



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS, LA 70118-3651

July 30, 2021

Operations Division
Regulatory Branch, ODR-E

SUBJECT: MVN-2009-1353-EPP

National Oceanic & Atmospheric Administration Restoration Center
5304 Flanders Drive, Suite B
Baton Rouge, Louisiana 70808

Dear Mrs. Rogers:

Drawings, enclosed in sixty four (64) sheets, furnished with your Department of the Army permit application dated June 23, 2020, requesting authorization, to construct the Large-Scale Barataria Marsh Creation (BA-207): Upper Barataria Component Project (UBMC), consisting of dredging within the Mississippi River at the notated Wills Point, Alliance Anchorage and Alliance South borrow areas for the addition of eight marsh fill areas, located on the right descending bank of the Mississippi River, between miles 60 to 67 above Head of Passes, crossing and south of Highway 23, near Naomi, in Plaquemines and Jefferson Parishes, are authorized and will be included in your plans for the work authorized by the Secretary of the Army in a permit dated February 19, 2013, and subsequently modified July 31, 2014 and October 15, 2015, from the District Engineer at New Orleans, Louisiana.

The time for completion of this work is extended to August 31, 2026.

Special conditions 7-19, 23, 25-28, 29, 33-35, 45 and 46, associated with previous authorization dated February 19, 2013 for this work are hereby removed and/or replaced with the following:

1. The permittee understands 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, the permittee will be required, upon due notice from the 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.
2. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.

3. You must install and maintain, at your expense, any safety lights, signs and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on your authorized facilities. Any inquiries concerning a U.S. Coast Guard Private Aids to Navigation marking determination may be directed to the Eighth Coast Guard District (dpw), Hale Boggs Federal Building, 500 Poydras St., Suite 1230, New Orleans, Louisiana 70130, at (504) 671-2330 or via email to: D8oanPATON@uscg.mil. For general information related to Private Aids to Navigation, you may visit the Eighth CG District web site at: <http://www.atlanticarea.uscg.mil/district-8/district-divisions/waterways/PATON>

4. If the authorized project, or future maintenance work, 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 this permit approval and drawings can be emailed to: D8MarineInfo@uscg.mil, or mailed to the Commander (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Suite 1230, New Orleans, Louisiana 70130. Telephone inquiries can be directed to the Eighth Coast Guard District, Waterways Management at (504) 671-2118.

5. The cutterhead shall remain completely buried in the bottom material during dredging operations. If pumping water through the cutterhead is necessary to dislodge material or to clean the pumps or cutterhead, etc., the pumping rate shall be reduced to the lowest rate possible until the cutterhead is at mid-depth, where the pumping rate can then be increased.

6. During dredging, the pumping rates shall be reduced to the slowest speed feasible while the cutterhead is descending to the channel bottom.

7. Permittee must comply with the enclosed: STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES.

8. The permittee shall adhere to all state statutes (R.S. 56:2011 et seq.) and department regulations (LAC 76:XIII.101 et seq.) concerning dredging of fill sand and fill material from water bottoms of the state of Louisiana and severance royalties. For more information contact Mr. Dave Butler at 504-286-4173.

9. If the authorized project requires any additional work not expressly permitted herein, the permittee must apply for an amendment to this authorization.

The permittee is advised of the 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.

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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.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Martin S. Mayer
Chief, Regulatory Branch
for
Stephen F. Murphy
Colonel, U.S. Army
District Commander

Enclosures

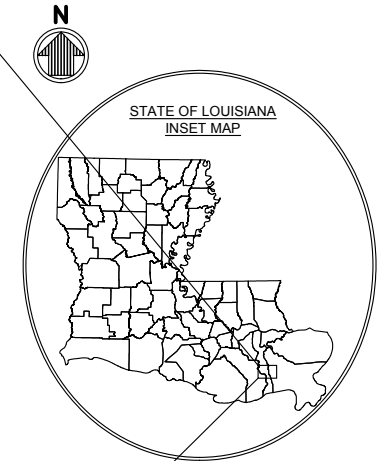
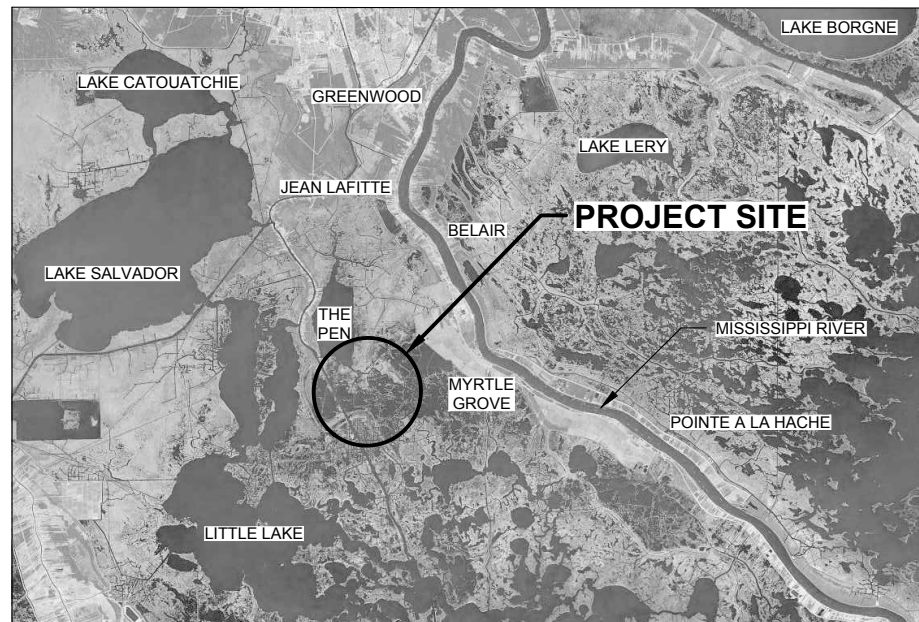
cc: Moffatt & Nichol

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE

LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT
PROJECT NO. BA-207
JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA
PERMIT MODIFICATIONS



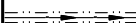











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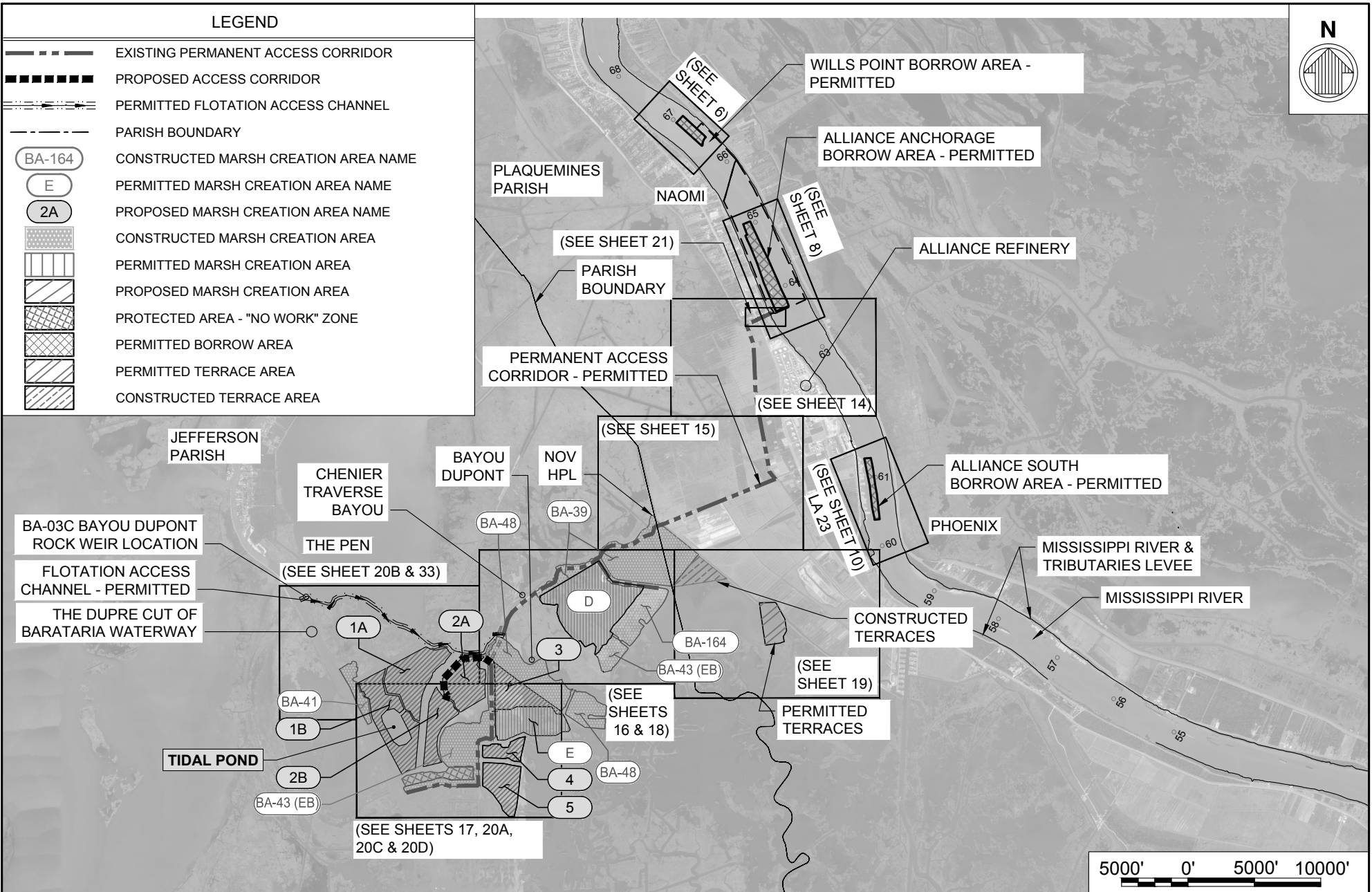



THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TITLE SHEET
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207

LEGEND

-  EXISTING PERMANENT ACCESS CORRIDOR
-  PROPOSED ACCESS CORRIDOR
-  PERMITTED FLOTATION ACCESS CHANNEL
-  PARISH BOUNDARY
-  CONSTRUCTED MARSH CREATION AREA NAME
-  PERMITTED MARSH CREATION AREA NAME
-  PROPOSED MARSH CREATION AREA NAME
-  CONSTRUCTED MARSH CREATION AREA
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-  PROPOSED MARSH CREATION AREA
-  PROTECTED AREA - "NO WORK" ZONE
-  PERMITTED BORROW AREA
-  PERMITTED TERRACE AREA
-  CONSTRUCTED TERRACE AREA



	BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; display: inline-block;">PROJECT LAYOUT</div>	
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER:	BA-207
DRAWN BY: JAD				DESIGNED BY: NC	APPROVED BY:			

GENERAL NOTES:

1. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION
2. BACKGROUND AERIAL IMAGES SHOWN ON THE PLANS COURTESY OF GOOGLE EARTH, 2020.
3. COORDINATES ARE PROVIDED IN NAD 83 (2011), COORDINATES PROVIDED IN NORTHING AND EASTING ARE LOUISIANA STATE PLANE, SOUTHERN ZONE, U.S. SURVEY FEET. COORDINATES PROVIDED IN LATITUDE/LONGITUDE ARE GEOGRAPHIC COORDINATES (DEGREES, MINUTES, SECONDS)
4. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET.
5. ALL RIVER DATUMS SHOWN BASED ON HISTORIC DATA FOR MISSISSIPPI RIVER AT ALLIANCE (01390) RIVER MILE 62.5. RECORDS AVAILABLE FROM APRIL 2, 1977 TO DATE.
6. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF AN ACTIVE AND/OR ABANDONED PIPELINE IN THE MISSISSIPPI RIVER AND FLOTATION ACCESS CHANNEL.
7. 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.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS PRIOR TO CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED WITH BUOYS OR FLAGGED STAKES PRIOR TO START OF CONSTRUCTION AND SHALL BE MAINTAINED DURING THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT LEAST 10 WORKING DAYS PRIOR TO MOBILIZATION.
10. CONTRACTOR SHALL CALL **LOUISIANA ONE CALL 811** AT 811, TOLL-FREE AT 1-800-272-3020, OR USE INTERNET TICKETING SERVICE (NEXT GEN) 14 WORKING DAYS PRIOR TO MOBILIZATION TO LOCATE ANY PIPELINE OR UTILITIES. ALL CORRESPONDENCE WITH LOUISIANA ONE CALL SHALL BE SUBMITTED TO THE GOVERNMENT FOR REFERENCE ONLY.
11. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL ASPECTS OF THE LOUISIANA REVISED STATUTE (R.S.), TITLE 40, §§ 40:1749.11 TO -.27, LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 11.1. MAINTAIN / PRESERVE AND LOCATE MARKINGS ACTIVE AS REQUIRED TO KEEP THE TICKET ACTIVE FOR THE DURATION OF THE PROJECT.
12. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE OF THE CONSTRUCTION SITE WORK LIMITS..
13. ESTIMATED RANGE OF FULLY-LOADED DRAFTS FOR VESSELS TO BE USED DURING CONSTRUCTION:

a.	4,000 HP TUGS	15-20 FT
b.	2,000 HP TUGS	10-14 FT
c.	WORK BOATS, TENDERS	6-8 FT
d.	CREW BOATS	2-4 FT
e.	BOOSTER PUMP BARGES, WORK BARGES, FUEL BARGES	4-6 FT
f.	SMALL BARGE-MOUNTED CLAMSHELL OR EXCAVATOR	4-6 FT
g.	LARGE HYDRAULIC DREDGE	10 FT

GENERAL NOTES: (CONTINUED)

14. NO EXCAVATION OF MATERIALS IS ALLOWED FOR MRT LEVEE, NOV HPL, AND NAOMI SIPHON LEVEE CROSSINGS.
15. CONSTRUCTION OVER OR WITHIN 10 FEET OF THE MRT LEVEE, AND SUBSURFACE WORK WITHIN 1,500 FEET OF THE MRT LEVEE IS LIMITED TO RIVER STAGES BELOW +11 FEET ON THE CARROLLTON GAUGE.
16. CONSTRUCTION IS NOT ALLOWED WHEN A HURRICANE IS WITHIN 5 DAYS OF AFFECTING THE LOUISIANA COAST. DURING SUCH TIMES, THE SITE MUST BE SECURED, FLOOD PROTECTION MAINTAINED, AND COORDINATION MAINTAINED WITH THE ENGINEERING DIVISION OF THE USACE MVN DISTRICT. FURTHERMORE, ALL ACTIVE EXCAVATION WORK WITHIN 1,500 FEET OF THE MRT LEVEE NEEDS TO BE BACKFILLED WITHIN THREE DAYS OF A TROPICAL EVENT EXPECTED TO MAKE LANDFALL OF THE LOUISIANA COAST.

HYDRAULIC DREDGING NOTES:

1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN IN PLAN SHEETS 6 THRU 11 .
2. THE DREDGE, ANCHOR BUOYS, AND DREDGE PIPELINE (FLOATING OR SUBMERGED) WITHIN BORROW AREAS OR OTHER NAVIGABLE WATERWAYS SHALL BE MARKED IN ACCORDANCE WITH THE U.S. COAST GUARD NAVIGATION RULES INCLUDING REQUIRED FLASHING LIGHTS, WARNING SIGNS AND MARKERS.
3. THE CONTRACTOR IS PROHIBITED FROM DREDGING BEYOND THE IDENTIFIED BORROW AREA LIMITS.
4. THE CONTRACTOR MAY DREDGE TO AN ALLOWABLE MAXIMUM DEPTH OF -90 FT NAVD 88.
5. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND THE MARITIME NAVIGATION SAFETY ASSOCIATION (MNSA) WHICH PRECISELY DELINEATES THE DREDGE LOCATION, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE PURSUANT TO THE PROJECT SPECIFICATIONS.
6. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> GENERAL AND DREDGING NOTES </div>		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER:	BA-207
								SHEET 3A OF 54
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:				

PROPOSED PERMIT MODIFICATION NOTES:

1. IN GENERAL, PROPOSED PERMIT INFORMATION FOR NEW MARSH CREATION AREAS (MCAs) AND ASSOCIATED DESIGN FEATURES, AND OTHER PERTINENT PERMIT INFORMATION IS SHOWN WITH A DARK FONT, TEXT FRAME AND GRAY TEXT BACKGROUND.
2. ORIGINAL / PRIOR PERMIT TEXT (MVN-2009-1353-EPP) ON PLANS AND DETAILS IS UNMODIFIED WITH EXCEPTION OF REVISING CURRENT STATUS OF CONDITIONS. EXAMPLE, CONSTRUCTED MCA BA-43(EB) AND BA-48 PLANS, DETAILS AND REFERENCES INCLUDE DESIGNATING TEXT "CONSTRUCTED" AS APPLICABLE.
3. PRIOR PERMITTED INFORMATION FOR MCAs, ACCESS CORRIDORS, TEMPORARY CROSSINGS, EXCAVATION FOR EARTHEN CONTAINMENT DIKES, FLOTATION ACCESS CHANNEL OR OTHER PROJECT FEATURES INCLUDE DESIGNATING TEXT "PERMITTED".
4. PROPOSED PERMIT INFORMATION AND ASSOCIATED DESIGN DETAILS INCLUDE DESIGNATING TEXT "PROPOSED".
5. APPLICANT IS NOT REQUESTING ANY CHANGES TO THE HORIZONTAL OR VERTICAL LIMITS OF BORROW FOR WILLS POINT, ALLIANCE ANCHORAGE OR ALLIANCE SOUTH FROM WHAT WAS ORIGINALLY APPROVED BY THE USACE PER PERMIT NO. MVN-2009-1353-EPP AS AMENDED BY 20140731 AND 20151015, AND ORIGINALLY APPROVED BY THE STATE OF LOUISIANA IN CUP P2011445.
6. UNLESS OTHERWISE SPECIFIED, INFORMATION MARKED WITH DESIGNATING TEXT "PERMITTED" SHALL REFER TO PRIOR PERMIT NO. MVN-2009-1353-EPP AS AMENDED BY 20140731 AND 20151015.
7. IN GENERAL, THE FOLLOWING SHEET NUMBERS SHALL DIRECT THE AGENCY TO PROPOSED / SPECIFICALLY MODIFIED SHEETS CONTAINING INFORMATION WHICH AMENDS THE AFOREMENTIONED PERMIT AND ITS' PRIOR AMENDMENTS:
1, 2, 3A, 3B, 3C, 6, 16, 17, 18, 20A, 20B, 20C, 20D, 22A, 22B, 23A, 23B, 24, 32B, 32C, 32D, 33, 53, & 54.
8. PLEASE NOTE THAT THE FOLLOWING SHEETS HAVE BEEN ADDED TO THE SHEET SET: 3B, 3C, 20B, 20C, 20D, 22B, 23B, 32B, 32C, 32D, & 54.
9. PLAN SHEETS THAT ARE LISTED UNDER NOTE #7 (PROPOSED OR MODIFIED) CONTAIN A DIFFERENTIATING GRAY TEXT BACKGROUND TO PLAN SHEET TITLE AS LOCATED IN LOWER LEFT CORNER OF TITLE BOX AS FOLLOWS (EXAMPLE):

**PROPOSED
ADDITIONAL MARSH
FILL - AREA E**

10. PLAN SHEETS NOT LISTED UNDER NOTE #7 WERE PREVIOUSLY PERMITTED AND EFFECTIVELY CONTAIN NO PROPOSED OR MODIFIED INFORMATION AND THEREFORE CONTAIN A DESIGNATING TEXT BOX (EXAMPLE) AS FOLLOWS:

**NO MODIFICATIONS
MADE TO THIS SHEET**

11. PLAN SHEETS CONTAINING TEXT STAMP "NO MODIFICATIONS MADE TO THIS SHEET" HAVE BEEN UPDATED WHERE APPROPRIATE FOR CURRENT AERIAL IMAGERY, SURVEY INFORMATION REFERENCES, "CONSTRUCTED" FEATURES VERSUS "PERMITTED" OR PREVIOUSLY "PROPOSED" FEATURES , POINT COORDINATES, ETC...

MARSH CREATION NOTES:

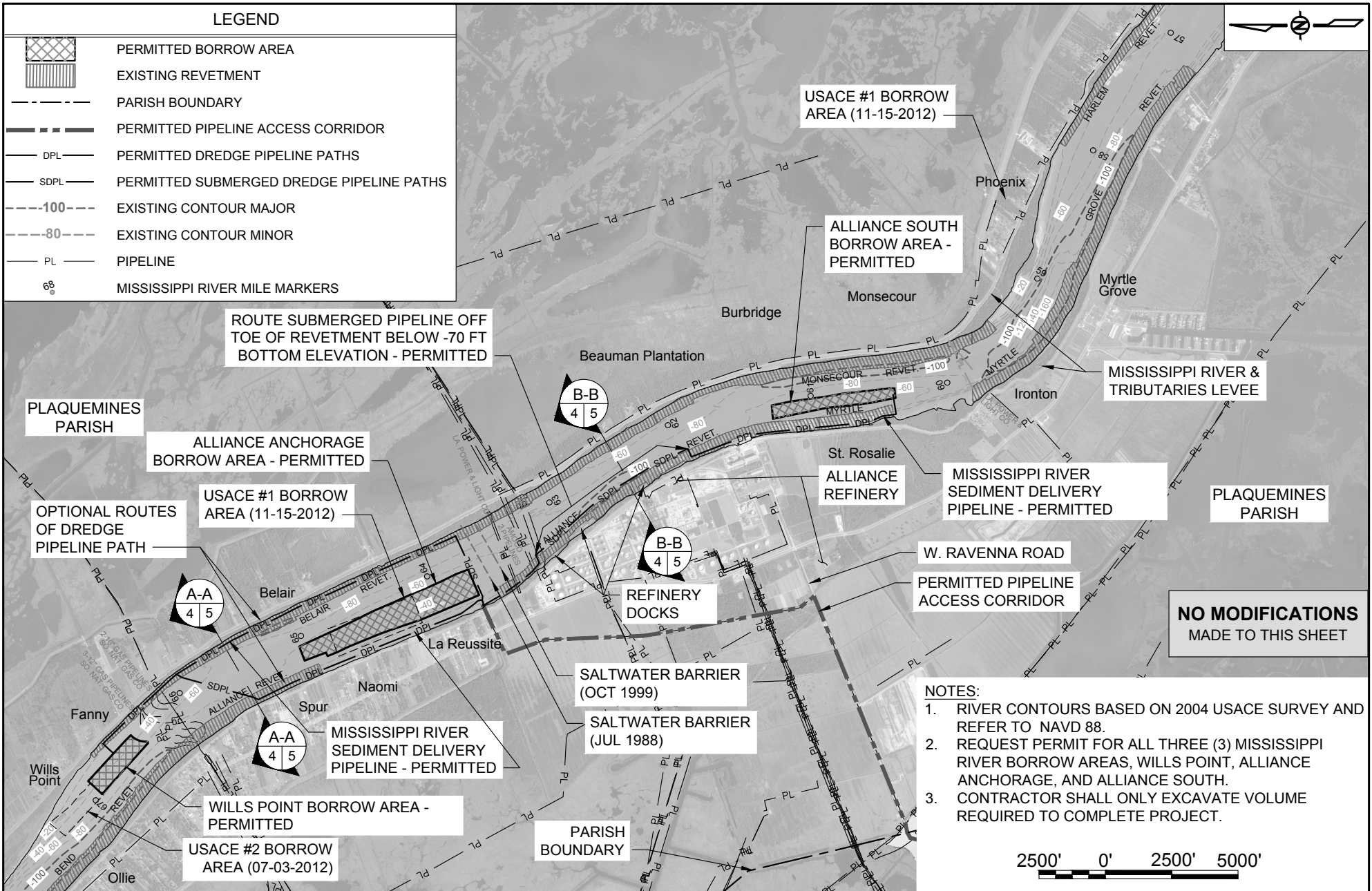
1. MARSH CREATION AREA FILL ELEVATIONS FOR "CONSTRUCTED" AND PRIOR "PERMITTED" MARSH CREATION AREAS ARE IDENTIFIED ON TYPICAL SECTION SHEETS 24 THRU 32A AND RANGE IN ELEV.= 2.5' ± 0.5' TO ELEV.= 3.0' ± 0.5'.
2. PROPOSED MARSH CREATION AREAS 1A, 1B, 2A, 2B AND 3 SHALL BE CONSTRUCTED TO FILL ELEVATION = +3.0' NAVD 88 (MAXIMUM) WITH -0.5' TOLERANCE.
3. MARSH CREATION AREA COORDINATE POINTS ARE RENUMBERED AND TABLES OF THESE POINTS NOW REFERRED TO AS PROJECT FEATURE INFLECTION POINTS (PFIP) ARE PROVIDED ON SHEETS 22A THRU 23B.
4. UNLESS OTHERWISE INDICATED, PFIP COORDINATES CORRESPOND TO THE CENTERLINE OF EARTHEN CONTAINMENT DIKES AND/OR THE MARSH PLATFORM TOP OF THE SLOPE ALONG UNCONTAINED FILL EDGES.
5. DUE TO SETTLEMENT, AREAS WITHIN THE PREVIOUSLY CONSTRUCTED BA-43 (EB) PERMANENT ACCESS CORRIDOR, INCLUDING REACHES THAT ARE WITHIN BA-39 AND BA-48, MAY REQUIRE ADDITIONAL MATERIAL BE PLACED TO RAISE THE CORRIDOR ELEVATION IN LOW AREAS FOR CONSTRUCTION ACCESS. ANY ADDITIONAL MATERIAL WILL BE PLACED WITHIN THE PERMITTED ALLOWABLE ELEVATION OF +2.5' NAVD 88 WITH +- 0.5' TOLERANCE.
6. ADJACENT TO UNCONTAINED FILL EDGES, FINE GRAINED MATERIAL MAY REMAIN IN SUSPENSION IN DREDGE EFFLUENT FOR NOURISHMENT OF ADJACENT MARSH. THESE AREAS ARE NOT SPECIFICALLY DELINEATED.

BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> NOTES (CONTINUED) </div>
					STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	FEDERAL PROJECT NUMBER: BA-207	SHEET 3B OF 54

MARSH CREATION AREAS	STATUS	PERMITTED FILL ELEV. (FT, NAVD 88-GEOID12A)	
BA-39	CONSTRUCTED	+2.0' ± 0.3'	
BA-43 (EB)		+3.0' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 1		+2.5' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 2		+2.5' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 3		+3.0' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 4		+3.0' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 5		+3.0' ± 0.5'	
EXISTING PERMANENT ACCESS CORRIDOR REACH 6		+2.5' ± 0.5'	
BA-48		+3.0' ± 0.5'	
BA-164		+2.5' ± 0.5'	
1A	PROPOSED	+3.0'- 0.5'	
1B		+3.0'- 0.5'	
2A		+3.0'- 0.5'	
2A ACCESS CORRIDOR		+3.0'- 0.5'	
2B		+3.0'- 0.5'	
3		+3.0'- 0.5'	
4		+3.0'- 0.5'	
5		+3.0'- 0.5'	
D		PERMITTED	+2.5' ± 0.5'
E			+2.5' ± 0.5'
TERRACE B	CONSTRUCTED	+2.5' + 0.5'	
TERRACE C	PERMITTED	+2.5' + 0.5'	

BORROW AREAS	STATUS	PERMITTED DREDGE DEPTH (FT, NAVD 88-GEOID12A)
WILLS POINT	PERMITTED	-90'
ALLIANCE ANCHORAGE		
ALLIANCE SOUTH		

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; text-align: center;"> MARSH CREATION AREA SUMMARY TABLE </div>
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207

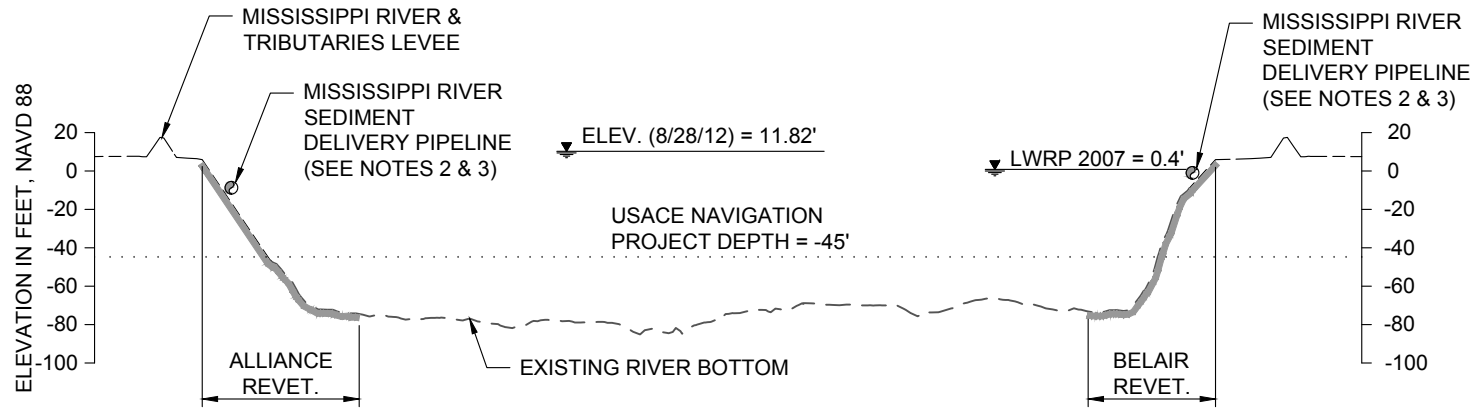


LEGEND	
	PERMITTED BORROW AREA
	EXISTING REVETMENT
	PARISH BOUNDARY
	PERMITTED PIPELINE ACCESS CORRIDOR
	PERMITTED DREDGE PIPELINE PATHS
	PERMITTED SUBMERGED DREDGE PIPELINE PATHS
	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
	PIPELINE
	MISSISSIPPI RIVER MILE MARKERS

**NO MODIFICATIONS
MADE TO THIS SHEET**

- NOTES:**
1. RIVER CONTOURS BASED ON 2004 USACE SURVEY AND REFER TO NAVD 88.
 2. REQUEST PERMIT FOR ALL THREE (3) MISSISSIPPI RIVER BORROW AREAS, WILLS POINT, ALLIANCE ANCHORAGE, AND ALLIANCE SOUTH.
 3. CONTRACTOR SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.

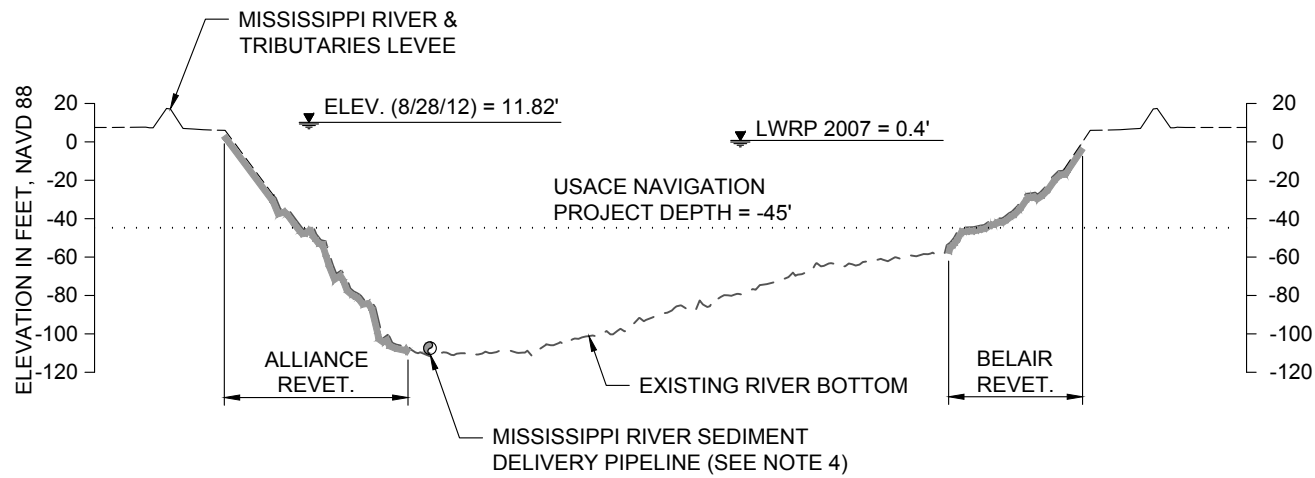
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	BORROW AREAS - PERMITTED		
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER: BA-207	SHEET 4 OF 54



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

LEGEND

- AUGUST 2011 SURVEY
- EXISTING REVETMENT
- ⊙ SEDIMENT DELIVERY PIPELINE

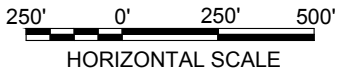
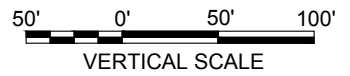


B-B
4
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
RIVER MILE 62.5

NO MODIFICATIONS
MADE TO THIS SHEET
















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 LOW WATER REFERENCE PLANE (LWRP).
3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
4. ROUTE SUBMERGED PIPELINE OFF TOE OF REVETMENT BELOW -70 FEET NAVD BOTTOM ELEVATION.



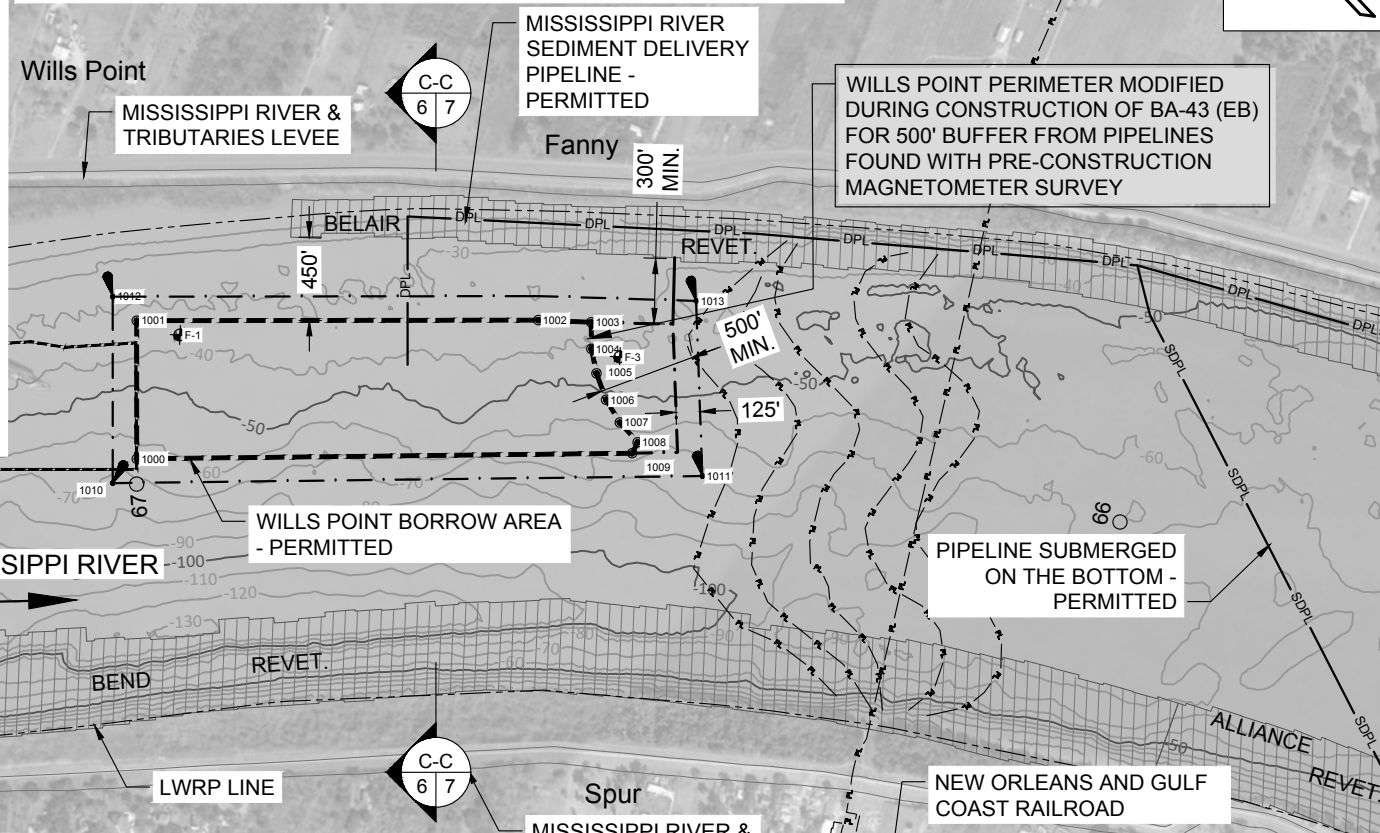
BY:	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL MISSISSIPPI RIVER PIPELINE SECTIONS - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:		FEDERAL PROJECT NUMBER:	BA-207	SHEET 5 OF 54

LEGEND

-  EXISTING REVETMENT
-  BORROW AREA PERIMETER (TOP OF CUT) - PERMITTED
-  BORROW AREA PERIMETER (TOP OF CUT) - MODIFIED
-  USACE BORROW AREA PERIMETER (TOP OF CUT)
-  DREDGE ANCHOR LIMITS
-  PERMITTED DREDGE PIPELINE
-  PERMITTED SUBMERGED DREDGE PIPELINE
-  LWRP LINE
-  EXISTING RAILROAD
-  -50 CONTOUR MAJOR
-  -60 CONTOUR MINOR
-  65 MISSISSIPPI RIVER MILE (AHP)
-  BUOY MARKING DREDGE ANCHOR LIMITS
-  BORROW AREA WORK POINT
-  PIPELINE

NOTES:

1. BACKGROUND AERIAL IMAGE FROM GOOGLE EARTH, 2020.
2. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD 88.



USACE #2 BORROW AREA (07-03-2012)

WILLS POINT BORROW AREA - PERMITTED

PIPELINE SUBMERGED ON THE BOTTOM - PERMITTED

NEW ORLEANS AND GULF COAST RAILROAD

BORROW AREA LIMITS (TOP OF CUT)		
POINT TABLE		
POINT #	LATITUDE	LONGITUDE
1000	N29° 44' 26.59"	W90° 00' 20.17"
1001	N29° 44' 31.77"	W90° 00' 14.57"
1002	N29° 44' 17.56"	W89° 59' 57.30"
1003	N29° 44' 15.61"	W89° 59' 55.13"
1004	N29° 44' 14.61"	W89° 59' 56.20"
1005	N29° 44' 13.51"	W89° 59' 56.97"
1006	N29° 44' 12.18"	W89° 59' 57.64"
1007	N29° 44' 10.84"	W89° 59' 57.96"
1008	N29° 44' 09.47"	W89° 59' 58.00"
1009	N29° 44' 09.26"	W89° 59' 58.68"

WILLS POINT BORROW AREA PARAMETERS	
BORROW AREA ACREAGE	39.6 AC.
BORROW AREA LENGTH	2,800'
BORROW AREA WIDTH	668' TO 720'
BORROW AREA THICKNESS (TO -90' NAVD 88)	31'
BORROW AREA VOLUME (-90' NAVD 88 MAX.)	2.0 MCY

BUOYS MARKING DREDGE ANCHOR LIMITS		
POINT TABLE		
POINT #	LATITUDE	LONGITUDE
1010	N29° 44' 26.53"	W90° 00' 22.20"
1011	N29° 44' 05.91"	W89° 59' 56.59"
1012	N29° 44' 33.51"	W90° 00' 14.63"
1013	N29° 44' 12.70"	W89° 59' 49.75"

BY	DESCRIPTION	DATE
DRAWN BY: JAD		

moftatt & nichol

ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70801
225-336-2075

DESIGNED BY: NC

NOAA RESTORATION CENTER

5304 FLANDERS DR., SUITE B
BATON ROUGE, LOUISIANA 70808-7206

APPROVED BY:

LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT

STATE PROJECT NUMBER:





FEDERAL PROJECT NUMBER: BA-207

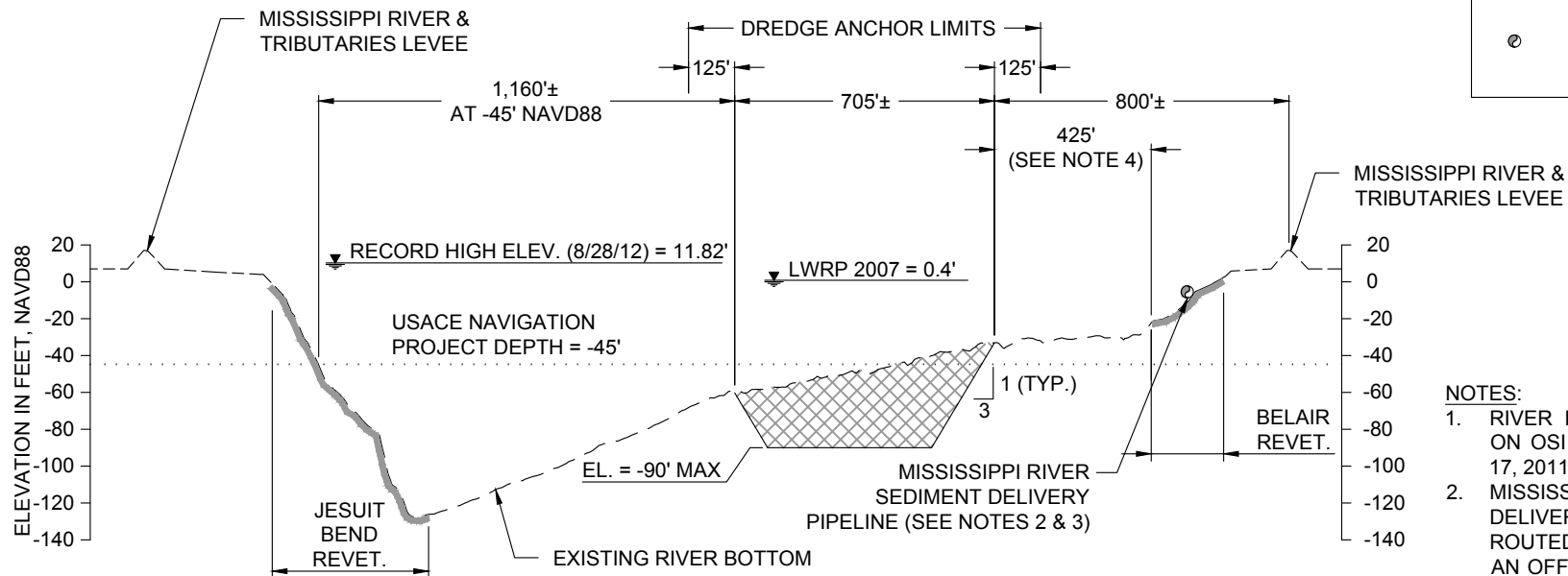
WILLS POINT BORROW AREA LAYOUT - PERMITTED

DATE: JUNE, 2020

SHEET 6 OF 54

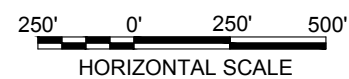
LEGEND

-  PERMITTED BORROW AREA SECTION
-  AUGUST 2011 SURVEY
-  EXISTING REVETMENT
-  SEDIMENT DELIVERY PIPELINE



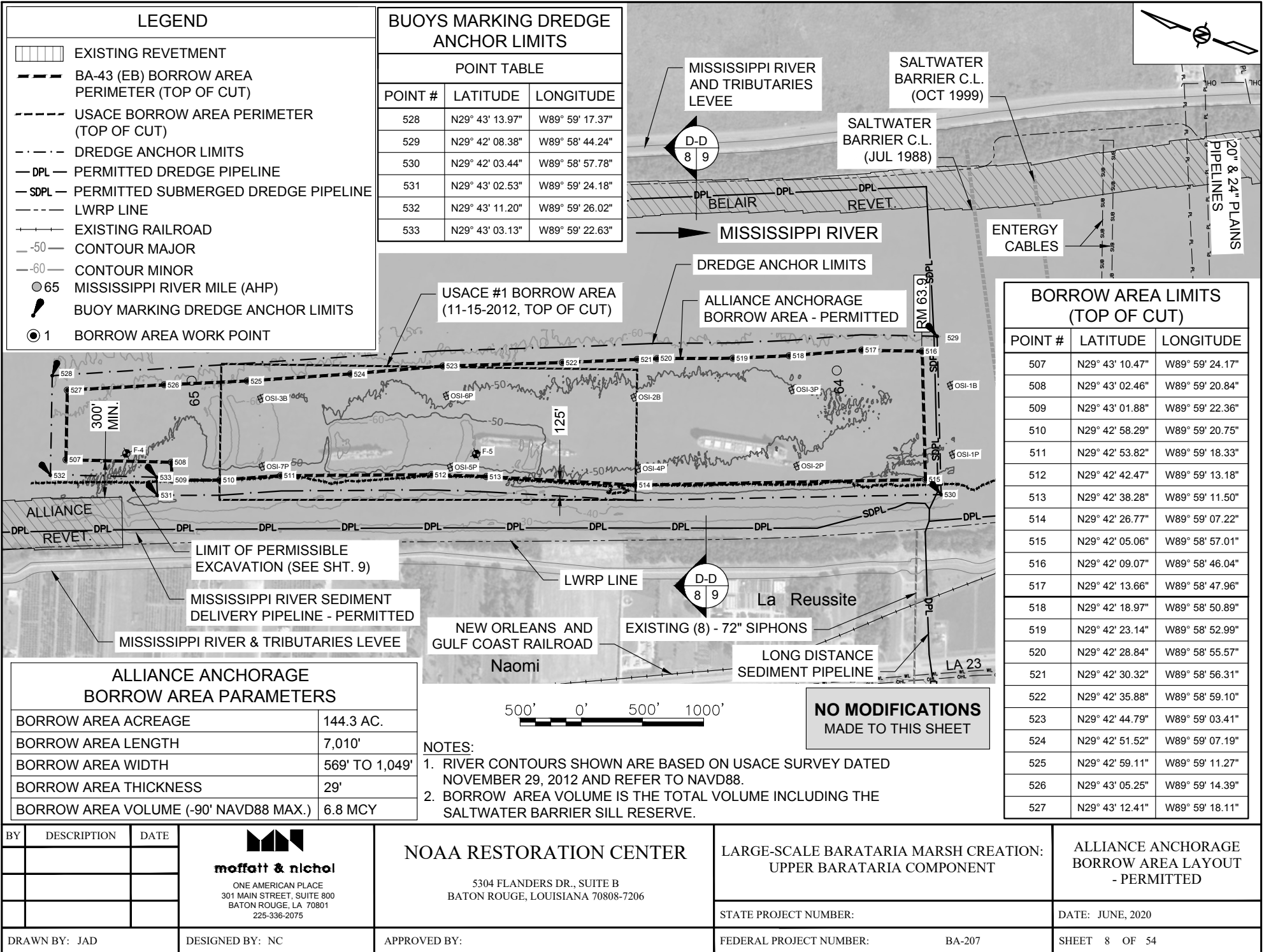
- NOTES:**
1. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE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

C-C
6
TYPICAL WILLS POINT SECTION - PERMITTED
RIVER MILE 66.7



**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL WILLS POINT SECTION - PERMITTED	
						STATE PROJECT NUMBER:	DATE: JUNE, 2020
						APPROVED BY:	FEDERAL PROJECT NUMBER: BA-207
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:			



LEGEND

BUOYS MARKING DREDGE ANCHOR LIMITS

POINT TABLE		
POINT #	LATITUDE	LONGITUDE
528	N29° 43' 13.97"	W89° 59' 17.37"
529	N29° 42' 08.38"	W89° 58' 44.24"
530	N29° 42' 03.44"	W89° 58' 57.78"
531	N29° 43' 02.53"	W89° 59' 24.18"
532	N29° 43' 11.20"	W89° 59' 26.02"
533	N29° 43' 03.13"	W89° 59' 22.63"

BORROW AREA LIMITS (TOP OF CUT)

POINT #	LATITUDE	LONGITUDE
507	N29° 43' 10.47"	W89° 59' 24.17"
508	N29° 43' 02.46"	W89° 59' 20.84"
509	N29° 43' 01.88"	W89° 59' 22.36"
510	N29° 42' 58.29"	W89° 59' 20.75"
511	N29° 42' 53.82"	W89° 59' 18.33"
512	N29° 42' 42.47"	W89° 59' 13.18"
513	N29° 42' 38.28"	W89° 59' 11.50"
514	N29° 42' 26.77"	W89° 59' 07.22"
515	N29° 42' 05.06"	W89° 58' 57.01"
516	N29° 42' 09.07"	W89° 58' 46.04"
517	N29° 42' 13.66"	W89° 58' 47.96"
518	N29° 42' 18.97"	W89° 58' 50.89"
519	N29° 42' 23.14"	W89° 58' 52.99"
520	N29° 42' 28.84"	W89° 58' 55.57"
521	N29° 42' 30.32"	W89° 58' 56.31"
522	N29° 42' 35.88"	W89° 58' 59.10"
523	N29° 42' 44.79"	W89° 59' 03.41"
524	N29° 42' 51.52"	W89° 59' 07.19"
525	N29° 42' 59.11"	W89° 59' 11.27"
526	N29° 43' 05.25"	W89° 59' 14.39"
527	N29° 43' 12.41"	W89° 59' 18.11"

ALLIANCE ANCHORAGE BORROW AREA PARAMETERS

BORROW AREA ACREAGE	144.3 AC.
BORROW AREA LENGTH	7,010'
BORROW AREA WIDTH	569' TO 1,049'
BORROW AREA THICKNESS	29'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	6.8 MCY

- NOTES:**
1. RIVER CONTOURS SHOWN ARE BASED ON USACE SURVEY DATED NOVEMBER 29, 2012 AND REFER TO NAVD88.
 2. BORROW AREA VOLUME IS THE TOTAL VOLUME INCLUDING THE SALTWATER BARRIER SILL RESERVE.

BY	DESCRIPTION	DATE

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 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
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 225-336-2075

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 5304 FLANDERS DR., SUITE B
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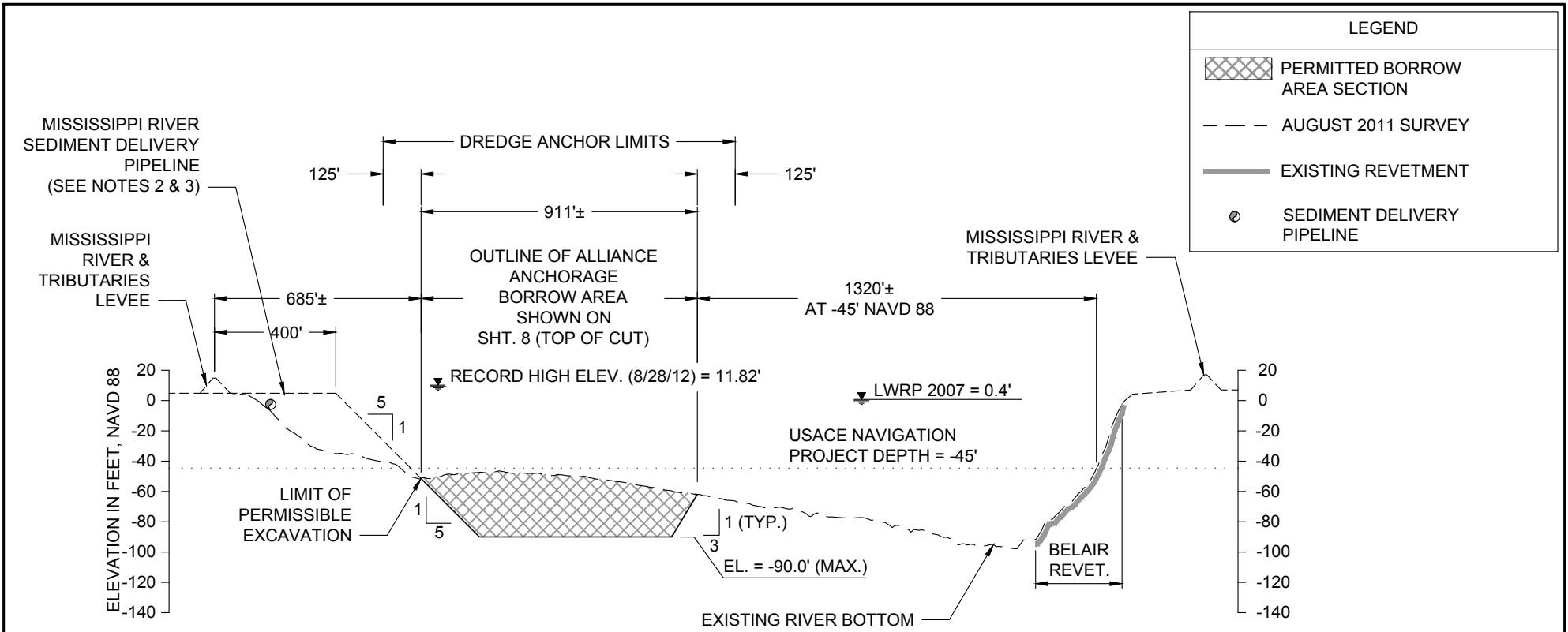
DESIGNED BY: NC
 APPROVED BY:

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**ALLIANCE ANCHORAGE
 BORROW AREA LAYOUT
 - PERMITTED**

DATE: JUNE, 2020
 SHEET 8 OF 54

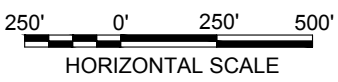
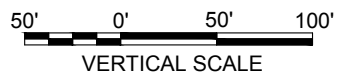


LEGEND	
	PERMITTED BORROW AREA SECTION
	AUGUST 2011 SURVEY
	EXISTING REVETMENT
	SEDIMENT DELIVERY PIPELINE

D-D TYPICAL ALLIANCE ANCHORAGE SECTION - PERMITTED
 8 RIVER MILE 64.3

NO MODIFICATIONS
 MADE TO THIS SHEET

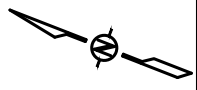
- NOTES:**
- RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 - MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 - SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 - MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF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



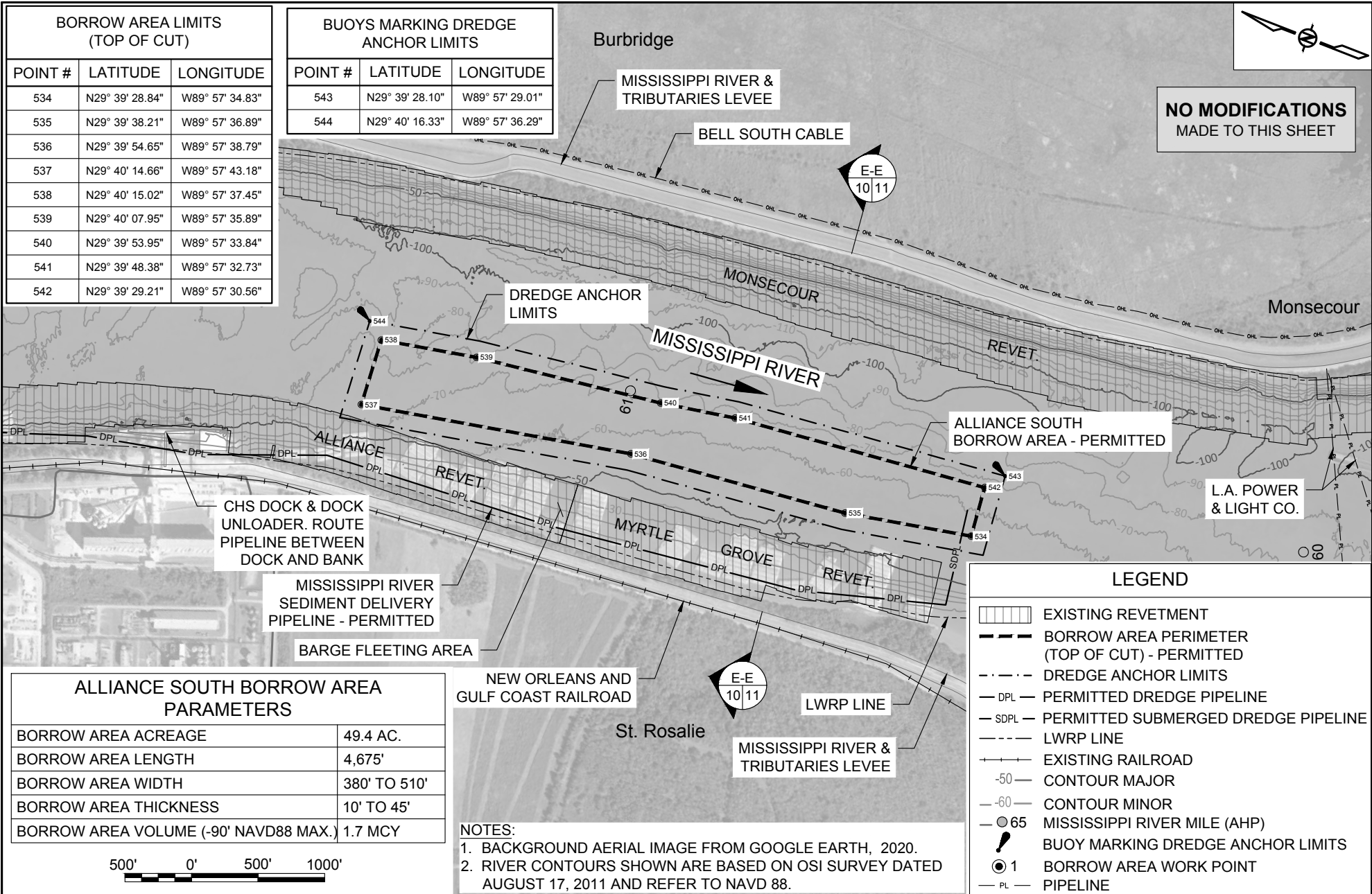
BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL ALLIANCE ANCHORAGE SECTION - PERMITTED	
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					STATE PROJECT NUMBER:
					FEDERAL PROJECT NUMBER:	BA-207	SHEET 9 OF 54

BORROW AREA LIMITS (TOP OF CUT)		
POINT #	LATITUDE	LONGITUDE
534	N29° 39' 28.84"	W89° 57' 34.83"
535	N29° 39' 38.21"	W89° 57' 36.89"
536	N29° 39' 54.65"	W89° 57' 38.79"
537	N29° 40' 14.66"	W89° 57' 43.18"
538	N29° 40' 15.02"	W89° 57' 37.45"
539	N29° 40' 07.95"	W89° 57' 35.89"
540	N29° 39' 53.95"	W89° 57' 33.84"
541	N29° 39' 48.38"	W89° 57' 32.73"
542	N29° 39' 29.21"	W89° 57' 30.56"

BUOYS MARKING DREDGE ANCHOR LIMITS		
POINT #	LATITUDE	LONGITUDE
543	N29° 39' 28.10"	W89° 57' 29.01"
544	N29° 40' 16.33"	W89° 57' 36.29"



**NO MODIFICATIONS
MADE TO THIS SHEET**







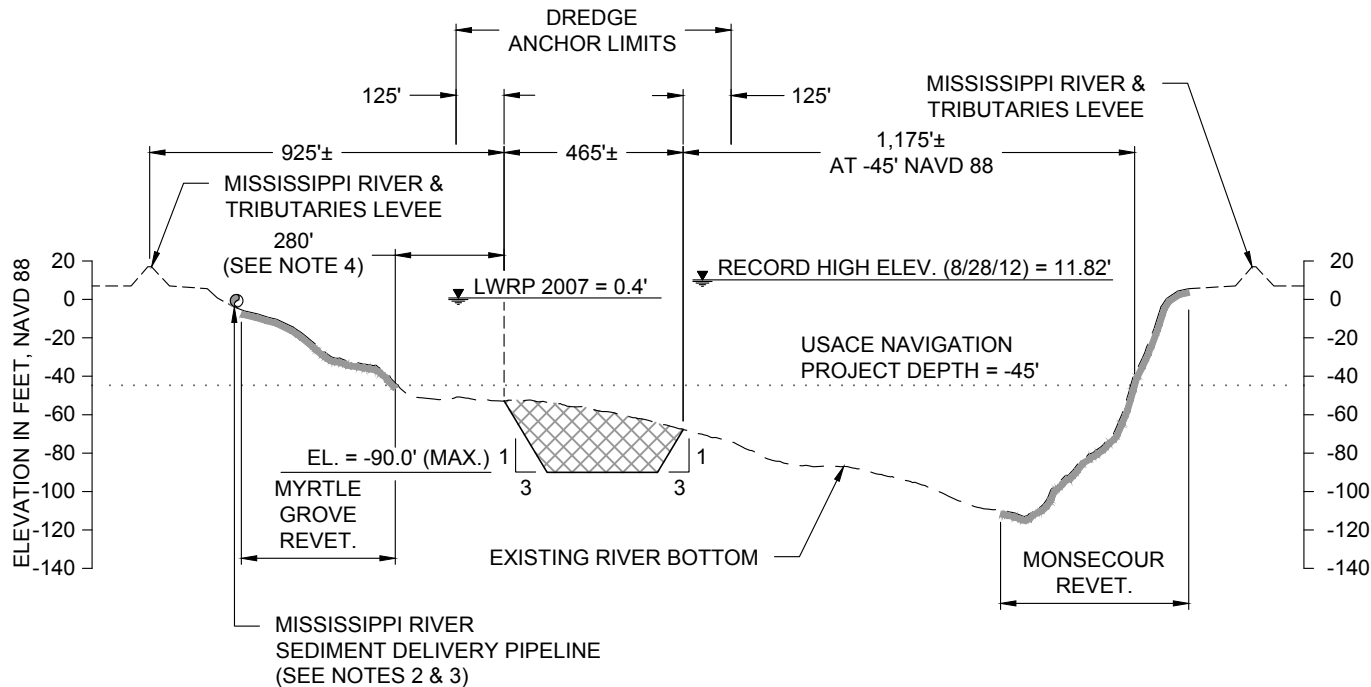
ALLIANCE SOUTH BORROW AREA PARAMETERS	
BORROW AREA ACREAGE	49.4 AC.
BORROW AREA LENGTH	4,675'
BORROW AREA WIDTH	380' TO 510'
BORROW AREA THICKNESS	10' TO 45'
BORROW AREA VOLUME (-90' NAVD88 MAX.)	1.7 MCY

LEGEND	
	EXISTING REVETMENT
	BORROW AREA PERIMETER (TOP OF CUT) - PERMITTED
	DREDGE ANCHOR LIMITS
	PERMITTED DREDGE PIPELINE
	PERMITTED SUBMERGED DREDGE PIPELINE
	LWRP LINE
	EXISTING RAILROAD
	CONTOUR MAJOR
	CONTOUR MINOR
	MISSISSIPPI RIVER MILE (AHP)
	BUOY MARKING DREDGE ANCHOR LIMITS
	BORROW AREA WORK POINT
	PIPELINE

NOTES:
 1. BACKGROUND AERIAL IMAGE FROM GOOGLE EARTH, 2020.
 2. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD 88.

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	ALLIANCE SOUTH BORROW AREA LAYOUT - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:				
					FEDERAL PROJECT NUMBER:	BA-207

LEGEND	
	PERMITTED BORROW AREA SECTION
	AUGUST 2011 SURVEY
	EXISTING REVETMENT
	SEDIMENT DELIVERY PIPELINE



NOTES:

1. RIVER BOTTOM PROFILE 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. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF MYRTLE GROVE REVETMENT VARIES FROM 110 TO 340 FEET.

E-E
10 **TYPICAL ALLIANCE SOUTH SECTION - PERMITTED**
RIVER MILE 60.7



NO MODIFICATIONS
MADE TO THIS SHEET

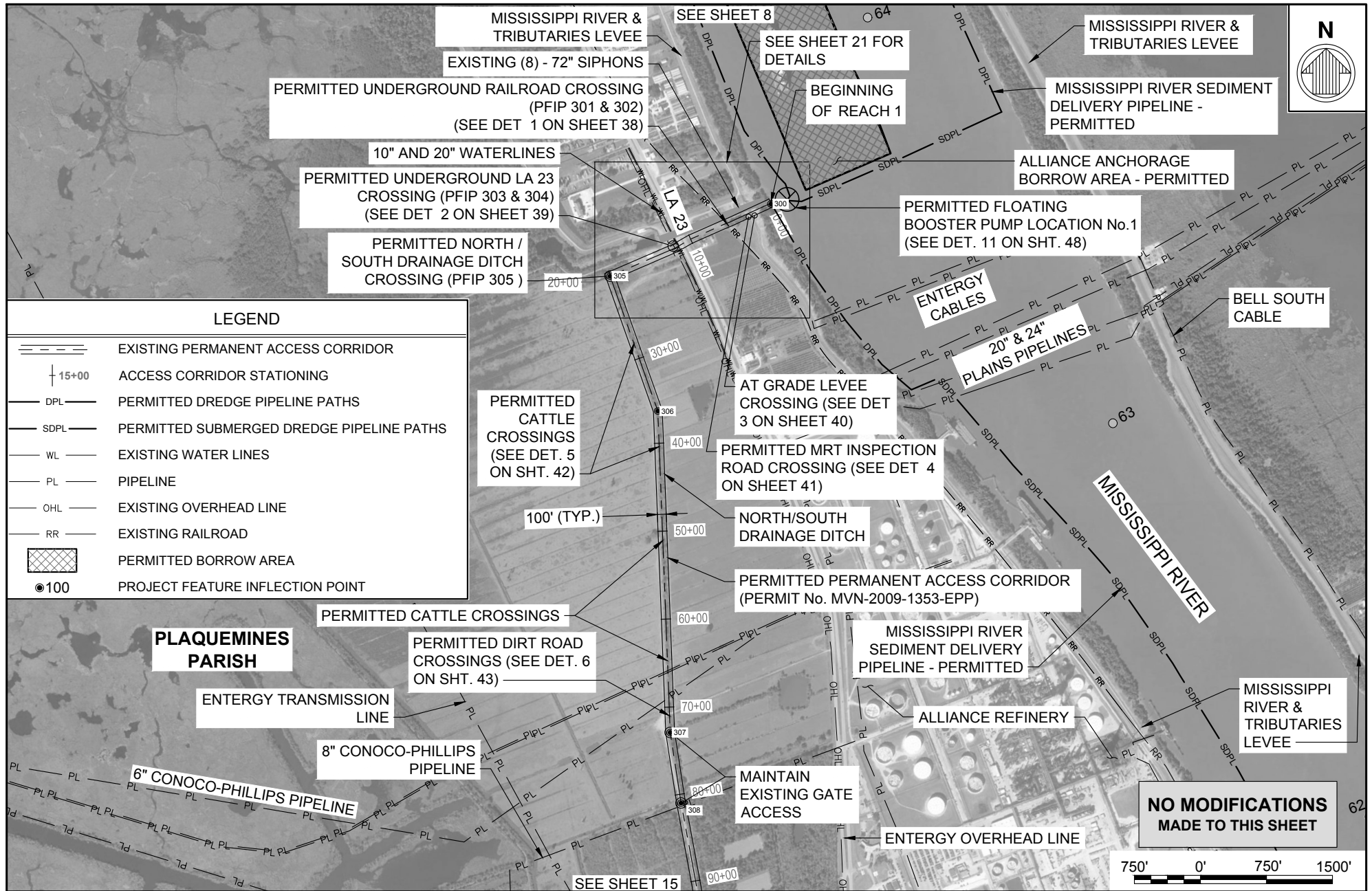
BY:	DESCRIPTION:	DATE:	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL ALLIANCE SOUTH SECTION - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:				
					FEDERAL PROJECT NUMBER:	BA-207

OMITTED SHEET 12 OF 54

BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	MYRTLE GROVE BORROW AREA LAYOUT - OMITTED		
							FEDERAL PROJECT NUMBER:	BA-207
DRAWN BY: JAD		DESIGNED BY: NC			APPROVED BY:			SHEET 12 OF 54

OMITTED SHEET 13 OF 54

BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT		MYRTLE GROVE BORROW AREA TYPICAL SECTION - OMITTED	
					5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:		DATE: JUNE, 2020
					APPROVED BY:		FEDERAL PROJECT NUMBER:	BA-207	SHEET 13 OF 54
DRAWN BY: JAD				DESIGNED BY: NC					



BY	DESCRIPTION	DATE


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 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

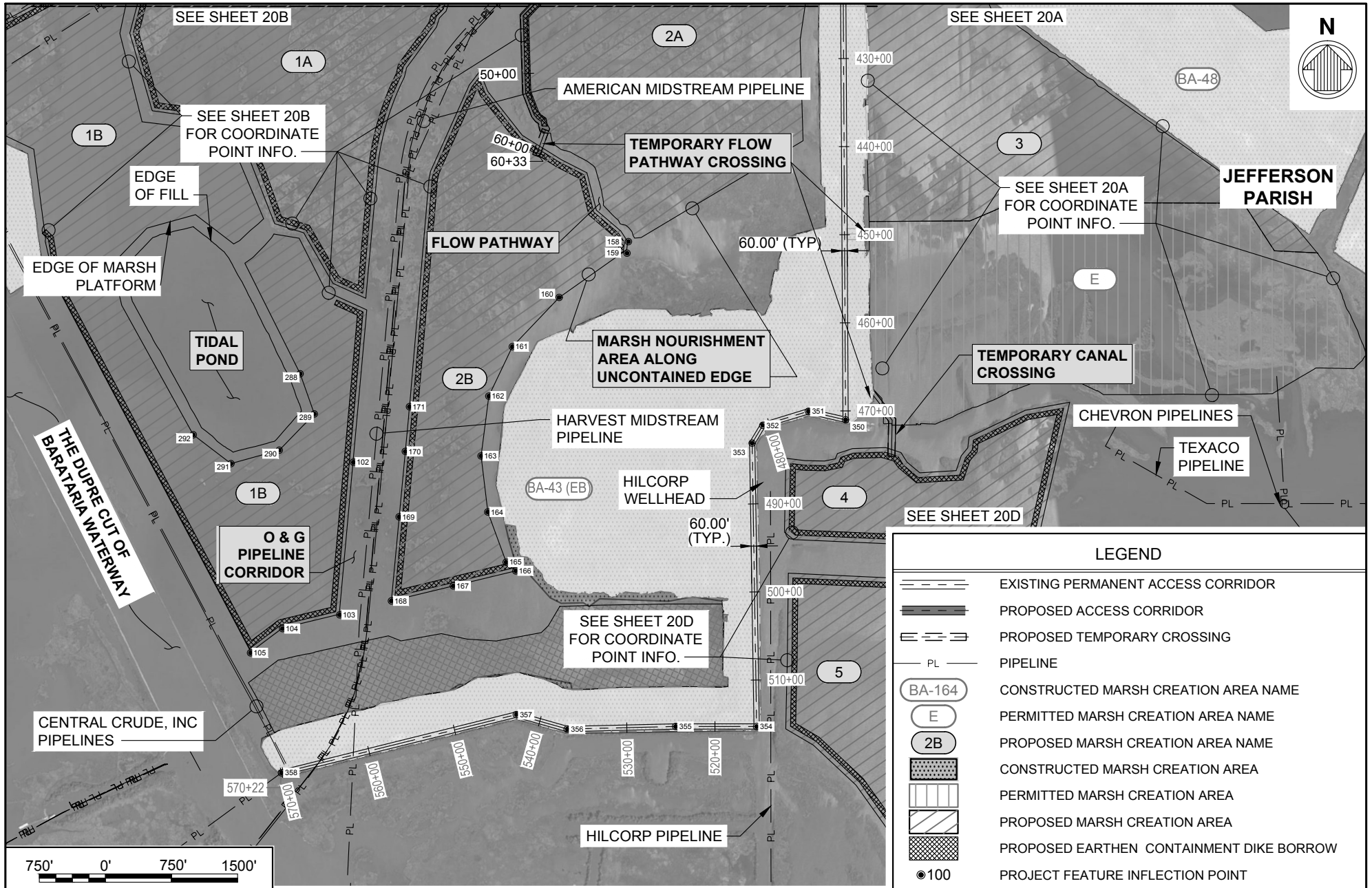
STATE PROJECT NUMBER: _____

FEDERAL PROJECT NUMBER: BA-207

**PERMANENT ACCESS
 CORRIDOR LAYOUT
 (SHEET 1 OF 4) -
 PERMITTED**

DATE: JUNE, 2020

SHEET 14 OF 54



BY	DESCRIPTION	DATE

moffatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
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 225-336-2075

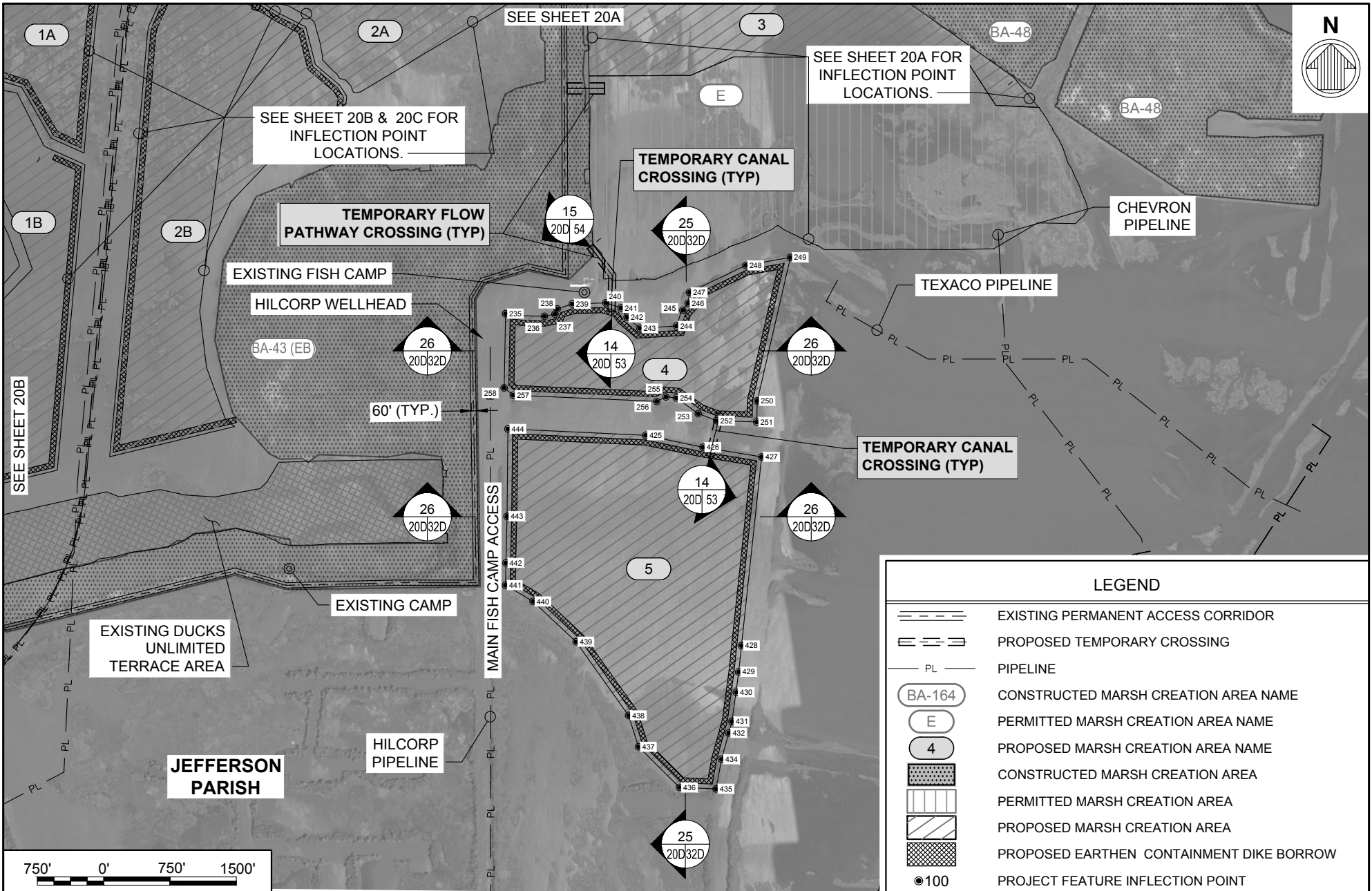
NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**MARSH CREATION
 AREAS - 1B & 2B -
 PROPOSED**

DATE: JUNE, 2020
 SHEET 20C OF 54



BY	DESCRIPTION	DATE

moffatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

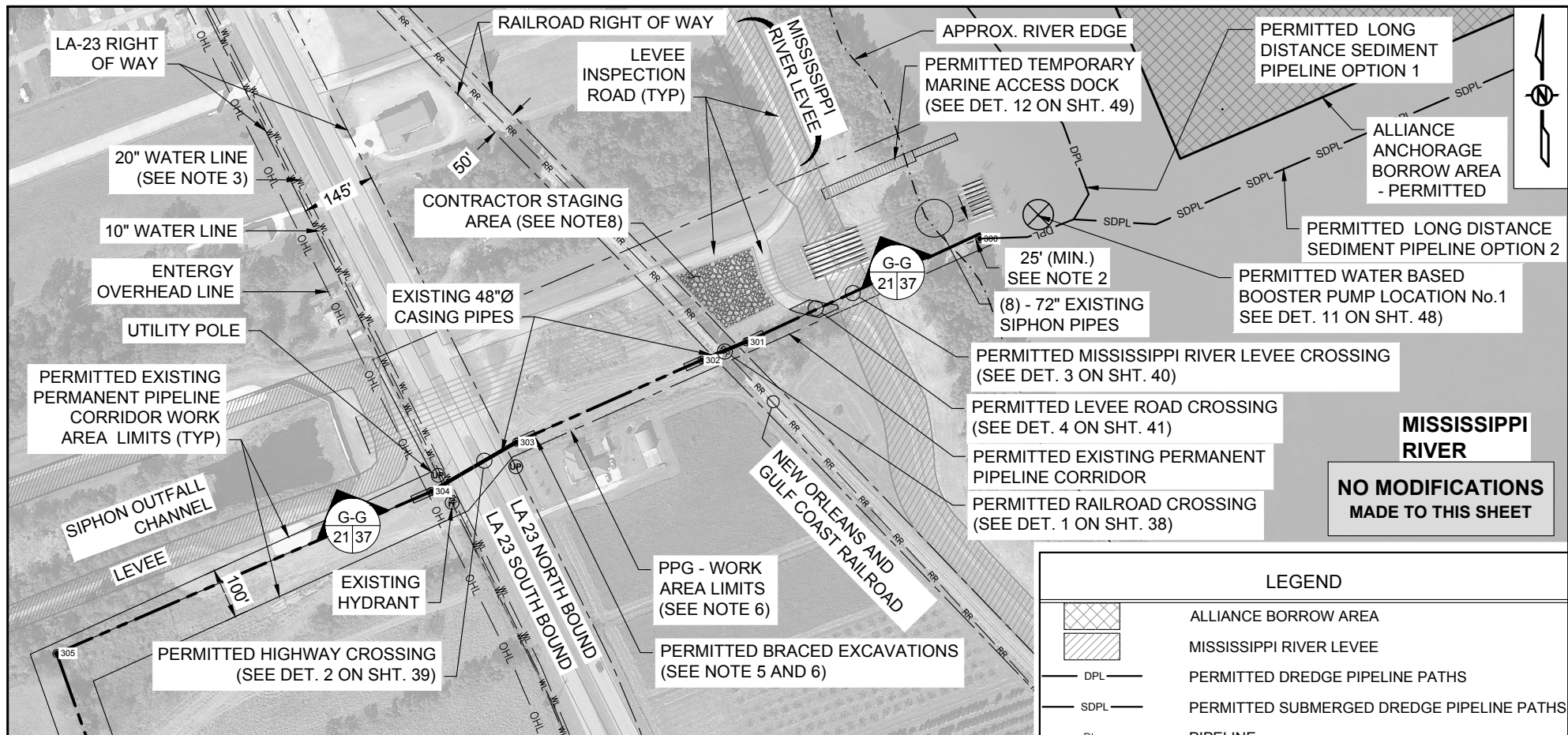
NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**MARSH CREATION
 AREAS - 4 & 5 -
 PROPOSED**

DATE: JUNE, 2020
 SHEET 20D OF 54



- NOTES:**
1. BACKGROUND AERIAL IMAGE GOOGLE EARTH IMAGERY, DATED 2019.
 2. 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.
 3. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 4. REFER TO SHEETS 37 TO 41 FOR ALL CROSSING DETAIL INFORMATION.
 5. PLAQUEMINES PARISH GOVERNMENT (PPG) PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES.
 6. TEMPORARY STOCKPILED MATERIAL FROM BRACED EXCAVATIONS SHALL BE PLACED WITHIN PLAQUEMINES PARISH GOVERNMENT (PPG) WORK AREA LIMITS. A TEMPORARY MARINE ACCESS DOCK SHALL BE PLACED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED DURING THE CONSTRUCTION OF THIS PROJECT. THIS TEMPORARY DOCK SHALL BE REMOVED ONCE THE CONSTRUCTION OF THIS PROJECT HAS BEEN COMPLETED.
 7. CONTRACTOR TO COORDINATE WITH PPG REGARDING USE OF THEIR PROPERTY FOR STAGING AREA.
 8. TEMPORARY ACCESS DOCK SHALL NOT DAMAGE EXISTING REVETMENT.

LEGEND

	ALLIANCE BORROW AREA
	MISSISSIPPI RIVER LEVEE
	PERMITTED DREDGE PIPELINE PATHS
	PERMITTED SUBMERGED DREDGE PIPELINE PATHS
	PIPELINE
	APPROXIMATE RIVER EDGE
	PROPERTY LINE
	CONSTRUCTION LIMITS
	RAILROAD
	EXISTING WATERLINE
	EXISTING OVERHEAD LINE
	PROJECT FEATURE INFLECTION POINT

MISSISSIPPI RIVER

NO MODIFICATIONS MADE TO THIS SHEET

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	PIPELINE CORRIDOR - DETAIL A - PERMITTED
					STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD			DESIGNED BY: NC		APPROVED BY:	
					FEDERAL PROJECT NUMBER: BA-207	SHEET 21 OF 54

EXISTING PERMANENT ACCESS CORRIDOR - CONSTRUCTED / PERMITTED					
POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE
300	N29° 42' 03.55"	W89° 59' 01.44"	331	N29° 38' 57.33"	W90° 01' 40.53"
301	N29° 42' 01.58"	W89° 59' 06.71"	332	N29° 38' 55.85"	W90° 01' 46.47"
302	N29° 42' 01.24"	W89° 59' 07.71"	333	N29° 38' 55.39"	W90° 01' 52.52"
303	N29° 41' 59.67"	W89° 59' 11.90"	334	N29° 38' 55.40"	W90° 02' 00.71"
304	N29° 41' 58.73"	W89° 59' 13.82"	335	N29° 38' 54.26"	W90° 02' 05.00"
305	N29° 41' 55.64"	W89° 59' 22.27"	336	N29° 38' 51.24"	W90° 02' 06.67"
306	N29° 41' 40.40"	W89° 59' 16.32"	337	N29° 38' 48.03"	W90° 02' 07.20"
307	N29° 41' 04.23"	W89° 59' 15.22"	338	N29° 38' 45.29"	W90° 02' 08.26"
308	N29° 40' 56.28"	W89° 59' 13.92"	339	N29° 38' 43.58"	W90° 02' 11.97"
309	N29° 40' 16.32"	W89° 59' 06.00"	340	N29° 38' 42.10"	W90° 02' 15.78"
310	N29° 40' 05.58"	W89° 59' 04.03"	341	N29° 38' 37.05"	W90° 02' 25.47"
311	N29° 40' 00.10"	W89° 58' 59.20"	342	N29° 38' 36.71"	W90° 02' 26.07"
312	N29° 39' 27.63"	W90° 00' 36.45"	343	N29° 38' 33.02"	W90° 02' 32.02"
313	N29° 39' 26.32"	W90° 00' 40.52"	344	N29° 38' 29.70"	W90° 02' 36.66"
314	N29° 39' 25.26"	W90° 00' 42.84"	345	N29° 38' 23.16"	W90° 02' 45.01"
315	N29° 39' 21.00"	W90° 00' 44.18"	346	N29° 38' 17.99"	W90° 02' 48.83"
316	N29° 39' 20.08"	W90° 00' 45.51"	347	N29° 38' 08.30"	W90° 02' 52.14"
317	N29° 39' 19.67"	W90° 00' 47.36"	348	N29° 38' 03.70"	W90° 02' 54.05"
318	N29° 39' 18.35"	W90° 00' 51.73"	349	N29° 37' 47.94"	W90° 03' 03.37"
319	N29° 39' 13.49"	W90° 00' 59.89"	350	N29° 36' 48.43"	W90° 03' 03.76"
320	N29° 39' 11.57"	W90° 01' 06.43"	351	N29° 36' 49.44"	W90° 03' 08.53"
321	N29° 39' 11.17"	W90° 01' 09.43"	352	N29° 36' 47.92"	W90° 03' 14.40"
322	N29° 39' 11.71"	W90° 01' 13.41"	353	N29° 36' 45.93"	W90° 03' 15.80"
323	N29° 39' 12.07"	W90° 01' 16.15"	354	N29° 36' 14.08"	W90° 03' 15.64"
324	N29° 39' 12.08"	W90° 01' 19.20"	355	N29° 36' 14.19"	W90° 03' 26.04"
325	N29° 39' 10.50"	W90° 01' 23.40"	356	N29° 36' 14.03"	W90° 03' 39.98"
326	N29° 39' 09.03"	W90° 01' 25.46"	357	N29° 36' 15.72"	W90° 03' 46.51"
327	N29° 39' 06.93"	W90° 01' 27.77"	358	N29° 36' 09.48"	W90° 04' 16.78"
328	N29° 39' 03.93"	W90° 01' 29.37"			
329	N29° 39' 01.91"	W90° 01' 32.67"			
330	N29° 38' 59.09"	W90° 01' 36.77"			

BA-164 ACCESS CORRIDOR - CONSTRUCTED / PERMITTED		
POINT #	LATITUDE	LONGITUDE
359	N29° 38' 58.00"	W90° 01' 29.19"
360	N29° 38' 50.66"	W90° 01' 24.05"
361	N29° 38' 47.94"	W90° 01' 27.13"
362	N29° 38' 46.80"	W90° 01' 26.66"
363	N29° 38' 46.36"	W90° 01' 25.18"
364	N29° 38' 47.48"	W90° 01' 22.49"
365	N29° 38' 47.19"	W90° 01' 21.45"
366	N29° 38' 45.66"	W90° 01' 19.88"
367	N29° 38' 44.40"	W90° 01' 17.03"
368	N29° 38' 42.94"	W90° 01' 09.52"
369	N29° 38' 42.30"	W90° 01' 06.84"
370	N29° 38' 41.04"	W90° 00' 50.28"

BA-164 AREA C EARTHEN TERRACES CENTERLINE - PERMITTED		
POINT #	LATITUDE	LONGITUDE
382	N29° 38' 23.89"	W89° 59' 12.84"
383	N29° 38' 17.65"	W89° 59' 11.91"
384	N29° 38' 06.75"	W89° 59' 10.29"
385	N29° 38' 27.23"	W89° 59' 09.90"
386	N29° 38' 21.09"	W89° 59' 08.99"
387	N29° 38' 18.03"	W89° 59' 08.54"
388	N29° 38' 07.14"	W89° 59' 06.92"
389	N29° 38' 27.29"	W89° 59' 06.48"
390	N29° 38' 18.28"	W89° 59' 05.15"
391	N29° 38' 07.52"	W89° 59' 03.55"
392	N29° 38' 27.33"	W89° 59' 03.06"
393	N29° 38' 15.48"	W89° 59' 01.30"
394	N29° 38' 07.90"	W89° 59' 00.18"
395	N29° 38' 22.41"	W89° 58' 58.90"
396	N29° 38' 12.67"	W89° 58' 57.46"
397	N29° 38' 08.28"	W89° 58' 56.80"
398	N29° 38' 03.83"	W89° 58' 56.08"
399	N29° 38' 09.87"	W89° 58' 53.61"

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PROJECT ALIGNMENT TABLES - PERMITTED </div>		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
						APPROVED BY:	FEDERAL PROJECT NUMBER: BA-207	SHEET 22A OF 54
DRAWN BY: JAD					DESIGNED BY: NC			

FLOTATION ACCESS CHANNEL - PERMITTED		
POINT #	LATITUDE	LONGITUDE
50	N29° 38' 34.63"	W90° 05' 44.88"
51	N29° 38' 36.74"	W90° 05' 39.92"
52	N29° 38' 36.32"	W90° 05' 37.88"
53	N29° 38' 34.42"	W90° 05' 36.16"
54	N29° 38' 33.39"	W90° 05' 35.00"
55	N29° 38' 29.90"	W90° 05' 22.52"
56	N29° 38' 29.88"	W90° 05' 19.47"
57	N29° 38' 31.36"	W90° 05' 18.08"
58	N29° 38' 34.35"	W90° 05' 16.55"
59	N29° 38' 36.13"	W90° 05' 13.04"
60	N29° 38' 36.86"	W90° 05' 05.63"
61	N29° 38' 34.72"	W90° 04' 54.76"
62	N29° 38' 33.02"	W90° 04' 49.12"
63	N29° 38' 25.95"	W90° 04' 37.62"
64	N29° 38' 19.42"	W90° 04' 32.39"
65	N29° 38' 15.21"	W90° 04' 24.55"
66	N29° 38' 13.01"	W90° 04' 16.26"
67	N29° 38' 10.62"	W90° 04' 10.94"
68	N29° 38' 00.69"	W90° 03' 57.65"
69	N29° 37' 59.04"	W90° 03' 54.92"
70	N29° 37' 58.28"	W90° 03' 52.16"
71	N29° 37' 59.97"	W90° 03' 42.28"
72	N29° 37' 59.35"	W90° 03' 40.15"
73	N29° 37' 58.15"	W90° 03' 38.50"
74	N29° 37' 55.97"	W90° 03' 36.58"
75	N29° 37' 54.82"	W90° 03' 34.40"
76	N29° 37' 52.81"	W90° 03' 24.03"
77	N29° 37' 52.96"	W90° 03' 16.30"
78	N29° 37' 53.59"	W90° 03' 10.49"
79	N29° 37' 54.37"	W90° 03' 09.52"

POINT #	LATITUDE	LONGITUDE
80	N29° 37' 57.40"	W90° 03' 08.20"
81	N29° 37' 59.31"	W90° 03' 06.94"
82	N29° 38' 01.51"	W90° 03' 04.37"
83	N29° 38' 06.00"	W90° 02' 59.87"
84	N29° 38' 06.76"	W90° 02' 58.69"
85	N29° 38' 06.52"	W90° 02' 56.51"
86	N29° 38' 05.87"	W90° 02' 53.68"

EXISTING CASING PIPE ENDS - PERMITTED		
POINT #	LATITUDE	LONGITUDE
301	N29° 42' 01.58"	W89° 59' 06.71"
302	N29° 42' 01.24"	W89° 59' 07.71"
303	N29° 41' 59.67"	W89° 59' 11.90"
304	N29° 41' 58.73"	W89° 59' 13.82"

LAND BASED BOOSTER PUMP LOCATION (OPTION NO.2) - PERMITTED		
POINT #	LATITUDE	LONGITUDE
400	N29° 39' 57.76"	W89° 59' 12.50"
401	N29° 39' 58.83"	W89° 59' 09.33"
402	N29° 39' 57.45"	W89° 59' 08.71"
403	N29° 39' 56.38"	W89° 59' 11.89"

LAND BASED BOOSTER PUMP LOCATION (OPTION NO.3) - PERMITTED		
POINT #	LATITUDE	LONGITUDE
500	N29° 39' 29.18"	W90° 00' 36.52"
501	N29° 39' 30.78"	W90° 00' 31.76"
502	N29° 39' 29.86"	W90° 00' 31.35"
503	N29° 39' 28.49"	W90° 00' 35.40"

MARSH CREATION AREA 'D' - PERMITTED		
POINT #	LATITUDE	LONGITUDE
700	N29° 38' 35.06"	W90° 02' 20.76"
701	N29° 38' 31.52"	W90° 02' 20.98"
702	N29° 38' 29.13"	W90° 02' 18.84"
703	N29° 38' 28.00"	W90° 02' 09.34"
704	N29° 38' 28.78"	W90° 02' 07.36"
705	N29° 38' 28.50"	W90° 02' 06.04"
706	N29° 38' 26.67"	W90° 02' 06.05"
707	N29° 38' 22.27"	W90° 02' 06.90"
708	N29° 38' 16.06"	W90° 02' 04.54"
709	N29° 38' 09.02"	W90° 01' 59.94"
710	N29° 38' 01.00"	W90° 01' 51.22"
711	N29° 38' 01.18"	W90° 01' 46.97"
712	N29° 37' 56.65"	W90° 01' 43.17"
713	N29° 37' 59.21"	W90° 01' 36.07"
714	N29° 37' 56.74"	W90° 01' 33.86"
715	N29° 37' 50.91"	W90° 01' 34.83"
716	N29° 37' 57.51"	W90° 01' 28.51"
717	N29° 38' 06.23"	W90° 01' 19.13"
718	N29° 38' 08.07"	W90° 01' 21.75"
719	N29° 38' 11.99"	W90° 01' 19.15"
720	N29° 38' 20.67"	W90° 01' 09.79"
721	N29° 38' 33.38"	W90° 00' 58.95"
722	N29° 38' 39.50"	W90° 00' 53.20"
723	N29° 38' 40.34"	W90° 00' 54.42"
724	N29° 38' 41.18"	W90° 01' 01.23"
725	N29° 38' 41.08"	W90° 01' 06.96"
726	N29° 38' 41.52"	W90° 01' 09.82"
727	N29° 38' 42.49"	W90° 01' 12.50"
728	N29° 38' 43.29"	W90° 01' 19.18"
729	N29° 38' 45.68"	W90° 01' 23.32"

POINT #	LATITUDE	LONGITUDE
730	N29° 38' 44.98"	W90° 01' 24.74"
731	N29° 38' 45.04"	W90° 01' 27.13"
732	N29° 38' 47.15"	W90° 01' 29.03"
733	N29° 38' 51.02"	W90° 01' 26.53"
734	N29° 38' 59.36"	W90° 01' 32.58"

NOTE:
MCA 'D' - PROJECT FEATURE INFLECTION POINTS EDITED TO ALIGN WITH PERIMETER AS-BUILT SURVEYS OF BA-43(EB) AND BA-48 CONSTRUCTED PROJECTS.

MARSH CREATION AREA 'E' - PERMITTED		
POINT #	LATITUDE	LONGITUDE
207	N29° 37' 06.72"	W90° 02' 08.50"
208	N29° 37' 06.55"	W90° 02' 02.91"
209	N29° 37' 02.46"	W90° 02' 00.46"
210	N29° 36' 54.84"	W90° 01' 57.13"
211	N29° 36' 53.63"	W90° 01' 58.38"
212	N29° 36' 53.67"	W90° 02' 03.20"
213	N29° 36' 50.83"	W90° 02' 08.83"
214	N29° 36' 50.94"	W90° 02' 30.53"
215	N29° 36' 53.72"	W90° 02' 36.50"
216	N29° 36' 47.84"	W90° 02' 52.22"
217	N29° 36' 47.77"	W90° 02' 57.27"
218	N29° 36' 50.54"	W90° 02' 59.05"
219	N29° 37' 10.68"	W90° 02' 58.57"
220	N29° 37' 10.62"	W90° 02' 47.48"
221	N29° 37' 12.64"	W90° 02' 41.90"
222	N29° 37' 12.27"	W90° 02' 12.30"

NOTE:
FLOTATION ACCESS CHANNEL PROJECT FEATURE INFLECTION POINTS MODIFIED TO FOLLOW EXISTING SOUTHERN SHORELINE OF THE PEN.

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PROJECT ALIGNMENT TABLES - PERMITTED </div>		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					FEDERAL PROJECT NUMBER: BA-207	SHEET 22B OF 54

PROPOSED MARSH CREATION AREA '1A'					
POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE
1	N29° 37' 42.96"	W90° 04' 32.12"	31	N29° 37' 26.58"	W90° 04' 00.44"
2	N29° 37' 46.74"	W90° 04' 23.87"	32	N29° 37' 22.75"	W90° 04' 02.15"
3	N29° 37' 50.51"	W90° 04' 15.62"	33	N29° 37' 17.74"	W90° 04' 03.44"
4	N29° 37' 54.28"	W90° 04' 07.37"	34	N29° 37' 11.63"	W90° 04' 04.16"
5	N29° 37' 58.05"	W90° 03' 59.12"	35	N29° 37' 02.59"	W90° 04' 05.21"
6	N29° 37' 57.63"	W90° 03' 57.82"	36	N29° 37' 04.35"	W90° 04' 09.52"
7	N29° 37' 56.75"	W90° 03' 55.94"	37	N29° 37' 10.07"	W90° 04' 13.22"
8	N29° 37' 55.77"	W90° 03' 52.87"	38	N29° 37' 11.13"	W90° 04' 16.93"
9	N29° 37' 55.59"	W90° 03' 50.58"	39	N29° 37' 16.86"	W90° 04' 19.15"
10	N29° 37' 56.59"	W90° 03' 44.75"	40	N29° 37' 22.60"	W90° 04' 21.88"
11	N29° 37' 57.20"	W90° 03' 43.37"	41	N29° 37' 23.96"	W90° 04' 32.52"
12	N29° 37' 57.23"	W90° 03' 41.85"	42	N29° 37' 32.77"	W90° 04' 35.32"
13	N29° 37' 56.62"	W90° 03' 40.93"	812	N29° 37' 55.81"	W90° 04' 03.46"
14	N29° 37' 55.50"	W90° 03' 40.22"	813	N29° 37' 40.48"	W90° 04' 16.15"
15	N29° 37' 53.76"	W90° 03' 38.88"	814	N29° 37' 50.14"	W90° 03' 52.47"
16	N29° 37' 53.12"	W90° 03' 37.15"	815	N29° 37' 27.97"	W90° 04' 27.18"
17	N29° 37' 52.80"	W90° 03' 37.12"	816	N29° 37' 18.60"	W90° 04' 07.18"
18	N29° 37' 47.88"	W90° 03' 41.83"	817	N29° 37' 45.59"	W90° 04' 26.24"
19	N29° 37' 46.16"	W90° 03' 42.77"	818	N29° 37' 39.92"	W90° 04' 01.38"
20	N29° 37' 45.40"	W90° 03' 43.61"			
21	N29° 37' 44.87"	W90° 03' 44.67"			
22	N29° 37' 44.84"	W90° 03' 45.50"			
23	N29° 37' 40.90"	W90° 03' 50.83"			
24	N29° 37' 39.60"	W90° 03' 51.67"			
25	N29° 37' 38.66"	W90° 03' 53.28"			
26	N29° 37' 36.78"	W90° 03' 53.74"			
27	N29° 37' 34.83"	W90° 03' 54.47"			
28	N29° 37' 34.05"	W90° 03' 55.35"			
29	N29° 37' 33.05"	W90° 03' 55.73"			
30	N29° 37' 28.52"	W90° 03' 59.63"			

MARSH CREATION AREA '1B'		
POINT #	LATITUDE	LONGITUDE
100	N29° 37' 02.94"	W90° 04' 08.81"
101	N29° 37' 01.42"	W90° 04' 05.09"
102	N29° 36' 44.29"	W90° 04' 07.08"
103	N29° 36' 27.16"	W90° 04' 09.07"
104	N29° 36' 25.68"	W90° 04' 16.43"
105	N29° 36' 22.99"	W90° 04' 20.59"
106	N29° 37' 04.80"	W90° 04' 45.30"
107	N29° 37' 09.47"	W90° 04' 46.47"
108	N29° 37' 10.08"	W90° 04' 47.15"
109	N29° 37' 31.79"	W90° 04' 57.02"
110	N29° 37' 42.34"	W90° 04' 33.48"
111	N29° 37' 38.53"	W90° 04' 34.69"

MARSH CREATION AREA '1B' - TIDAL POND		
POINT #	LATITUDE	LONGITUDE
285	N29° 37' 12.29"	W90° 04' 27.05"
286	N29° 37' 09.00"	W90° 04' 22.24"
287	N29° 37' 06.78"	W90° 04' 20.77"
288	N29° 36' 54.29"	W90° 04' 13.82"
289	N29° 36' 49.75"	W90° 04' 12.05"
290	N29° 36' 45.73"	W90° 04' 16.60"
291	N29° 36' 44.28"	W90° 04' 22.84"
292	N29° 36' 47.56"	W90° 04' 27.65"
293	N29° 37' 02.20"	W90° 04' 36.66"
294	N29° 37' 06.82"	W90° 04' 37.83"
295	N29° 37' 10.84"	W90° 04' 33.29"

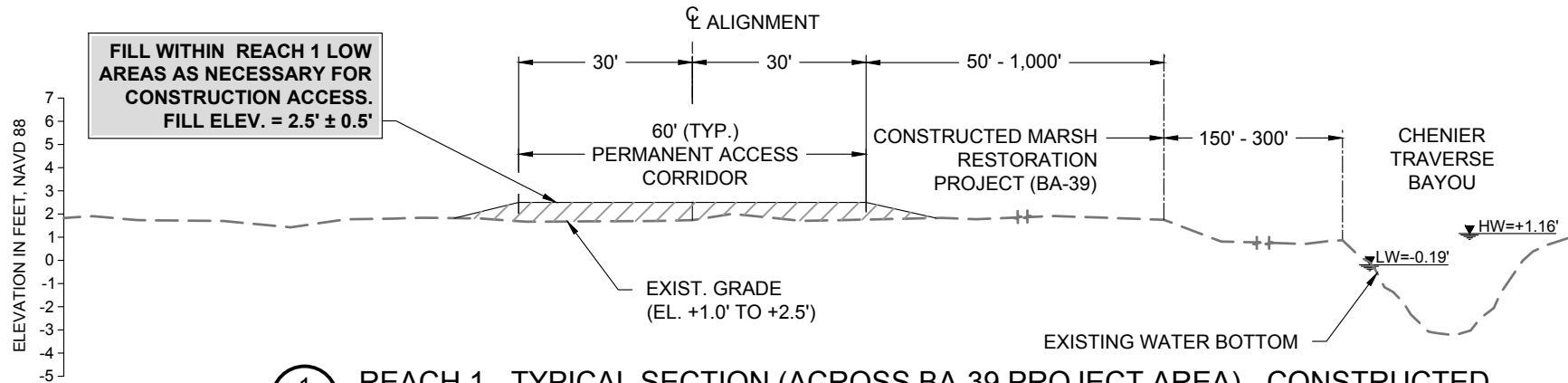
MARSH CREATION AREA '1B' (CONTINUED)		
POINT #	LATITUDE	LONGITUDE
450	N29° 37' 36.19"	W90° 04' 35.64"
451	N29° 37' 32.76"	W90° 04' 36.52"
452	N29° 37' 22.79"	W90° 04' 33.79"
453	N29° 37' 21.53"	W90° 04' 22.88"
454	N29° 37' 11.74"	W90° 04' 18.29"
455	N29° 37' 09.14"	W90° 04' 17.12"
456	N29° 37' 09.51"	W90° 04' 13.76"
457	N29° 37' 03.50"	W90° 04' 10.36"
458	N29° 37' 10.59"	W90° 04' 46.47"
459	N29° 37' 19.85"	W90° 04' 47.75"
460	N29° 37' 21.62"	W90° 04' 51.92"
461	N29° 37' 22.74"	W90° 04' 51.15"
462	N29° 37' 25.34"	W90° 04' 52.79"
463	N29° 37' 25.37"	W90° 04' 54.82"
464	N29° 37' 30.48"	W90° 04' 56.42"

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PROJECT ALIGNMENT TABLES (SHEET 1 OF 2) - PROPOSED </div>		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					FEDERAL PROJECT NUMBER: BA-207	SHEET 23A OF 54

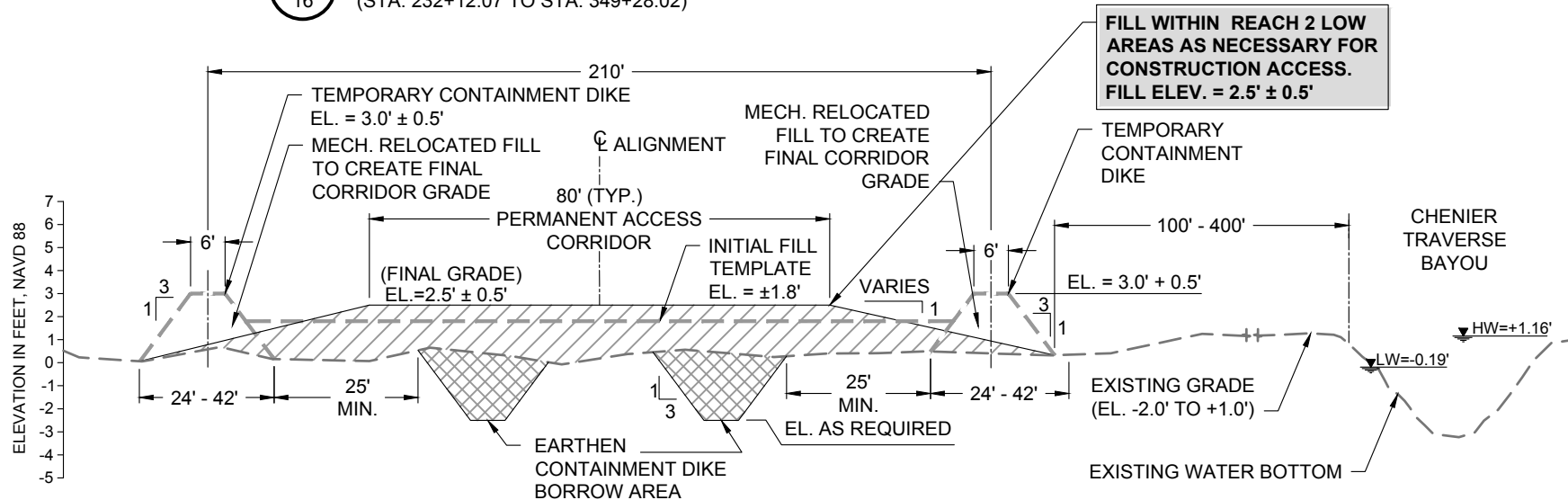
MARSH CREATION AREA '2A'			MARSH CREATION AREA '2B'			MARSH CREATION AREA '3'			MARSH CREATION AREA '4'			MARSH CREATION AREA '5'		
POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE	POINT #	LATITUDE	LONGITUDE
100	N29° 37' 02.94"	W90° 04' 08.81"	150	N29° 37' 28.22"	W90° 03' 50.27"	200	N29° 37' 46.34"	W90° 03' 01.54"	235	N29° 36' 44.18"	W90° 03' 11.49"	425	N29° 36' 30.39"	W90° 02' 53.71"
101	N29° 37' 01.42"	W90° 04' 05.09"	151	N29° 37' 25.83"	W90° 03' 49.21"	201	N29° 37' 24.70"	W90° 02' 29.22"	236	N29° 36' 43.83"	W90° 03' 06.52"	426	N29° 36' 28.98"	W90° 02' 46.40"
102	N29° 36' 44.29"	W90° 04' 07.08"	152	N29° 37' 23.35"	W90° 03' 47.03"	202	N29° 37' 22.96"	W90° 02' 44.81"	237	N29° 36' 44.06"	W90° 03' 05.15"	427	N29° 36' 27.82"	W90° 02' 38.89"
103	N29° 36' 27.16"	W90° 04' 09.07"	153	N29° 37' 20.87"	W90° 03' 44.85"	203	N29° 37' 21.19"	W90° 03' 00.66"	238	N29° 36' 44.65"	W90° 03' 04.86"	428	N29° 36' 06.72"	W90° 02' 41.74"
104	N29° 36' 25.68"	W90° 04' 16.43"	154	N29° 37' 18.12"	W90° 03' 39.94"	204	N29° 37' 28.69"	W90° 03' 00.39"	239	N29° 36' 45.19"	W90° 03' 02.92"	429	N29° 36' 03.78"	W90° 02' 42.13"
105	N29° 36' 22.99"	W90° 04' 20.59"	155	N29° 37' 16.58"	W90° 03' 36.58"	205	N29° 37' 34.01"	W90° 03' 00.71"	240	N29° 36' 45.26"	W90° 02' 58.64"	430	N29° 36' 01.50"	W90° 02' 42.47"
106	N29° 37' 04.80"	W90° 04' 45.30"	156	N29° 37' 12.35"	W90° 03' 35.41"	206	N29° 37' 42.80"	W90° 03' 00.57"	241	N29° 36' 44.68"	W90° 02' 56.68"	431	N29° 35' 58.23"	W90° 02' 43.07"
107	N29° 37' 09.47"	W90° 04' 46.47"	157	N29° 37' 09.98"	W90° 03' 32.30"	831	N29° 37' 41.07"	W90° 02' 57.29"	242	N29° 36' 43.61"	W90° 02' 55.93"	432	N29° 35' 56.96"	W90° 02' 43.49"
108	N29° 37' 10.08"	W90° 04' 47.15"	158	N29° 37' 08.74"	W90° 03' 31.41"	832	N29° 37' 25.76"	W90° 02' 54.50"	243	N29° 36' 42.38"	W90° 02' 54.30"	434	N29° 35' 54.02"	W90° 02' 44.46"
109	N29° 37' 31.79"	W90° 04' 57.02"	159	N29° 37' 07.43"	W90° 03' 31.62"	833	N29° 37' 32.71"	W90° 02' 43.99"	244	N29° 36' 42.58"	W90° 02' 49.61"	435	N29° 35' 50.72"	W90° 02' 45.21"
110	N29° 37' 42.34"	W90° 04' 33.48"	160	N29° 37' 02.54"	W90° 03' 40.40"				246	N29° 36' 45.11"	W90° 02' 48.09"	436	N29° 35' 50.92"	W90° 02' 49.89"
111	N29° 37' 38.53"	W90° 04' 34.69"	161	N29° 36' 57.07"	W90° 03' 46.49"				247	N29° 36' 46.33"	W90° 02' 47.91"	437	N29° 35' 55.52"	W90° 02' 55.08"
			162	N29° 36' 51.54"	W90° 03' 49.60"				248	N29° 36' 49.28"	W90° 02' 40.64"	438	N29° 35' 59.05"	W90° 02' 56.31"
			163	N29° 36' 44.83"	W90° 03' 50.66"				249	N29° 36' 50.12"	W90° 02' 34.92"	439	N29° 36' 07.36"	W90° 03' 02.94"
			164	N29° 36' 38.52"	W90° 03' 49.88"				250	N29° 36' 34.10"	W90° 02' 39.37"	440	N29° 36' 11.93"	W90° 03' 08.38"
			165	N29° 36' 32.85"	W90° 03' 47.59"				251	N29° 36' 31.74"	W90° 02' 39.46"	441	N29° 36' 13.78"	W90° 03' 11.89"
			166	N29° 36' 31.88"	W90° 03' 46.38"				252	N29° 36' 31.93"	W90° 02' 44.60"	442	N29° 36' 16.28"	W90° 03' 11.80"
			167	N29° 36' 30.26"	W90° 03' 54.42"				253	N29° 36' 32.75"	W90° 02' 46.95"	443	N29° 36' 21.49"	W90° 03' 11.59"
			168	N29° 36' 28.65"	W90° 04' 02.41"				254	N29° 36' 34.53"	W90° 02' 49.74"	444	N29° 36' 31.27"	W90° 03' 11.35"
			169	N29° 36' 38.09"	W90° 04' 01.29"				255	N29° 36' 34.66"	W90° 02' 51.06"			
			170	N29° 36' 45.43"	W90° 04' 00.41"				256	N29° 36' 34.16"	W90° 02' 52.26"			
			171	N29° 36' 50.45"	W90° 03' 59.81"				257	N29° 36' 35.04"	W90° 03' 10.63"			
			172	N29° 37' 11.29"	W90° 03' 57.50"				258	N29° 36' 35.88"	W90° 03' 11.78"			
			173	N29° 37' 16.09"	W90° 03' 57.07"									
			174	N29° 37' 16.91"	W90° 03' 56.85"									
			175	N29° 37' 26.56"	W90° 03' 51.75"									
			175	N29° 37' 26.56"	W90° 03' 51.75"									

MCA '2A' ACCESS CORRIDOR		
POINT #	LATITUDE	LONGITUDE
600	N29° 37' 45.90"	W90° 03' 03.73"
601	N29° 37' 49.22"	W90° 03' 09.28"
602	N29° 37' 49.81"	W90° 03' 11.04"
603	N29° 37' 49.10"	W90° 03' 24.81"
604	N29° 37' 49.63"	W90° 03' 27.12"
605	N29° 37' 34.07"	W90° 03' 44.13"
606	N29° 37' 25.67"	W90° 03' 43.94"
607	N29° 37' 23.32"	W90° 03' 42.93"
608	N29° 37' 22.57"	W90° 03' 42.07"
609	N29° 37' 21.52"	W90° 03' 41.38"

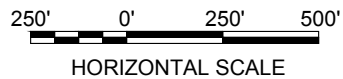
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; text-align: center;"> PROJECT ALIGNMENT TABLES (SHEET 2 OF 2) - PROPOSED </div>
DRAWN BY: JAD					DESIGNED BY: NC	APPROVED BY:



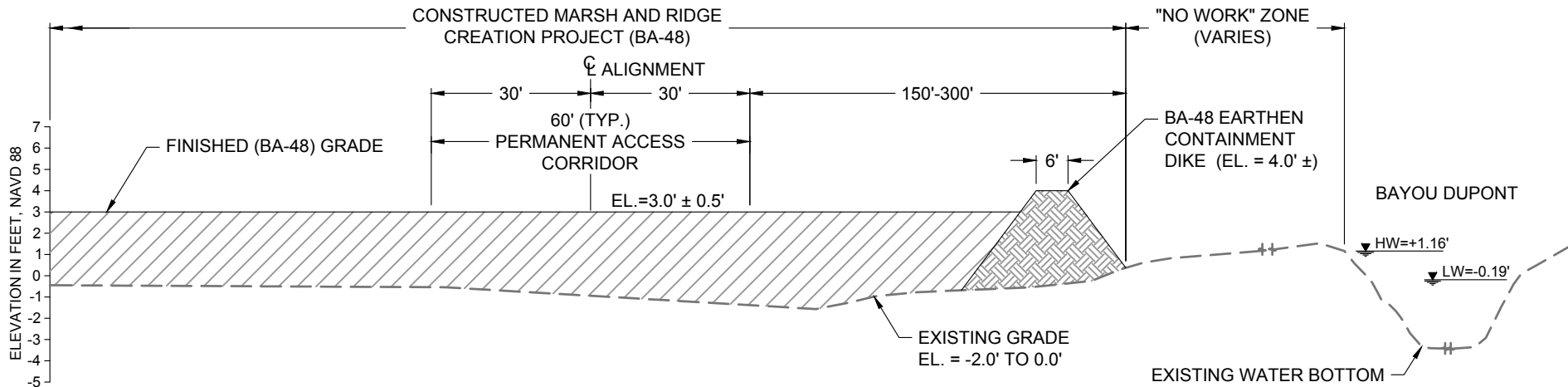
1 REACH 1 - TYPICAL SECTION (ACROSS BA-39 PROJECT AREA) - CONSTRUCTED
 16 (STA. 232+12.07 TO STA. 349+28.02)



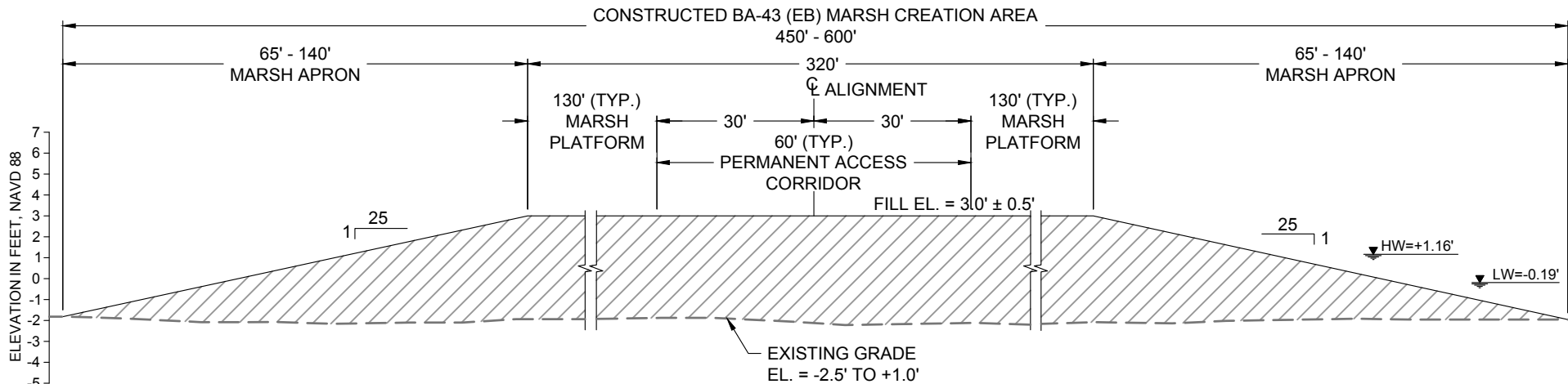
2 REACH 2 - TYPICAL SECTION (BETWEEN BA-39 & BAYOU DUPONT) - CONSTRUCTED
 16 (STA. 349+28.02 TO STA. 388+06.42)



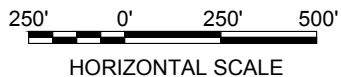
BY:	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT		TYPICAL FILL SECTIONS BA-39, BA-48, AND BA-43 (EB) (SHEET 1 OF 4) - CONSTRUCTED
	DRAWN BY: JAD	DESIGNED BY: NC			APPROVED BY:	STATE PROJECT NUMBER:	
					FEDERAL PROJECT NUMBER: BA-207	SHEET 24 OF 54	



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

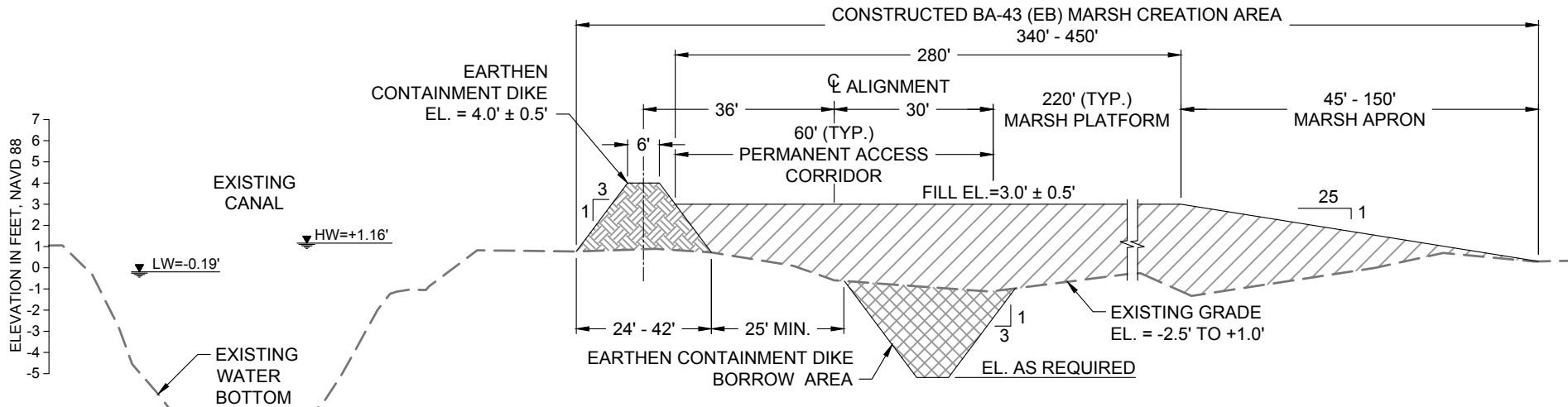


4 REACH 4 - TYPICAL SECTION (FROM BA-48 TO THE FISH CAMP) - CONSTRUCTED
 17 (STA. 410+90.02 TO STA. 468+07.70)

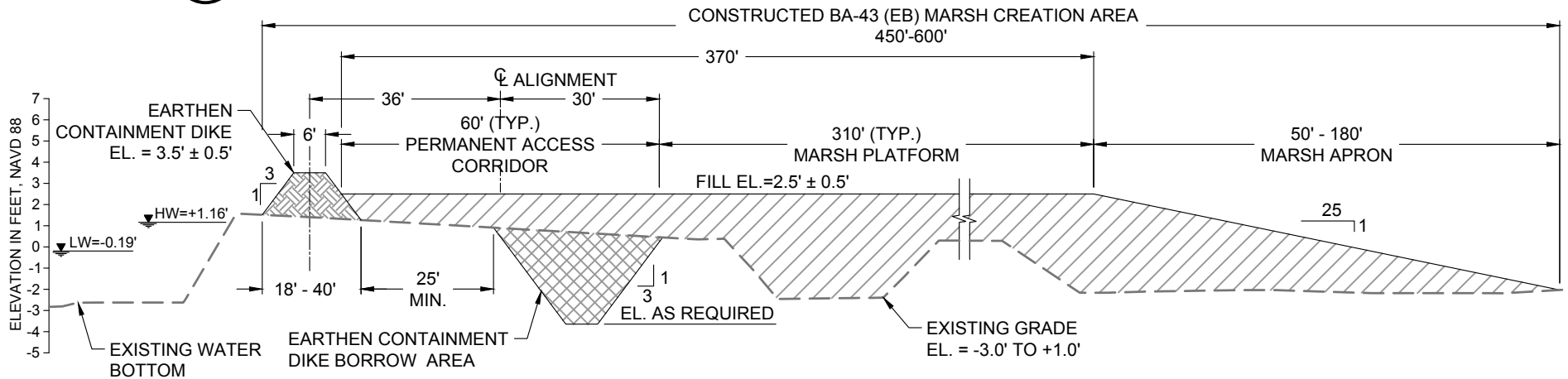


**NO MODIFICATIONS
 MADE TO THIS SHEET**

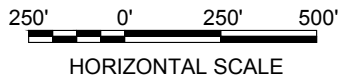
BY:	DESCRIPTION:	DATE:	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS BA-39, BA-48, AND BA-43 (EB) (SHEET 2 OF 4) - CONSTRUCTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:				
					FEDERAL PROJECT NUMBER: BA-207	SHEET 25 OF 54



5 REACH 5 - TYPICAL SECTION (FROM THE FISH CAMP TO STA 511+83.655) - CONSTRUCTED
 17 (STA. 468+07.70 TO STA. 511+83.65)

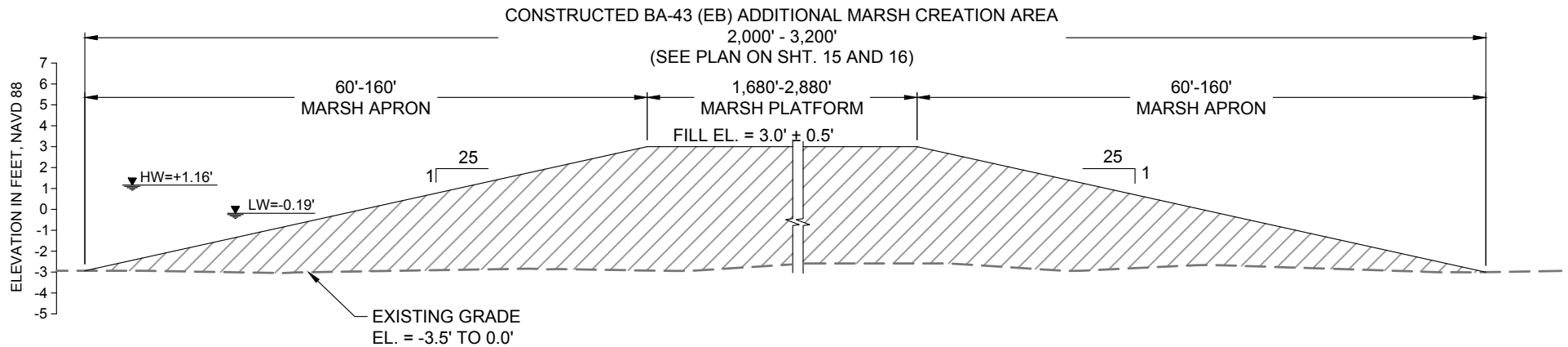


6 REACH 6 - TYPICAL SECTION (FROM STA 511+83.65 TO BARATARIA WATERWAY) - CONSTRUCTED
 17 (STA. 511+83.65 TO STA. 570+22.0)

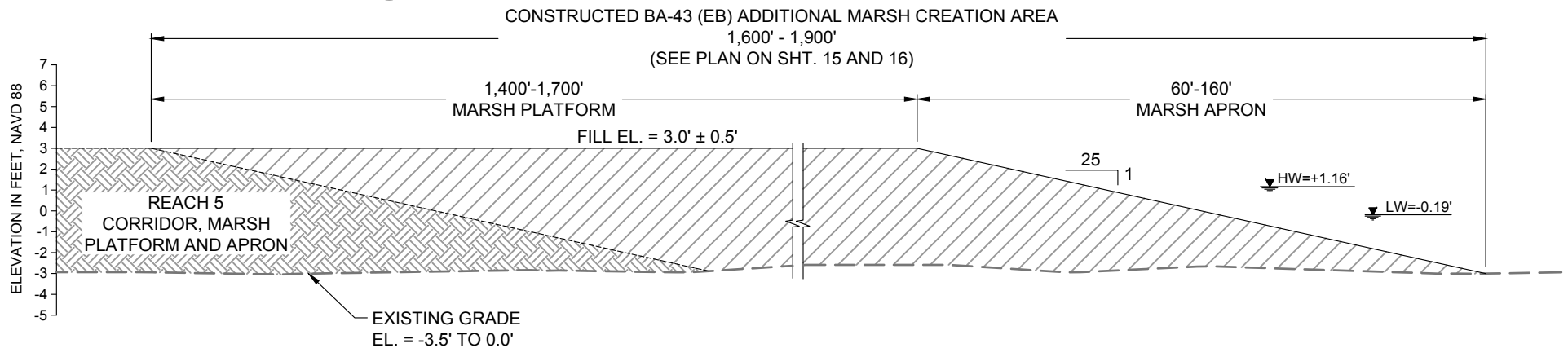


**NO MODIFICATIONS
 MADE TO THIS SHEET**

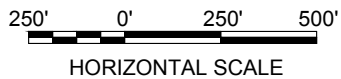
BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS BA-39, BA-48, AND BA-43 (EB) (SHEET 3 OF 4) - CONSTRUCTED
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075			
					5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER: BA-207	SHEET 26 OF 54



7 BA-43 (EB) TYPICAL FILL SECTION - CONSTRUCTED
17 (SOUTH TO NORTH)

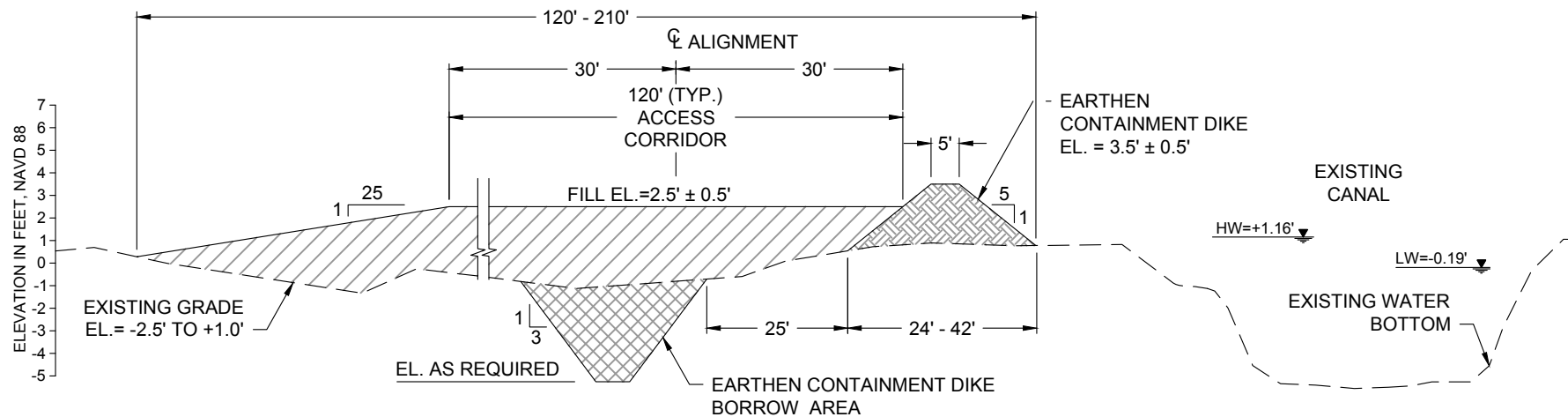


8 BA-43 (EB) TYPICAL FILL SECTION - CONSTRUCTED
17 (EAST TO WEST)

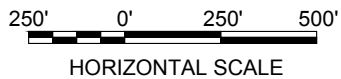


**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS BA-39, BA-48, AND BA-43 (EB) (SHEET 4 OF 4) - CONSTRUCTED	
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER: BA-207	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					SHEET 27 OF 54

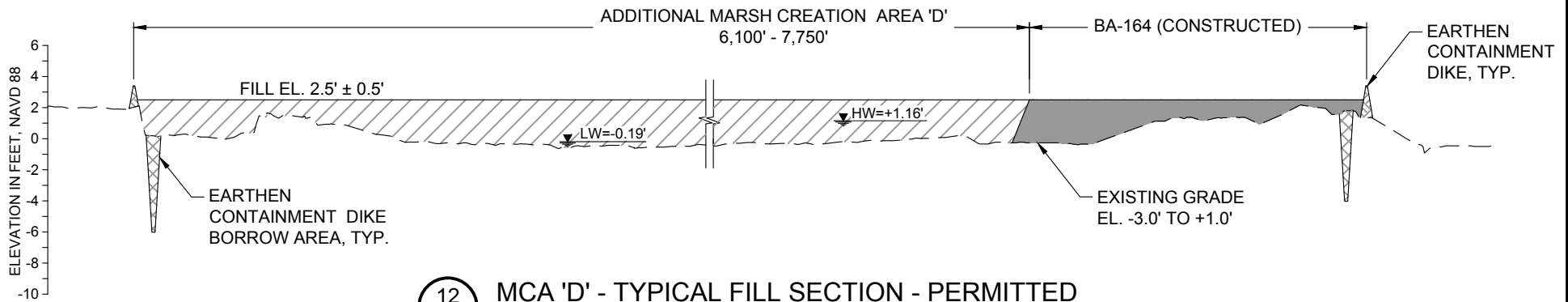


9 ACCESS CORRIDOR TYPICAL SECTION (TO ACCESS BA-164) - CONSTRUCTED
 16 (STA. 602+34 TO STA. 656+22)

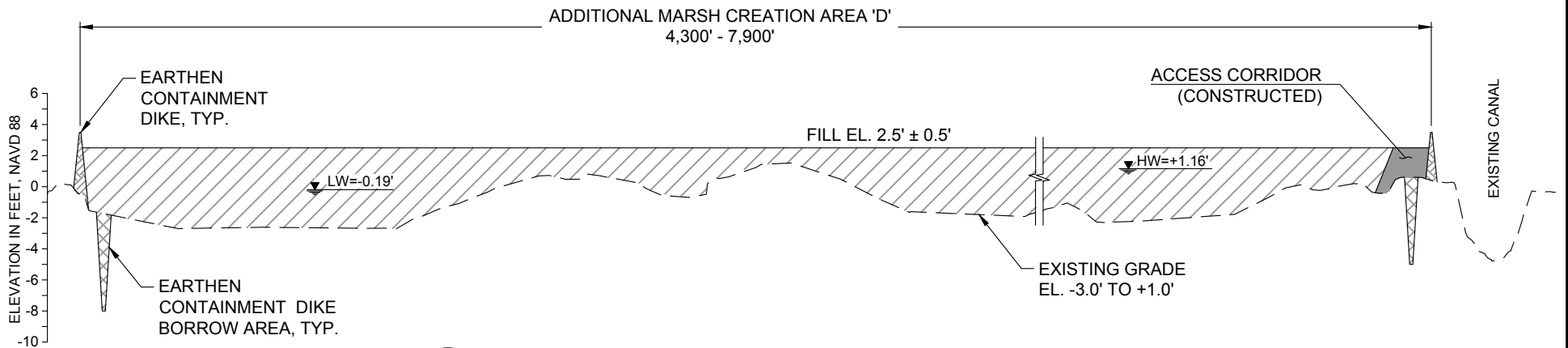


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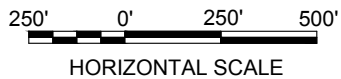
BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTION BA-164 - CONSTRUCTED
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER: BA-207	SHEET 28 OF 54



12 MCA 'D' - TYPICAL FILL SECTION - PERMITTED
 18 (NORTHWEST TO SOUTHEAST)

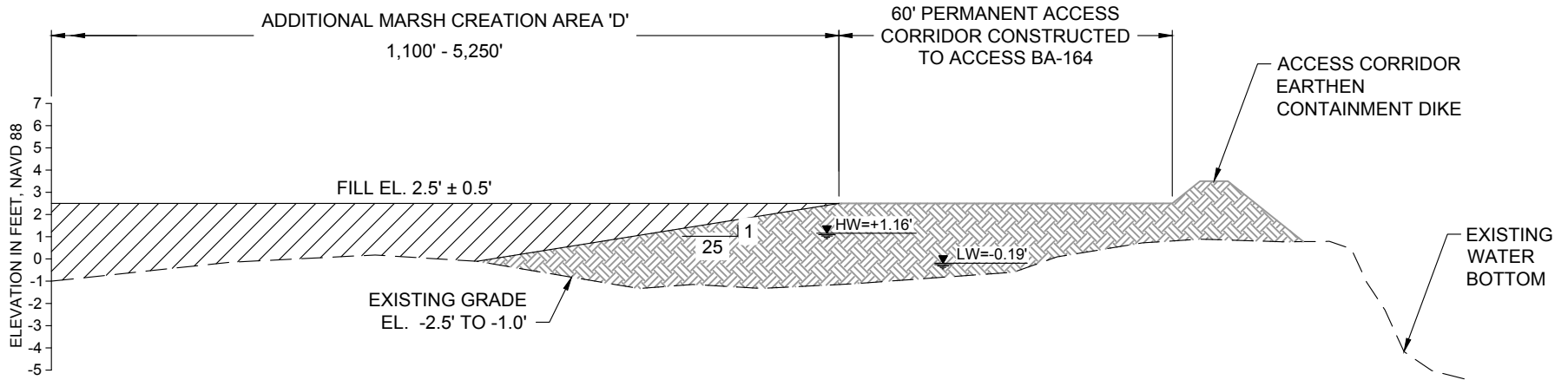


13 MCA 'D' - TYPICAL FILL SECTION - PERMITTED
 18 (SOUTHWEST TO NORTHEAST)

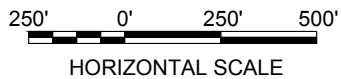


**NO MODIFICATIONS
 MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS MCA D (SHEET 1 OF 2) - PERMITTED	
			 moffett & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		
					STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:		DATE: JUNE, 2020 SHEET 29 OF 54
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	BA-207		

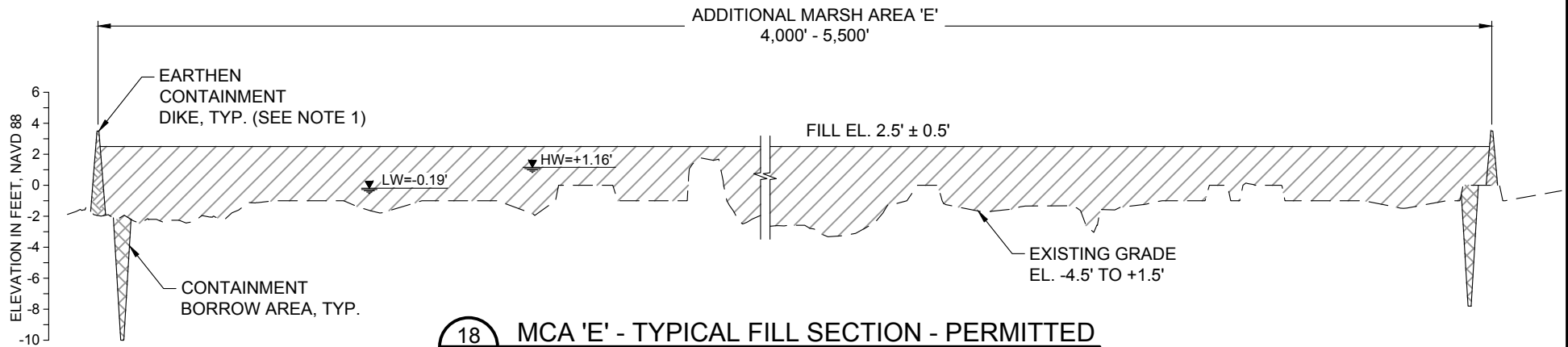


16 MCA 'D' - TYPICAL FILL SECTION (ADJACENT TO EXISTING ACCESS CORRIDOR) - PERMITTED
18 (WEST TO EAST)

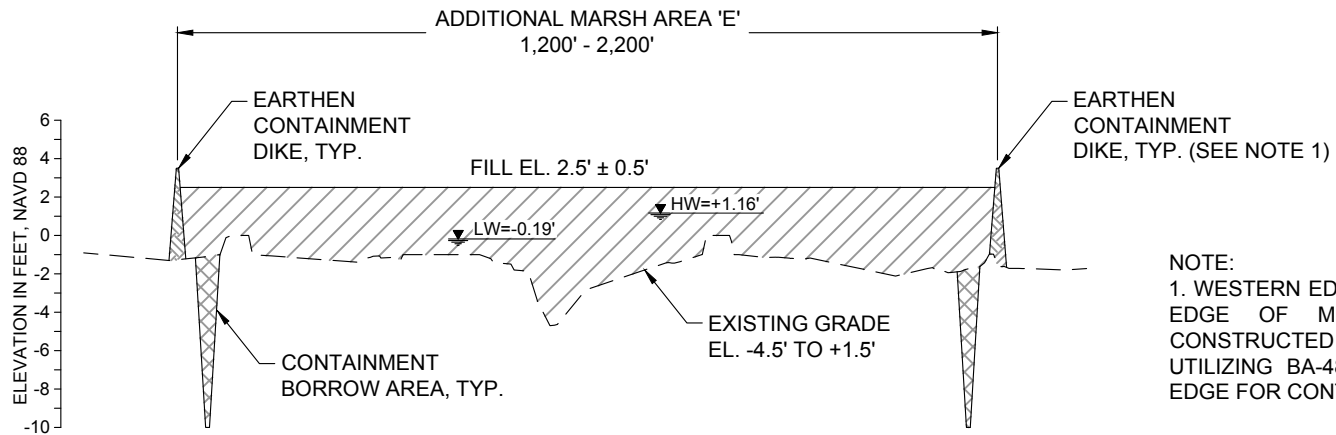


**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS (SHEET 2 OF 4) - PERMITTED
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		
					STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	FEDERAL PROJECT NUMBER: BA-207	SHEET 30 OF 54

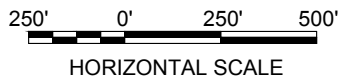


18 MCA 'E' - TYPICAL FILL SECTION - PERMITTED
 20A (WEST TO EAST)



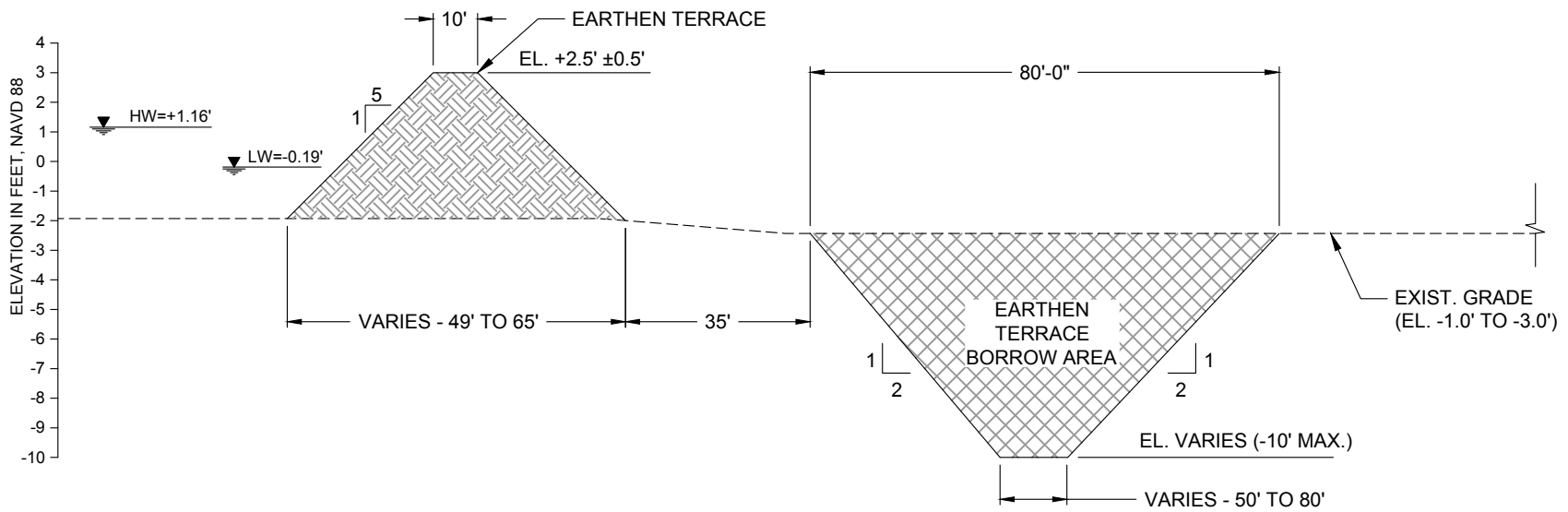
19 MCA 'E' - TYPICAL FILL SECTION - PERMITTED
 20A (SOUTH TO NORTH)

NOTE:
 1. WESTERN EDGE AND NORTHERN
 EDGE OF MCA 'E' MAY BE
 CONSTRUCTED UNCONTAINED,
 UTILIZING BA-48 AND MCA 3 FILL
 EDGE FOR CONTAINMENT.



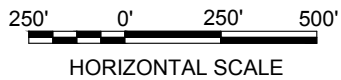
**NO MODIFICATIONS
 MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS MCA E - PERMITTED		
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER:	BA-207
DRAWN BY: JAD			DESIGNED BY: NC		APPROVED BY:			



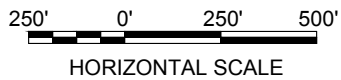
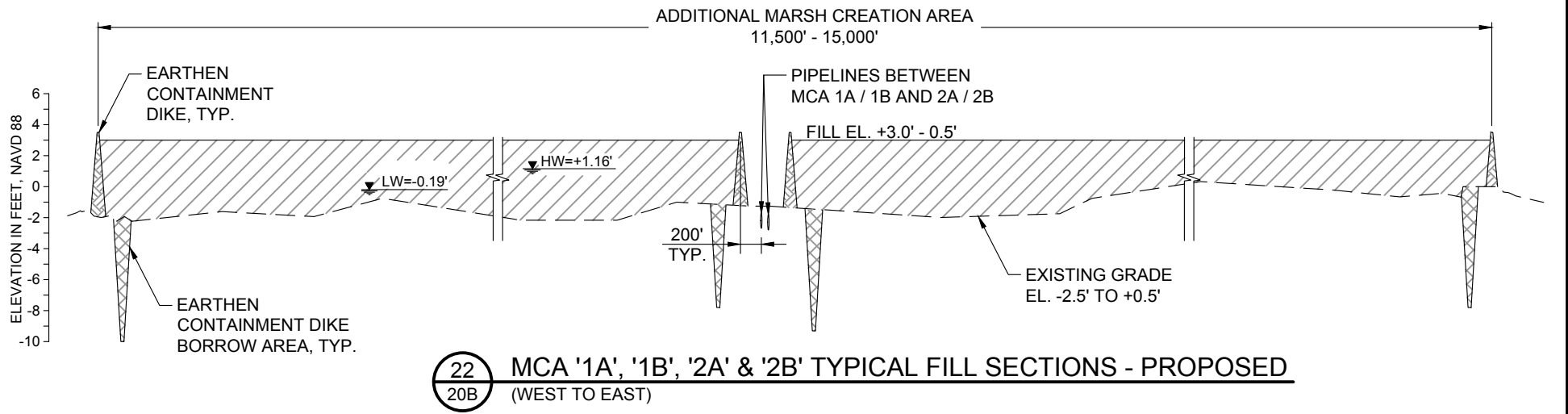
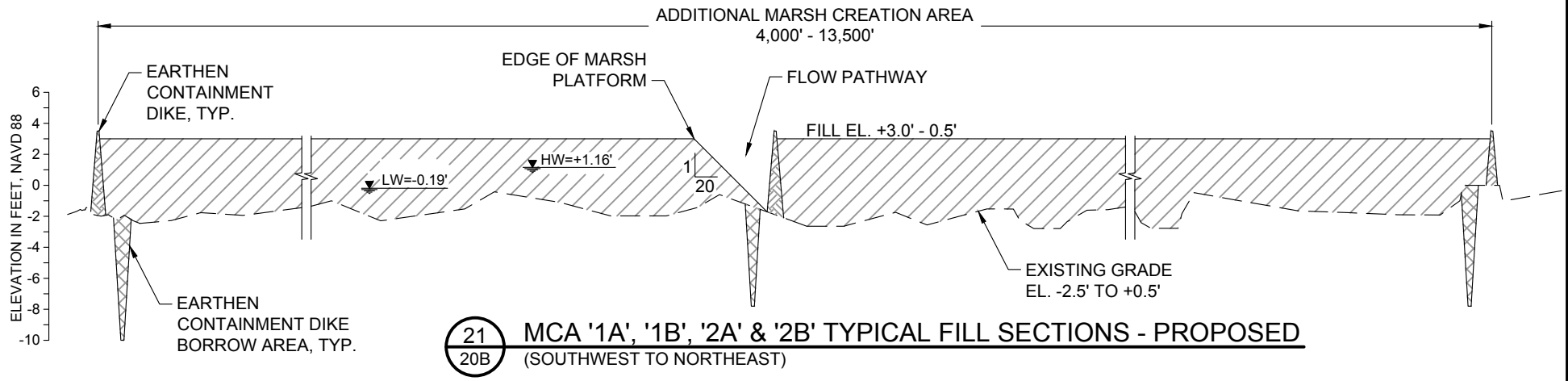
20
19

AREA 'B' AND AREA 'C' EARTHEN TERRACE TYPICAL SECTION
SCALE: 1" = 500'



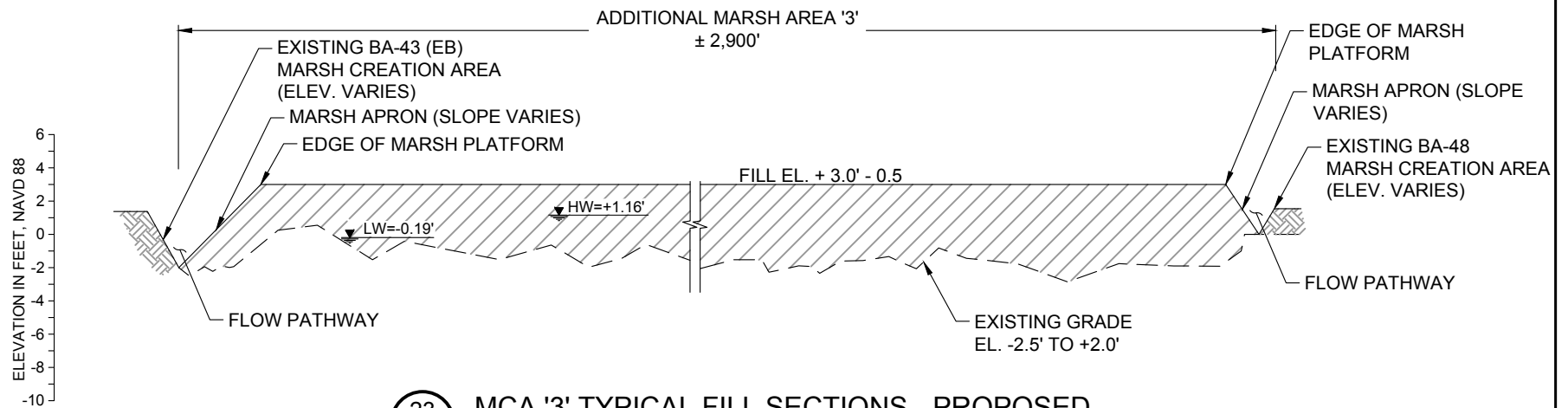
**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL SECTIONS EARTHEN TERRACES - PERMITTED
DRAWN BY: JAD					DESIGNED BY: NC	APPROVED BY:

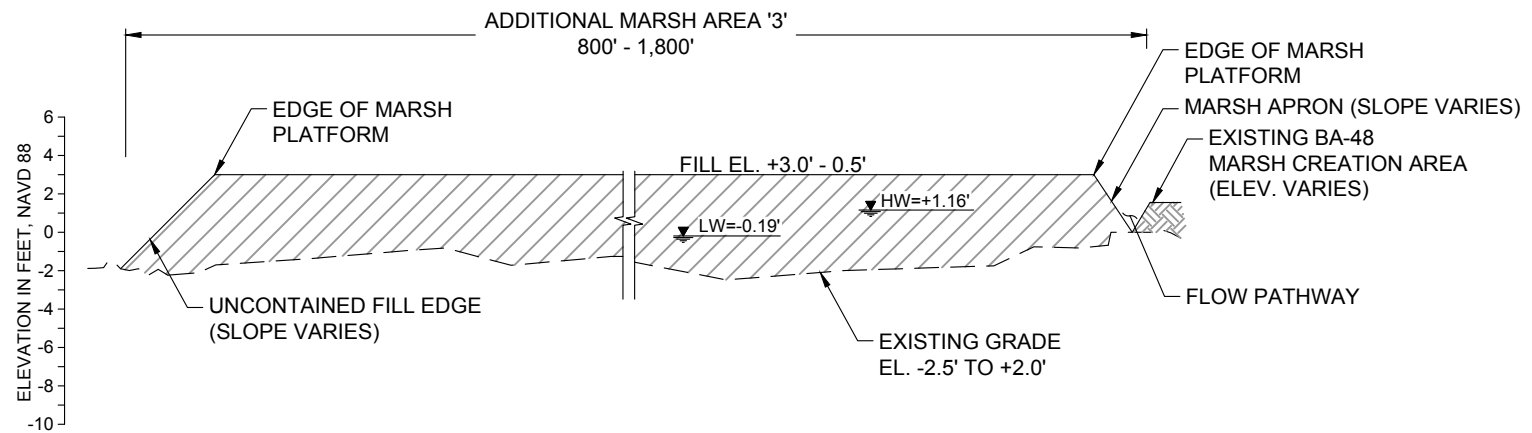


NOTE:
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM AUGUST 2 THROUGH AUGUST 11, 2018 BY FUGRO USA LAND, INC.

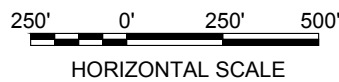
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS (SHEET 1 OF 3) - PROPOSED
						STATE PROJECT NUMBER:
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207



23 MCA '3' TYPICAL FILL SECTIONS - PROPOSED
 20A (WEST TO EAST)

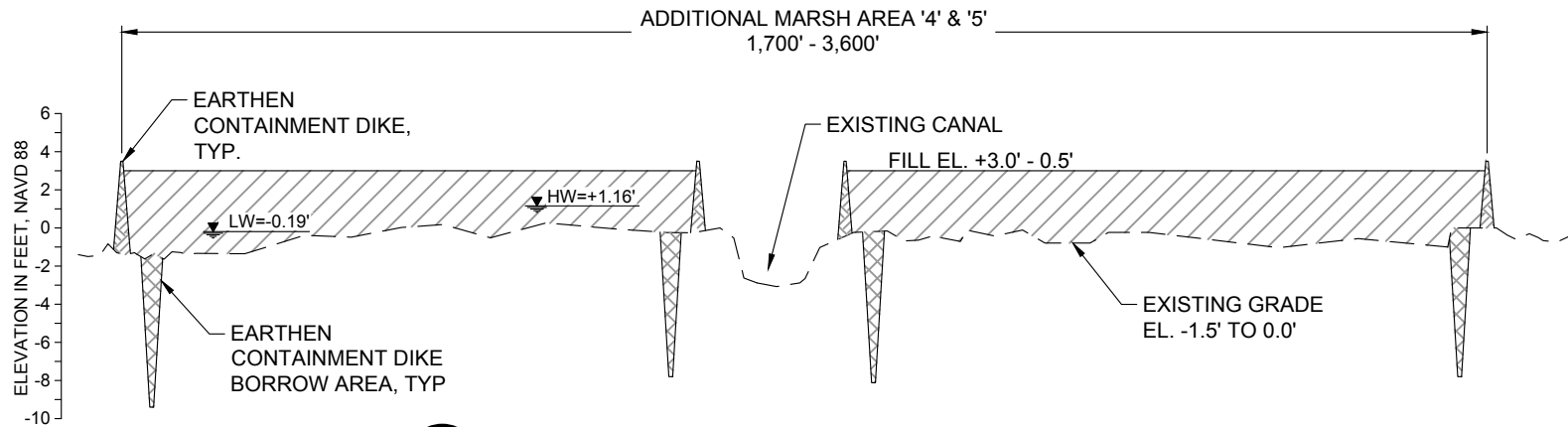


24 MCA '3' TYPICAL FILL SECTIONS - PROPOSED
 20A (SOUTH TO NORTH)

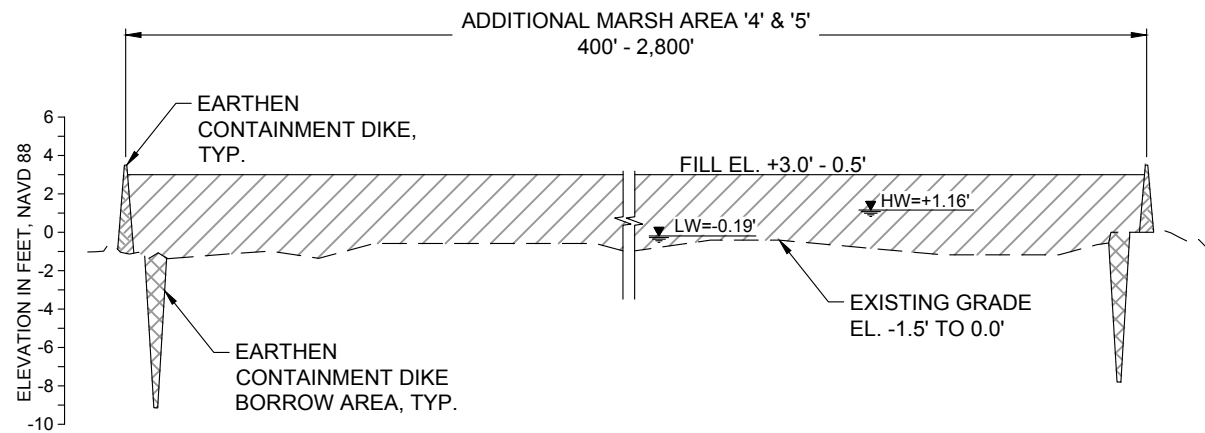


NOTE:
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM AUGUST 2 THROUGH AUGUST 11, 2018 BY FUGRO USA LAND, INC.

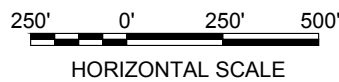
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT		TYPICAL FILL SECTIONS (SHEET 2 OF 3) - PROPOSED
					STATE PROJECT NUMBER:		
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	FEDERAL PROJECT NUMBER:	BA-207	SHEET 32C OF 54



25
20D **MCA '4' & '5' TYPICAL FILL SECTIONS - PROPOSED**
(SOUTH TO NORTH)

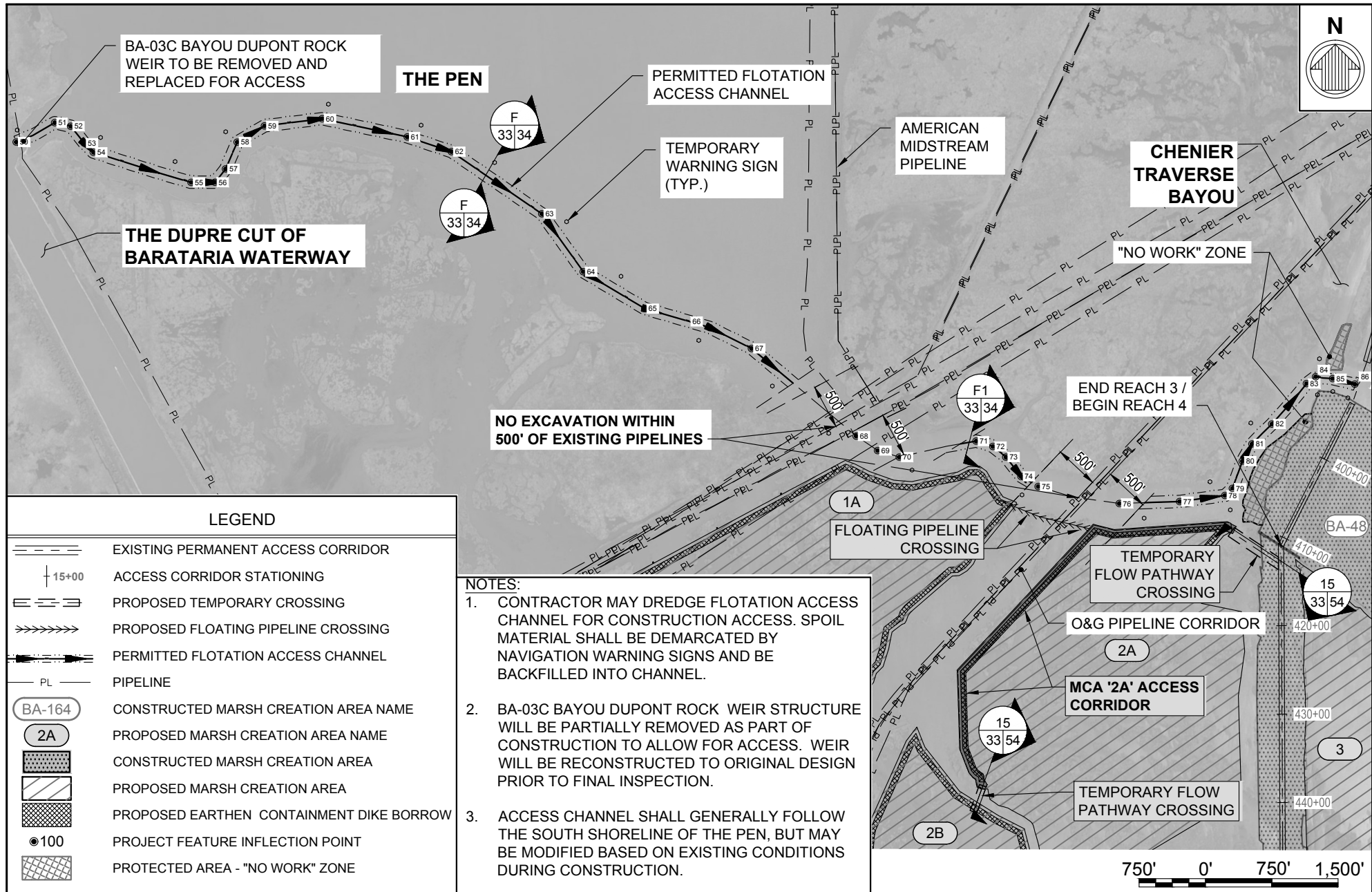


26
20D **MCA '4' & '5' TYPICAL FILL SECTIONS - PROPOSED**
(WEST TO EAST)



NOTE:
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM AUGUST 2 THROUGH AUGUST 11, 2018 BY FUGRO USA LAND, INC.

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL FILL SECTIONS (SHEET 3 OF 3) - PROPOSED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207



LEGEND

	EXISTING PERMANENT ACCESS CORRIDOR
	ACCESS CORRIDOR STATIONING
	PROPOSED TEMPORARY CROSSING
	PROPOSED FLOATING PIPELINE CROSSING
	PERMITTED FLOTATION ACCESS CHANNEL
	PIPELINE
	CONSTRUCTED MARSH CREATION AREA NAME
	PROPOSED MARSH CREATION AREA NAME
	CONSTRUCTED MARSH CREATION AREA
	PROPOSED MARSH CREATION AREA
	PROPOSED EARTHEN CONTAINMENT DIKE BORROW
	PROJECT FEATURE INFLECTION POINT
	PROTECTED AREA - "NO WORK" ZONE

NOTES:

1. CONTRACTOR MAY DREDGE FLOTATION ACCESS CHANNEL FOR CONSTRUCTION ACCESS. SPOIL MATERIAL SHALL BE DEMARCATED BY NAVIGATION WARNING SIGNS AND BE BACKFILLED INTO CHANNEL.
2. BA-03C BAYOU DUPONT ROCK WEIR STRUCTURE WILL BE PARTIALLY REMOVED AS PART OF CONSTRUCTION TO ALLOW FOR ACCESS. WEIR WILL BE RECONSTRUCTED TO ORIGINAL DESIGN PRIOR TO FINAL INSPECTION.
3. ACCESS CHANNEL SHALL GENERALLY FOLLOW THE SOUTH SHORELINE OF THE PEN, BUT MAY BE MODIFIED BASED ON EXISTING CONDITIONS DURING CONSTRUCTION.

BY	DESCRIPTION	DATE

moffatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

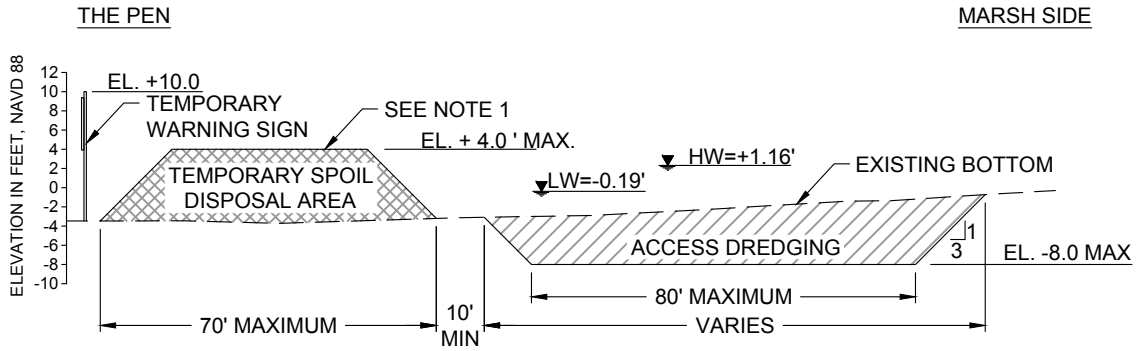
NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

FLOTATION ACCESS CHANNEL LAYOUT - PERMITTED

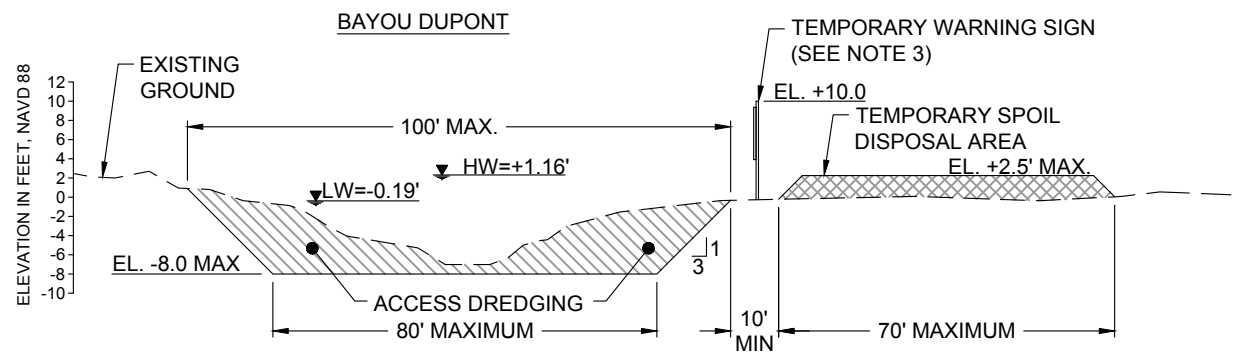
DATE: JUNE, 2020
 SHEET 33 OF 54



NOTES:

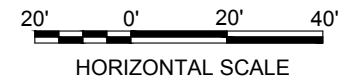
1. ACCESS CHANNEL TO BE DREDGED FOR CONSTRUCTION ACCESS.
2. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND BACKFILLED INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION.
3. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 500 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.

F
33 **TYPICAL ACCESS CHANNEL SECTION AT THE PEN - PERMITTED**
SCALE: 1" = 40'-0"



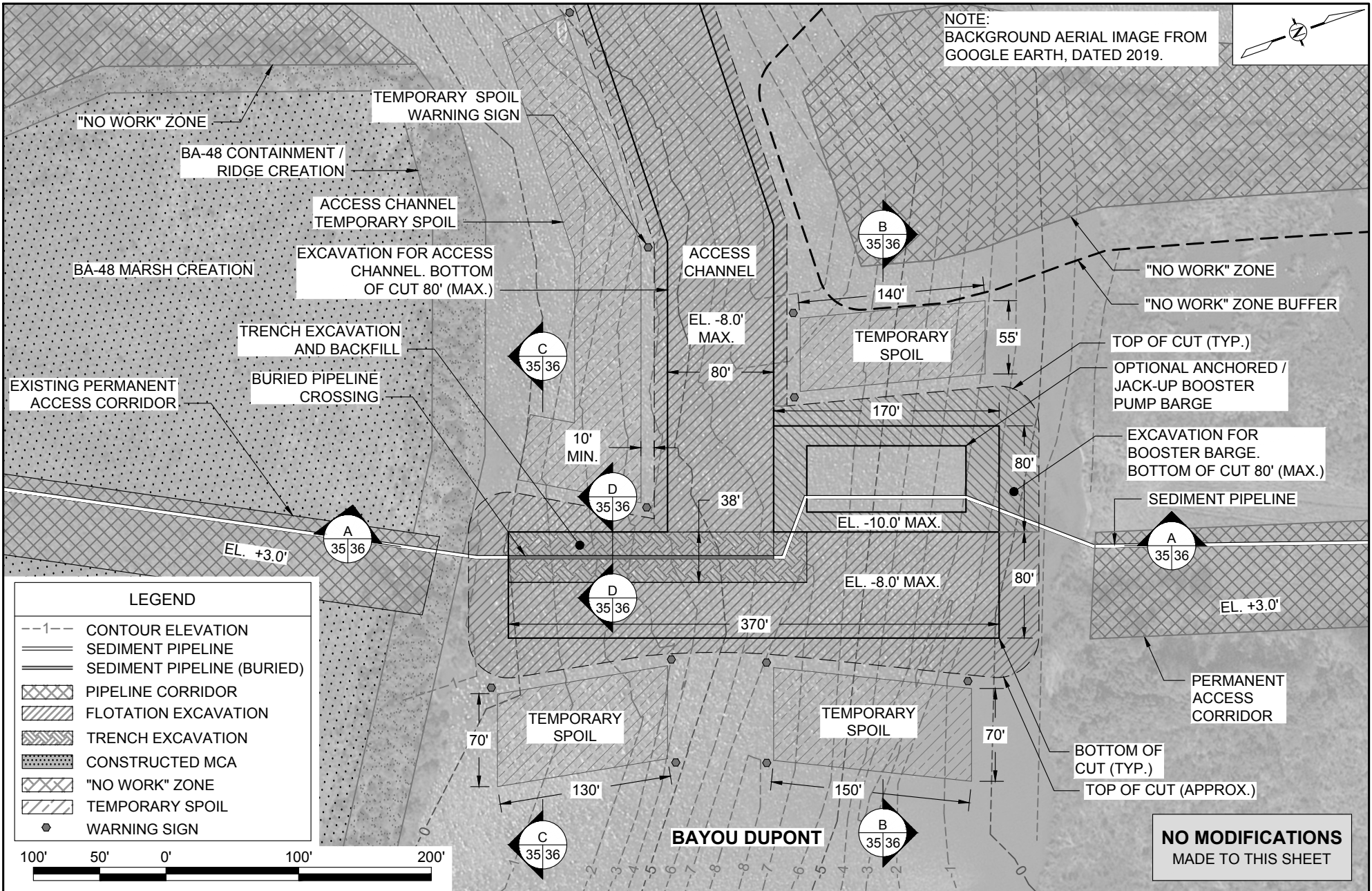
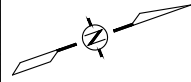
F1
33 **TYPICAL ACCESS CHANNEL SECTION AT BAYOU DUPONT - PERMITTED**
SCALE: 1" = 40'-0"

**NO MODIFICATIONS
MADE TO THIS SHEET**




BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TYPICAL ACCESS CHANNEL SECTIONS - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207

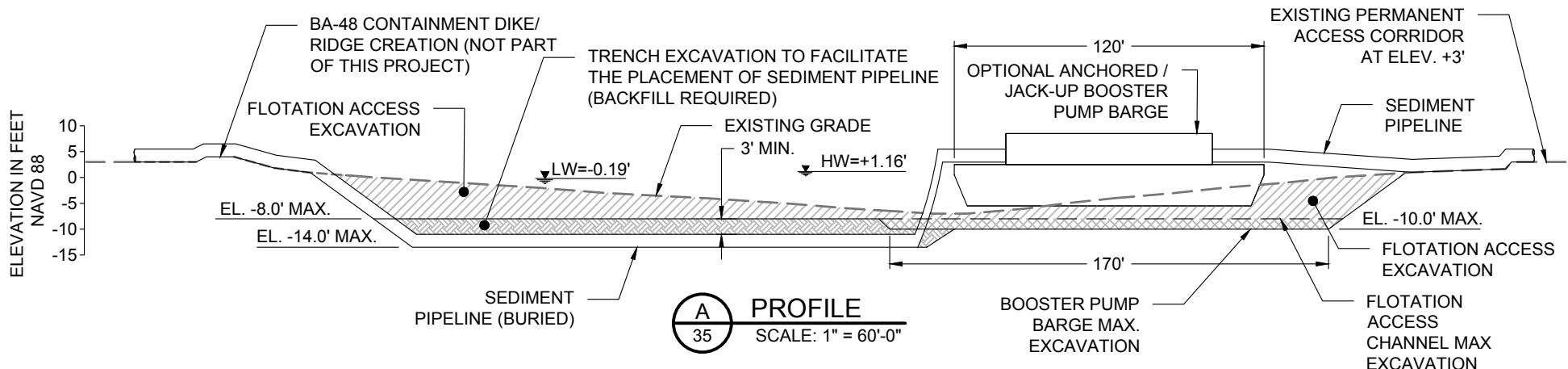
NOTE:
BACKGROUND AERIAL IMAGE FROM
GOOGLE EARTH, DATED 2019.



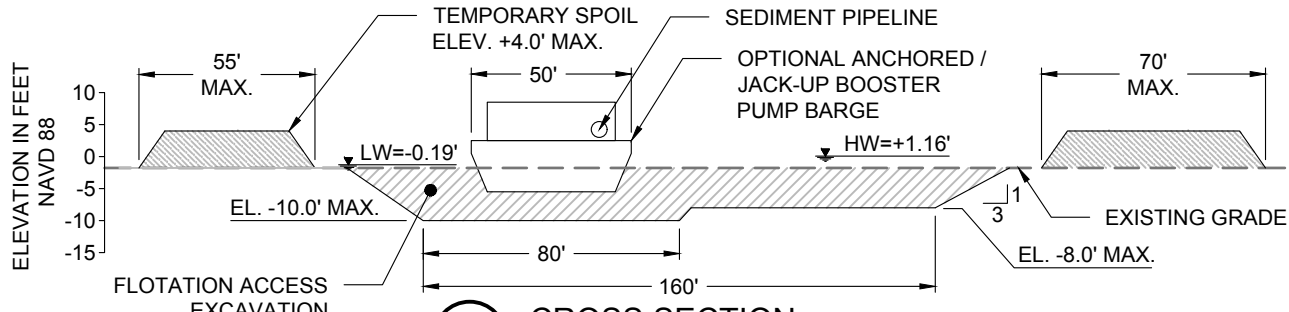
LEGEND	
--1--	CONTOUR ELEVATION
—	SEDIMENT PIPELINE
—	SEDIMENT PIPELINE (BURIED)
[Cross-hatch pattern]	PIPELINE CORRIDOR
[Diagonal hatch pattern]	FLOTATION EXCAVATION
[Wavy hatch pattern]	TRENCH EXCAVATION
[Dotted pattern]	CONSTRUCTED MCA
[Cross-hatch pattern]	"NO WORK" ZONE
[Diagonal hatch pattern]	TEMPORARY SPOIL
●	WARNING SIGN

**NO MODIFICATIONS
MADE TO THIS SHEET**

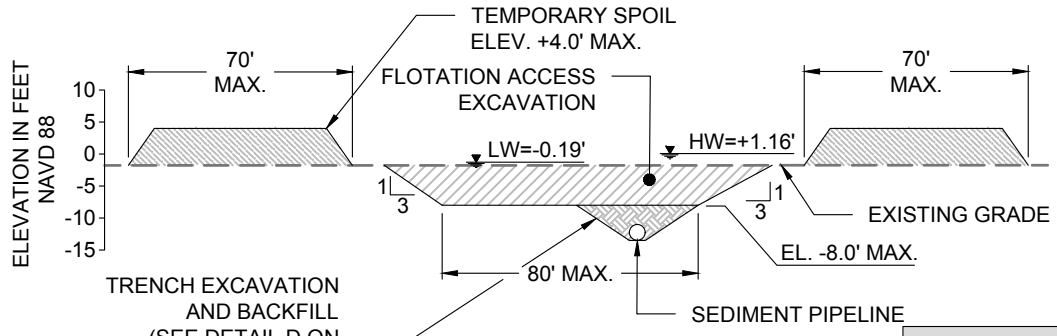
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	BAYOU DUPONT CROSSING DETAIL - PERMITTED
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	STATE PROJECT NUMBER:	DATE: JUNE, 2020
					FEDERAL PROJECT NUMBER: BA-207	SHEET 35 OF 54



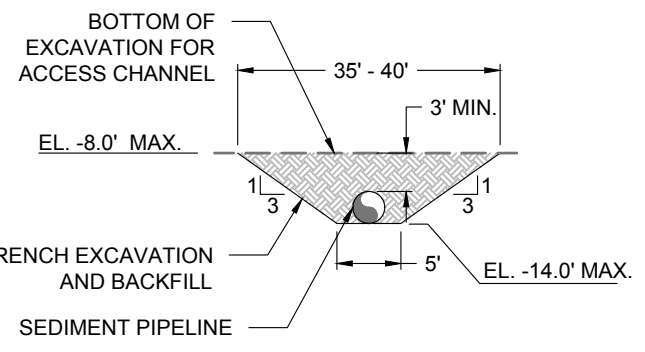
A PROFILE
35 SCALE: 1" = 60'-0"



B CROSS SECTION
35 SCALE: 1" = 60'-0"

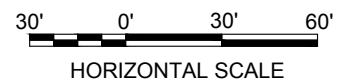


C CROSS SECTION
35 SCALE: 1" = 60'-0"



D TRENCH DETAIL
36 NOT TO SCALE

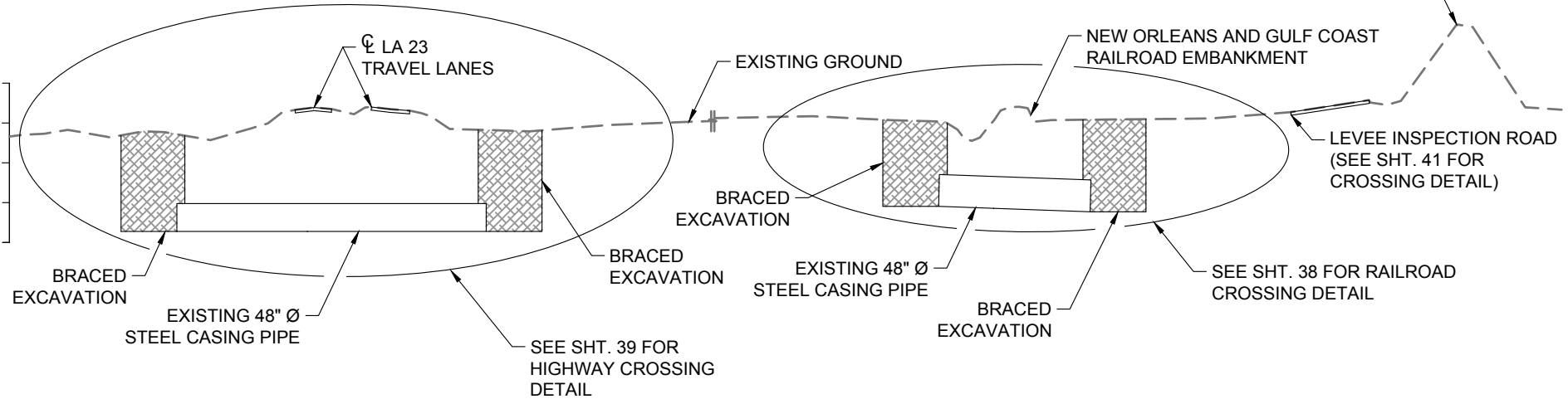
**NO MODIFICATIONS
MADE TO THIS SHEET**



BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	BAYOU DUPONT BOOSTER PUMP SITE TYPICAL DETAILS - PERMITTED
			 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075			
			5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER: BA-207	SHEET 36 OF 54

ELEVATIONS IN FEET, NAVD 88

MISSISSIPPI RIVER LEVEE
(SEE SHT. 40 FOR CROSSING DETAIL)



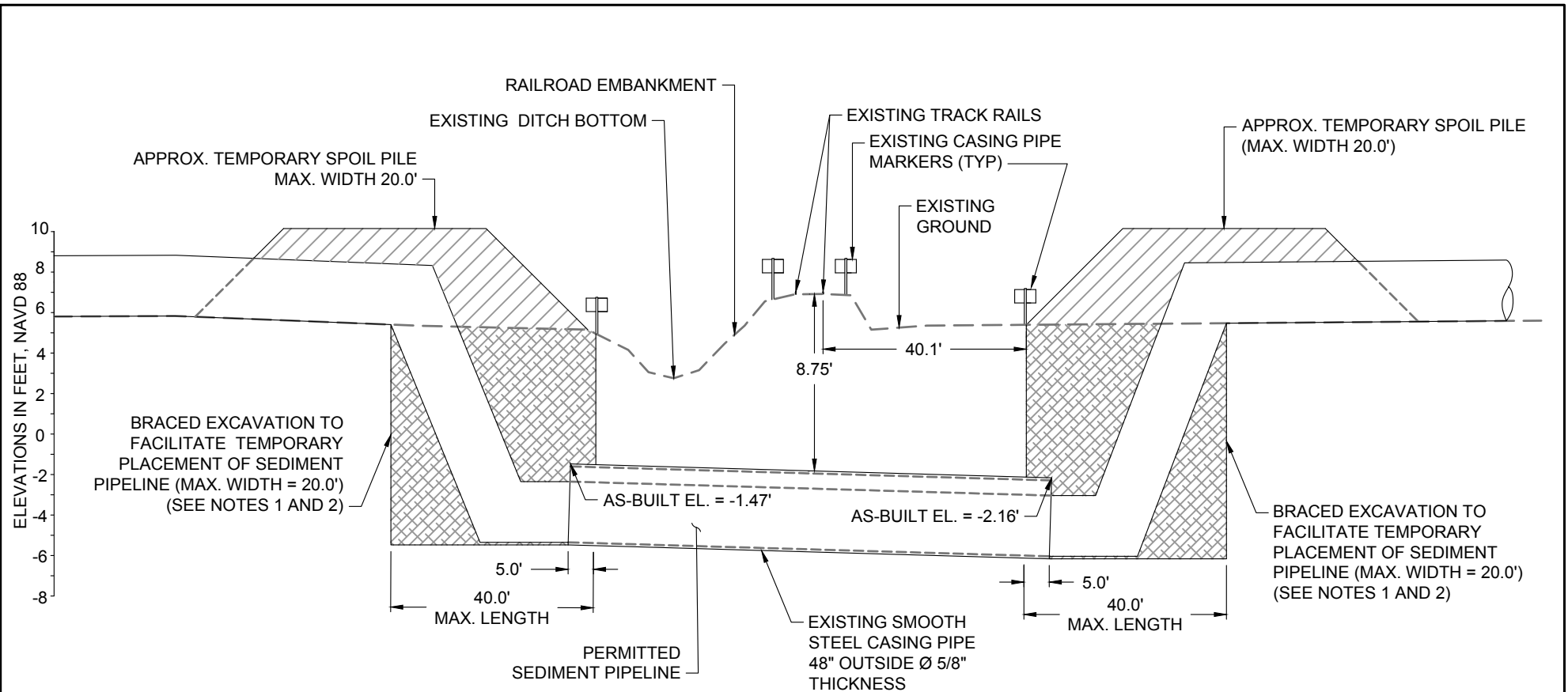
DREDGE PIPELINE CORRIDOR SECTION

SCALE: 1" = 100'-0"



**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	DREDGE PIPELINE CORRIDOR SECTION - PERMITTED
DRAWN BY: JAD					DESIGNED BY: NC	APPROVED BY:



1 RAILROAD CROSSING DETAIL - PERMITTED
21 SCALE: 1" = 30'-0"

**NO MODIFICATIONS
 MADE TO THIS SHEET**

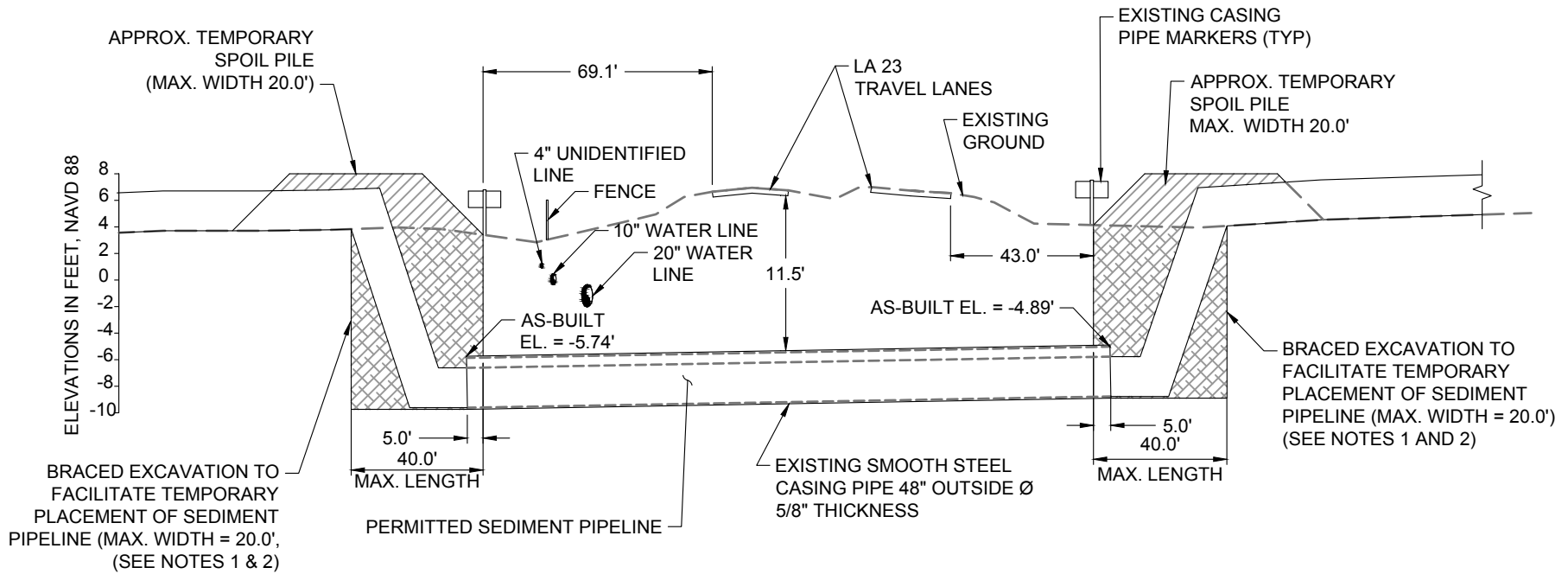
NOTES:

- TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE EXCAVATION ON BOTH SIDES.
- THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER PLACEMENT OF AND REMOVAL OF DREDGE PIPELINES.

LEGEND	
	TEMPORARY SPOIL
	BRACED EXCAVATION
	EXISTING GROUND



BY:	DESCRIPTION:	DATE:	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	RAILROAD CROSSING DETAIL - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:				
					FEDERAL PROJECT NUMBER: BA-207	SHEET 38 OF 54



2 LA 23 HIGHWAY CROSSING DETAIL - PERMITTED
21 SCALE: 1" = 50'-0"

**NO MODIFICATIONS
MADE TO THIS SHEET**

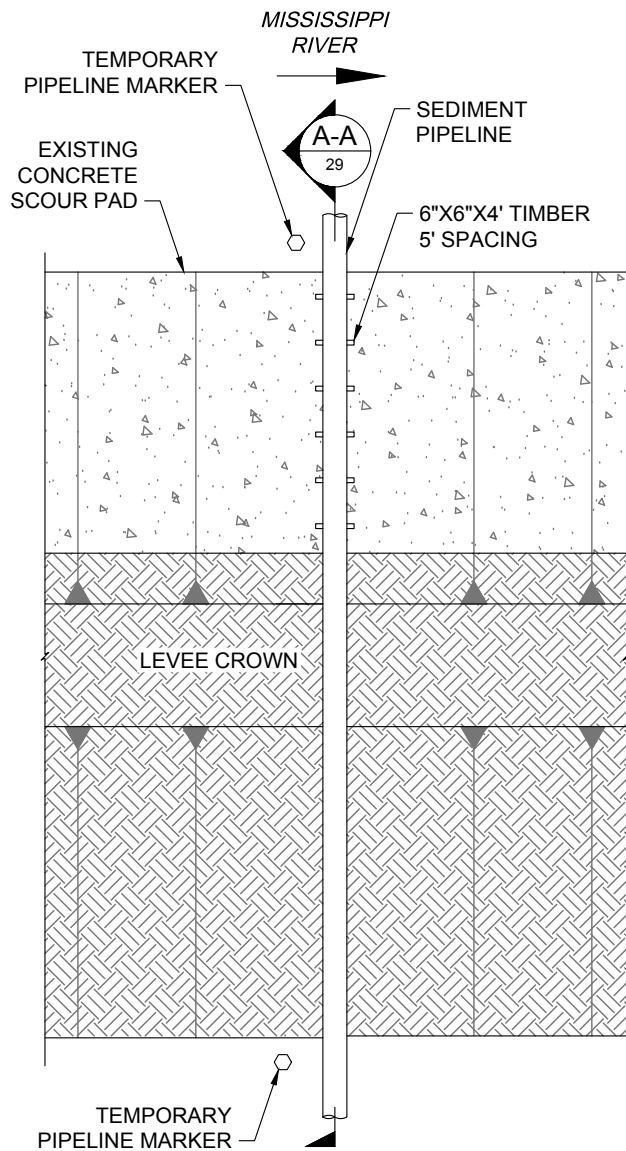
NOTES:

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.

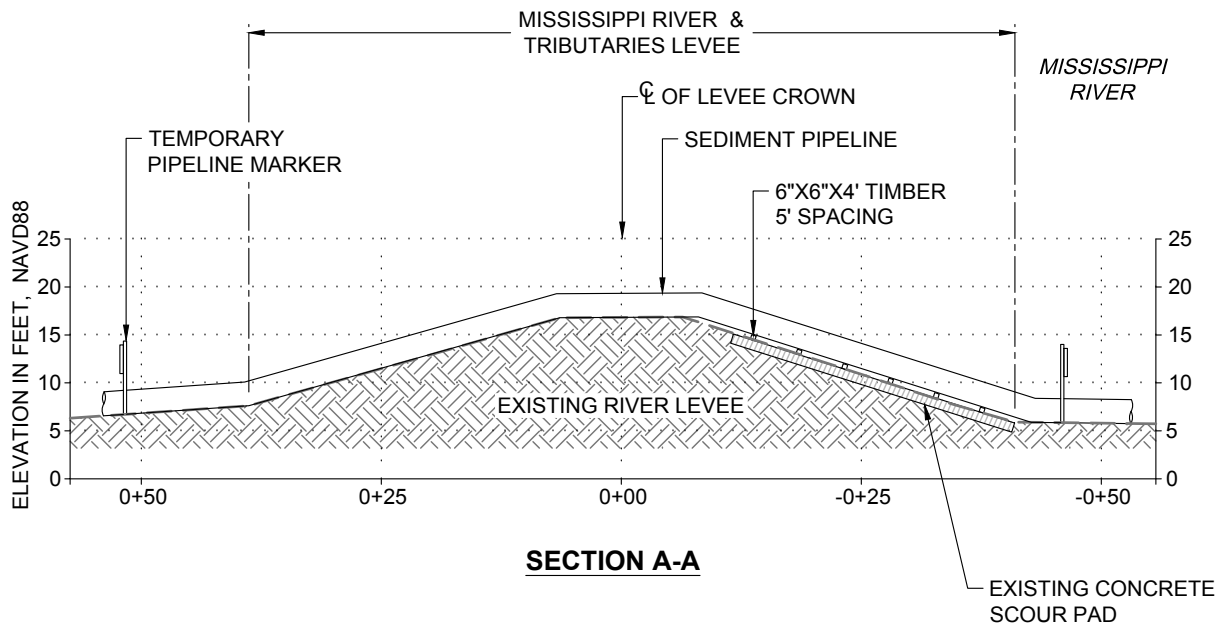
LEGEND	
	TEMPORARY SPOIL
	BRACED EXCAVATION
	EXISTING GROUND



BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	HIGHWAY CROSSING DETAIL - PERMITTED
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	STATE PROJECT NUMBER:	DATE: JUNE, 2020
					FEDERAL PROJECT NUMBER: BA-207	SHEET 39 OF 54



PLAN VIEW



SECTION A-A

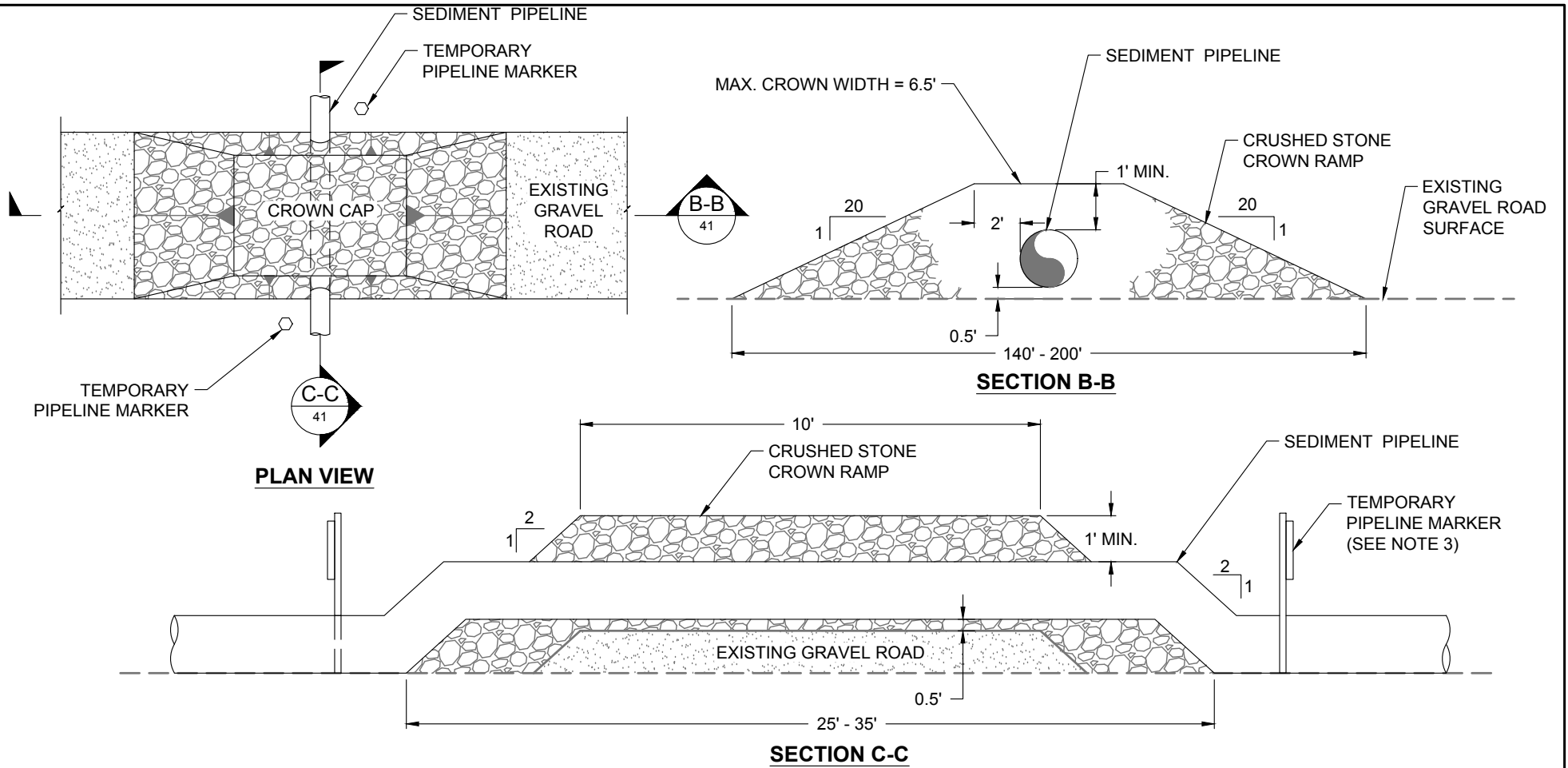
3 MISSISSIPPI RIVER LEVEE CROSSING DETAIL
 21 SCALE: 1" = 20'-0"

- 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	 moffett & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	MISS. RIVER LEVEE CROSSING DETAIL - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207



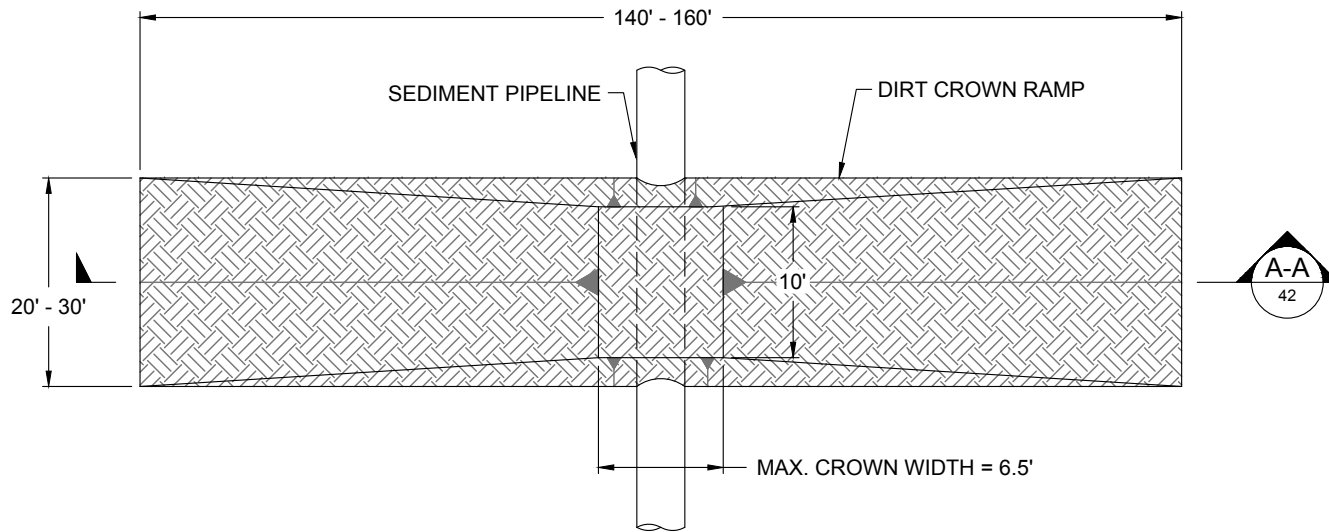
4 MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL
21 NOT TO SCALE

NOTES:

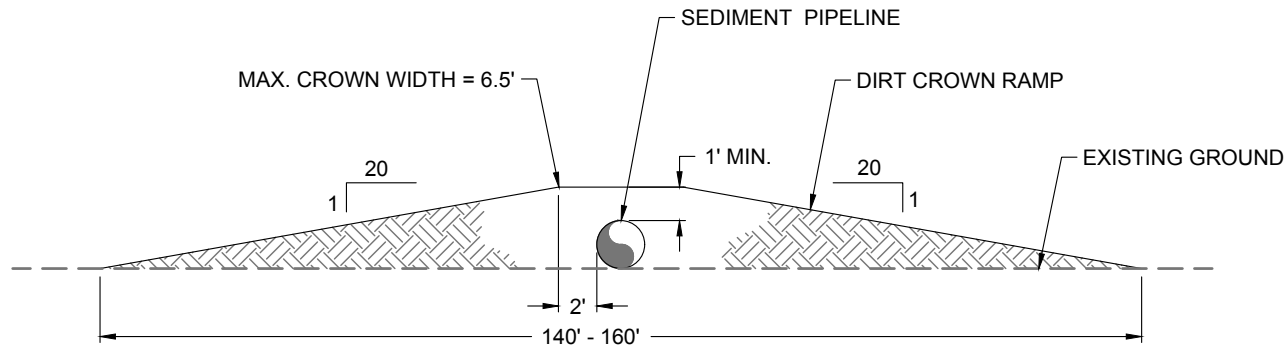
1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
2. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM LA DOTD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES(2016) SECTION 1003.03.1.
3. 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	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	MISS. RIVER LEVEE INSPECTION ROAD CROSSING DETAIL - PERMITTED - PERMITTED		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER: BA-207	SHEET 41 OF 54
DRAWN BY: JAD					DESIGNED BY: NC	APPROVED BY:		



PLAN VIEW

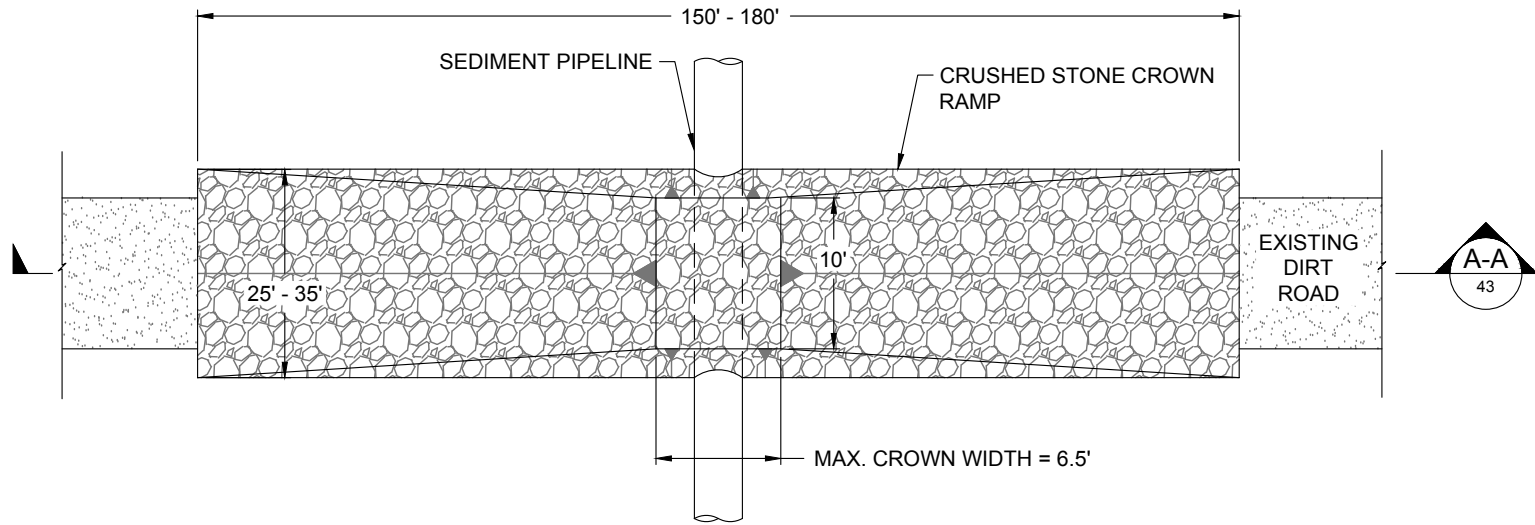


SECTION A-A

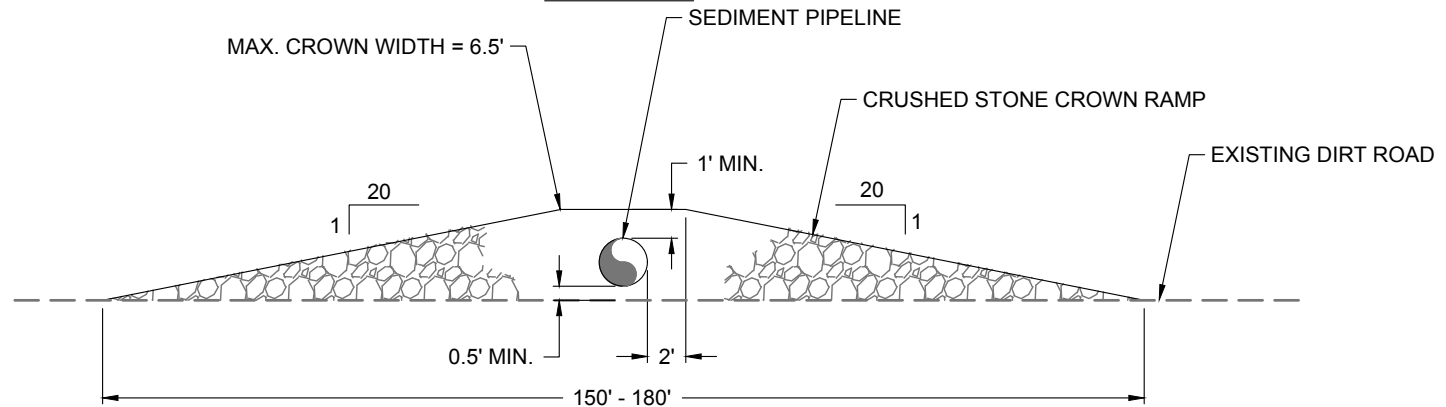
5 **CATTLE CROSSING DETAIL**
14 NOT TO SCALE

**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	CATTLE CROSSING DETAIL - PERMITTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207



PLAN VIEW



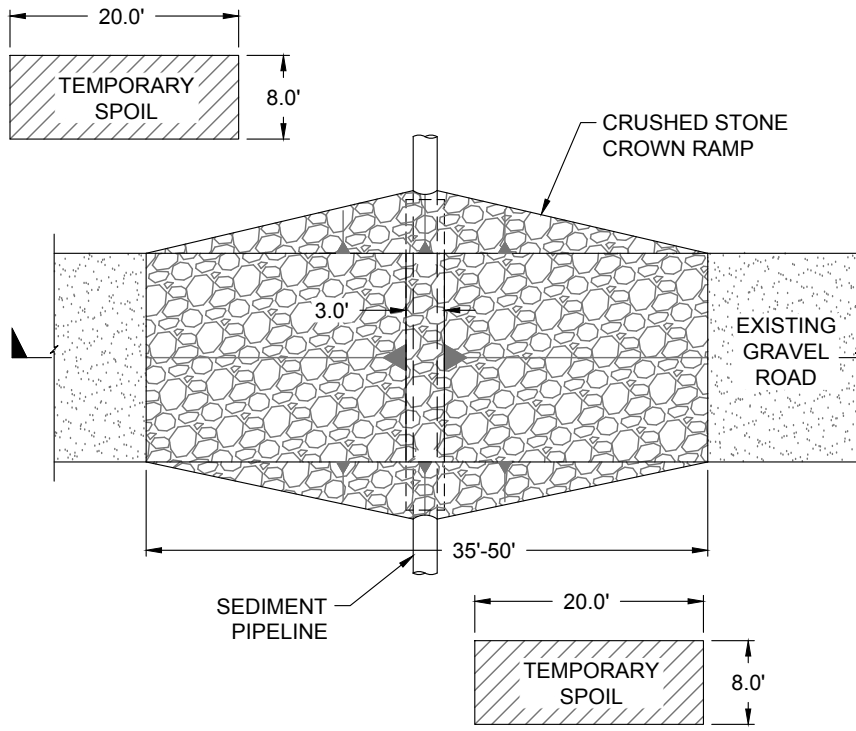
SECTION A-A

NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES(2016) SECTION 1003.03.1.

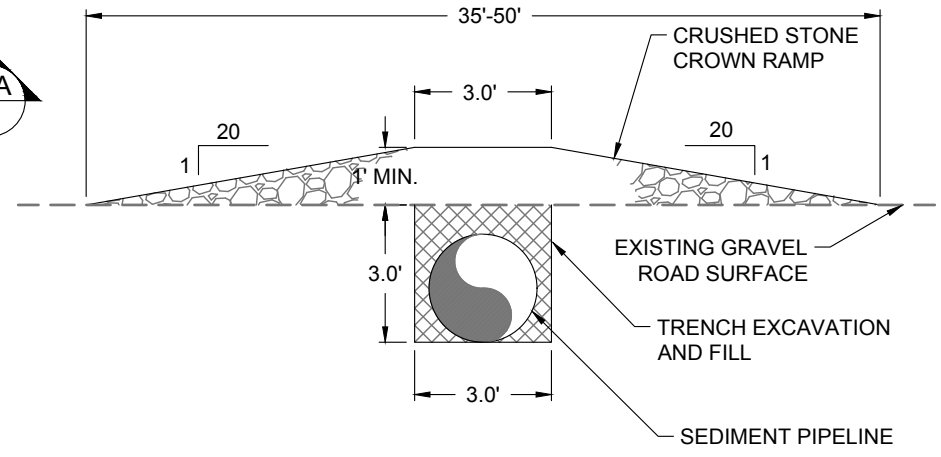
6 **DIRT ROAD CROSSING DETAIL**
 14 NOT TO SCALE

NO MODIFICATIONS
 MADE TO THIS SHEET

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	DIRT ROAD CROSSING DETAIL - PERMITTED	
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		
					STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:		DATE: JUNE, 2020 SHEET 43 OF 54
DRAWN BY: JAD			DESIGNED BY: NC	APPROVED BY:	BA-207		



PLAN VIEW



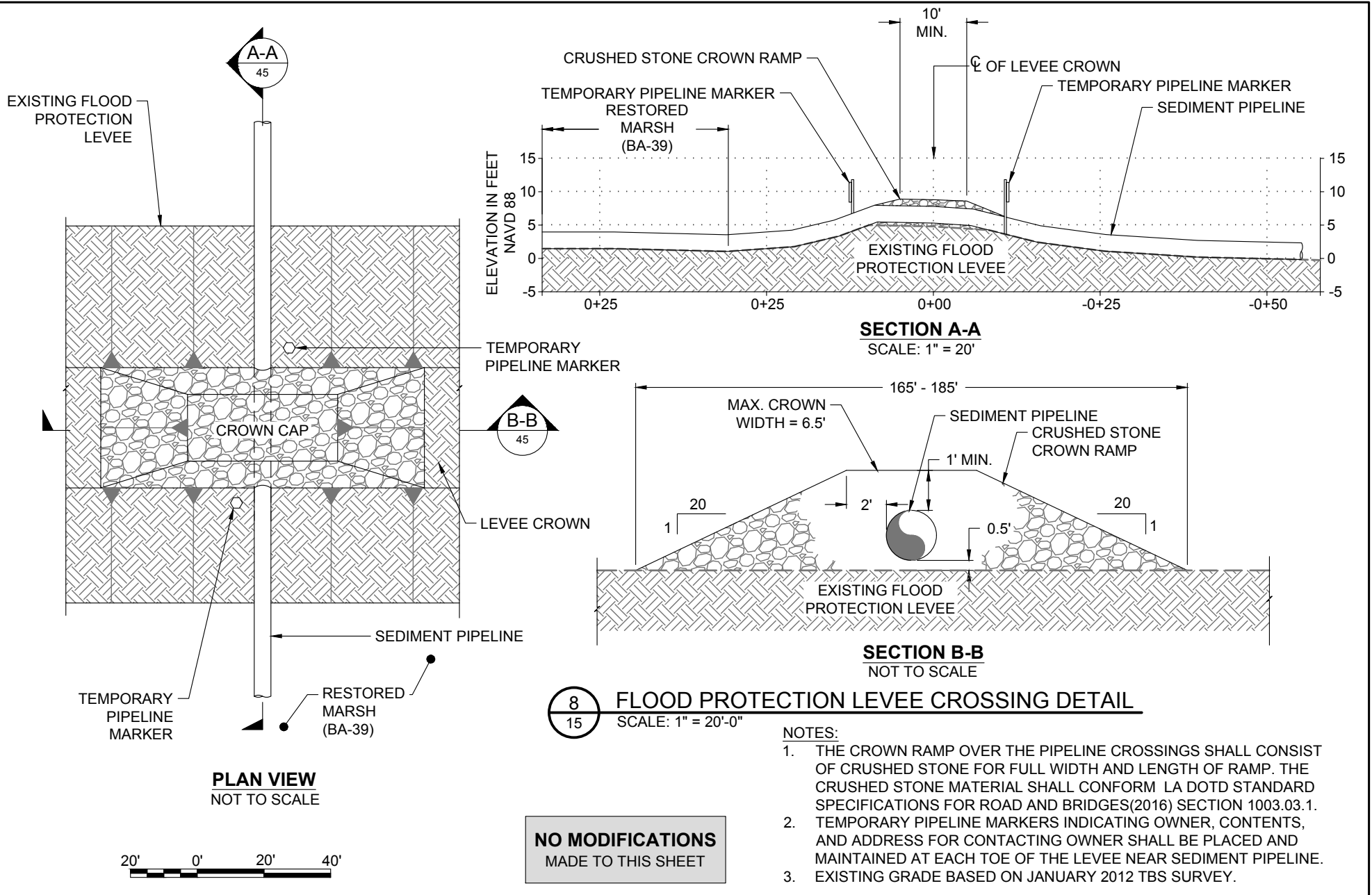
SECTION A-A

7
15
GRAVEL ROAD CROSSING DETAIL
 NOT TO SCALE

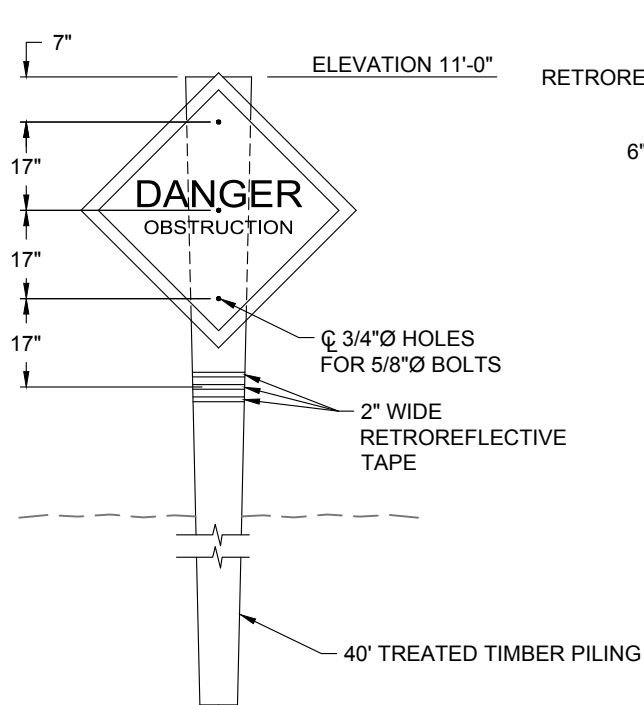
NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM LA DOTD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES(2016) SECTION 1003.03.1.

**NO MODIFICATIONS
MADE TO THIS SHEET**

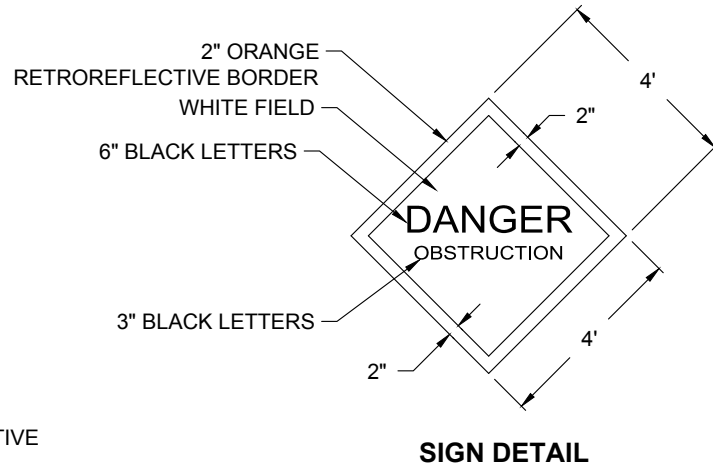
BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	GRAVEL ROAD CROSSING DETAIL - PERMITTED
			DESIGNED BY: NC	APPROVED BY:	STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD					FEDERAL PROJECT NUMBER: BA-207	SHEET 44 OF 54



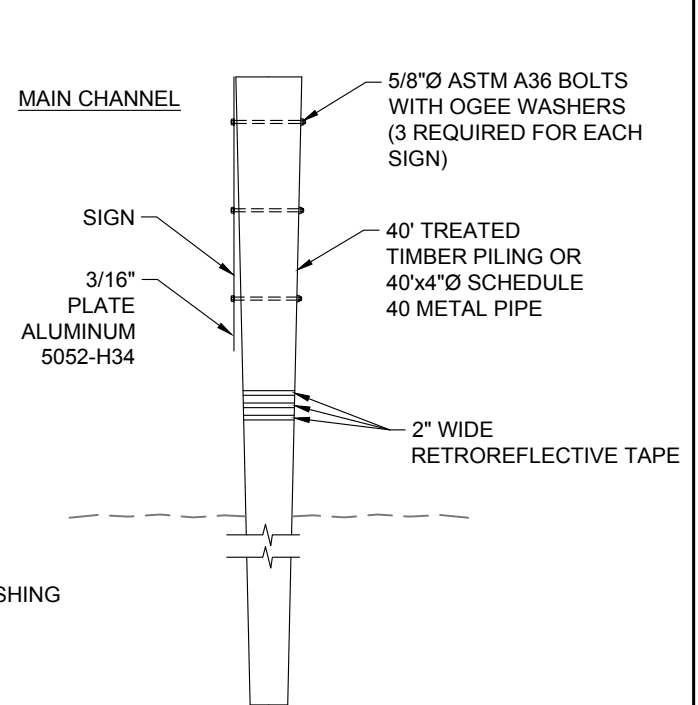
BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	FLOOD PROTECTION LEVEE CROSSING DETAIL - PERMITTED		
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
					APPROVED BY:		FEDERAL PROJECT NUMBER: BA-207	SHEET 45 OF 54
DRAWN BY: JAD			DESIGNED BY: NC					



WARNING SIGN ELEVATION



TYPICAL TIMBER PILE CAP



WARNING SIGN SIDE DETAIL

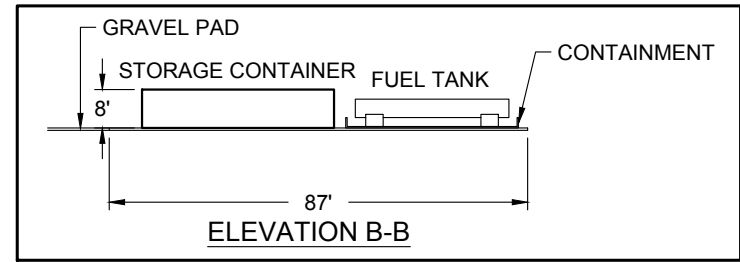
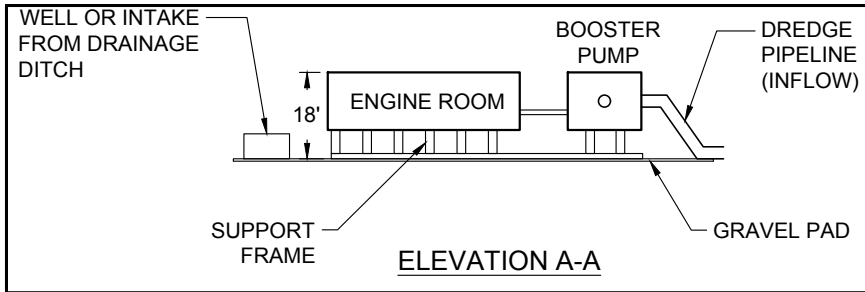
9 **TEMPORARY WARNING SIGN DETAILS**
33 NOT TO SCALE

**NO MODIFICATIONS
MADE TO THIS SHEET**

WARNING SIGN NOTES

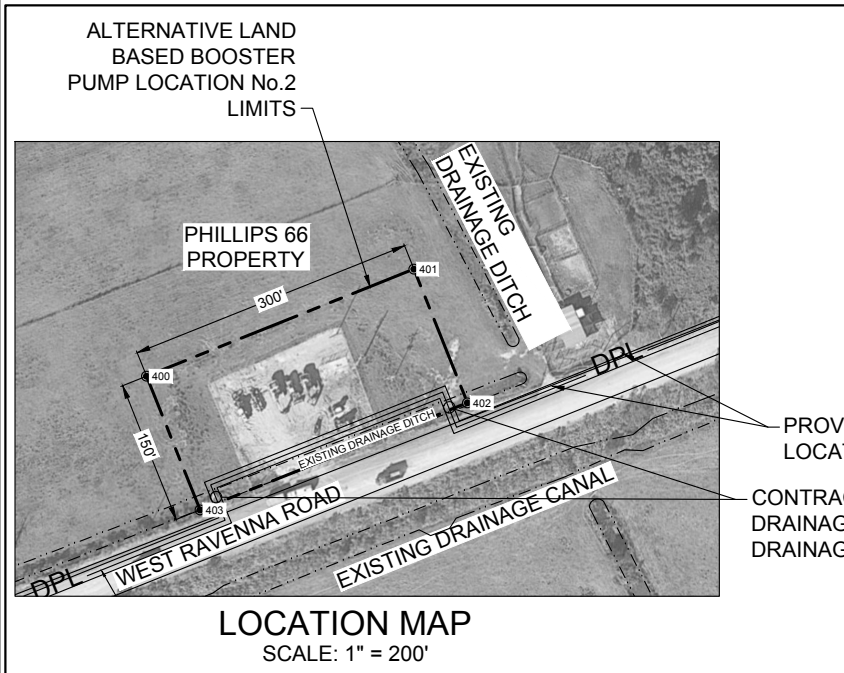
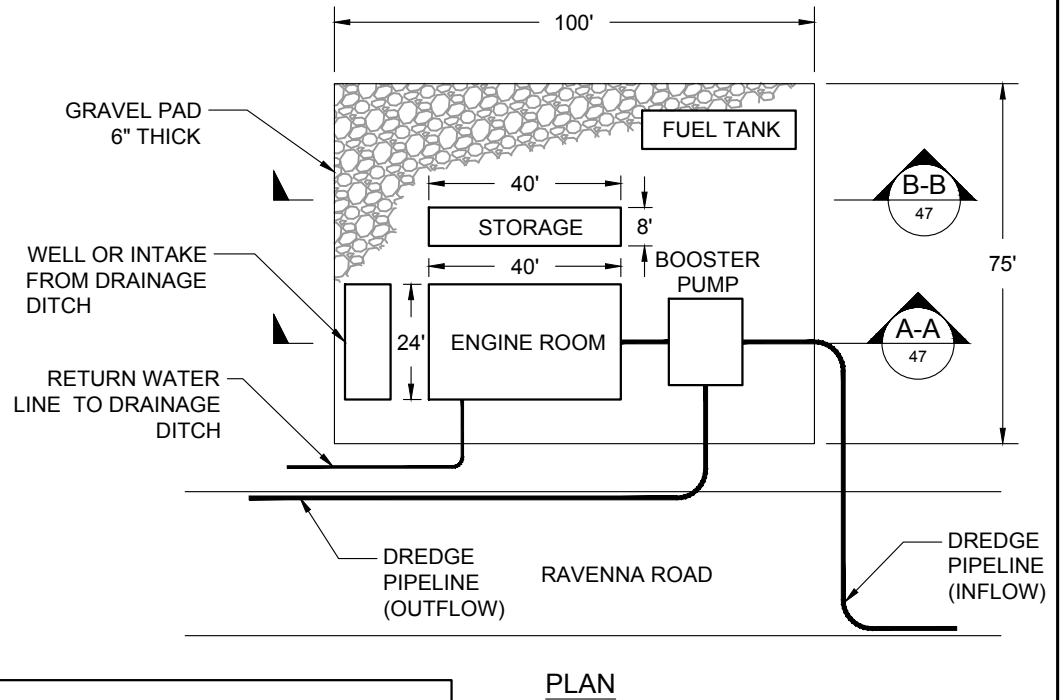
- APPROXIMATELY TWENTY-FIVE (25) TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT 500' MAX SPACING. THE 2" BORDER ON THE WARNING SIGN WILL BE RETROREFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A RETROREFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a)(1) W
- NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 1014.05 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
- 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 AWPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
- TIMBER PILING SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
- 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	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TEMPORARY SHOAL WARNING SIGN DETAILS - PERMITTED		
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
					APPROVED BY:		FEDERAL PROJECT NUMBER: BA-207	SHEET 46 OF 54
DRAWN BY: JAD			DESIGNED BY: NC					



10 LANDSIDE BOOSTER PUMP DETAILS
15 NOT TO SCALE

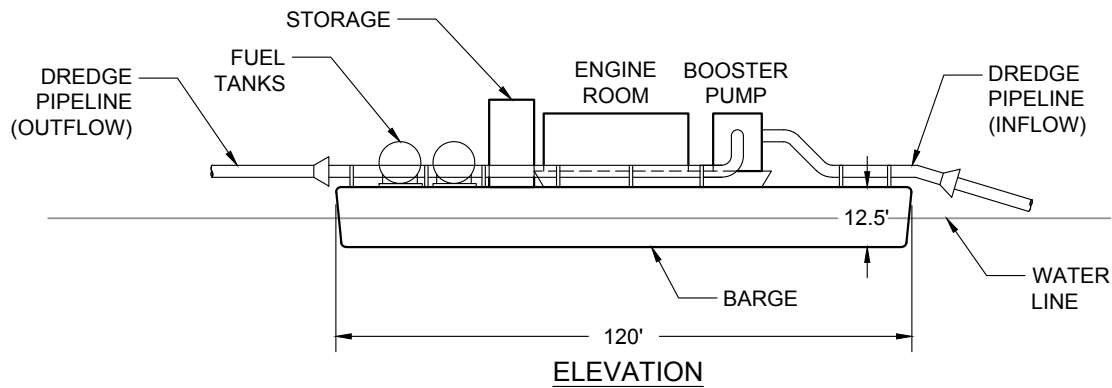
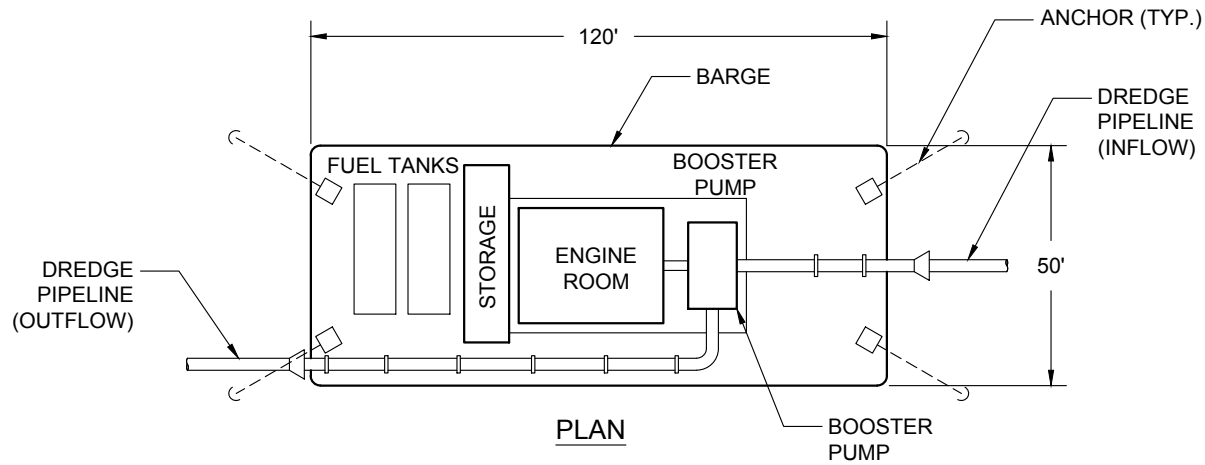
NOTES:
 1. TYPICAL LANDSIDE BOOSTER SETUP. ACTUAL MAY VARY.



PROVIDE DIRT ROAD CROSSINGS FOR ALL PIPELINE LOCATIONS BLOCKING LANDOWNER ACCESS (TYP)
 CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE CULVERTS AS NECESSARY TO MAINTAIN DRAINAGE ALONG DREDGE PIPELINE, (TYP)

**NO MODIFICATIONS
 MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	LANDSIDE BOOSTER PUMP PLAN AND ELEVATIONS - PERMITTED		
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
					APPROVED BY:		FEDERAL PROJECT NUMBER: BA-207	SHEET 47 OF 54
DRAWN BY: JAD	DESIGNED BY: NC							

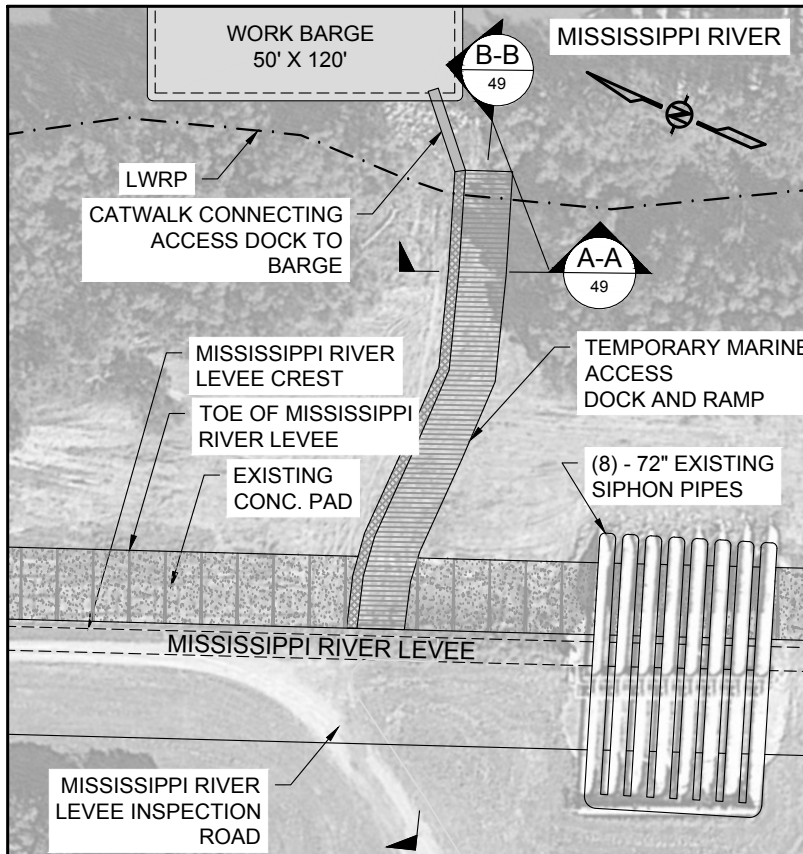


11
21 **FLOATING BOOSTER PUMP DETAILS**
NOT TO SCALE

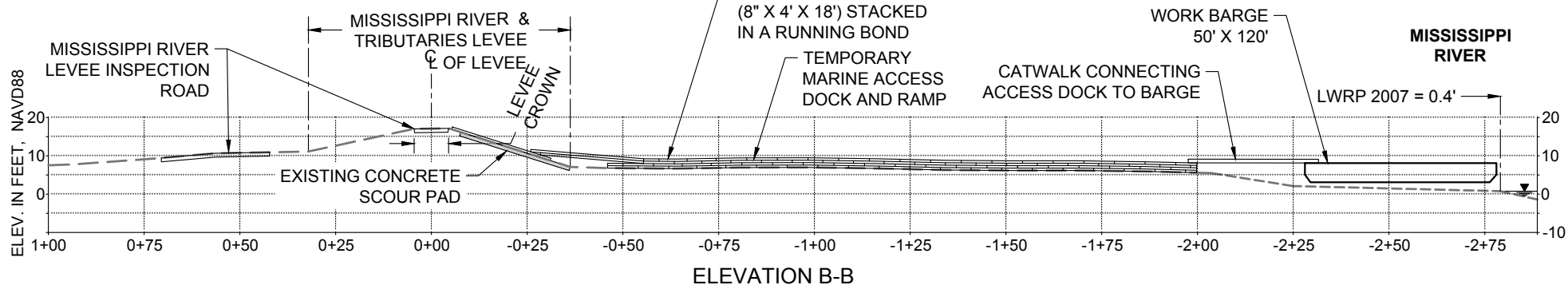
NOTE:
TYPICAL FLOATING BOOSTER SETUP.
ACTUAL MAY VARY.

NO MODIFICATIONS
MADE TO THIS SHEET

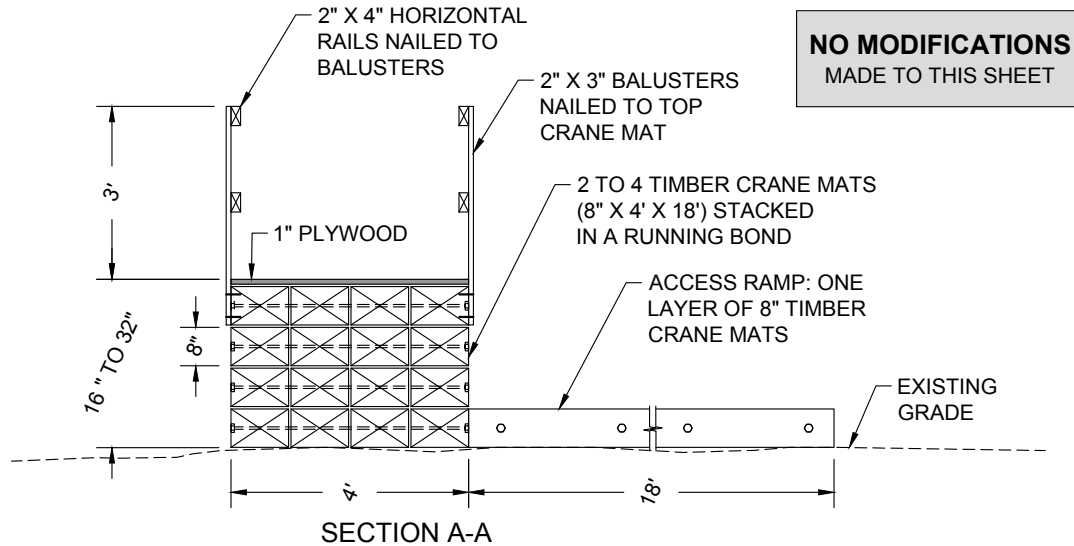
BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	FLOATING BOOSTER PUMP PLAN AND ELEVATIONS - PERMITTED	
							STATE PROJECT NUMBER:
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207	SHEET 48 OF 54



PLAN VIEW



ELEVATION B-B




SECTION A-A

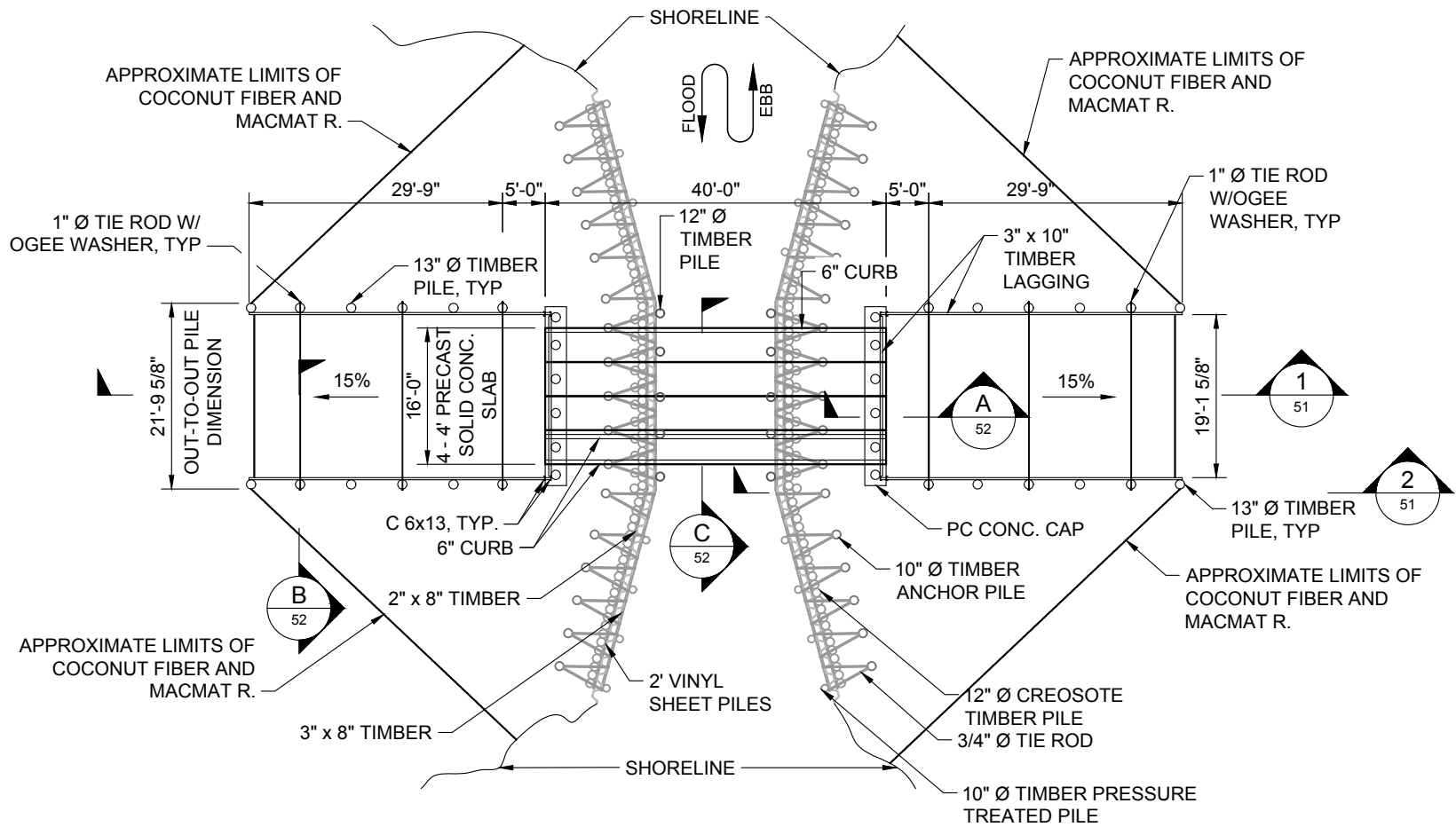
**NO MODIFICATIONS
MADE TO THIS SHEET**

NOTES:

1. EXISTING GRADES BASED ON JANUARY 2012 TBS SURVEY.
2. TEMPORARY MARINE ACCESS DOCK WILL BE PLACED TO FACILITATE CONSTRUCTION PERSONNEL ACCESS TO THE MISSISSIPPI RIVER.
3. ACCESS DOCK DETAILS BASED ON BA-39 PROJECT CONSTRUCTION. ACTUAL DETAILS MAY VARY.
4. ACCESS DOCK TO BE COMPLETELY REMOVED AFTER PROJECT IS COMPLETE.

12 TEMPORARY MARINE ACCESS DOCK DETAILS
21 NOT TO SCALE

BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	TEMPORARY MARINE ACCESS DOCK DETAILS - PERMITTED	
							STATE PROJECT NUMBER:
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207	SHEET 49 OF 54



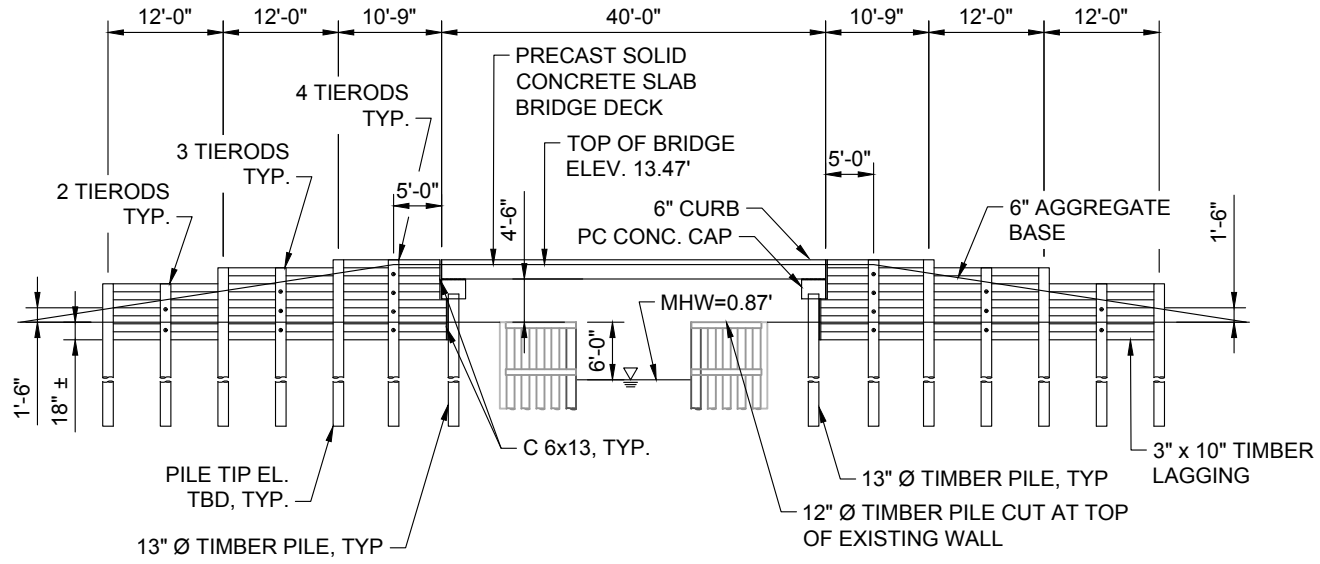
NOTE:
METAL GRATE BRIDGE WAS REMOVED AS PART
OF BA-43 (EB) PROJECT, AND EXISTING
CONCRETE SLAB BRIDGE WAS CONSTRUCTED.

13 CONSTRUCTED BRIDGE PLAN
16 SCALE: 1" = 20'-0"

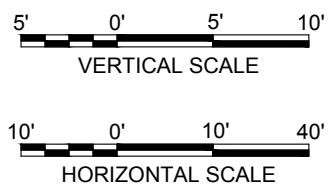
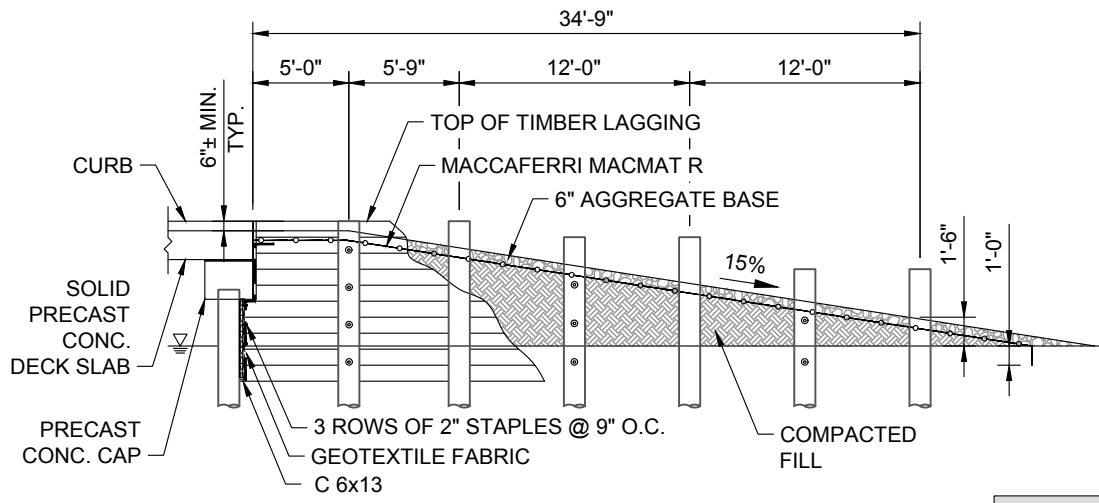


**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	 moffett & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	NEW BRIDGE PIPE CROSSING DETAILS (SHEET 1 OF 3) - CONSTRUCTED
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER:	BA-207



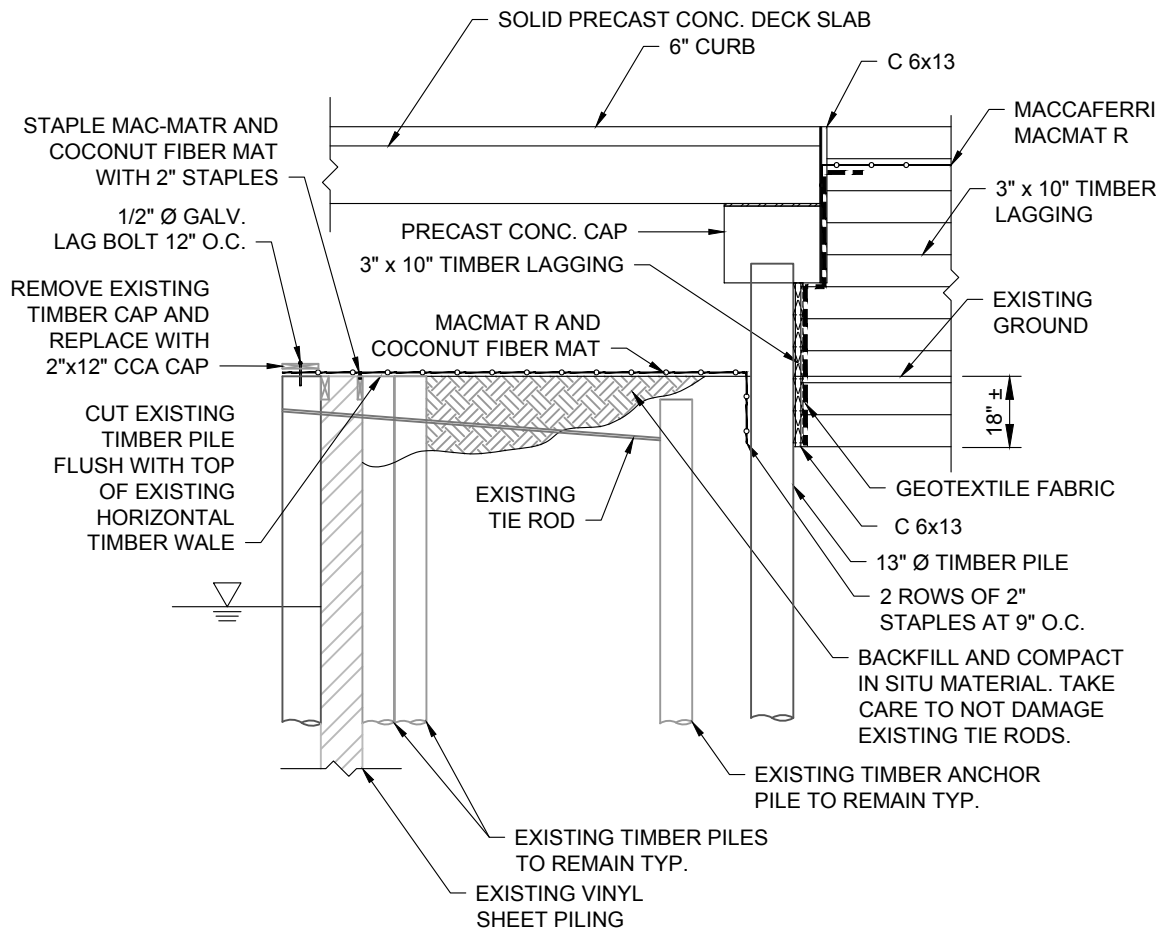
1 CONSTRUCTED BRIDGE ELEVATION
 SCALE: 1" = 20'-0"



2 SECTION OF APPROACH
 SCALE: 1" = 10'-0"

**NO MODIFICATIONS
 MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	NEW BRIDGE PIPE CROSSING DETAILS (SHEET 2 OF 3) - CONSTRUCTED	
			 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	STATE PROJECT NUMBER:	DATE: JUNE, 2020
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:			FEDERAL PROJECT NUMBER: BA-207	SHEET 51 OF 54	



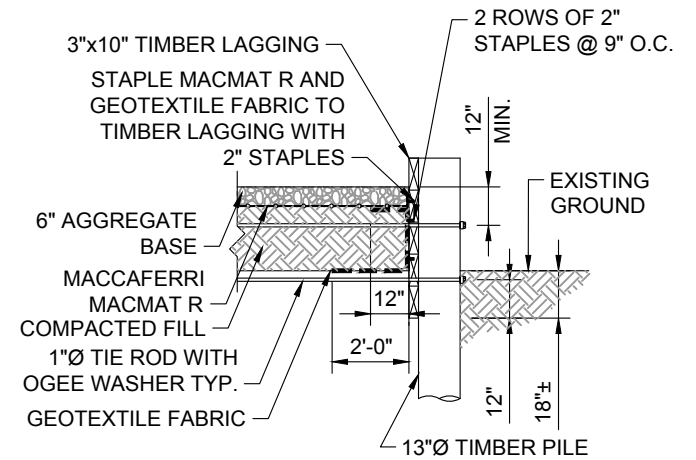
A SECTION AT END BENT
50 SCALE: 1" = 10'-0"



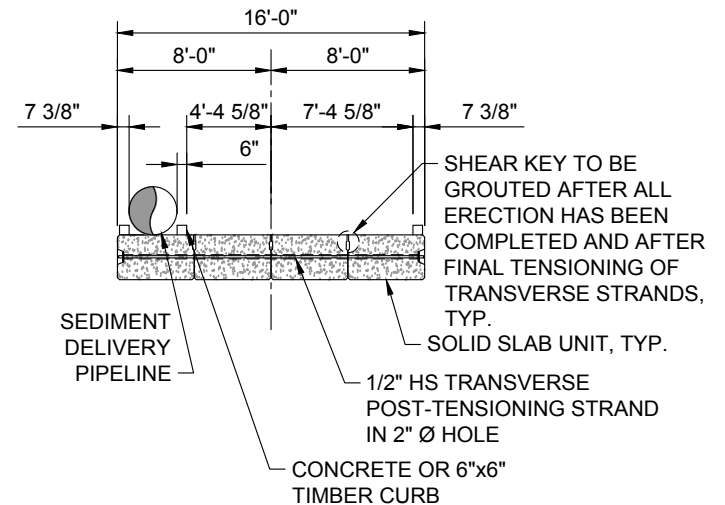
FOR DETAIL B



FOR DETAIL A AND C



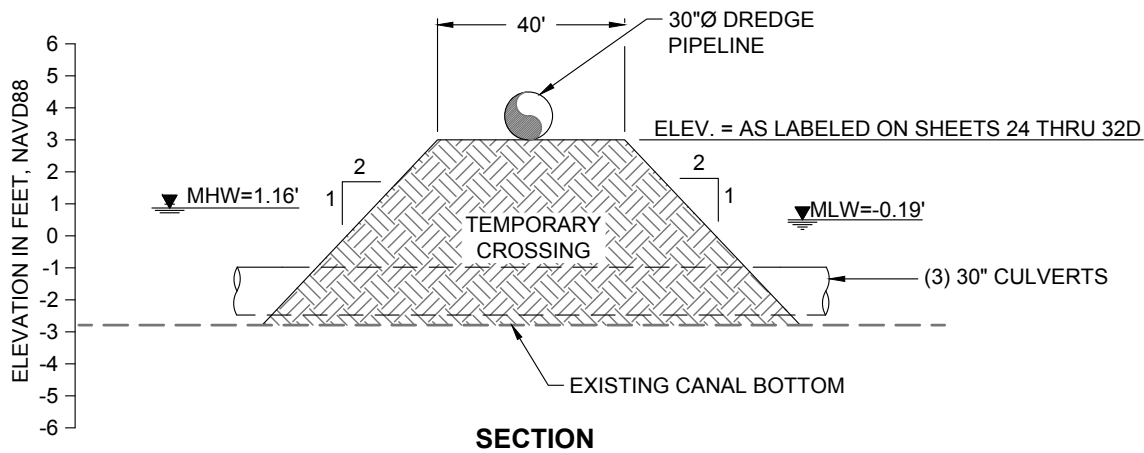
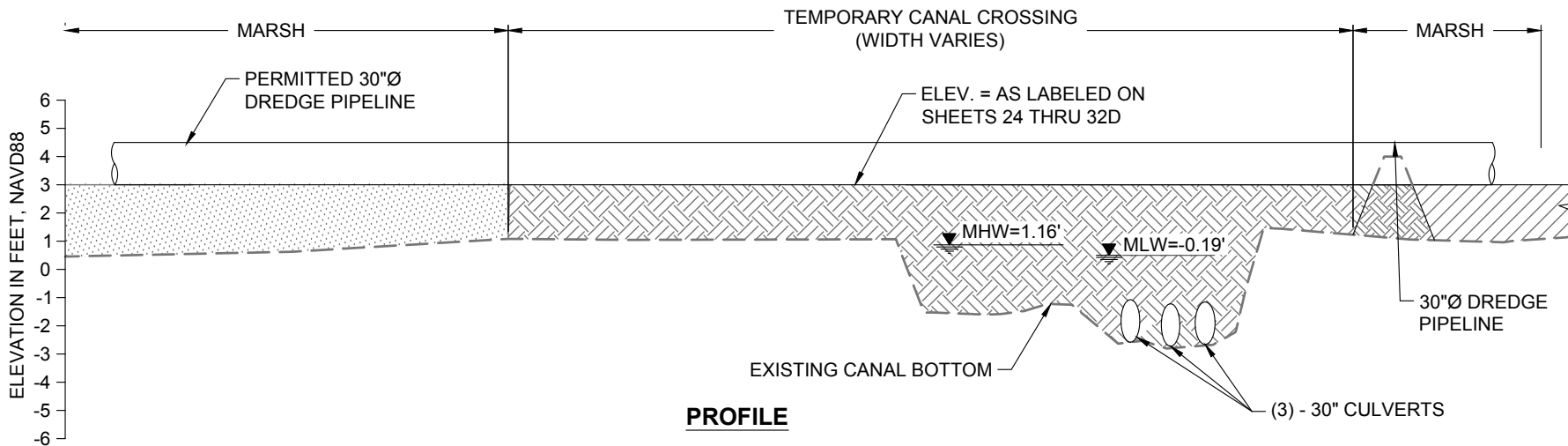
B SECTION THROUGH TIMBER LAGGING
50 SCALE: 1" = 5'-0"



C BRIDGE SLAB CROSS SECTION
50 SCALE: 1" = 10'-0"

**NO MODIFICATIONS
MADE TO THIS SHEET**

BY	DESCRIPTION	DATE	NOAA RESTORATION CENTER		LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	NEW BRIDGE PIPE CROSSING DETAILS (SHEET 3 OF 3) - CONSTRUCTED		
			 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075		5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206		STATE PROJECT NUMBER:	DATE: JUNE, 2020
					APPROVED BY:	FEDERAL PROJECT NUMBER:	BA-207	SHEET 52 OF 54
DRAWN BY: JAD			DESIGNED BY: NC					



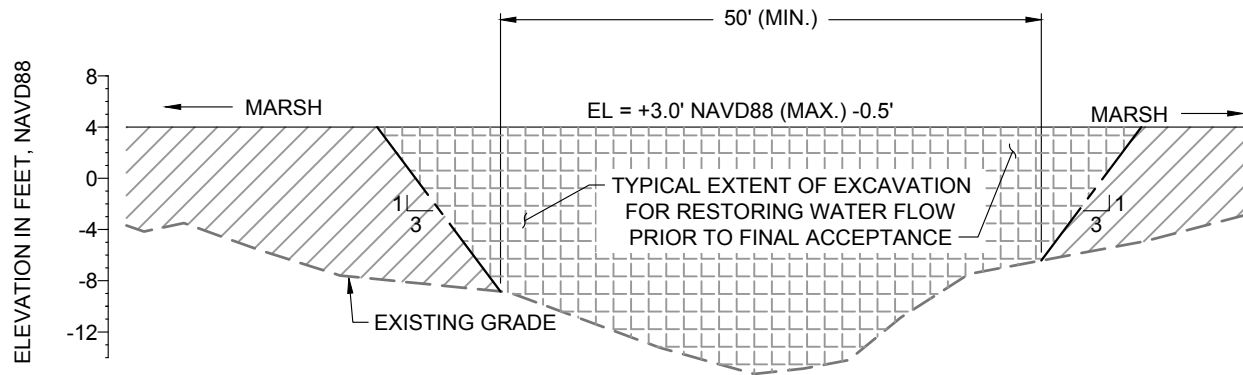
NOTES:

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.

14 TEMPORARY CANAL CROSSING DETAIL - PROPOSED

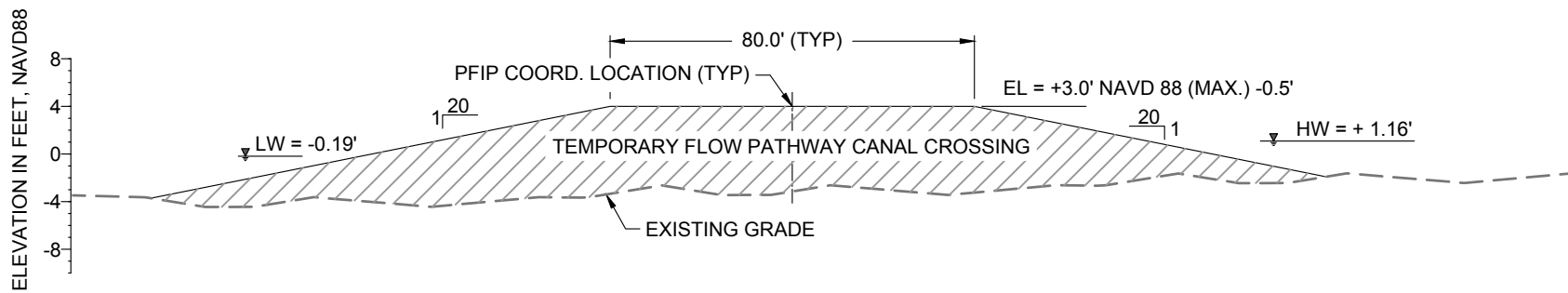
17, 20B, 20C, 20D, 33, **16** NOT TO SCALE

BY	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> TEMPORARY CANAL CROSSING DETAIL - PROPOSED </div>	
						<small>STATE PROJECT NUMBER:</small>	<small>DATE: JUNE, 2020</small>
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:				<small>FEDERAL PROJECT NUMBER:</small> BA-207	<small>SHEET 53 OF 54</small>



NOTES:

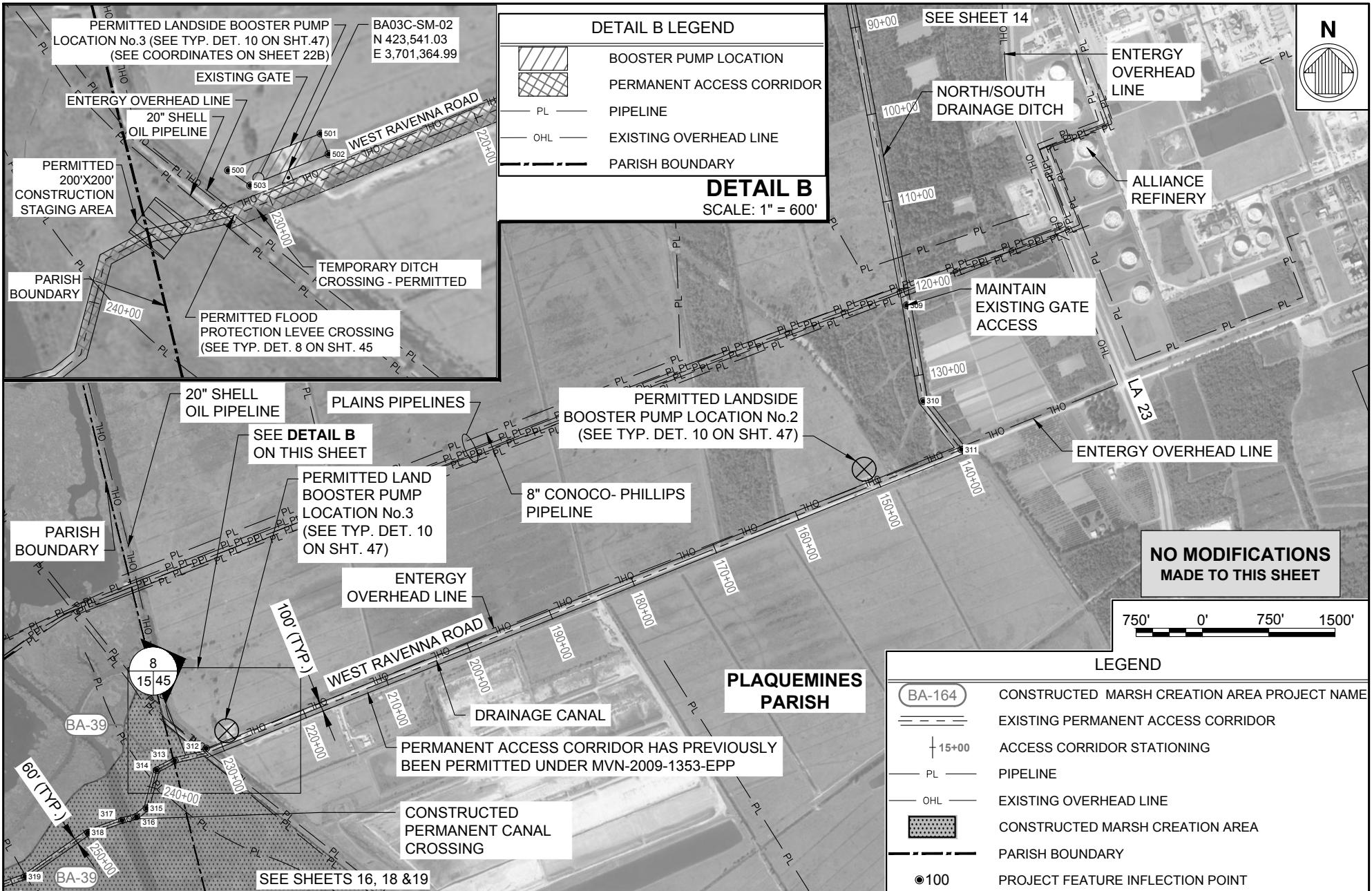
1. THE TEMPORARY CROSSINGS SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.



15 TEMPORARY FLOW PATHWAY CROSSING DETAIL
17 NOT TO SCALE

20A, 20B, 20C, & 20D

	DESCRIPTION	DATE	 moffatt & nichol <small>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075</small>	NOAA RESTORATION CENTER <small>5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206</small>	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> TEMPORARY FLOW PATHWAY CROSSING DETAIL - PROPOSED </div>		
							STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER:	BA-207
DRAWN BY: JAD					DESIGNED BY: NC	APPROVED BY:		SHEET 54 OF 54



DETAIL B LEGEND

- BOOSTER PUMP LOCATION
- PERMANENT ACCESS CORRIDOR
- PIPELINE
- EXISTING OVERHEAD LINE
- PARISH BOUNDARY

DETAIL B
SCALE: 1" = 600'

**NO MODIFICATIONS
MADE TO THIS SHEET**



LEGEND

- BA-164 CONSTRUCTED MARSH CREATION AREA PROJECT NAME
- EXISTING PERMANENT ACCESS CORRIDOR
- 15+00 ACCESS CORRIDOR STATIONING
- PIPELINE
- EXISTING OVERHEAD LINE
- CONSTRUCTED MARSH CREATION AREA
- PARISH BOUNDARY
- 100 PROJECT FEATURE INFLECTION POINT

BY	DESCRIPTION	DATE
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:

moffatt & nichol
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70801
225-336-2075

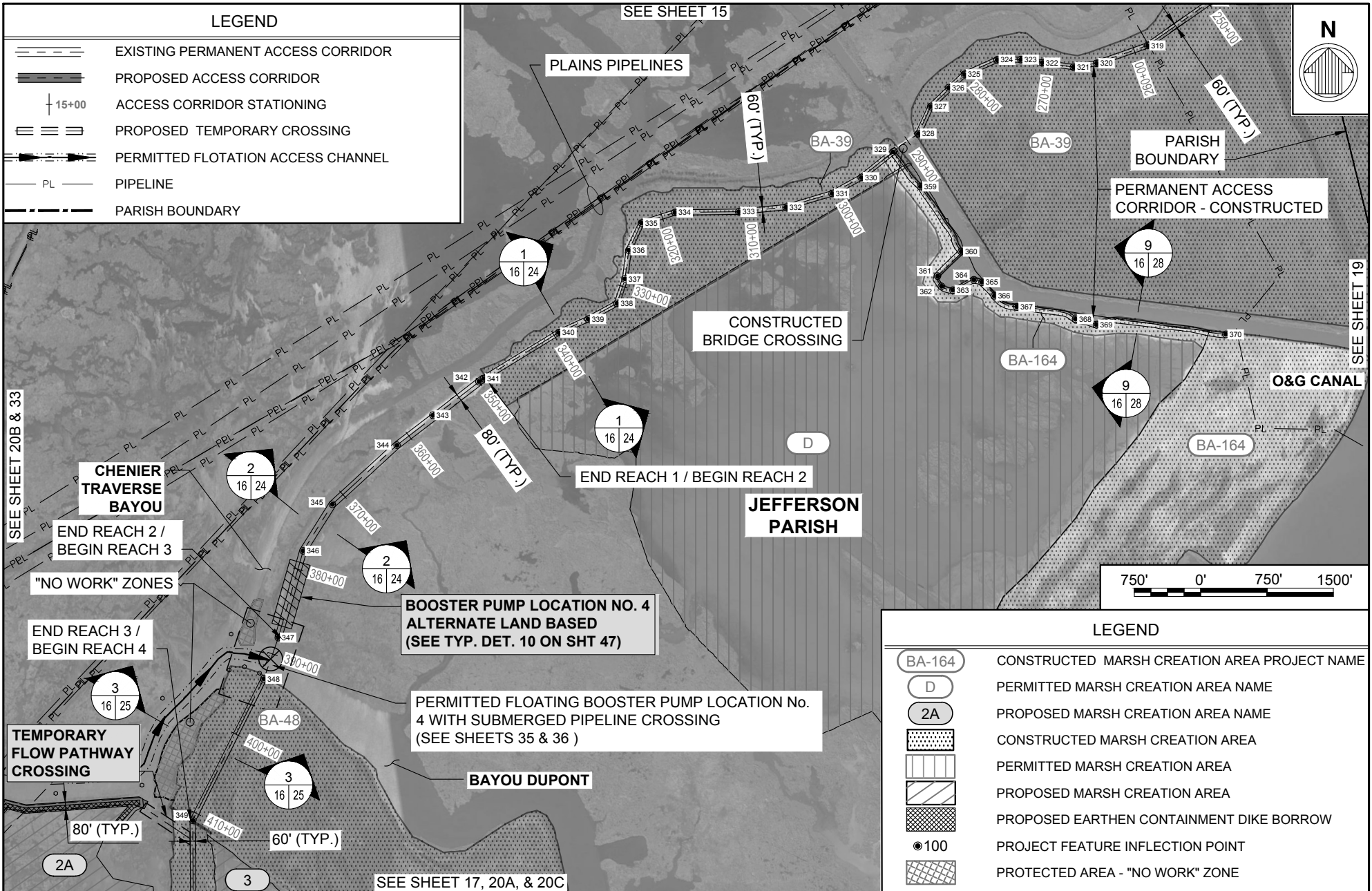
NOAA RESTORATION CENTER
5304 FLANDERS DR., SUITE B
BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
FEDERAL PROJECT NUMBER: BA-207

**PERMANENT ACCESS
CORRIDOR LAYOUT
(SHEET 2 OF 4) -
PERMITTED**

DATE: JUNE, 2020
SHEET 15 OF 54



BY	DESCRIPTION	DATE
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:

moffatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

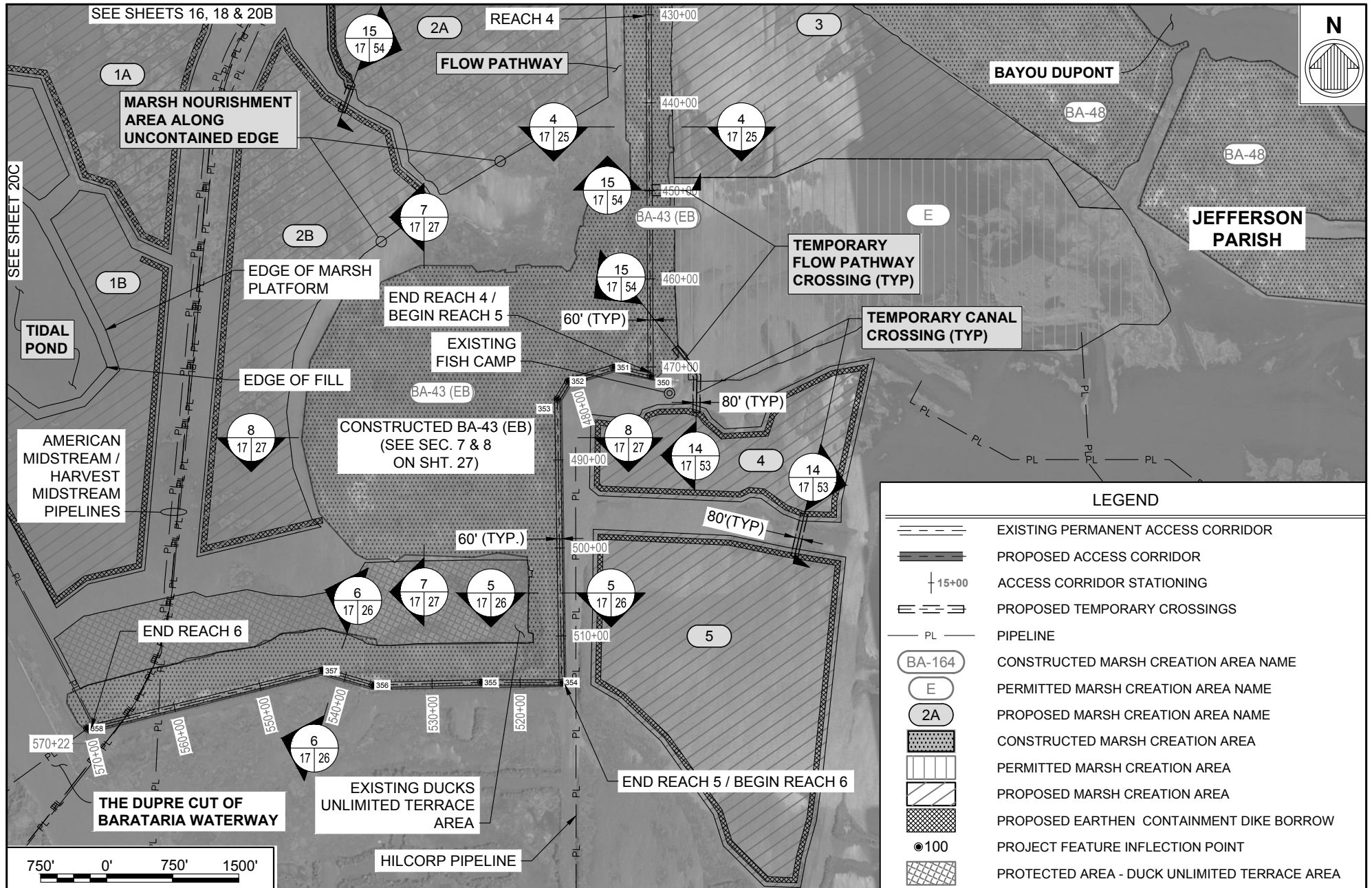
NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**PERMANENT ACCESS
 CORRIDOR LAYOUT
 (SHEET 3 OF 4) -
 PERMITTED**

DATE: JUNE, 2020
 SHEET 16 OF 54



BY	DESCRIPTION	DATE

moffatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

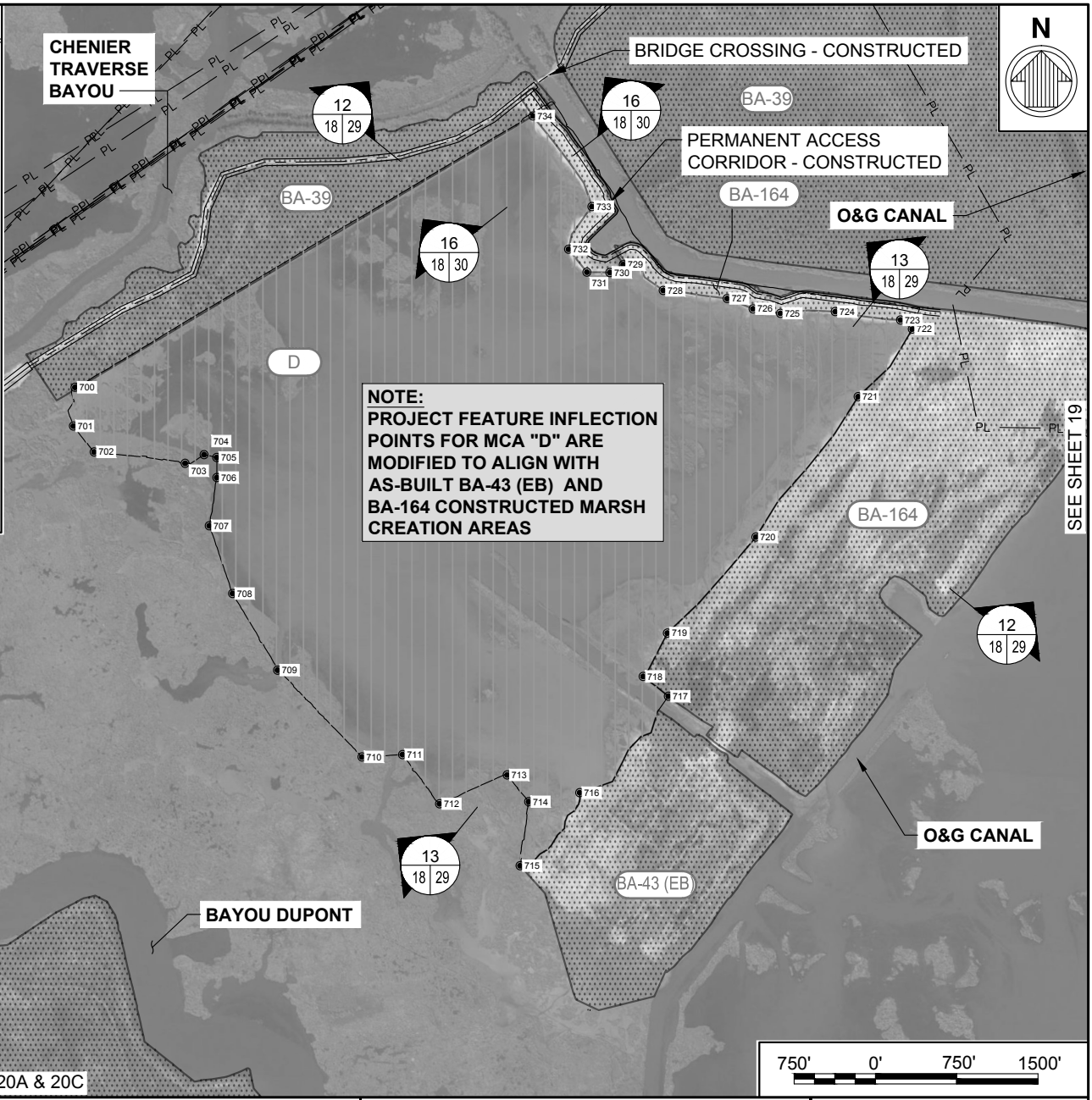
**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**PERMANENT ACCESS CORRIDOR LAYOUT
 (SHEET 4 OF 4) - PERMITTED**

DATE: JUNE, 2020
 SHEET 17 OF 54

LEGEND	
	EXISTING PERMANENT ACCESS CORRIDOR
	PROPOSED ACCESS CORRIDOR
	PROPOSED TEMPORARY CROSSING
	PROPOSED FLOATING PIPELINE CROSSING
	PERMITTED FLOTATION ACCESS CHANNEL
	PIPELINE
	CONSTRUCTED MARSH CREATION AREA NAME
	PERMITTED MARSH CREATION AREA NAME
	PROPOSED MARSH CREATION AREA NAME
	CONSTRUCTED MARSH CREATION AREA
	PERMITTED MARSH CREATION AREA
	PROPOSED MARSH CREATION AREA
	PROPOSED EARTHEN CONTAINMENT DIKE BORROW
	PROJECT FEATURE INFLECTION POINT
	PROTECTED AREA - "NO WORK" ZONE



NOTE:
PROJECT FEATURE INFLECTION POINTS FOR MCA "D" ARE MODIFIED TO ALIGN WITH AS-BUILT BA-43 (EB) AND BA-164 CONSTRUCTED MARSH CREATION AREAS



BY	DESCRIPTION	DATE

moftatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

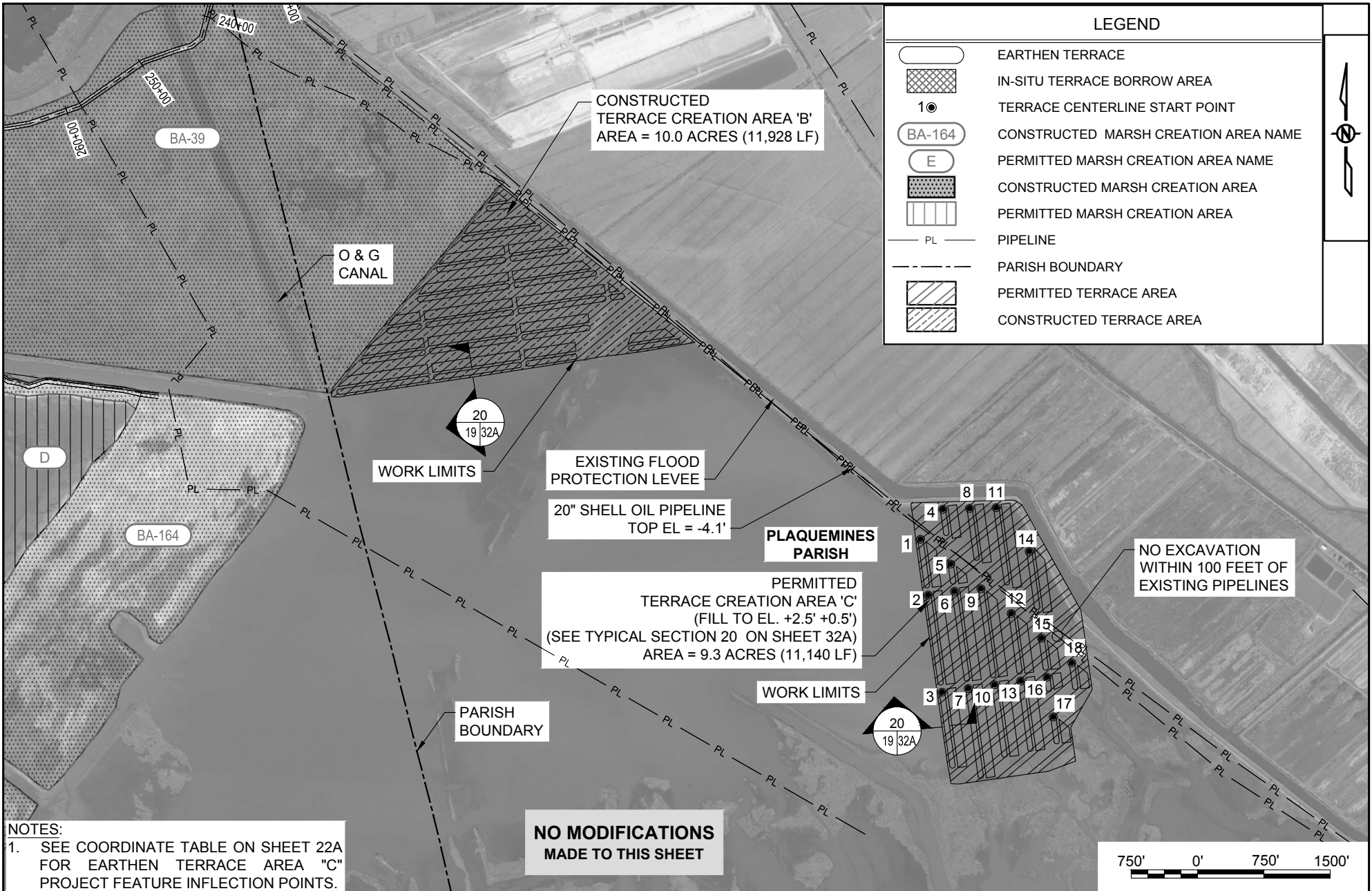
**ADDITIONAL MARSH
 FILL - AREA D -
 PERMITTED**

DATE: JUNE, 2020
 SHEET 18 OF 54

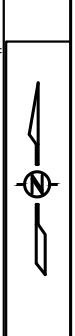
DRAWN BY: JAD

DESIGNED BY: NC

APPROVED BY:



LEGEND	
	EARTHEN TERRACE
	IN-SITU TERRACE BORROW AREA
	TERRACE CENTERLINE START POINT
	CONSTRUCTED MARSH CREATION AREA NAME
	PERMITTED MARSH CREATION AREA NAME
	CONSTRUCTED MARSH CREATION AREA
	PERMITTED MARSH CREATION AREA
	PIPELINE
	PARISH BOUNDARY
	PERMITTED TERRACE AREA
	CONSTRUCTED TERRACE AREA

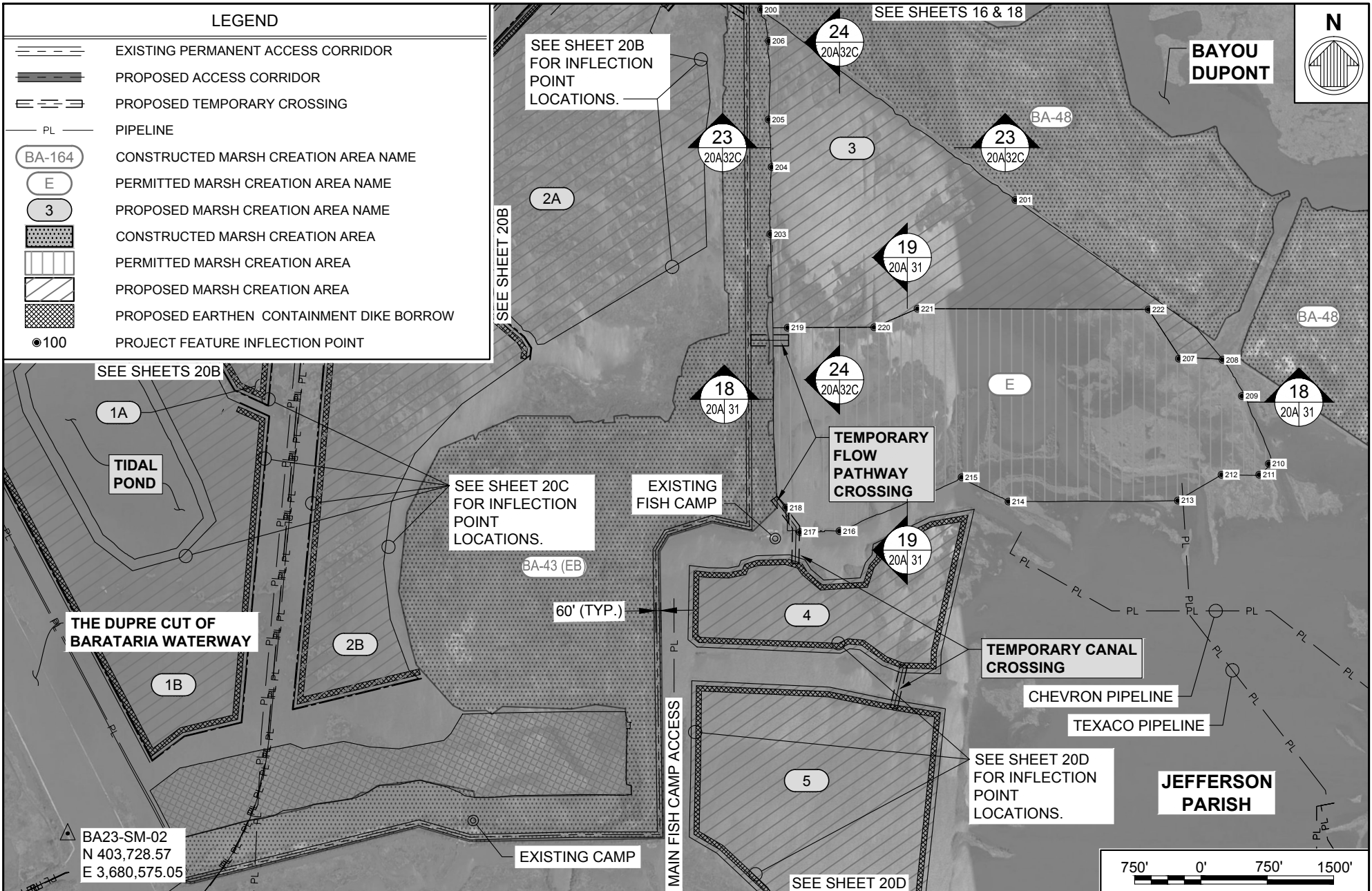


NOTES:
 1. SEE COORDINATE TABLE ON SHEET 22A FOR EARTHEN TERRACE AREA "C" PROJECT FEATURE INFLECTION POINTS.

**NO MODIFICATIONS
 MADE TO THIS SHEET**



BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	EARTHEN TERRACE - AREAS B AND C - PERMITTED		
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER: BA-207	SHEET 19 OF 54



BY	DESCRIPTION	DATE
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:

moftatt & nichol
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70801
 225-336-2075

NOAA RESTORATION CENTER
 5304 FLANDERS DR., SUITE B
 BATON ROUGE, LOUISIANA 70808-7206

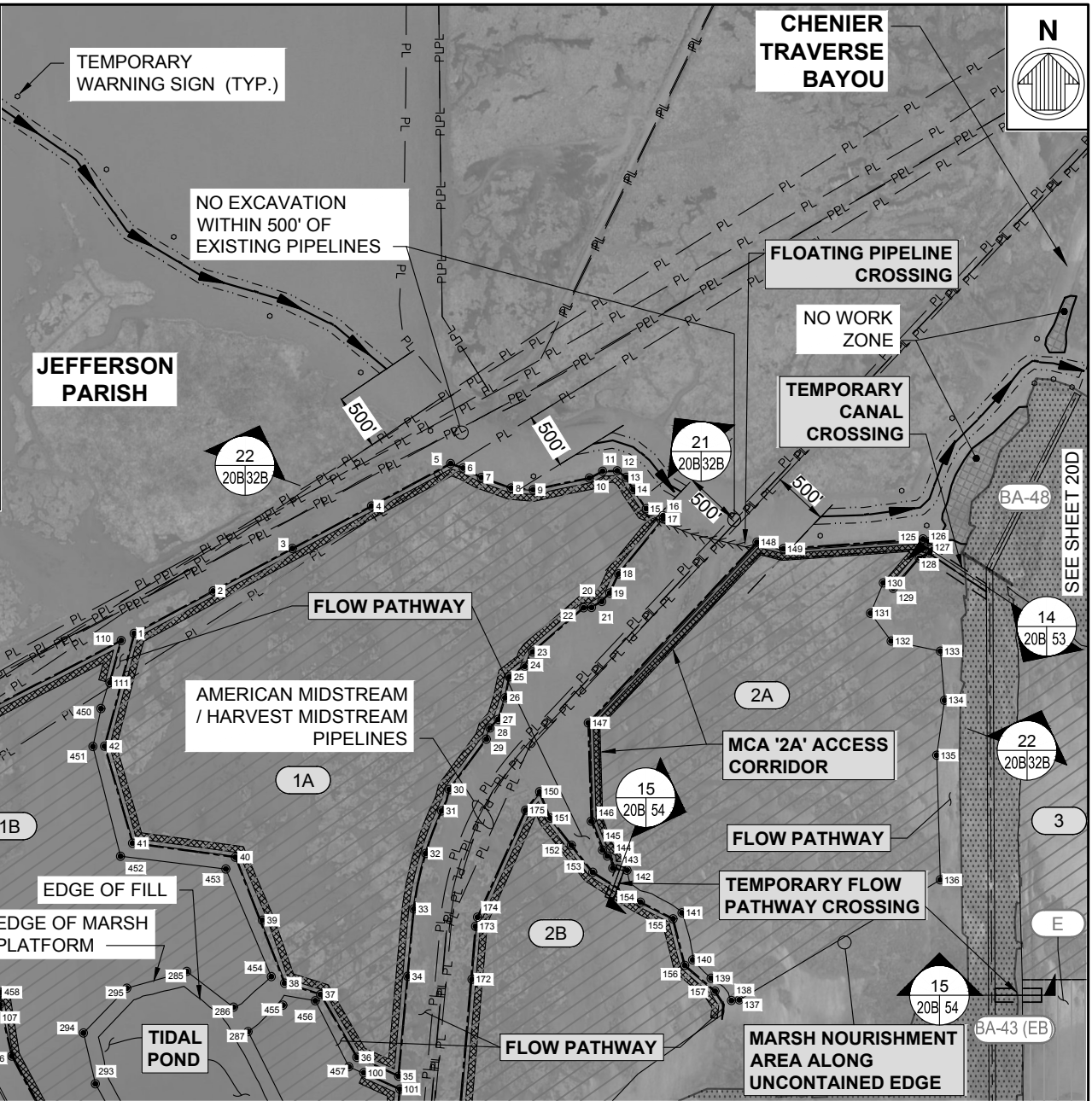
**LARGE-SCALE BARATARIA MARSH CREATION:
 UPPER BARATARIA COMPONENT**

STATE PROJECT NUMBER:
 FEDERAL PROJECT NUMBER: BA-207

**MARSH CREATION
 AREA 3 - PROPOSED &
 AREA E - PERMITTED**

DATE: JUNE, 2020
 SHEET 20A OF 54

LEGEND	
	EXISTING PERMANENT ACCESS CORRIDOR
	PROPOSED ACCESS CORRIDOR
	PROPOSED TEMPORARY CROSSING
	PROPOSED FLOATING PIPELINE CROSSING
	PERMITTED FLOTATION ACCESS CHANNEL
	PIPELINE
	CONSTRUCTED MARSH CREATION AREA NAME
	PERMITTED MARSH CREATION AREA NAME
	PROPOSED MARSH CREATION AREA NAME
	CONSTRUCTED MARSH CREATION AREA
	PERMITTED MARSH CREATION AREA
	PROPOSED MARSH CREATION AREA
	PROPOSED EARTHEN CONTAINMENT DIKE BORROW
	PROJECT FEATURE INFLECTION POINT



BY	DESCRIPTION	DATE	 moffatt & nichol ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70801 225-336-2075	NOAA RESTORATION CENTER 5304 FLANDERS DR., SUITE B BATON ROUGE, LOUISIANA 70808-7206	LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT	MARSH CREATION AREAS - 1A, 1B & 2A - PROPOSED		
DRAWN BY: JAD	DESIGNED BY: NC	APPROVED BY:					STATE PROJECT NUMBER:	DATE: JUNE, 2020
							FEDERAL PROJECT NUMBER: BA-207	SHEET 20B OF 54

STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES

During in-water work in areas that potentially support manatees, all personnel associated with the project shall be instructed and aware of the potential presence of manatees, manatee speed zones, and the need to avoid collisions with, and injury to, manatee. All personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel shall be instructed not to attempt to feed or otherwise interact with the animal.

All on-site personnel are responsible for observing water-related activities for the presence of manatee(s). To minimize potential impacts to manatees in areas of their potential presence, the permittee shall insure the following are adhered to:

- All work, equipment, and vessel operation shall cease if a manatee is spotted within a 50-foot radius (buffer zone) of the active work area. Once the manatee has left the buffer zone on its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings of manatee(s) in the buffer zone, in-water work can resume under careful observation for manatee(s).
- If a manatee(s) is sighted in or near the project area, all vessels associated with the project shall operate at “no wake/idle” speeds within the construction area and at all times while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom. Vessels shall follow routes of deep water whenever possible.
- If used, siltation or turbidity barriers shall be properly secured, made of material in which manatees cannot become entangled, and be monitored to avoid manatee entrapment or impeding their movement.
- Temporary signs concerning manatees shall be posted prior to and during all in-water project activities and removed upon completion. Each vessel involved in construction activities shall display at the vessel control station or in a prominent location, visible to all employees operating the vessel, a temporary sign at least 8½ " X 11" reading language similar to the following: “CAUTION BOATERS: MANATEE AREA/ IDLE SPEED IS REQUIRED IN CONSTRUCTION AREA AND WHERE THERE IS LESS THAN FOUR FOOT BOTTOM CLEARANCE WHEN MANATEE IS PRESENT”. A second temporary sign measuring 8½ " X 11" shall be posted at a location prominently visible to all personnel engaged in water-related activities and shall read language similar to the following: “CAUTION: MANATEE AREA/ EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION”.
- Collisions with, injury to, or sightings of manatees shall be immediately reported to the U.S. Fish and Wildlife Service’s, Louisiana Ecological Services Office (337/291-3100) and the Louisiana Department of Wildlife and Fisheries, Natural Heritage Program (225/765-2821). Please provide the nature of the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible.



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NEW ORLEANS DISTRICT
7400 LEAKE AVE
NEW ORLEANS, LA 70118-3651

July 23, 2021

Operations Manager
Completed Works

Mr. Chris Williams
Moffatt Nichol
301 Main Street, Suite 800
Baton Rouge, Louisiana 70801

Ms. Donna Rogers
National Oceanic and Atmospheric Administration
Restoration Center
5304 Flanders Drive, Suite B
Baton Rouge, Louisiana 70808

Section 408 Request Number: 408-MVN-2020-0022

Dear Mr. Williams and Ms. Rogers,

The New Orleans District ("District") of the U.S. Army Corps of Engineers (USACE) has completed its evaluation of your request dated February 26, 2021, and Department of the Army permit application dated June 23, 2020, from Moffatt Nichol, on behalf of National Oceanic and Atmospheric Administration Restoration Center (NOAA), concerning permission to construct the Large-Scale Barataria Marsh Creation Project (BA-0207) Upper Barataria Component Project (UBMC), consisting of dredging sand from within the Mississippi River and placing a temporary discharge pipe across the right descending Mississippi River levee (MRL) and New Orleans to Venice-Hurricane Protection levee (NOV-HPL), which is operated and maintained by the West Plaquemines Levee District (WPLD)/Plaquemines Parish Government (PPG), under Section 14 of the Rivers and Harbors Act of 1899, 33 USC 408 (Section 408). This evaluation was performed consistent to Engineer Circular (EC) 1165-2-220.

By letters dated February 23, 2021, and May 11, 2021, the applicant was advised to modify certain portions of the proposal to comply with our standard criteria, and to submit additional information for our further review. Subsequently, by email dated May 21, 2021, the applicant submitted the necessary additional information which has been reviewed and approved.

Your request to construct the Large-Scale Barataria Marsh Creation project (BA-0207) in the Barataria Basin, by performing dredging sand within the Mississippi River, and by placing a temporary discharge pipe across the right descending MRL, vicinity of second order levee station 948+47, and across the NOV-HPL, vicinity of levee station 593+66, in Plaquemines Parish, Louisiana, has been validated for use with the New Orleans District Categorical Permission letter dated August 30, 2018, subject to compliance with the terms and conditions below and attached.

a. In verifying authorization under this permission, USACE has relied in part on the information provided by the Requester and/or the Requester's Agent. If, subsequent to verifying authorization, such information proves to be false, incomplete, or inaccurate, this permission may be modified, suspended, or revoked, in whole or in part.

b. The Requester shall ensure that all structures, work, and activities authorized by this permission comply with all terms and conditions herein. Failure to abide by such conditions invalidates the authorization and permission and may result in a violation of the law, requiring restoration of the site or other remedial action.

c. The approved alteration work shall be accomplished and performed in accordance with the Section 408 request letter dated February 26, 2021, and the Department of the Army joint permit application (MVN-2009-01353-EPP), accompanying drawings, and all other supporting documentation.

d. The Requester shall not interfere with the construction contractor of the NOV-NF-05a.1 contract or impede access in any way. The Requester must coordinate with the USACE Contracting Officer's Representative, Mr. Kenny Crumholt at (504)862-2489 or by email at Kenneth.W.Crumholt@usace.army.mil.

e. The Requester cannot spud or anchor into the existing revetment.

f. The vessels must maintain a minimum of three feet of clearance over the underwater revetment during any river stage.

g. All work over the Mississippi River levee and within 15 feet of the levee toes is performed and completed while 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.

h. The proposed work does not restrict the Levee District's maintenance operations or any potential flood fight activities at the levee, nor shall it obstruct or impede inspection access along the levee crown.

i. The Requester must perform and maintain the approved alteration (temporary pipeline) authorized by this permission in good condition and in conformance with the terms and conditions of this permission. The Requester is not relieved of this requirement if it abandons the alteration, although it may make a good faith transfer to a third party as described in condition "j" below. Should the Requester wish to cease to maintain the authorized work/activity or should it desire to abandon it without a good faith transfer, it must obtain a modification of this permission from the New Orleans District, Operations Division which may require restoration of the altered areas.

j. If the Requester sells the approved alteration (temporary pipeline) or any part thereof, which is the subject of this permission, the Requester must provide the New Orleans District, Operations Division with a copy of the permission and a letter noting the agreement to transfer the permission to the new owner, and the new owner's agreement to accept the permission and abide by all conditions of the permission. This letter must be signed by both parties.

k. Without documentation of a transfer or ownership on file with USACE, the Requester will be considered the owner and responsible party for the temporary pipeline.

l. The Requester understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, the Requester will be required upon due notice from the 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.

m. The approved alteration and related authorized activities shall not alter or change the alignment of the Mississippi River Levee, HSDRRS NOV-NF-05a.1 levee or other federal project features in any way. The approved alteration shall not restrict the operations and maintenance of any USACE projects, nor shall the work obstruct or impede access within the USACE projects. No problems associated with or related to the operation, maintenance, repair, replacement, or rehabilitation of any USACE project may be created as a result of the approved alteration.

n. The Requester shall be solely responsible, physically and financially, for the response, mitigation, repair, remediation and restoration, in a manner satisfactory to USACE, of any damage to the USACE projects or injury to the public interest.

o. Any modification to the approved plans and specification requires a submission of the documentation of the modification to the New Orleans District, Operations Division, for review and a determination of approval or denial of the requested modification. Significant changes, additions, and/or supplements to the approved scope of work for

the approved alteration which alters the existing use and function of the approved alteration will require re-submission of a Section 408 permission application to USACE for re-evaluation under Section 408 prior to the commencement of any construction activities. The documentation must be stamped by a registered engineer and approved by USACE before the Requester's modification may commence.

p. Should changes occur in the location or section of the existing Levees, or other federal project features, and/or in the generally prevailing conditions in the vicinity, or in any maintenance be required in the future as determined solely with the discretion of USACE, the Requester shall make any USACE required changes to the approved alteration, as may be necessary to satisfactorily remedy the situation and the Requester shall bear all costs associated therewith.

q. Written notification to be provided by the Requester to the New Orleans District, Operations Division of the construction timeline for the Project shall include the proposed start and end dates. You must notify the USACE New Orleans District 7 days before work/usage is started so that post-permission oversight can be performed by USACE. Additionally, the Requester shall notify the New Orleans District, Operations Division prior to commencement of construction of the approved alteration and upon completion of the alteration authorized herein.

r. Any damage to the Levees, batture, bank, revetment, and/or any other features of the affected federal projects, resulting from the construction, operation, maintenance, use, and/or existence of the approved alteration authorized herein shall be repaired at the Requester's sole expense.

s. In issuing this permission, the United States of America and USACE do not assume any liability for the following:

(1) Damages to the approved alteration/permitted work or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

(2) Damages to the approved alteration/permitted work or uses thereof as a result of current or future activities undertaken by or on behalf of USACE or the United States in the public interest.

(3) Damages to persons, property, approved alteration or to other permitted or unpermitted activities or structures caused by the work authorized by this permission letter.

(4) Design or construction deficiencies associated with the approved alteration/permitted work.

(5) Damage claims associated with any future modifications, suspension, or revocation of this permission letter.

t. It is the Requester's responsibility to coordinate with the Coastal Protection and Restoration Authority of Louisiana, West Plaquemines Levee District regarding any additional permits and/or permissions required for this work. Additionally, any permission granted hereby does not obviate Requester's requirement to obtain other federal, state, or local permits required by law, and no work shall commence until all necessary permits are required.

u. The Requester shall comply with all applicable Federal, state, and local environmental laws and regulations, including those relating to the release, storage and handling of hazardous substances and those relating to the prevention of and response to oil spills. In the event of any release or spill or threatened release, the Requester shall immediately notify the New Orleans District, Operations Division.

v. The Requester shall comply with the attached National Historic Preservation Act Standard Conditions.

w. The Requester must obtain a Department of the Army, Section 404 permit for compliance with Section 404 of the Clean Water Act prior to any construction on lands or waterways subject to Section 408 review.

x. The Requester must obtain a Department of the Army, Section 10 permit for compliance with Section 10 of the River and Harbors Act of 1899 prior to any construction on lands or waterways subject to Section 408 review.

y. The requester must obtain a Coastal Use Permit from the Department of Natural Resources, Office of Coastal Zone Management prior to initiating construction within the area subject to Section 408 review.

z. The Requester will, at his or her 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.

aa. 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, the Requester is advised to notify the appropriate Captain of the Port so that a Notice to Mariners, if required, may be provided about one month before you plan to start work. Contact information for the local Captain of the Port's offices may be located at <https://homeport.uscg.mil> under "port directory". In addition, a copy of your permit approval and drawings should be mailed to the Commander, Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, or emailed to D08-DGDistrict-DPW@uscg.mil. Telephone inquiries can be directed to the Eighth Coast Guard District, Waterways Management at (504) 671-2330.

bb. 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 the Requester's 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.

cc. The Requester 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).

dd. While this project is ongoing, the Requester must be aware that the USACE may issue a contract to build the sill. If USACE issues a sill solicitation, the requester shall allow its contractor to bid on the sill contract. If the Requester's contractor is awarded the sill contract, then the Requester shall release the contractor for the time required to build the sill. If the requester's contractor chooses not to bid on the sill contract or another contractor is awarded the sill contract, the Requester's 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.

ee. 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 the Requester. These additional costs could occur after this permit has expired. These additional costs will be calculated by the USACE. The Requester shall provide funds prior to USACE opening bids for the saltwater barrier sill contract.

ff. 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 C/L and El. +5 feet. The permittee 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 cubic yards reserved area (material to be reserved above elevation - 70NGVD). USACE must approve the dredging plan prior to the commencement of the requesters work. The surveys and plans shall be updated every 30 days until project completion. All updated plans must also be approved before the Requester 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 by email at heather.l.jennings@usace.army.mil.

gg. To address navigation safety during construction of the project, the Requester 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.

For any questions regarding your Section 408 request, 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.

Sincerely,

PARK.MICHAEL.FL
OYD.1230860226

Digitally signed by
PARK.MICHAEL.FLOYD.1230860226
Date: 2021.07.23 15:09:40 -05'00'

Michael F. Park
Chief, Operations Division
New Orleans District
U.S. Army Corps of Engineers

Enclosures

cc (w/enclosures):

Mr. Ignacio Harrouch
Chief Operations
Coastal Restoration and Protection Authority
150 Terrace Avenue
Baton Rouge, Louisiana 70802

Mr. Kirk Lepine, Parish President
Plaquemines Parish Government
333 F. Edward Hebert Boulevard
Building 100
Belle Chasse, Louisiana 70037

U.S. Army Corps of Engineers
New Orleans District
Section 408
Standard Terms and Conditions

LIMITS OF THE AUTHORIZATION

1. This permission only authorizes you, the requester, to undertake the activity described herein under the authority provided in Section 14 of the Rivers and Harbors Act of 1899, as amended (33 USC 408). This permission does not obviate the need to obtain other federal, state, or local authorizations required by law. This permission does not grant any property rights or exclusive privileges, and you must have appropriate real estate instruments in place prior to construction and/or installation.
2. The time limit for completing the work authorized end on (5 years for the date of 408 permission). If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
3. Without prior written approval of the USACE, you must neither transfer nor assign this permission nor sublet the premises or any part thereof, nor grant any interest, privilege or license whatsoever in connection with this permission. Failure to comply with this condition will constitute noncompliance for which the permission may be revoked immediately by USACE.
4. The requester understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration of the work herein authorized, or if, in the opinion of the Secretary of the Army or an authorized representative, said work will cause unreasonable conditions and/or obstruction of USACE project authorized design, the requester will be required upon due notice from the USACE, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim can be made against the United States on account of any such removal or alteration.

INDEMNIFICATION AND HOLD HARMLESS

5. The United States will in no case be liable for:
 - a. Any damage or injury to the structures or work authorized by this permission that may be caused or result from future operations undertaken by the United States, and no claim or right to compensation will accrue from any damage; or
 - b. Damage claims associated with any future modification, suspension, or revocation of this permission.

6. The United States will not be responsible for damages or injuries which may arise from or be incident to the construction, maintenance, and use of the project requested by you, nor for damages to the property or injuries to your officers, agents, servants, or employees, or others who may be on your premises or project work areas of the federal project(s) rights-of-way. By accepting this permission, you hereby agree to fully defend, **indemnify** and **hold harmless** the United States and USACE from any and all such claims, subject to any limitations in law.
7. Any damage to the water resources development project or other portions of any federal project(s) resulting from your activities must be repaired at your expense.

REEVALUATION OF PERMISSION

8. The determination that the activity authorized by this permission would not impair the usefulness of the federal project and would not be injurious to the public interest was made in reliance on the information you provided.
9. This office, at its sole discretion, may reevaluate its decision to issue this permission at any time circumstances warrant, which may result in a determination that it is appropriate or necessary to modify or revoke this permission. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permission;
 - b. The information provided in support of your application for permission proves to have been inaccurate or incomplete; or
 - c. Significant new information surfaces which this office did not consider in reaching the original decision that the activity would not impair the usefulness of the water resources development project and would not be injurious to the public interest.

CONDUCT OF WORK UNDER THIS PERMISSION

10. You are responsible for implementing any requirements for mitigation, reasonable and prudent alternatives, or other conditions or requirements imposed as a result of environmental compliance.
11. Work/usage allowed under this permission must proceed in a manner that avoids interference with inspection, operation, and maintenance of the federal project.
12. In the event of any deficiency in the design or construction of the requested activity, you are solely responsible for taking remedial action to correct the deficiency.
13. The right is reserved to the USACE to enter upon the premises at any time and for any purpose necessary or convenient in connection with government purpose, to make inspections, to operate and/or to make any other use of the

lands as may be necessary in connection with government purposes, and you will have no claim for damages on account thereof against the United States or any officer, agent or employee thereof.

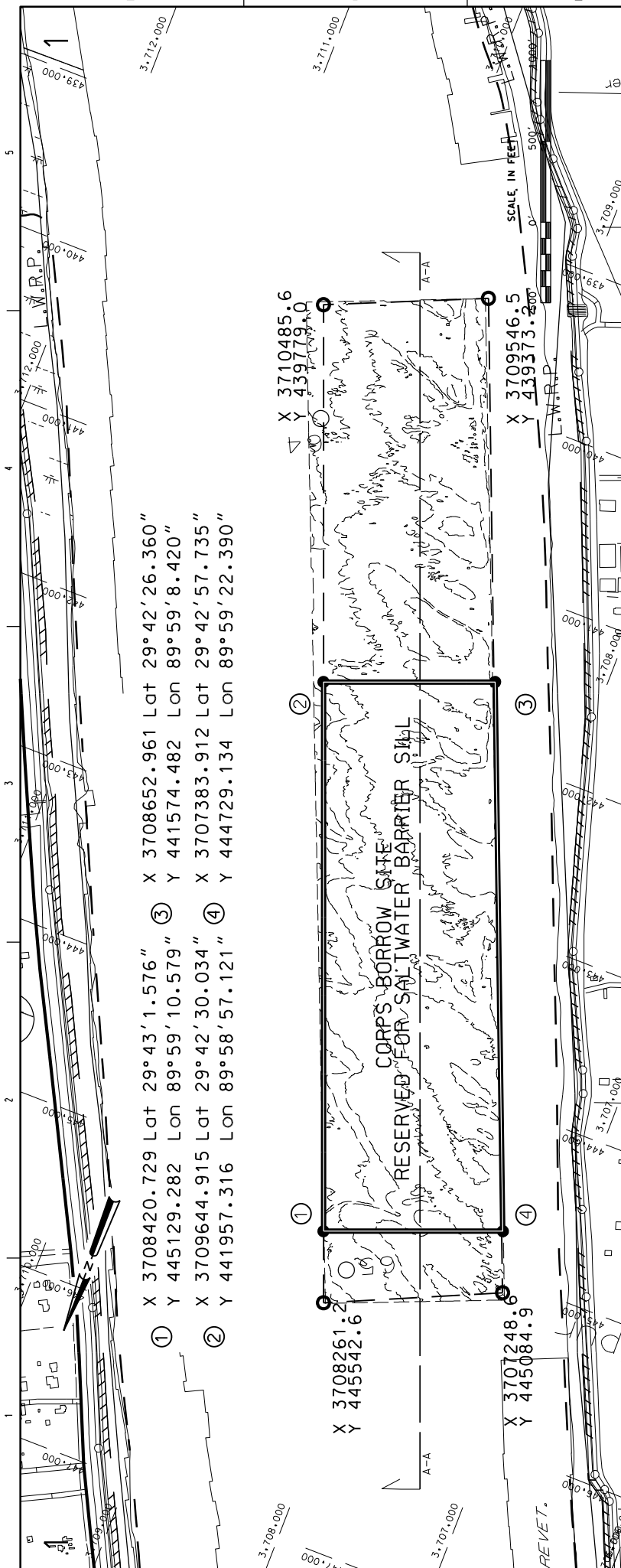
14. You must provide copied of pertinent design, construction, and/or usage submittal/documents. USACE may request that survey and photographic documentation of the alteration work and the impacted project area be provided before, during, and after construction and/or installation.
15. You may be required to perform an inspection of the federal project with the USACE, prior to your use of the structure, to document existing conditions.
16. USACE shall not be responsible for the technical sufficiency of the alteration design nor for the construction and/or installation work.
17. You must submit a copy of "as-built" drawings within 60 days of completion of work showing the new work as it relates to identifiable features of the federal project.

National Historic Preservation Act Standard Conditions

For any Section 408 permission, the requester is responsible for the actions of his contractors, subcontractors, and agents.

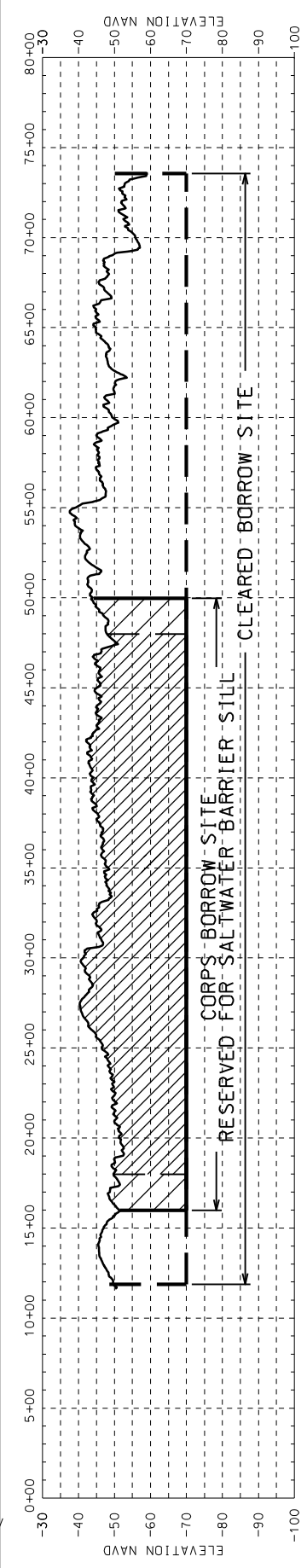
The USACE requires that the Requester:

- 1) Ensure that their agents understand that failure to comply with any project-specific conditions placed on their Section 408 Permission could jeopardize USACE approvals;
 - 2) Notify USACE as soon as possible of any change to the approved scope of work;
- a) **Discovery of Previously Unknown Archaeological Remains and Artifacts.** If you discover any previously unknown historic, cultural, or archeological remains (e.g., pot sherds, arrow points, historic foundations, broad collections of historic ceramics, etc.) while accomplishing the activity authorized by this permission, you must immediately notify your Operations Division (OD) contacts at USACE, who will in turn contact Planning Division (PD) staff. The requester will not proceed with work in the area of the discovery until USACE PD completes consultation with the Louisiana State Historic Preservation Officer, and others, as appropriate.
 - b) **Discovery of Human Burial Sites.** If human bone or unmarked grave(s) are discovered to be present in the project area, compliance with the Louisiana Unmarked Human Burial Sites Preservation Act (R.S. 8:671 et seq.) is required. Upon discovery, the requester or their agent shall notify the local law enforcement agency within twenty-four hours of the discovery. The Requester or their agent shall also notify USACE and the Louisiana Division of Archaeology within seventy-two hours of the discovery. Discoveries of unmarked graves, burials, human remains, or items of cultural patrimony on Federal or Tribal lands shall be subject to the Native American Graves Protection and Repatriation Act and the Archaeological Resources Protection Act. USACE PD will complete the necessary consultation to allow the activity that is receiving the permission to proceed.



① X 3708420.729 Lat 29°43'1.576" X 3708652.961 Lat 29°42'26.360"
 Y 445129.282 Lon 89°59'10.579" Y 441574.482 Lon 89°59'8.420"
 ② X 3709644.915 Lat 29°42'30.034" X 3707383.912 Lat 29°42'57.735"
 Y 441957.316 Lon 89°58'57.121" Y 444729.134 Lon 89°59'22.390"

X 3708261.2 Y 445542.6 ①
 X 3710485.6 Y 439779.0 ②
 X 3707248.8 Y 445084.9 ④
 X 3709546.5 Y 439373.2 ③



	U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT OPERATIONS DIVISION CHANNEL SURVEY SECTION	TECHNICAL STAFF: SURVEY: VESSELY FREQUENCY: PROCESSED BY: CHECKED BY:	MISSISSIPPI RIVER HYDROGRAPHIC SURVEY SALTWATER SILL BORROW AREA 1 MILE 63.87 TO 65.03	NOTES: ALL ELEVATIONS ARE EXPRESSED IN FEET AND REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1989 (NAVD89). CONTOURS ABOVE AND BELOW NAVD89 ARE EXPRESSED AT 5 FT. INTERVALS. PLANNING FROM AERIAL PHOTOGRAPHS FROM FEBRUARY 2002. AT 10 FT. INTERVALS. 1982 SURVEY.	LEGEND: 45 SOUNDING ELEV. PROJECT DEPTH CONTOUR DEPTH CONTOUR 15' INTERVALS! T-TARGET	SURVEY TYPE: CHANNEL CONDITION SURVEY CONDITION: CALM	SHEET NOTIFICATION 1
	DATE OF SURVEY: 05 SEP 2019 DATE OF LAST SURVEY: 25 SEP 2018 SURVEY TYPE: CHANNEL CONDITION SURVEY CONDITION: CALM	LMP: N/A GAGE RECORDING: N/A DATE OF LAST SURVEY: 25 SEP 2018 SURVEY TYPE: CHANNEL CONDITION SURVEY CONDITION: CALM	PROJECTION: LAMBERT CONFORMAL CONIC SYSTEM STATE PLANE: LOUISIANA SOUTH ZONE 1702 HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 (NAVD83) VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD89)	MISSISSIPPI RIVER HYDROGRAPHIC SURVEY SALTWATER SILL BORROW AREA 1 MILE 63.87 TO 65.03	LEGEND: 45 SOUNDING ELEV. PROJECT DEPTH CONTOUR DEPTH CONTOUR 15' INTERVALS! T-TARGET	SURVEY TYPE: CHANNEL CONDITION SURVEY CONDITION: CALM	SHEET NOTIFICATION 1

ATTACHMENT 1