JOINT PUBLIC NOTICE

October 13, 2020

United States Army
Corps of Engineers
New Orleans District
Regulatory Branch, ODR-E
Room 280
7400 Leake Avenue
New Orleans, Louisiana  70118

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

(504) 862-1564
Stephanie.L.Castaing@usace.army.mil
Project Manager
Stephanie Castaing
Permit Application Number
MVN-2009-1353-EPP

(225) 219-3225
Project Manager
Elizabeth Hill
WQC Application Number
WQC 201005-02

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

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

PERMIT MODIFICATION/TIME EXTENSION FOR LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT RESTORATION PROJECT (BA-207) WITHIN THE MISSISSIPPI RIVER IN JEFFERSON & PLAQUEMINES PARISHES

NAME OF APPLICANT: National Oceanic and Atmospheric Administration (NOAA)-Restoration Center, c/o Moffatt Nichol, 301 Main Street, Suite 800, Baton Rouge, Louisiana 70801.

LOCATION OF WORK: Project site is 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, as shown on the attached drawings.

Latitude: 29.61447  Longitude: -90.03938

Hydrologic Unit Codes: 08090100 Lower Mississippi-New Orleans.
  08090301 East-Central Louisiana Coastal.

CHARACTER OF WORK: Dredge within the Mississippi River at the notated Wills Point, Alliance Anchorage and Alliance South borrow areas for the addition of eight marsh fill areas, creating a total of 1,543 acres. The project shall be constructed using the previously authorized Mississippi River Long Distance Sediment Pipeline Project. The overall project purpose is to obtain renewable sediment sources to restore intertidal wetlands in the Barataria Basin. Project implementation will require an additional excavation amount of 37,662,164 cubic yards/589 acres and deposition amount of 25,346,079 cubic yards/3,474 acres.
The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close 30 days from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, ATTENTION: REGULATORY BRANCH.

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

**Corps of Engineers Permit Criteria**

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

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

The applicant coordinated the ESA and EFH consultations as part of procedures established by the Louisiana Trustee Implementation Group (LA TIG). LA TIG administers funds as part of the ongoing Deepwater Horizon (DWH) Settlement/National Resources Damage Assessment (NRDA) to restore for injuries resulting from the DWH oil spill. The ESA and EFH consultation letters were provided to avoid federal agency duplication of effort. The ESA and EFH consultations will be taken into consideration by CEMVN upon rendering a permit decision.

By letter dated April 14, 2020, the United States Fish & Wildlife Service (USFWS), stated they concur with the Biological Evaluation (BE) determination of not likely to adversely affect the West Indian Manatee and the Pallid Sturgeon with the inclusion of the Standard Manatee Conditions for In-Water Activities and cutterhead/suction dredge recommendations.
By letter dated June 9, 2020, the National Marine Fisheries Service (NMFS) stated, they have reviewed the BE and related materials and concur with the action agency’s conclusions that the proposed action is not likely to adversely affect the NMFS-ESA listed species and/or designated critical habitat. This concludes consultation responsibilities under the ESA for species and/or designated critical habitat under NMFS’s purview.

By letter dated March 20, 2020, the NMFS, Southeast Regional Office’s Habitat Conservation Division (SERO HCD) has reviewed the BE assessment and has determined the document adequately evaluates the proposed project impacts to EFH and concur that the project implementation would result in minimal temporary impacts to estuarine EFH; however the impacts will not be substantial. Best management practices to minimize both short-term construction impacts and long-term impacts to habitats have been developed. The SER HCD has no EFH conservation recommendations to provide pursuant to Section 305(b)(2) of the Magnuson-Stevens Act at this time. Further consultation on this matter is not necessary unless modifications are proposed and such actions may result in adverse impacts to EFH.

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

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

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

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

Michael V. Farabee  
Chief, Eastern Evaluation Section

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

STATE OF LOUISIANA
INSET MAP

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

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

LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT

STATE PROJECT NUMBER:
DATE: JUNE, 2020

FEDERAL PROJECT NUMBER:
DATE: JUNE, 2020

DRAWN BY: JAD
DESIGNED BY: NC
APPROVED BY:

INDEX OF DRAWINGS

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE
GENERAL NOTES:

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


3. COORDINATES ARE PROVIDED IN NAD 83 (2011), COORDINATES PROVIDED IN NAVTECH, AND COORDINATES PROVIDED IN NAVTECH ARE A MASS POINT, 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 AT 1988 (NAVTECH 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 FLOTAION ACCESS CHANNEL.


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 FLAged 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 EXPECTED TO PASS 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 USE vE 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 SUBM ERGED) 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 NAV 88.

5. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USE vE OPERATIONS DIVISION, AND THE MARITIME NAVIGATION SAFETY ASSOCIATION (MSA) 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.
1. ORIGINAL / PRIOR PERMIT TEXT (MVN-2009-1353-EPP) ON PLANS AND DETAILS IS UNMODIFIED WITH EXCEPTION OF REVISION CURRENT STATUS OF CONDITIONS. EXAMPLE, CONSTRUCTED MCA BA-43(EB) AND BA-48 PLANS, DETAILS AND REFERENCES INCLUDE DESIGNATING TEXT "CONSTRUCTED" AS APPLICABLE.

2. PRIOR PERMITTED INFORMATION FOR MCAs, ACCESS CORRIDORS, TEMPORARY CROSSINGS, EXCAVATION OR IN FILL ARE NOT SPECIFICALLY DELINEATED.

3. PRIOR PERMITTED INFORMATION FOR MCAs, ACCESS CORRIDORS, TEMPORARY CROSSINGS, EXCAVATION OR IN FILL ARE NOT SPECIFICALLY DELINEATED.

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:


8. PLEASE NOTE THAT THE FOLLOWING SHEETS HAVE BEEN ADDED TO THE SHEET SET:


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...
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<td></td>
<td>+2.0' ± 0.3'</td>
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<td>BA-43 (EB)</td>
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<td>+2.5' ± 0.5'</td>
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<td>EXISTING PERMANENT ACCESS CORRIDOR REACH 2</td>
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<td>+2.5' ± 0.5'</td>
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<tr>
<td>EXISTING PERMANENT ACCESS CORRIDOR REACH 3</td>
<td></td>
<td>+3.0' ± 0.5'</td>
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<td>EXISTING PERMANENT ACCESS CORRIDOR REACH 4</td>
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<td>+3.0' ± 0.5'</td>
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<td>EXISTING PERMANENT ACCESS CORRIDOR REACH 5</td>
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<td>+3.0' ± 0.5'</td>
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<td>EXISTING PERMANENT ACCESS CORRIDOR REACH 6</td>
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<td>BA-48</td>
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<td>+3.0' ± 0.5'</td>
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<td>BA-164</td>
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<td>+2.5' ± 0.5'</td>
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<td>1A</td>
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<td>+3.0' ± 0.5'</td>
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<td>2A ACCESS CORRIDOR</td>
<td></td>
<td>+3.0' ± 0.5'</td>
</tr>
<tr>
<td>2B</td>
<td></td>
<td>+3.0' ± 0.5'</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>+3.0' ± 0.5'</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>+3.0' ± 0.5'</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>+3.0' ± 0.5'</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>+2.5' ± 0.5'</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>+2.5' ± 0.5'</td>
</tr>
<tr>
<td>TERRACE B</td>
<td>CONSTRUCTED</td>
<td>+2.5' ± 0.5'</td>
</tr>
<tr>
<td>TERRACE C</td>
<td>PERMITTED</td>
<td>+2.5' ± 0.5'</td>
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<tr>
<th>BORROW AREAS</th>
<th>STATUS</th>
<th>PERMITTED DREDGE DEPTH (FT, NAVD 88-GEOID12A)</th>
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</thead>
<tbody>
<tr>
<td>WILLS POINT</td>
<td></td>
<td>-90'</td>
</tr>
<tr>
<td>ALLIANCE ANCHORAGE</td>
<td>PERMITTED</td>
<td></td>
</tr>
<tr>
<td>ALLIANCE SOUTH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

NO MODIFICATIONS MADE TO THIS SHEET

LEGEND

- PERMITTED BORROW AREA
- EXISTING REVETMENT
- PARISH BOUNDARY
- PERMITTED PIPELINE ACCESS CORRIDOR
- DPL
- PERMITTED DREDGE PIPELINE PATHS
- SDPL
- PERMITTED SUBMERGED DREDGE PIPELINE PATHS
- PL
- PIPELINE
- MISSISSIPPI RIVER MILE MARKERS

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BATON ROUGE, LOUISIANA 70808-7206

LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT

BORROW AREAS - PERMITTED

STATE PROJECT NUMBER:
FEDERAL PROJECT NUMBER: BA-207
DATE: JUNE, 2020

54 OF 54
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.
WILLS POINT BORROW AREA LAYOUT - PERMITTED

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE - PERMITTED

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

LWRP LINE

BY

DESCRIPTION

DATE

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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

DRAWN BY: JAD

DESIGNED BY: NC

APPROVED BY:

DATE: JUNE, 2020

SHEET 6 OF 54

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.

WILLS POINT PERIMETER MODIFIED DURING CONSTRUCTION OF BA-43 (EB)
FOR 500' BUFFER FROM PIPELINES FOUND WITH PRE-CONSTRUCTION MAGNETOMETER SURVEY

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

BUOYS MARKING DREDGE ANCHOR LIMITS

WILLS POINT BORROW AREA WORK POINT

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
CONTOUR MAJOR
CONTOUR MINOR
MISSISSIPPI RIVER MILE (AHP)
BUOY MARKING DREDGE ANCHOR LIMITS
BORROW AREA WORK POINT
PIPELINE

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' 14.18"  W89° 59' 57.64"
1007  N29° 44' 10.84"  W89° 59' 56.97"
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 THICKNESS (TO -90' NAVD 88) 666' TO 720'
BORROW AREA VOLUME (-90' NAVD 88 MAX.) 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"

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"
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1006  N29° 44' 14.18"  W89° 59' 57.64"
1007  N29° 44' 10.84"  W89° 59' 56.97"
1008  N29° 44' 09.47"  W89° 59' 58.00"
1009  N29° 44' 09.26"  W89° 59' 58.68"
TYPICAL WILLS POINT SECTION - PERMITTED
RIVER MILE 66.7

NOAC NAVIGATION
PROJECT DEPTH = -45'

EL. = -90' MAX
705'±
800'±
425'
(SEE NOTE 4)
3
1 (TYP.)

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

DREDGE ANCHOR LIMITS
1,160'± AT -45' NAVD88

RECORD HIGH ELEV. (8/28/12) = 11.82'
LWRP 2007 = 0.4'

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

EXISTING RIVER BOTTOM

JESUIT BEND REVET.

USACE NAVIGATION PROJECT DEPTH = -45'
EL. = -90' MAX

EXISTING RIVER BOTTOM

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

BELAIR REVET.

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.

LEGEND

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

NO MODIFICATIONS MADE TO THIS SHEET

DRAWN BY: JAD
DESIGNED BY: NC
APPROVED BY:

FILE: D:\\8943-03 UBM\500_CA00\_Active\_NoPermit\504303-C007; Plotted: 6/11/2020 11:22 AM by DURAN, JESUS; Saved: 6/12/2020 9:13 AM by JDURAN
TYPICAL ALLIANCE ANCHORAGE SECTION - PERMITTED

RIVER MILE 64.3

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 ALLIANCE REVETMENT IS 300 FEET.
BUOYS MARKING DREDGE ANCHOR LIMITS

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

BARGE FLEETING AREA

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

NEW ORLEANS AND GULF COAST RAILROAD

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

BORROW AREA LIMITS (TOP OF CUT)

<table>
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<tr>
<td>534</td>
<td>N29° 39' 28.84&quot; W89° 57' 34.83&quot;</td>
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<tr>
<td>535</td>
<td>N29° 39' 38.21&quot; W89° 57' 36.89&quot;</td>
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</tr>
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<td>N29° 40' 14.66&quot; W89° 57' 43.18&quot;</td>
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<td>N29° 40' 07.95&quot; W89° 57' 35.89&quot;</td>
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<td>N29° 39' 53.95&quot; W89° 57' 33.84&quot;</td>
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<td>N29° 38' 48.38&quot; W89° 57' 32.73&quot;</td>
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<td>N29° 39' 29.21&quot; W89° 57' 30.56&quot;</td>
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<td>543</td>
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<td>N29° 40' 16.33&quot; W89° 57' 36.29&quot;</td>
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BORROW AREA LIMITS (TOP OF CUT)

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<tr>
<td>542</td>
<td>N29° 39' 29.21&quot; W89° 57' 30.56&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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.
ELEVATION IN FEET, NAVD 88

-100
-80
-60
-40
-20
0
20
40
60
80
100

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

125'
125'

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

280'

(SEE NOTE 4)

MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE

(SEE NOTES 2 & 3)

EXISTING RIVER BOTTOM

MYRTLE GROVE REVET.

MONSECOUR REVET.

DREDGE ANCHOR LIMITS

1.175±
AT -45' NAVD 88

RECORD HIGH ELEV. (6/28/12) = 11.82'

USACE NAVIGATION PROJECT DEPTH = -45'

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.

TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

1. NCAA 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

STATE PROJECT NUMBER:
FEDERAL PROJECT NUMBER:
DATE: JUNE, 2020

SHEET 11 OF 54

DESCRIPTION:
APPROVED BY:
DATE:
FEDERAL PROJECT NUMBER:
STATE PROJECT NUMBER:
NO MODIFICATIONS
MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

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.
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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

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TYPICAL ALLIANCE SOUTH SECTION - PERMITTED

RIVER MILE 60.7

NO MODIFICATIONS MADE TO THIS SHEET

LEgend

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

NOTES:

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<td>BATON ROUGE, LOUISIANA 70808-7206</td>
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| LARGE-SCALE BARATARIA MARSH CREATION: |
| UPPER BARATARIA COMPONENT |

<table>
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<th>STATE PROJECT NUMBER:</th>
<th>DATE:</th>
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<tr>
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<td>JUNE, 2020</td>
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| MYRTLE GROVE BORROW AREA |
| TYPICAL SECTION - OMITTED |

<table>
<thead>
<tr>
<th>SHEET 13 OF 54</th>
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OMITTED SHEET 13 OF 54
MAIN FISH CAMP ACCESS
JEFFERSON PARISH
HILCORP PIPELINE
EXISTING DUCKS UNLIMITED TERRACE AREA

EXISTING FISH CAMP
HILCORP WELLHEAD

TEXACO PIPELINE

TEMPORARY FLOW PATHWAY CROSSING (TYP)

TEMPORARY CANAL CROSSING (TYP)

LEGEND

EXISTING PERMANENT ACCESS CORRIDOR
PROPOSED TEMPORARY CROSSING
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 EARTHEAN CONTAINMENT DIKE BORROW
PROJECT FEATURE INFLECTION POINT

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
DATE: JUNE, 2020
SHEET 20D OF 54
NOTES:
1. BACKGROUND AERIAL IMAGE GOOGLE EARTH IMAGERY, DATED 2019.
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.
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**EXISTING PERMANENT ACCESS CORRIDOR - CONSTRUCTED / PERMITTED**

**PROJECT ALIGNMENT TABLES - PERMITTED**
### Proposed Marsh Creation Area '1A'

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### Marsh Creation Area '1B'

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### NOAA Restoration Center

5304 Flanders Dr., Suite B
Baton Rouge, Louisiana 70808-7266

### Project Alignment Tables (Sheet 1 of 2) - Proposed

**State Project Number:**

**Date:** June, 2020

**Federal Project Number:** BA-207

**Sheet 23A of 54**
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**NOAA RESTORATION CENTER**

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

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

**PROJECT ALIGNMENT TABLES (SHEET 2 OF 2) - PROPOSED**

**STATE PROJECT NUMBER:**

**DATE:** JUNE, 2020

**FEDERAL PROJECT NUMBER:** BA-207

**SHEET 23B OF 54**
CONSTRUCTED BA-43 (EB) ADDITIONAL MARSH CREATION AREA

2,000' - 3,200'
(SEE PLAN ON SHT. 15 AND 16)

MARSH APRON

1,680'-2,880'
MARSH PLATFORM

FILL EL. = 3.0' ± 0.5'

EXISTING GRADE
EL. = -3.5' TO 0.0'

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

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

REACH 5
CORRIDOR, MARSH
PLATFORM AND APRON

NO MODIFICATIONS
MADE TO THIS SHEET

BY       DESCRIPTION       DATE

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 4 OF 4) -
CONSTRUCTED

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER: BA-207

DATE: JUNE, 2020

SHEET 27 OF 54

DRAWN BY: JAD
DESIGNED BY: NC
APPROVED BY:
EXISTING CANAL

FILL EL. = 2.5' ± 0.5'

5'

120' - 210'

30'

120' (TYP.) ACCESS CORRIDOR

EARTHEN CONTAINMENT DIKE
EL. = 3.5' ± 0.5'

5'

1

25'

-5

-4

0

1

ACCESS CORRIDOR TYPICAL SECTION (TO ACCESS BA-164) - CONSTRUCTED

(STA. 602+34 TO STA. 656+22)

EXISTING GRADE
EL. = -2.5' TO +1.0'

FILL EL. = 2.5' ± 0.5'

EL. AS REQUIRED

EARTHEN CONTAINMENT DIKE
BORROW AREA

EXISTING WATER BOTTOM

HW=+1.16'

LW=-0.19'

250'

0'

250'

500'

HORIZONTAL SCALE

NOAA RESTORATION CENTER

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

LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT

TYPICAL FILL SECTION
BA-164 - CONSTRUCTED

NO MODIFICATIONS
MADE TO THIS SHEET

STATE PROJECT NUMBER:

DATE: JUNE, 2020

FEDERAL PROJECT NUMBER: BA-207

SHEET 28 OF 54
ADDITIONAL MARSH CREATION AREA 'D'
6,100' - 7,750'

BA-164 (CONSTRUCTED)

EXISTING GRADE
EL. -3.0' TO +1.0'

EARTHEN CONTAINMENT DIKE, TYP.

ADDITIONAL MARSH CREATION AREA 'D'
4,300' - 7,900'

ACCESS CORRIDOR
(CONSTRUCTED)

EXISTING GRADE
EL. -3.0' TO +1.0'

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

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

NO MODIFICATIONS
MADE TO THIS SHEET
MCA 'D' - TYPICAL FILL SECTION (ADJACENT TO EXISTING ACCESS CORRIDOR) - PERMITTED
(WEST TO EAST)
ADDITIONAL MARSH AREA 'E' 4,000' - 5,500'

EARTHEN CONTAINMENT DIKE, TYP. (SEE NOTE 1)

CONTAINMENT BORROW AREA, TYP.

FILL EL. 2.5' ± 0.5'

EXISTING GRADE EL. -4.5' TO +1.5'

MCA 'E' - TYPICAL FILL SECTION - PERMITTED

WEST TO EAST

EARTHEN CONTAINMENT DIKE, TYP. (SEE NOTE 1)

CONTAINMENT BORROW AREA, TYP.

FILL EL. 2.5' ± 0.5'

EXISTING GRADE EL. -4.5' TO +1.5'

MCA 'E' - TYPICAL FILL SECTION - PERMITTED

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
ELEVATION IN FEET, NAVD 88

HW=+1.16'

LW=-0.19'

EL. +2.5' ±0.5'

VARIES - 49' TO 65'

VARIES - 50' TO 80'

EARTHEN TERRACE TYPICAL SECTION

SCALE: 1" = 500'

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

NO MODIFICATIONS MADE TO THIS SHEET
ELEVATION IN FEET, NAVD 88

**HW=+1.16'**

**LW=-0.19'**

**FILL EL. +3.0' - 0.5'**

**ADDITIONAL MARSH CREATION AREA**

4,000' - 13,500'

**ADDITIONAL MARSH CREATION AREA**

11,500' - 15,000'

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

**EXISTING GRADE EL. -2.5' TO +0.5'**

**EARTHEN CONTAINMENT DIKE, TYP.**

**BORROW AREA, TYP.**

**EDGE OF MARSH PLATFORM**

**FLOW PATHWAY**

**PIPPINES BETWEEN MCA 1A / 1B AND 2A / 2B**

**FILL EL. +3.0' - 0.5'**

**EXISTING GRADE EL. -2.5' TO +0.5'**

**EDGE OF MARSH PLATFORM**

**FLOW PATHWAY**

**FILL EL. +3.0' - 0.5'**

**EXISTING GRADE EL. -2.5' TO +0.5'**

**EARTHEN CONTAINMENT DIKE, TYP.**

**BORROW AREA, TYP.**

**NOTE:** EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM AUGUST 2 THROUGH AUGUST 11, 2018 BY FUGRO USA LAND, INC.
**ELEVATION IN FEET, NAVD 88**

HW = +1.16'

LW = -0.19'

FILL EL. + 3.0' - 0.5'

ADDITIONAL MARSH AREA '3' ± 2,900'

EXISTING GRADE EL. -2.5' TO +2.0'

EXISTING BA-48 MARSH CREATION AREA (ELEV. VARIES)

MARSH APRON (SLOPE VARIES)

FLOW PATHWAY

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

EXISTING GRADE EL. -2.5' TO +2.0'

EXISTING BA-43 (EB) MARSH CREATION AREA (ELEV. VARIES)

MARSH APRON (SLOPE VARIES)

EDGE OF MARSH PLATFORM

FLOW PATHWAY

FEDERAL PROJECT NUMBER: BA-207

STATE PROJECT NUMBER: SHEET 32C OF 54

DRAWN BY: JAD

DESIGNED BY: NC

APPROVED BY: 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

DATE: JUNE, 2020

LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT

NOTE:
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM AUGUST 2 THROUGH AUGUST 11, 2018 BY FUGRO USA LAND, INC.
ELEVATION IN FEET, NAVD 88

HW = +1.16'
LW = -0.19'
FILL EL. +3.0' - 0.5'

ADDITIONAL MARSH AREA '4' & '5'
1,700' - 3,600'

EARTHEN CONTAINMENT DIKE, TYP.
BORROW AREA, TYP.

EXISTING CANAL
FILL EL. +3.0' - 0.5'

EXISTING GRADE EL. -1.5' TO 0.0'

ADDITIONAL MARSH AREA '4' & '5'
400' - 2,800'

EARTHEN CONTAINMENT DIKE, TYP.
BORROW AREA, TYP.

MCA '4' & '5' TYPICAL FILL SECTIONS - PROPOSED
(SOUTH TO NORTH)

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.

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

LARGE-SCALE BARATARIAMarsh Creation:
UPPER BARATARIA COMPONENT

STATE PROJECT NUMBER:
DATE: JUNE, 2020

FEDERAL PROJECT NUMBER: BA-207
SHEET 32D OF 54

TYPICAL FILL SECTIONS (SHEET 3 OF 3) - PROPOSED

25
20D

26
20D

HORIZONTAL SCALE

250' 0' 250' 500'

500'

0'

-250'

-500'

-1000'
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.

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 INFLATION POINT
- PROTECTED AREA - "NO WORK" ZONE

NO EXCAVATION WITHIN 500' OF EXISTING PIPELINES
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.
EXISTING 48" Ø STEEL CASING PIPE
BRACED EXCAVATION

MISSISSIPPI RIVER LEVEE (SEE SHT. 40 FOR CROSSING DETAIL)
NEW ORLEANS AND GULF COAST RAILROAD EMBANKMENT
LEVEE INSPECTION ROAD (SEE SHT. 41 FOR CROSSING DETAIL)

EXISTING GROUND
BRACED EXCAVATION
EXISTING 48" Ø STEEL CASING PIPE
BRACED EXCAVATION

LA 23 TRAVEL LANES

SEE SHT. 39 FOR HIGHWAY CROSSING DETAIL
SEE SHT. 38 FOR RAILROAD CROSSING DETAIL

G-G
DREDGE PIPELINE CORRIDOR SECTION
SCALE: 1" = 100'-0"

DREDGE PIPELINE CORRIDOR SECTION - PERMITTED
NO MODIFICATIONS MADE TO THIS SHEET

ELEVATIONS IN FEET, NAVD 88
NOTES:

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

MISSISSIPPI RIVER

PLAN VIEW

A-A

29

TEMPORARY PIPELINE MARKER

EXISTING CONCRETE SCOUR PAD

6"X6"X4' TIMBER
5' SPACING

SEDIMENT PIPELINE

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

C OF LEVEE CROWN

TEMPORARY PIPELINE MARKER

SEDIMENT PIPELINE

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

EXISTING CONCRETE SCOUR PAD

SECTION A-A

MISSISSIPPI RIVER LEVEE CROSSING DETAIL

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
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.

MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL

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.
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 DOTD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES(2016) SECTION 1003.03.1.
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 DOTD standard specifications for road and bridges(2016) Section 1003.03.1.

GRAVEL ROAD CROSSING DETAIL

NOT TO SCALE

NO MODIFICATIONS MADE TO THIS SHEET
1. 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 DOTD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES (2016) SECTION 1003.03.1.

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

3. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.
WARNING SIGN NOTES

1. 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

2. 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.

3. 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.

4. TIMBER PILINGS SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.

5. 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.
LANDSIDE BOOSTER PUMP DETAILS

NOT TO SCALE

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

LOCATION MAP
SCALE: 1" = 200'

ALTERNATIVE LAND BASED BOOSTER PUMP LOCATION No.2 LIMITS

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
FLOORING BOOSTER PUMP DETAILS

NOT TO SCALE

NOTE:
TYPICAL FLOATING BOOSTER SETUP.
ACTUAL MAY VARY.

NO MODIFICATIONS
MADE TO THIS SHEET

NOAA RESTORATION CENTER
LARGE-SCALE BARATARIA MARSH CREATION:
UPPER BARATARIA COMPONENT
FLOATING BOOSTER PUMP
PLAN AND ELEVATIONS - PERMITTED

STATE PROJECT NUMBER:
FEDERAL PROJECT NUMBER: BA-207
DATE: JUNE, 2020
SHEET 48 OF 54

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

TEMPORARY MARINE ACCESS DOCK AND RAMP

CATWALK CONNECTING ACCESS DOCK TO BARGE

EXISTING CONC. PAD

MISSISSIPPI RIVER LEVEE CREST

TOE OF MISSISSIPPI RIVER LEVEE

(8) - 72" EXISTING SIPHON PIPES

MISSISSIPPI RIVER LEVEE INSPECTION ROAD

WORK BARGE 50' X 120'

2" X 4" HORIZONTAL RAILS NAILED TO BALUSTERS

2" X 3" BALUSTERS NAILED TO TOP CRANE MAT

2 TO 4 TIMBER CRANE MATS (8" X 4' X 18') STACKED IN A RUNNING BOND

1" PLYWOOD

ACCESS RAMP: ONE LAYER OF 8" TIMBER CRANE MATS

EXISTING GRADE

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.

LWRP 2007 = 0.4'

PRINTED USING "NO MODIFICATIONS MADE TO THIS SHEET"

MISSISSIPPI RIVER & TRIBUTARIES LEVEE CROWN

ELEVATION B-B

ELEVATION, IN FEET, NAVD88

MISSISSIPPI RIVER LEVEE INSPECTION ROAD

EXISTING CONCRETE SCOUR PAD

MISSISSIPPI RIVER & TRIBUTARIES LEVEE CROWN

TEMPORARY MARINE ACCESS DOCK AND RAMP

2 TO 4 TIMBER CRANE MATS (8" X 4' X 18') STACKED IN A RUNNING BOND

CATWALK CONNECTING ACCESS DOCK TO BARGE

WORK BARGE 50' X 120'

LWRP 2007 = 0.4'

DATE: JUNE, 2020

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER: BA-207

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

SHEET 49 OF 54
NOTE:
METAL GRATE BRIDGE WAS REMOVED AS PART
OF BA-43 (EB) PROJECT, AND EXISTING
CONCRETE SLAB BRIDGE WAS CONSTRUCTED.

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

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

NO MODIFICATIONS
MADE TO THIS SHEET

FILE: D:\9943-03 UBM\500_CA00\_Active\_Permit\994303-C050, Ploited: 6/11/2020 11:51 AM by DURAN, JESUS; Saved: 6/12/2020 10:06 AM by DURAN
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.

TEMPORARY CANAL CROSSING DETAIL - PROPOSED

MHW = 1.16'
MLW = -0.19'
30"Ø DREDGE PIPELINE

EXISTING CANAL BOTTOM

(3) 30" CULVERTS
50' (MIN.)

EXISTING GRADE

EL = +3.0' NAVD88 (MAX.) -0.5'

EL = +3.0' NAVD 88 (MAX.) -0.5'

TYPICAL EXTENT OF EXCAVATION FOR RESTORING WATER FLOW PRIOR TO FINAL ACCEPTANCE

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.
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.

EXISTS PERMANENT ACCESS CORRIDOR
PROPOSED ACCESS CORRIDOR
PROPOSED TEMPORARY CROSSING
PROPOSED FLOATING PIPELINE CROSSING
PERMITTED FLOTATION ACCESS CHANNEL
PIPELINE

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

SEE SHEETS 17, 20A & 20C

LARGE-SCALE BARATARIA MARSH CREATION: UPPER BARATARIA COMPONENT

ADDITIONAL MARSH FILL - AREA D - PERMITTED
NOTES:
1. SEE COORDINATE TABLE ON SHEET 22A FOR EARTHEN TERRACE AREA "C" PROJECT FEATURE INFLECTION POINTS.