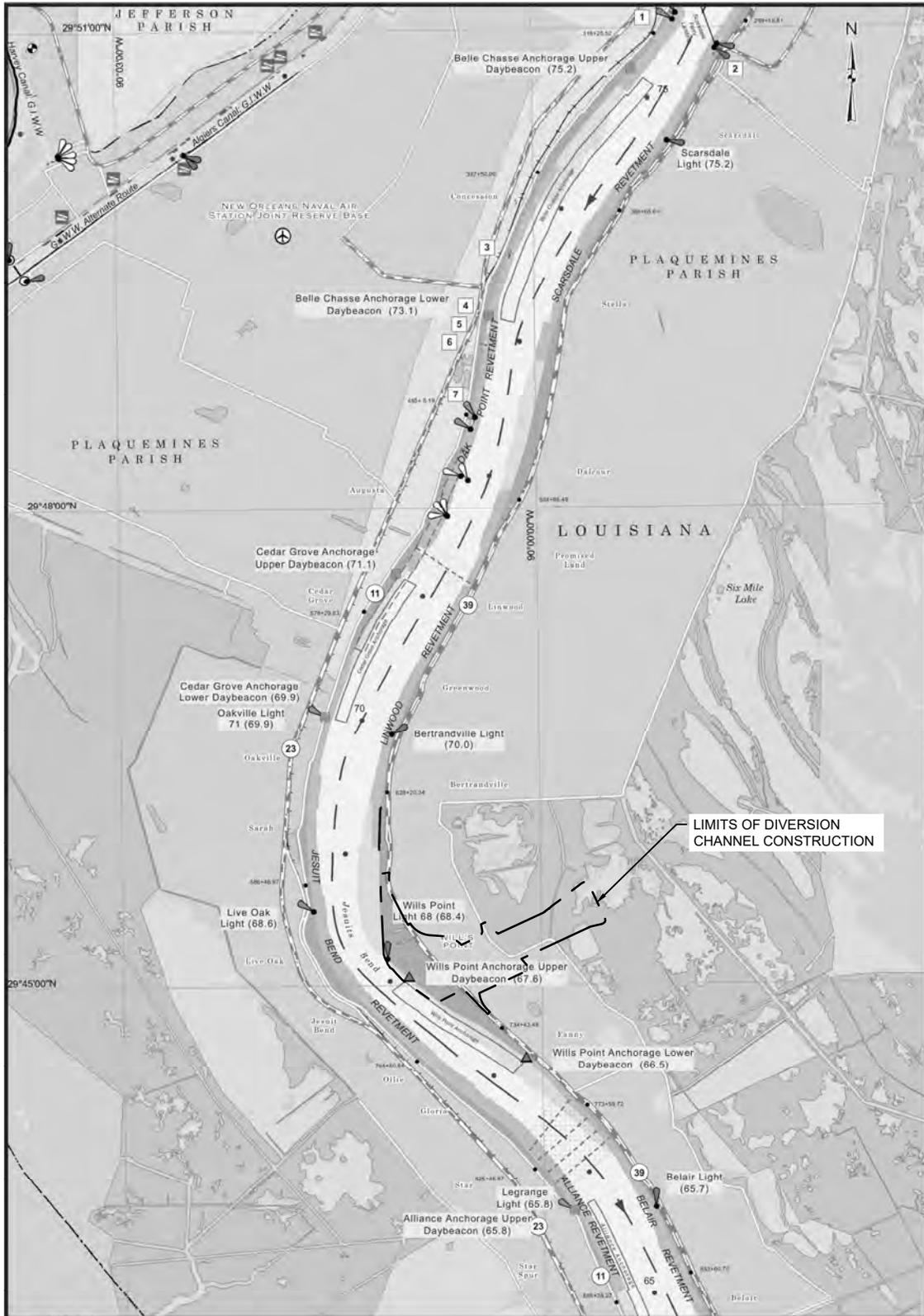
USGS QUAD MAP  
PHOENIX, LA  
2018

DIVERSION CHANNEL AT  
MISSISSIPPI RIVER LEVEE  
SECT 5 / TS-15 / RE-12  
X: 3700126.49, Y: 457552.61  
29°45'05.51"N, 90°00'43.01"W  
LOUISIANA SOUTH NAD83

USGS QUAD MAP  
LAFITTE, LA  
2018

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APPLICATION BY:  CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY COASTAL ENGINEERING DIVISION 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	VICINITY MAP USGS QUAD MAPS
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL		APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	FEDERAL PROJECT NUMBER:	SHEET 2 OF 13      REV. 3



2015 SCALE = 1:40,000



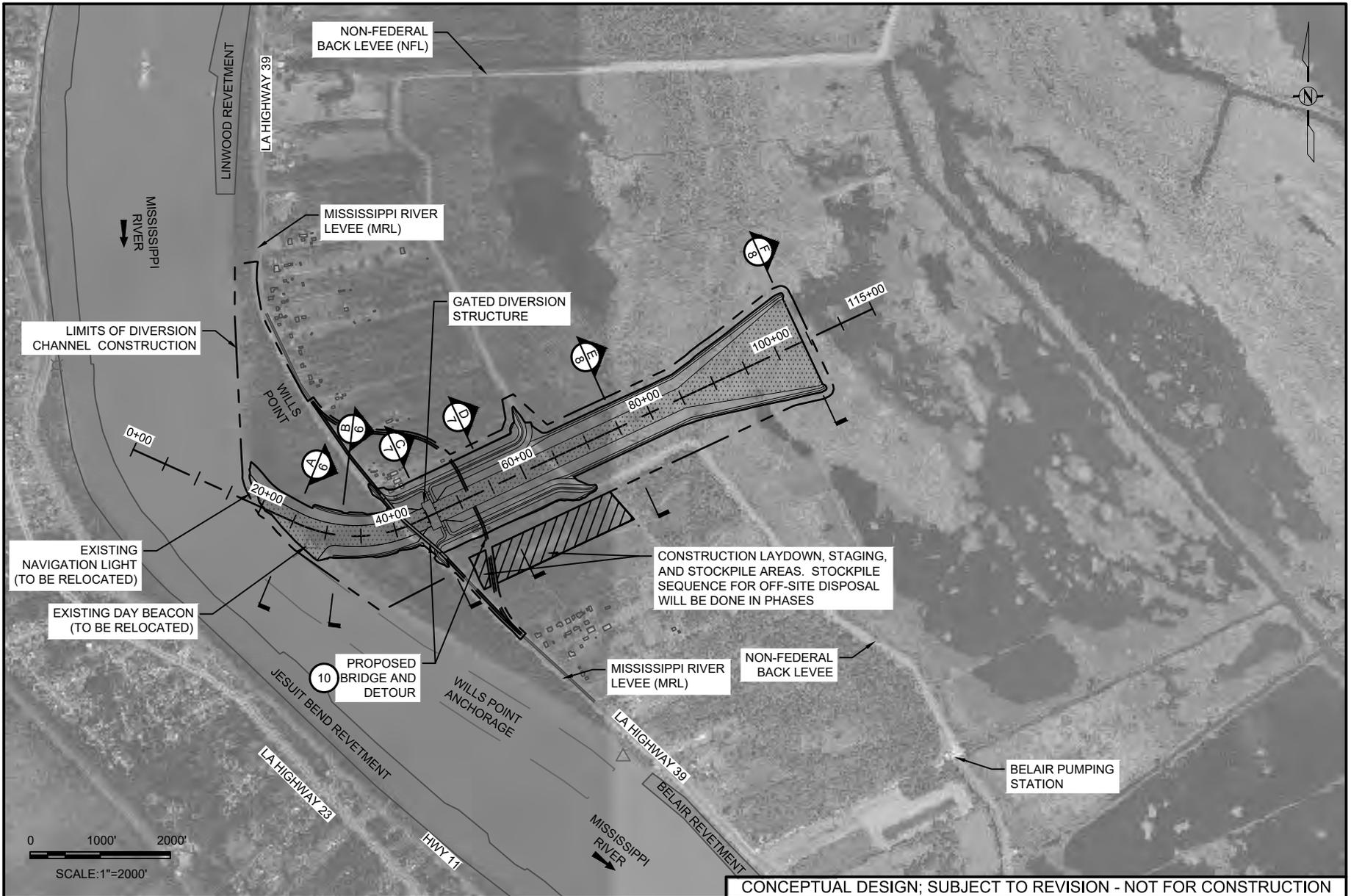
CHART NO. 87

Last Revised Date: 5/6/2016

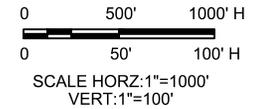
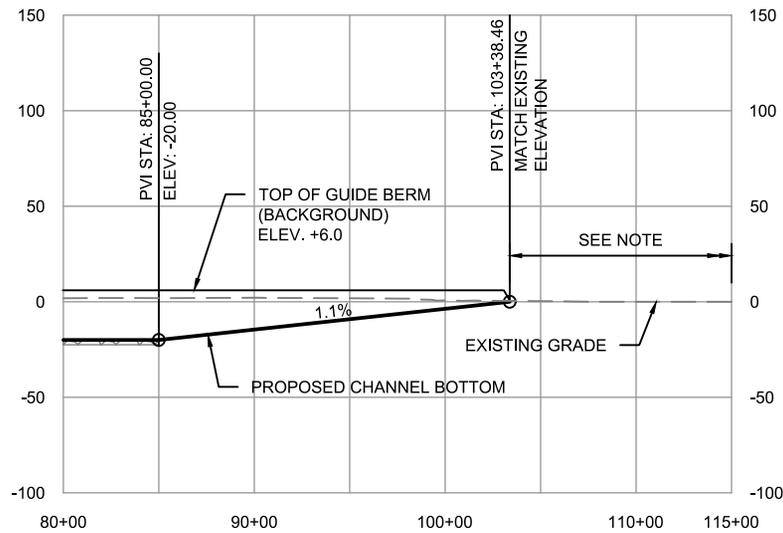
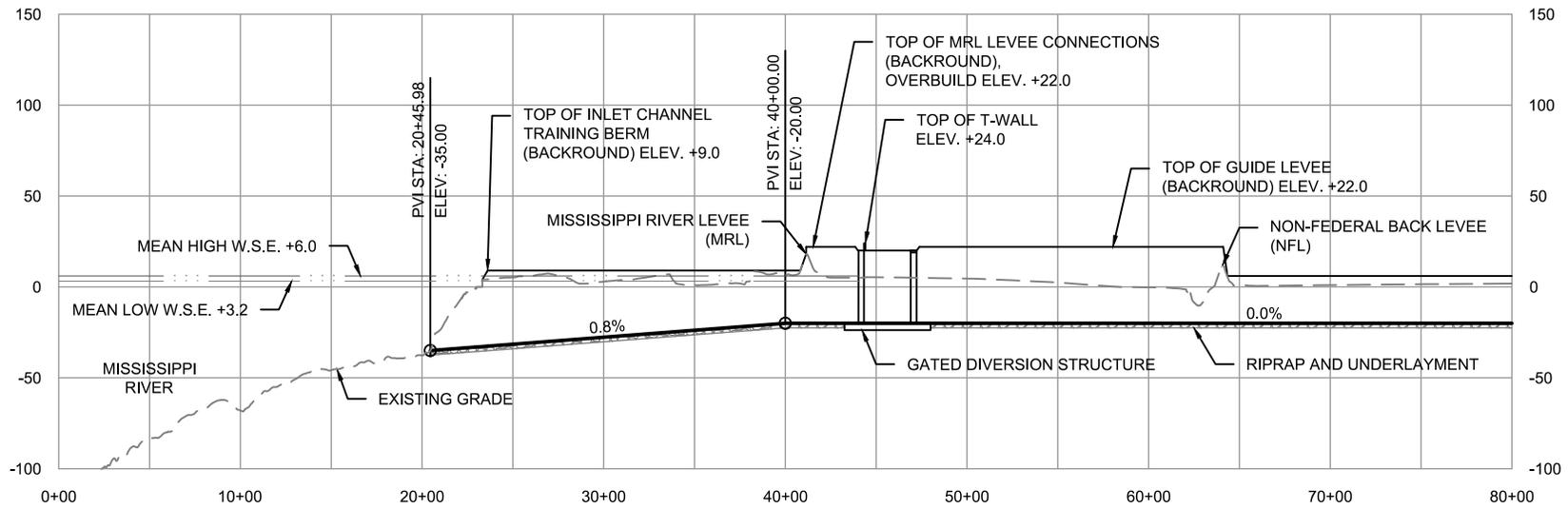
River Mile 75.8 to 64.8

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DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030	DATE: 02/20/2019
FEDERAL PROJECT NUMBER:			SHEET 3 OF 13	REV. 3



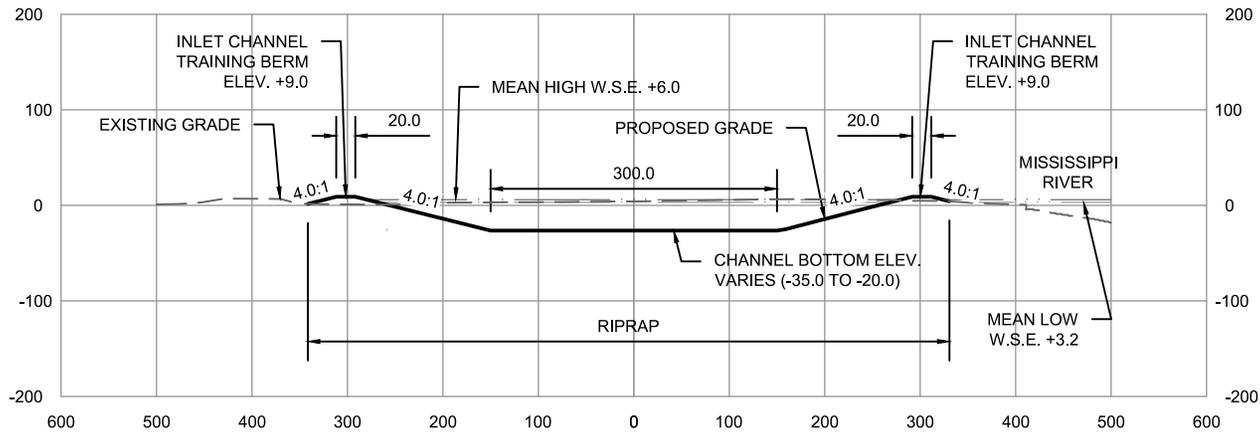
APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	DIVERSION CHANNEL PLAN  DATE: 02/20/2019
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030 FEDERAL PROJECT NUMBER:	SHEET 4 OF 13 REV. 3



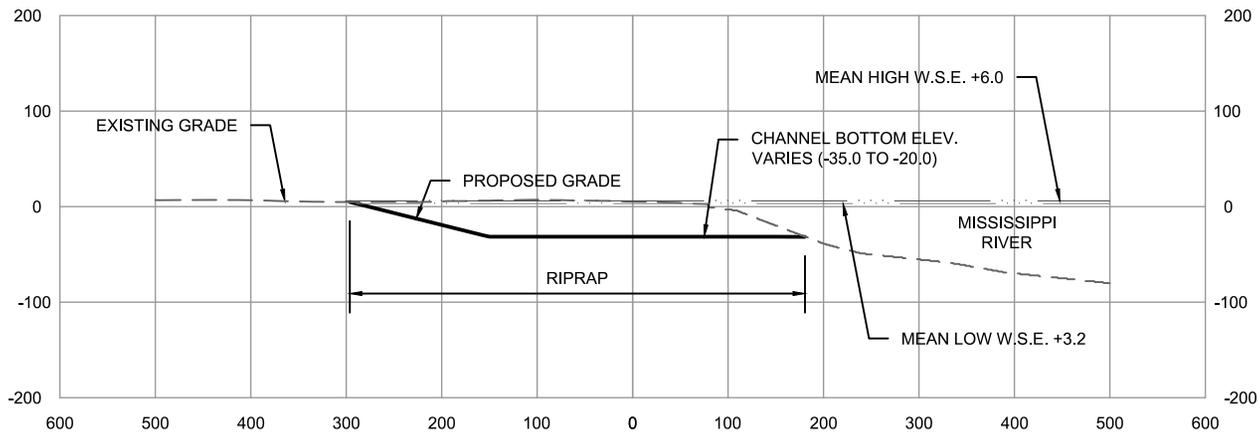
**NOTE:**  
SEE SHEET 9 FOR TRANSITION ZONE TO AREA OF DELTA FORMATION

**CONCEPTUAL DESIGN; SUBJECT TO REVISION - NOT FOR CONSTRUCTION**

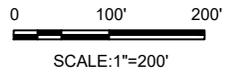
APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	DIVERSION CHANNEL PROFILE  DATE: 02/20/2019
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030 FEDERAL PROJECT NUMBER:	SHEET 5 OF 13 REV. 3



B  
6
 TYPICAL SECTION - INLET CHANNEL

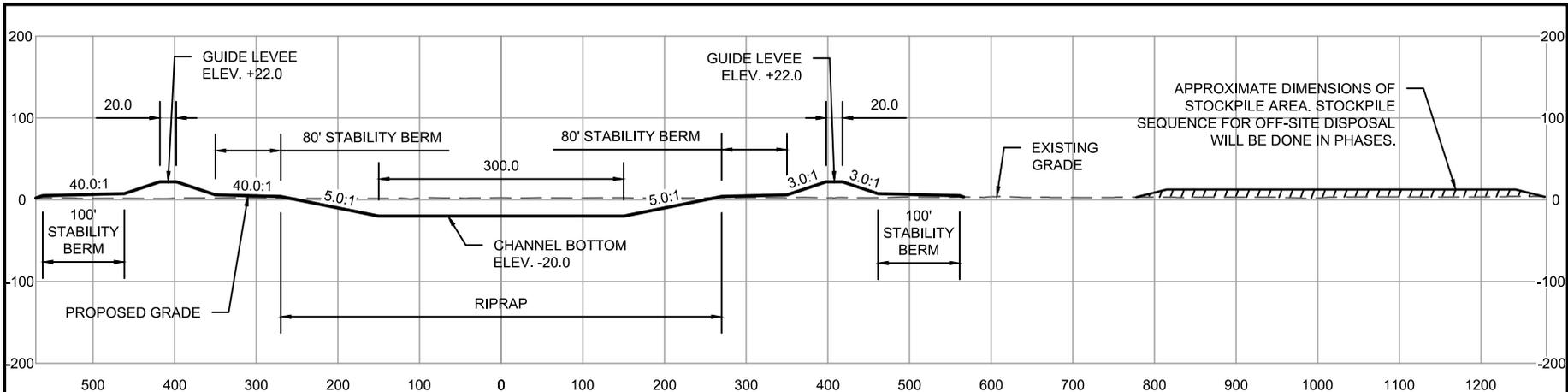


A  
6
 TYPICAL SECTION - BEGINNING OF INLET CHANNEL

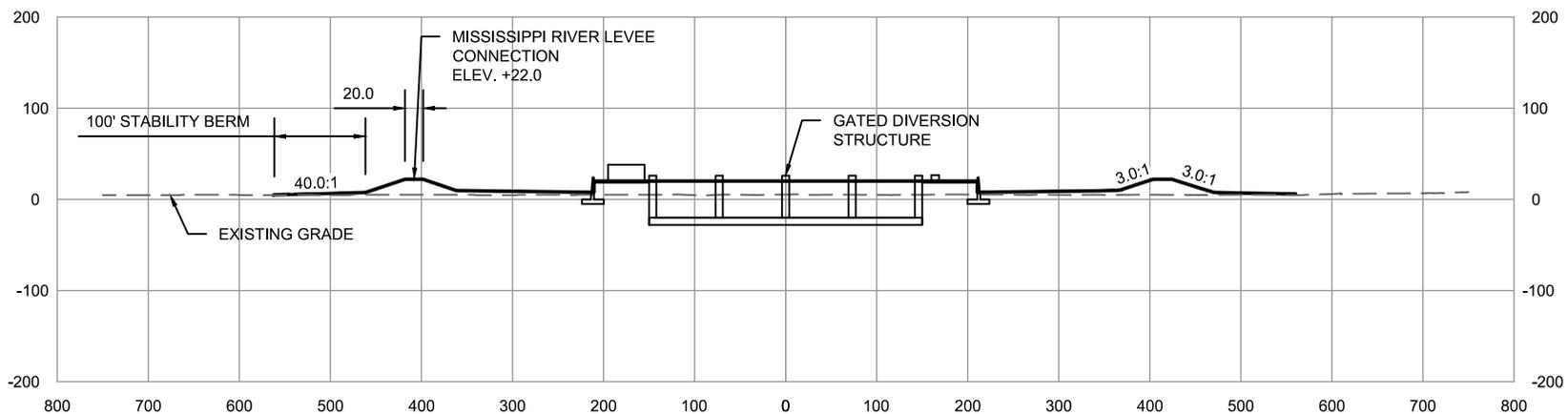


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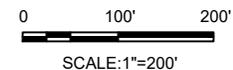
APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	DIVERSION CHANNEL TYPICAL SECTIONS
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030	DATE: 02/20/2019
FEDERAL PROJECT NUMBER:			SHEET 6 OF 13	REV. 3



D  
7
 TYPICAL SECTION - CONVEYANCE CHANNEL

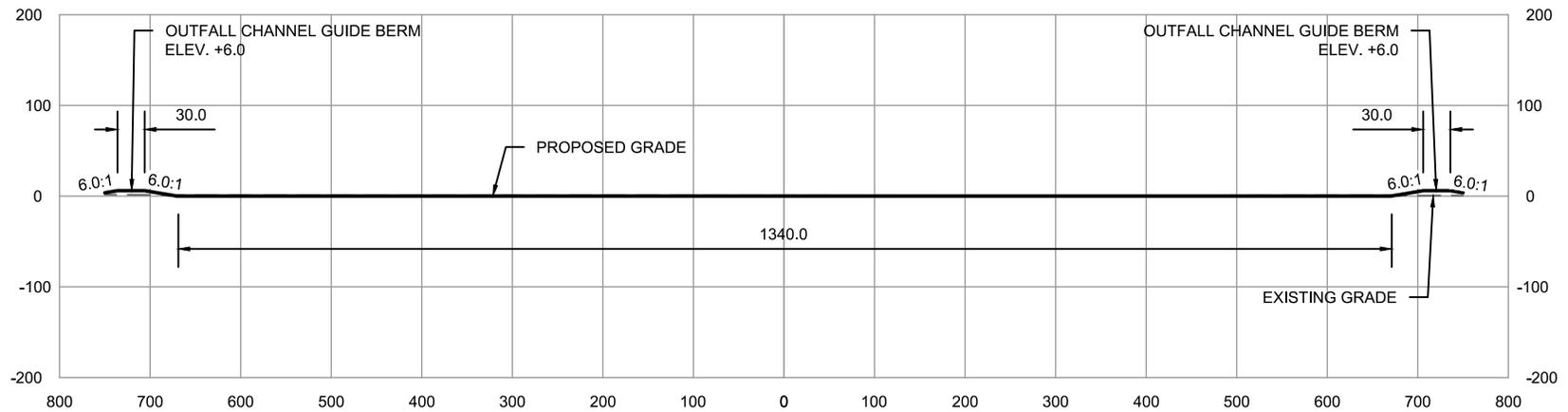


C  
7
 TYPICAL SECTION - INLET CHANNEL

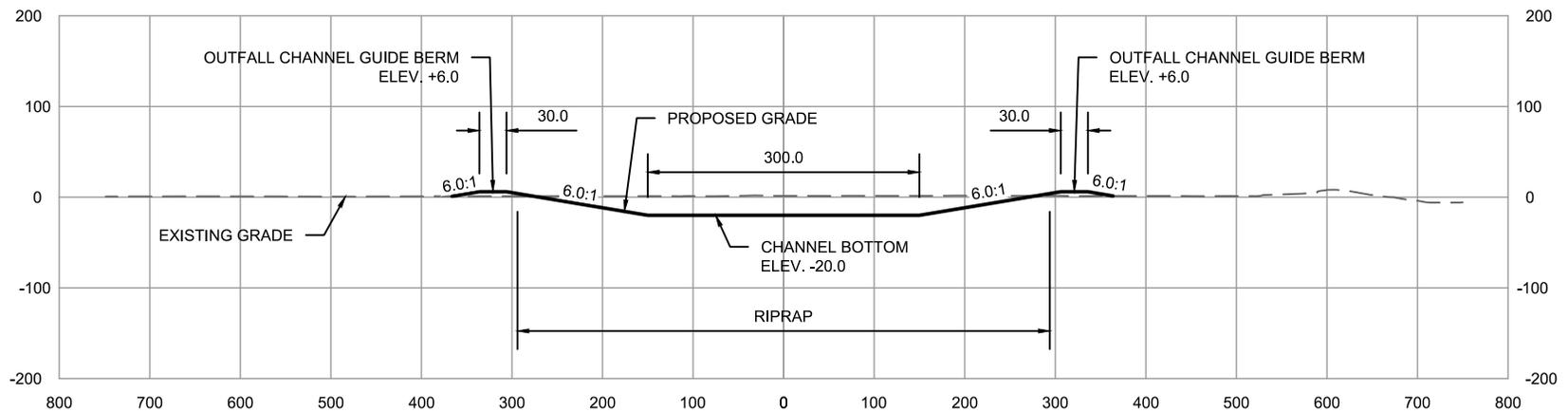


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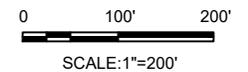
APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	DIVERSION CHANNEL TYPICAL SECTIONS
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030	DATE: 02/20/2019
FEDERAL PROJECT NUMBER:			SHEET 7 OF 13	REV. 3



F  
8 OUTFALL CHANNEL (DOWNSTREAM END)

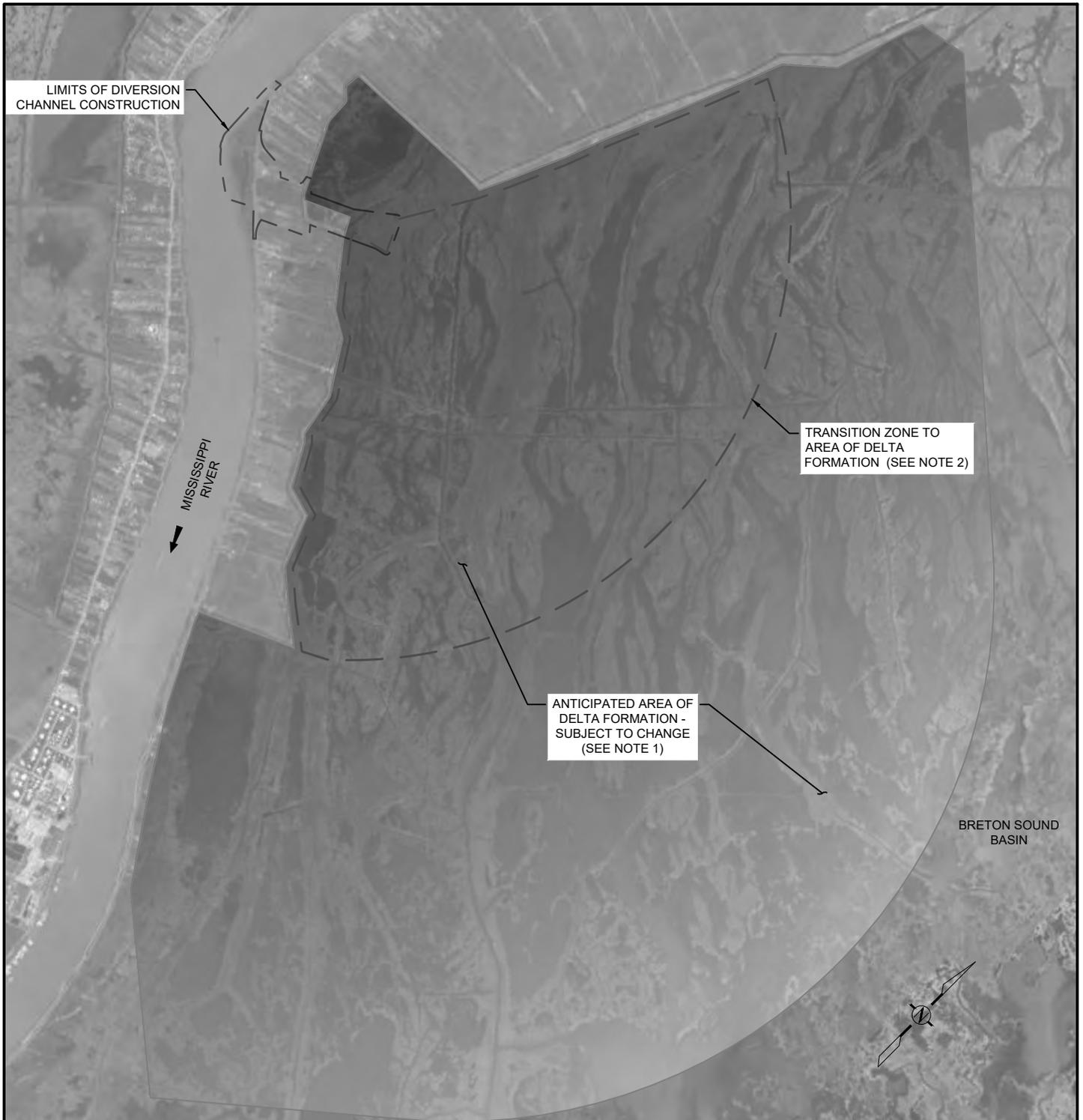


E  
8 TYPICAL SECTION - OUTFALL CHANNEL (UPSTREAM SECTION)



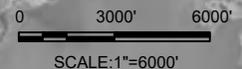
CONCEPTUAL DESIGN; SUBJECT TO REVISION - NOT FOR CONSTRUCTION

APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET STATE PROJECT NUMBER: BS-0030	DIVERSION CHANNEL TYPICAL SECTIONS DATE: 02/20/2019
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	FEDERAL PROJECT NUMBER:	SHEET 8 OF 13 REV. 3



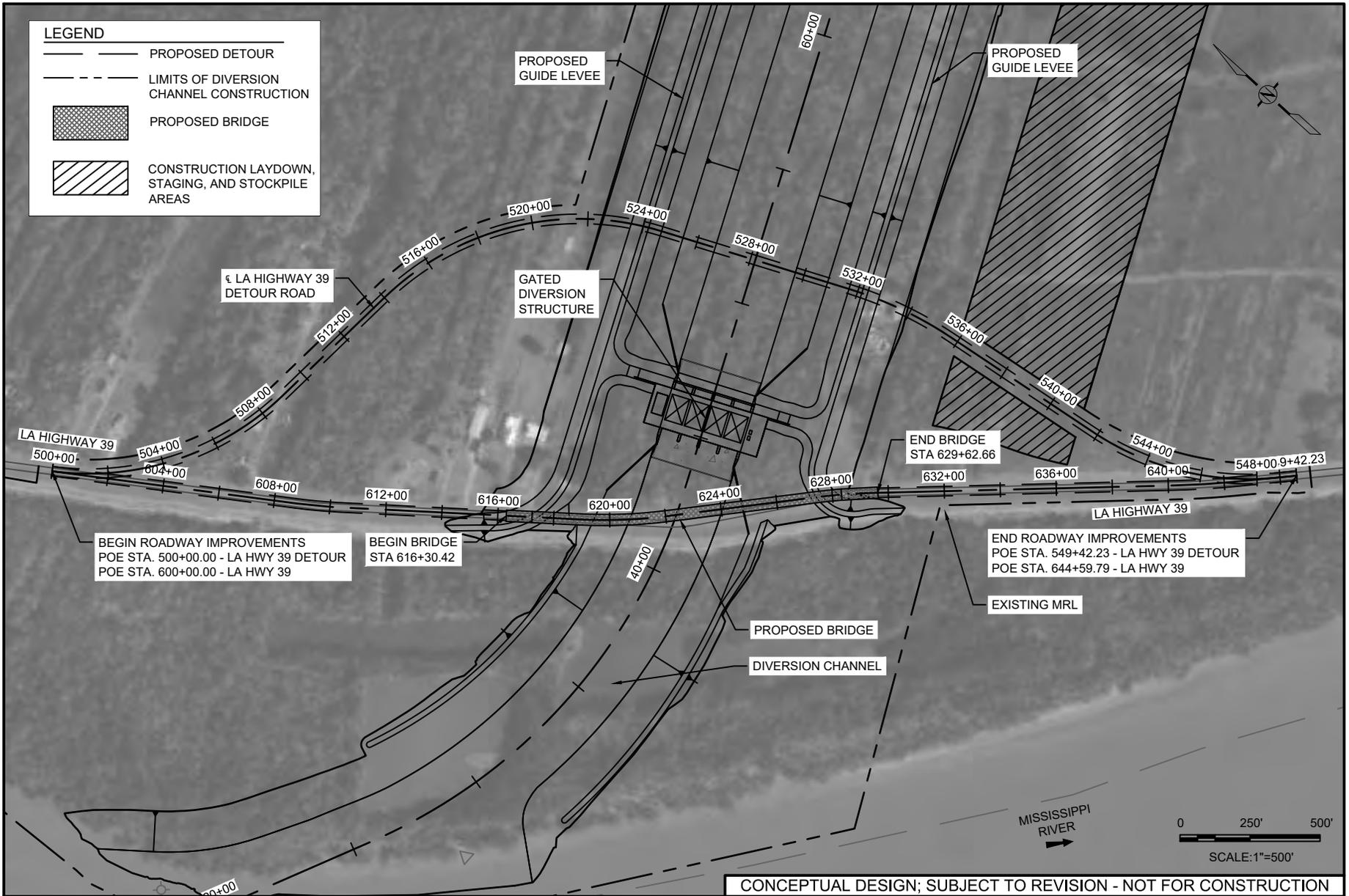
**NOTES:**

1. POTENTIAL AREA OF DELTA FORMATION EXTENTS ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON FURTHER ENGINEERING ANALYSIS. THE AREA OF DELTA FORMATION IS APPROXIMATELY 28,200 ACRES.
2. TRANSITION ZONE TO AREA OF DELTA FORMATION IS SUBJECT TO DIS-TRIBUTARY DEVELOPMENT AND DELTA FORMATION. POTENTIAL SCOUR AND NATURAL CHANNEL DEVELOPMENT SHOULD BE ANTICIPATED IN THIS AREA. MAINTENANCE DREDGING OR ADDITIONAL CHANNELS IN THE IMMEDIATE OUTFALL AREA MAY BE DETERMINED TO BE NECESSARY DURING THE DESIGN PHASE. TOTAL AREA OF TRANSITION ZONE IS APPROXIMATELY 7,665 ACRES.

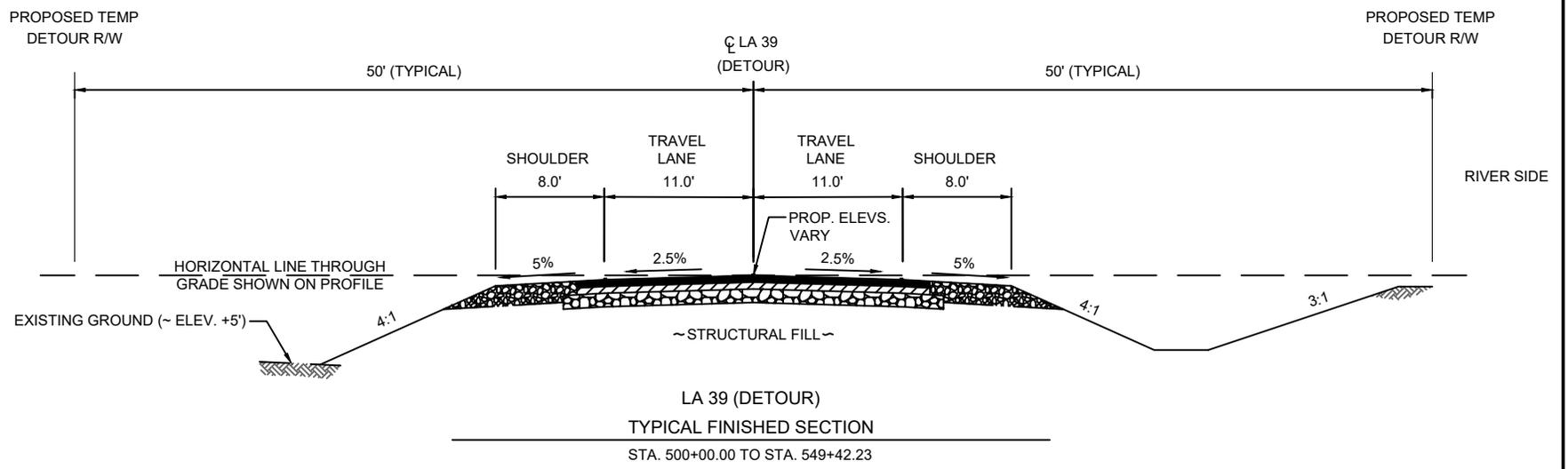
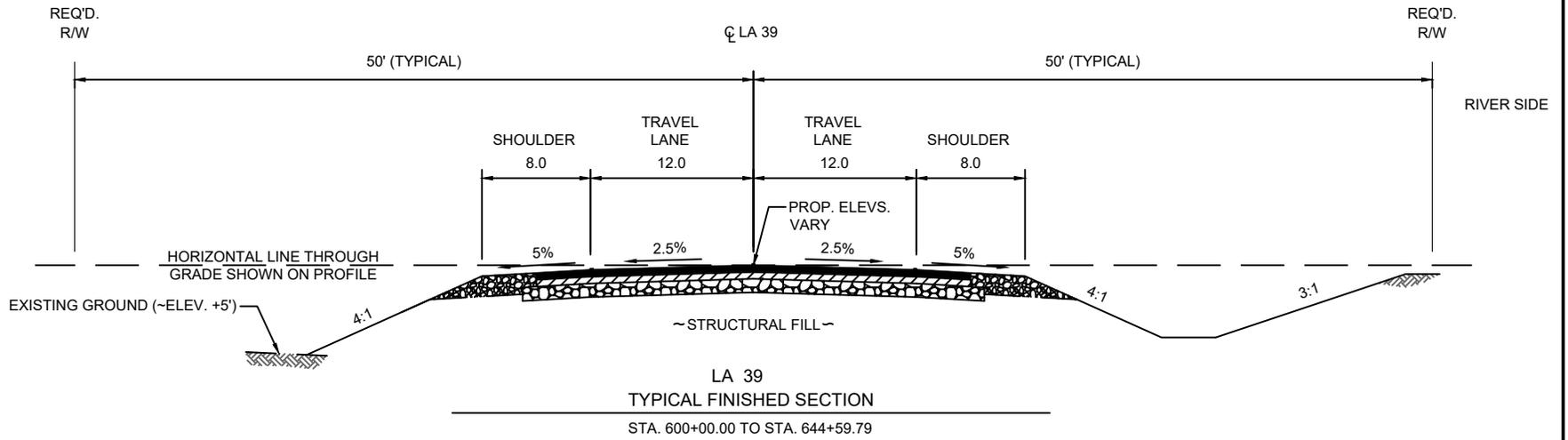


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DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL		APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030
FEDERAL PROJECT NUMBER:			SHEET 9 OF 13	REV. 3

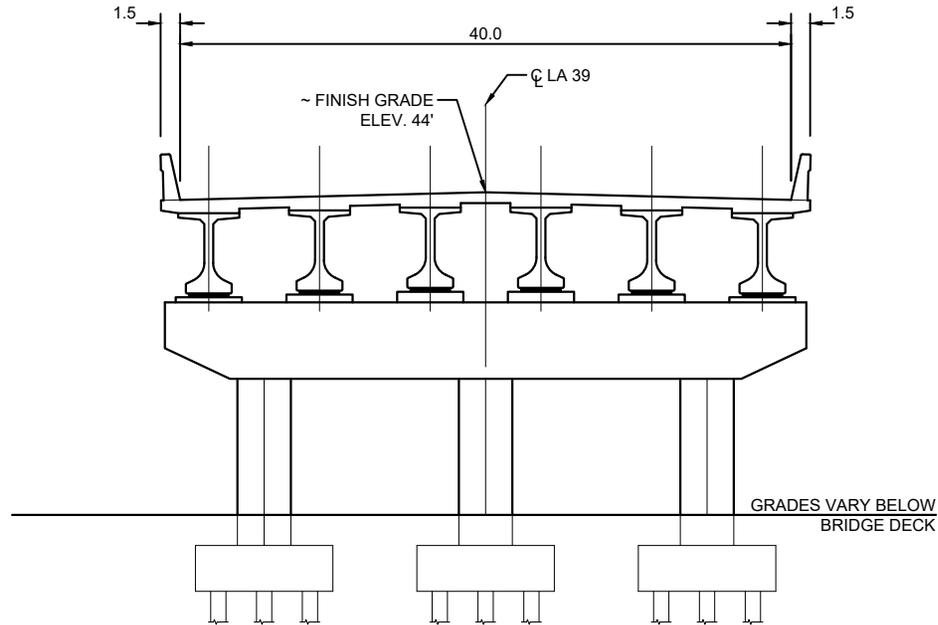


APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET STATE PROJECT NUMBER: BS-0030	ROADWAY PLAN DATE: 02/20/2019
DRAWN BY: T BROWN	DESIGNED BY: D. PASSMAN	APPROVED BY: S. PEYTON	FEDERAL PROJECT NUMBER:	SHEET 10 OF 13      REV. 3



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APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET	TYPICAL ROADWAY SECTIONS
DRAWN BY: T. BROWN	DESIGNED BY: D. PASSMAN	APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030	DATE: 02/20/2019
FEDERAL PROJECT NUMBER:			SHEET 11 OF 13	REV. 3

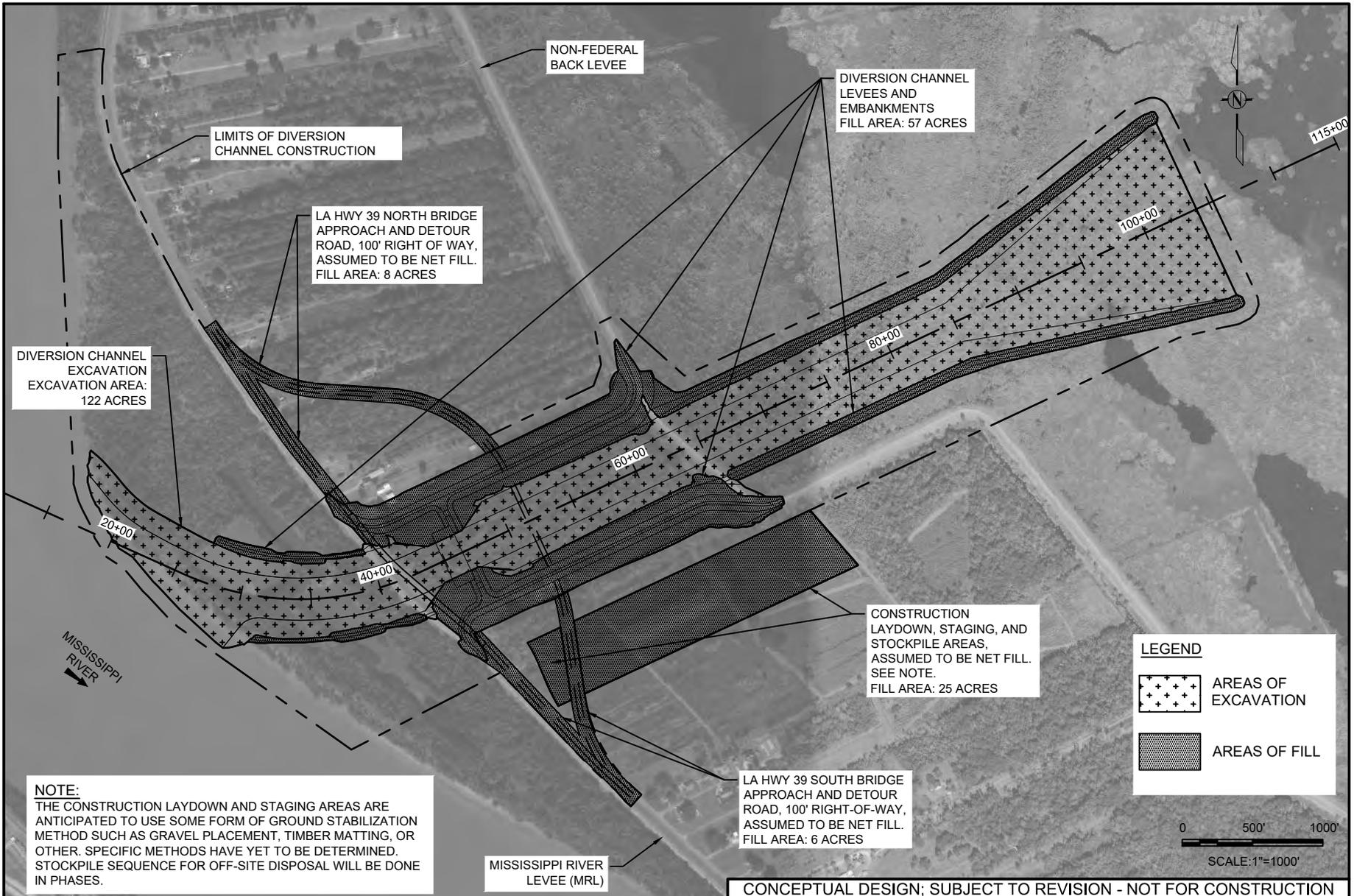


LA 39 BRIDGE  
TYPICAL FINISHED SECTION

STA. 616+30.42 TO STA. 629+62.66

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DRAWN BY: T. BROWN	DESIGNED BY: D. PASSMAN		APPROVED BY: S. PEYTON	STATE PROJECT NUMBER: BS-0030
FEDERAL PROJECT NUMBER:			SHEET 12 OF 13	REV. 3



APPLICATION BY: CPRA 150 TERRACE AVENUE BATON ROUGE, LA 70802	COASTAL PROTECTION AND RESTORATION AUTHORITY <b>COASTAL ENGINEERING DIVISION</b> 150 TERRACE AVENUE BATON ROUGE, LA 70802		MID-BRETON SEDIMENT DIVERSION PROJECT 5% PERMIT SET STATE PROJECT NUMBER: BS-0030	AREAS OF EXCAVATION AND FILL DATE: 02/20/2019
DRAWN BY: A. SPRAGUE	DESIGNED BY: D. GRANDAL	APPROVED BY: S. PEYTON	FEDERAL PROJECT NUMBER:	SHEET 13 OF 13      REV. 3