STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER
LONG DISTANCE
SEDIMENT PIPELINE
BA-43 EB

BAYOU DUPONT
MARSH AND RIDGE
CREATION
BA-48

JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA

FINAL BID SET

LICENSE CLASSIFICATION REQUIREMENTS

MAJOR CATEGORY: HEAVY CONSTRUCTION
SUBCLASSIFICATION: DREDGING

INVOICE NO.: 3A-1
DESCRIPTION: 3A-1

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

DRAWN BY: YC
DESIGNED BY: SA & BJ
APPROVED BY: MAURY GATELLIER, P.E.

DATE: MARCH 1, 2013
SHRIFT: 1 OF 61
GENERAL NOTES:


2. BACKGROUND AERIAL IMAGES SHOWN ON THE PLANS ARE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAP), OCTOBER 2010.

3. FILL AREA SURVEY DATA SHOWN ON THE PLANS IS BASED ON FIELD SURVEYS PERFORMED FROM JULY 28 THROUGH OCTOBER 10, 2011 BY T. SAKER SMITH AND IN OCTOBER 2008 BY P.B. ESTIMATED FILL QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND ARE BASED ON THESE SURVEYS. QUANTITIES WERE CALCULATED USING AUTOCAD DIGITAL TERRAIN MODELS.

4. FOUR CPA SECONDARY BENCHMARKS WERE USED AS BOTH VERTICAL AND SURVEY CONTROL FOR ALL FILL AREA SURVEYS. BA2A-SM-01, BA2B-SM-02, BA2C-SM-01 & BA2D-SM-02. ONE OR MORE OF THESE BENCHMARKS WERE USED FOR DAY-TO-DAY CONTROL BASED ON THEIR PROXIMITY TO THE SURVEY.

5. BORROW AREAS SURVEY DATA SHOWN ON PLANS IS BASED ON MULTI-BEAM SATELLITE INFORMED BY OCEAN SURVEYS INC. ON AUGUST 17, 2011 AND USACE SURVEY PERFORMED ON NOVEMBER 29, 2012.

6. THE CORRIDOR AND MARSH CREATION SITES AND MISSISSIPPI RIVER BORROW AREAS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM ACCESS WATER BODY TO THE PROJECT AREA. DREDGING IS ONLY ALLOWED WITHIN THE LIMITS SHOWN ON THE PLANS. THE ENGINEER OR RESIDENT PROJECT REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING PIPING AND UTILITY OPERATORS 72 HOURS IN ADVANCE OF THE WORK. DREDGE PIPES IN OPEN WATER SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATION EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 100 FEET OF ANY PIPING ON THE MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS INCLUDING VEHICLES IN THE VICINITY, CALL LOUISIANA ONE CALL AT 1-800-272-3552, DURING CONSTRUCTION TO LOCATE ANY PIPELINES OR UTILITY.

9. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY. WHAT IS REQUIRED BY ONE SET OF SPECIFICATIONS OR CONDITIONS AND INTERPRETATIONS OF OR, NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.

10. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.

11. DATA FROM CPA GAGE BA2D-CR-61 IN BAYOU DUPONT WAS USED TO CALCULATE THE MNN AND MLW ELEVATIONS ARE REFERENCED TO NAVD 88, U.S. FEET: MNN = -0.87 AND MLW = -2.0.

12. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE ACCESS FLOATATION, BORROW AREA AND FILL AREAS PRIOR TO ANY WORK. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION AS PER 19-3.7 OF THE SPECIFICATIONS.

13. NO EXCAVATION OF MATERIALS IS ALLOWED FOR MRT LEVEE, FLOOD PROTECTION LEVEE, AND NAOMI LEVEE LEVEE CROSSINGS. ALL LEVEE CROSSINGS SHALL BE OVER LAND AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

14. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 200' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI Pipelines if otherwise noted.


16. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE OF THE CONSTRUCTION LIMITS.

17. CONSTRUCTION OVER THE MRT LEVEE AND CONSTRUCTION WITHIN 10 FT OF THE LEVEE TOES IS LIMITED TO RIVER STAGES BELOW +11.0 FT ON THE CARROLLTON GAGE.

18. CONSTRUCTION OVER THE MRT LEVEE AND CONSTRUCTION WITHIN 10 FT OF THE LEVEE TOES IS NOT ALLOWED WHEN A HURRICANE IS WITHIN 5 DAYS OF THE LOUISIANA COAST.

ABBREVIATIONS:

- AC: Acres
- AHP: Above High of Passes
- LDSP: Long Distance Sediment Pipeline
- LWSP: Low Water Reference Plane
- MCV: Million Cubic Yards
- MHW: Mean High Water
- MLLW: Mean Lower Low Water
- MR: Mississippi River
- MRT: Mississippi River & Tributaries Levee
- SP: Settlement Plate
- UON: Unless Otherwise Noted

SUMMARY OF ESTIMATED QUANTITIES:

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<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
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<td>1</td>
<td>MOBILIZATION AND DEMOBILIZATION</td>
<td>LUMP SUM</td>
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<td>CONSTRUCTION SURVEYS</td>
<td>LUMP SUM</td>
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<td>3</td>
<td>EARTHEN CONTAINMENT DRAWS</td>
<td>LINEAR FEET</td>
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<td>4</td>
<td>EARTHEN RAMP</td>
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<td>6</td>
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<td>CUBIC YARDS</td>
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<td>7</td>
<td>PERMANENT WATERWAY CROSSINGS</td>
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<td>9</td>
<td>SETTLEMENT PLATES</td>
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ADDITIVE ALTERNATE #1

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<td>HYDRAULIC DREDGING - MARSH CREATION (FILL VOLUME IN PLACE)</td>
<td>CUBIC YARDS</td>
<td>324,191</td>
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OPTIONS: TWO BORROW SITE LOCATIONS MAY BE USED FOR THE ALTERNATE OPTIONS

- (A) HYDRAULIC DREDGING AND MARSH FILM FROM ALLIANCE ANCHORAGE BORROW SITE
- (B) HYDRAULIC DREDGING AND MARSH FILM FROM WILLS POINT ANCHORAGE BORROW SITE

ADDITIVE ALTERNATE #2

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<td>16</td>
<td>CONSTRUCTION SURVEYS</td>
<td>LUMP SUM</td>
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<td>CUBIC YARDS</td>
<td>359,280</td>
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</table>

OPTIONS: TWO BORROW SITE LOCATIONS MAY BE USED FOR THE ADDITIVE OPTIONS

- (A) HYDRAULIC DREDGING AND MARSH FILM FROM ALLIANCE ANCHORAGE BORROW SITE
- (B) HYDRAULIC DREDGING AND MARSH FILM FROM WILLS POINT ANCHORAGE BORROW SITE

FINAL BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LUMP AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: BA-43 (40) AND BA-46

GENERAL NOTES, ABBREVIATIONS, AND ESTIMATED QUANTITIES SHEET 1 OF 2

DRAWN BY: YC
DESIGNED BY: SA
APPROVED BY: MAURIE CHATELIER, P.E.
DATE: MARCH 4, 2013

ONE AMERICAN PLACE 50 MAIN STREET, SUITE 800 BATON ROUGE, LAFAYETTE 70802 225-335-2375

PLEASE FILL OUT ALL FORMS FROM TOP TO BOTTOM, SIGN, AND DATE ITEMS BEFORE SUBMITTING TO THE CONTRACTOR.

THE LINEAR FEET OF CONTAMINATION DRAWS AND THE EARTHEN RAMP WAS ESTIMATED FOR CONSTRUCTION USING INDIAN, PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD. THE OWNER RESERVES THE RIGHT TO RECOMMEND ADDITIONAL DRAWS FOR PAYMENT AT CONSTRUCTION.

ONE AMERICAN PLACE 50 MAIN STREET, SUITE 800 BATON ROUGE, LAFAYETTE 70802 225-335-2375

PLEASE FILL OUT ALL FORMS FROM TOP TO BOTTOM, SIGN, AND DATE ITEMS BEFORE SUBMITTING TO THE CONTRACTOR.

THE LINEAR FEET OF CONTAMINATION DRAWS AND THE EARTHEN RAMP WAS ESTIMATED FOR CONSTRUCTION USING INDIAN, PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD. THE OWNER RESERVES THE RIGHT TO RECOMMEND ADDITIONAL DRAWS FOR PAYMENT AT CONSTRUCTION.
LA DOTD SPECIFICATIONS:

STRUCTURAL EXCAVATION AND BACKFILL: SECTION 802
DRIVEN PILES: SECTION 804
STRUCTURAL CONCRETE: SECTION 806
PAINTING AND PROTECTIVE COATINGS: SECTION 811
TREATED TIMBER: SECTION 812
THE CONTRACTOR SHALL USE THE MOST RECENT VERSION OF LA DOTD SPECIFICATIONS.

CONCRETE AND REINFORCING STEEL:
1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE.
3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 318 AND ACI SP-66.
4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. CONCRETE: 28 DAY STRENGTH
      CAST-IN-PLACE: 5000 PSI
      PRE-STRESSED CONCRETE: 8000 PSI
   B. REINFORCING STEEL
      STEEL REINFORCEMENT FOR CONCRETE: ASTM A615, GRADE 60
5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45°, CHAMFER, UCN.
6. PROVIDE CONCRETE COVER OVER REINFORCEMENT IN ACCORDANCE WITH ACI 318, UCN.
7. PROVIDE A BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL ON ALL WALKING SURFACES.
8. ALL REINFORCEMENT BARS SHALL BE CLASS "B" TENSION LAP SPlices PER ACI 318, UCN. SPlicing SHALL OCCUR AT 12 POINTS OF THE SPAN PER ACI 318, CHAPTER 21. SPLICING CONCRETE BARS IS NOT PERMITTED.

STRUCTURAL AND MISCELLANEOUS STEEL:
1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ASCI SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS SET FORTH IN THE MOST RECENT VERSION OF THE ACI 318 CODE.
2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UON:
   A. MS20, BARS, AND SHAFTS...ASTM A572, GRADE 50, GALV
   B. HIGH STRENGTH BOLTS AND NUTS: ASTM A325, GALV
   C. THREADS TO BAR....ASTM A615, GRADE 75, GALV
   D. LAG SCREWS...ASTM A307, GALV
   E. ANCHOR BOLTS...ASTM F1554, GRADE 55, GALV
3. ALL STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR R153, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED. ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED.
4. FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COUPLINGS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A790. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

DESIGN CRITERIA:
1. GRAVITY LOADS:
   LIVE LOAD...HS20 TRUCK
2. SEISMIC LOAD AS REQUIRED BY THE AISC-7 STANDARD BUILDING CODE (AMERICAN INSTITUTE OF CIVIL ENGINEERS):
   PS...0.08g

CODES AND REFERENCES (LATEST EDITION):
A. A.CI - (AMERICAN CONCRETE INSTITUTE)
B. ASC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION UPD/ADDITIONAL EDITION"
C. ASC - (AMERICAN SOCIETY OF CIVIL ENGINEERS)
D. AWS...D.11 (AMERICAN WELDING SOCIETY)
E. IBC - (INTERNATIONAL BUILDING CODE)

ADDITIONAL DREDGING NOTES:
1. THE CONTRACTOR SHALL ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON SHEETS 7 AND 8.
2. DREDGE ANCHOR LIMITS SHALL BE MARKED WITH Buoys AS SHOWN ON SHEETS 7 AND 8 IN ACCORDANCE WITH USCG REGULATIONS.
3. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN WILL NOT BE ALLOWED.
4. DREDGING WILL BE ALLOWED TO A MAXIMUM DEPTH OF 90 FT NAVOB.
5. THE CONTRACTOR SHALL SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USBR OPERATIONS DIVISION, AND MARITIME NAVIGATION SAFETY ASSOCIATION (MNSA) DELINEATING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE SPECIFICATIONS.

FOUNDATION:
1. PILES SHALL BE DRIVEN TO THE MINIMUM PILE TIP ELEVATIONS INDICATED ON THE PLANS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURERS RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTR OF SUBSURFACE MATERIAL TO BE ENCOUNTERED.
2. SPUDGING AND/OR ANCHERING OF PILES WILL NOT BE ALLOWED.
3. THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE 60 AS NOT TO INTERFER WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS.
4. TIMBER PILE AXIAL COMPRESSION CAPACITY: 20 TONS (ALLOWABLE) 40 TONS (ULTIMATE)
5. CONTRACTOR SHALL VERIFY COORDINATES AND GEOMETRY PRIOR TO ORDERING TIMBER PILES.

TIMBER CONSTRUCTION:
1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
2. TIMBER SHALL BE TREATED IN ACCORDANCE WITH AWWA P605.8 FOR TIMBER IN SALTWATER IMMERSION. PRESERVATIVE RETENTION SHALL BE 5.25 P.CF.
3. TIMBER MATERIALS...KILN DRIED....MARINE GRADE NO.1 (045)
   PILES...ASTM D25
4. WHEN CONNECTING HARDWARE IS SHOWN ON THE DRAWINGS THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT USE UNDERWOOD CONNECTIONS AS SHOWN.
5. USE GALVANIZED DOCK WASH OR OSGE WASH WHERE INDICATED.
6. CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN TIGHTENED.
7. BORE HOLE S FOR THRUS BOLTS WITH A BIT 1/8 INCH LARGER IN DIAMETER THAN THE SHANK OF THE BOLT.
8. FIELD TREAT ALL CUTS AND HOLES WITH APPROVED MARINE GRADE WOOD PRESERVATIVE. ALLOW PRESERVATIVE TO COMPLETELY DRY PER MANUFACTURERS INSTRUCTIONS PRIOR TO IMMERGING IN WATER.

FINAL BID SET

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

MISSISSIPPI RIVER LONG AND RAYS UNPORT BAKES & RIDGE CREATION

GENERAL NOTES
SHEET 2 OF 2

REV DATE DESCRIPTION REV

ONE AMERICAN PLACE
555 N. WACKER DRIVE
CHICAGO, ILLINOIS 60606
203-950-0710

DESIGNED BY: BA
APPROVED BY: MAURY OGDEN, P.E.

DATE: MARCH 4, 2013

STATE PROJECT NUMBER: BA-40-03(2) AND BA-40-40

DRAFTED BY: YC

SHEET 3 OF 4
TYPICAL DREDGE PIPELINE ROUTE SECTION
RIVER MILE 65.6

NOTES:
1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
2. DREDGE PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FT MINIMUM FROM THE LWRP.
3. DREDGE PIPELINE MAY BE SUBMERGED OR FLOATING.
WILLS POINT ANCHORAGE BORROW AREA
RIVER MILE 66.7

ALLIANCE ANCHORAGE BORROW AREA
RIVER MILE 64.8

NOTES:
1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
2. DREDGE PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ≤ 20 FT FROM LWRP.
3. DREDGE PIPELINE MAY BE SUBMERGED OR FLOATING.
4. THE MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF BELAR REVETMENT VARIES FROM 300 TO 450 FEET.
5. THE MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET WHERE OCCURS, SEE BSH. 8 FOR EXTENDS.

LEGEND

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

FINAL BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY
455 LAUREN STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPOIN MAINT & RIDGE CREATION
STATE PROJECT NUMBER: 9A-43 (LRP) 4329/46

DESIGNED BY: IA
APPROVED BY: MAURY CRUZELIEU, P.E.

BRENNER & HOBEL
ONE AMERICAN PLACE
3101 AIRPORT FREEWAY, SUITE 600
BILLY JOE'S BAHAMA'S
214-696-4075

DRAWN BY: YC
DRAFTED BY: IA

DATE: MARCH 2013

SHEET 9 OF 11
NOTES:
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY PIPELINE LOCATIONS, INCLUDING NAOMI SIPHON PIPES AND EXISTING CASING PIPES, PRIOR TO BEGINNING CONSTRUCTION.
2. ALL EXISTING PIPELINES LOCATED WITHIN 150' OF THE Dike ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PRODUCED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL NOT ERODANTE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 250' OF ANY OTHER PIPELINE (EXCEPT FOR NAOMI SIPHON PIPES).
5. THE CONTRACTOR'S ACCESS CORRIDOR AND CONSTRUCTION LIMITS SHALL BE SUBMITTED IN THE WORK PLAN AS PER THE SPECIFICATIONS.
6. THE DREDGE PIPELINE SHALL BE PLACED ON THE SOUTH SIDE OF WEST RAVENNA ROAD.
7. SEE SECTIONS 7.2.5 AND 7.2.6 OF THE SPECIFICATIONS FOR INFORMATION REGARDING DREDGE PIPELINE CROSSINGS.
8. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
9. SEE SHEETS 34 TO 43 FOR CROSSING DETAILS.
10. FOR PERMANENT ACCESS CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 22.
NOTES:

1. THE CONTRACTOR SHALL MECHANICALLY RELOCATE "AREA C" MATERIAL TO THE LOCATION LABELED "RELOCATED AREA C" TO CREATE THE 6 INCHES MINIMUM COVER OF THE EARTHEN RIDGE.

2. MARSH FILL MATERIAL MAY BE PLACED ABOVE THE MAXIMUM TOLERANCE FOR THE CONSTRUCTION OF THE EARTHEN RIDGE. TEMPLATE THE EARTHEN RIDGE WORK SHALL BE SUBMITTED IN THE WORK PLAN. SEE TECHNICAL SPECIFICATIONS FOR EARTHEN RIDGE PLACEMENT AND PAYMENT.

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

MISSISSIPPI RIVER LDSP AND BAYOU DOURDUFT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: BA-40 ZED 0-10 BA-48

FINAL BID SET
DATE: MARCH 25, 2013

DRAWN BY: YC
DESIGNED BY: RU
APPROVED BY: MAURY CHASTILLER, P.E.
TYPICAL FILL SECTION ACROSS LDSP EXPANDED MARSH CREATION AREA
(SOUTH TO NORTH)

TYPICAL FILL SECTION ACROSS LDSP EXPANDED MARSH CREATION AREA
(EAST TO WEST)

NOTE:
EXISTING GROUND ELEVATIONS BASED ON
TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26
THROUGH OCTOBER 10, 2011 BY T BAKER SMITH, LLC.
TYPICAL ACCESS CHANNEL SECTION @ THE PEN

TYPICAL ACCESS CHANNEL SECTION @ BAYOU DUPONT

NOTES:
1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND BACKFILLED INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION. TEMPORARY SPOIL SHALL NOT BE PLACED ON EXISTING MARSH.

2. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 1,000 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.

3. ACCESS CHANNEL TO BE DREDGED AS PART OF CONSTRUCTION. CHANNEL SHALL BE BACKFILLED PRIOR TO FINAL INSPECTION.
BAYOU DUPONT WEIR STRUCTURE DETAILS

NOTES:
1. CONTOURS SHOWN ARE BASED ON SIGMA SURVEY DATED DECEMBER 2013.
2. FOR TIMBER PILE CLUSTER AND NAVIGATIONAL AID DETAILS SEE SHEET 5A.

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

MISSISSIPPI RIVER LIPS AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: 64-03 (DI) AND 84-04

BAYOU DUPONT WEIR STRUCTURE

FINAL BID SET

DATE: MARCH 3, 2013

DRAWN BY: TC
DESIGNED BY: GA

ONE AMERICAN PLACE
Baton Rouge, LA 70801
326-6900-670

RUSSE J. JOFFREIN
LICENSE NO. 27766
PROFESSIONAL ENGINEER

PLAN VIEW
SCALE: 1" = 50'

NAVIGATION SIGNS AND OBSTRUCTION LIGHTS
COORDINATES

ANCHOR BLOCK COORDINATES

EASTING NORTHBING
A1 3,674,076.86 417,867.48
A2 3,674,076.86 417,867.52
A3 3,674,076.86 417,867.56
A4 3,674,076.86 417,867.60
A5 3,674,076.86 417,867.64
A6 3,674,076.86 417,867.68
A7 3,674,076.86 417,867.72
A8 3,674,076.86 417,867.76

WEIR CENTERLINE
COORDINATES

EASTING NORTHBING
W1 3,674,076.86 417,867.11
W2 3,674,076.86 417,867.29
W3 3,674,076.86 417,867.47
W4 3,674,076.86 417,867.65
W5 3,674,076.86 417,867.83
W6 3,674,076.86 417,868.01

NAVIGATION BUOY
COORDINATES

EASTING NORTHBING
A1 3,674,076.86 417,867.48
A2 3,674,076.86 417,867.52
A3 3,674,076.86 417,867.56
A4 3,674,076.86 417,867.60
A5 3,674,076.86 417,867.64
A6 3,674,076.86 417,867.68
A7 3,674,076.86 417,867.72
A8 3,674,076.86 417,867.76

WEIR DESIGN TEMRFATE

PROFILE
SCALE: HOR. 1" = 100
VER. 1" = 10'

TYPICAL CROSS SECTION 'A'

ELEVATION (FEET MBO)
-100 0 100

ONTO TOE OF BARGE BAY
STA. 0+00
EXISTING ROCK PILE (TO BE SALVED/REMOVED)
BOTTOM TOE OF BARGE BAY
STA. 0+30
BEGIN CONSTRUCTION
STA. 0+00

INSTALL NEW TIMBER PILE CLUSTER (P1) AND GREEN CHANNEL MARKER (NO NAVIGATION LIGHT, SEE DET. 55 ON SHEET 5A)

STAINLESS STEEL CABLE WITH BUOYS TO BE REMOVED AND REPLACED (YTP.)
(SEE DET. 14 ON SHEET 5A)

(1) DANGER BUOYS (YTP.)
(SEE DET. 14 ON SHEET 5A)

(2) EXISTING CABLE ANCHOR BLOCKS TO BE REMOVED AND REPLACED (YTP.).
(SEE DET. 14 ON SHEET 5A)

EXISTING PIPELINES (2)
SA41-5M-01

(3) EXISTING WARNING SIGNS TO REMAIN (YTP.)

WEIR CENTERLINE

REMOVE AND REPLACE EXISTING TIMBER PILE CLUSTER (P2). SALVAGE AND RESTRACT TIMELAPSING RED CHANNEL MARKER AND NAVIGATION OBSTRUCTION LIGHT

WEIR TO BE RECONSTRUCTED TO THIS DESIGN TEMRFATE USING 300 LB. GLASS ROCK.

FLOW

PLAN VIEW
SCALE: 1" = 50'

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

MISSISSIPPI RIVER LIPS AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: 64-03 (DI) AND 84-04

BAYOU DUPONT WEIR STRUCTURE

FINAL BID SET

DATE: MARCH 3, 2013

DRAWN BY: TC
DESIGNED BY: GA

ONE AMERICAN PLACE
Baton Rouge, LA 70801
326-6900-670

RUSSE J. JOFFREIN
LICENSE NO. 27766
PROFESSIONAL ENGINEER

PLAN VIEW
SCALE: 1" = 50'

NAVIGATION SIGNS AND OBSTRUCTION LIGHTS
COORDINATES

ANCHOR BLOCK COORDINATES

EASTING NORTHBING
A1 3,674,076.86 417,867.48
A2 3,674,076.86 417,867.52
A3 3,674,076.86 417,867.56
A4 3,674,076.86 417,867.60
A5 3,674,076.86 417,867.64
A6 3,674,076.86 417,867.68
A7 3,674,076.86 417,867.72
A8 3,674,076.86 417,867.76

WEIR CENTERLINE
COORDINATES

EASTING NORTHBING
W1 3,674,076.86 417,867.11
W2 3,674,076.86 417,867.29
W3 3,674,076.86 417,867.47
W4 3,674,076.86 417,867.65
W5 3,674,076.86 417,867.83
W6 3,674,076.86 417,868.01

NAVIGATION BUOY
COORDINATES

EASTING NORTHBING
A1 3,674,076.86 417,867.48
A2 3,674,076.86 417,867.52
A3 3,674,076.86 417,867.56
A4 3,674,076.86 417,867.60
A5 3,674,076.86 417,867.64
A6 3,674,076.86 417,867.68
A7 3,674,076.86 417,867.72
A8 3,674,076.86 417,867.76

WEIR DESIGN TEMRFATE

PROFILE
SCALE: HOR. 1" = 100
VER. 1" = 10'

TYPICAL CROSS SECTION 'A'

ELEVATION (FEET MBO)
-100 0 100

ONTO TOE OF BARGE BAY
STA. 0+00
EXISTING ROCK PILE (TO BE SALVED/REMOVED)
BOTTOM TOE OF BARGE BAY
STA. 0+30
BEGIN CONSTRUCTION
STA. 0+00

INSTALL NEW TIMBER PILE CLUSTER (P1) AND GREEN CHANNEL MARKER (NO NAVIGATION LIGHT, SEE DET. 55 ON SHEET 5A)

STAINLESS STEEL CABLE WITH BUOYS TO BE REMOVED AND REPLACED (YTP.)
(SEE DET. 14 ON SHEET 5A)

(1) DANGER BUOYS (YTP.)
(SEE DET. 14 ON SHEET 5A)

(2) EXISTING CABLE ANCHOR BLOCKS TO BE REMOVED AND REPLACED (YTP.).
(SEE DET. 14 ON SHEET 5A)

EXISTING PIPELINES (2)
SA41-5M-01

(3) EXISTING WARNING SIGNS TO REMAIN (YTP.)

WEIR CENTERLINE

REMOVE AND REPLACE EXISTING TIMBER PILE CLUSTER (P2). SALVAGE AND RESTRACT TIMELAPSING RED CHANNEL MARKER AND NAVIGATION OBSTRUCTION LIGHT

WEIR TO BE RECONSTRUCTED TO THIS DESIGN TEMRFATE USING 300 LB. GLASS ROCK.

FLOW
NOTES:

1. **TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE EXCAVATION ON BOTH SIDES, LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.**

2. **THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.**

3. **THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX L OF THE SPECIFICATIONS.**

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**RAILROAD CROSSING DETAIL**

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**LEGEND**

- **BRAANCED EXCAVATION TO FACILITATE TEMPORARY PLACEMENT OF DREDGE PIPELINE (MAX. WIDTH = 20.0')**

- **REMOVE EXISTING CASING PIPE GAP FROM EACH END OF CASING PIPE AND REPLACE AFTER DREDGE PIPELINE IS REMOVED, SEE DET. 20 ON SHEET 56**

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**FINAL BID SET**

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**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION**

**ONE AMERICAN PLACE 501 NORTH STREET, SUITE 420 BATON ROUGE, LA 70801 225-326-2023**

**STATE PROJECT NUMBER: 84-01 (00) AND 9A-04**

**DRAWN BY: VC DESIGNER BY: SA**

**APPROVED BY: MAURY CASTILLON, P.E.**

**SHEET 36 OF 81**

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**DATE: MARCH 1, 2013**

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EXCAVATION TO FACILITATE TEMPORARY PLACEMENT OF DREDGE PIPELINE (MAX. WIDTH = 20.0', SEE NOTE 1)

DREDGE PIPELINE

EXISTING SMOOTH STEEL CASING PIPES 48" OUTSIDE Ø 6" THICKNESS

AS-BUILT EL. = -4.64'

-3.5'

-11.0'

-10.0'

-9.0'

-8.0'

-7.0'

-6.0'

-5.0'

-4.0'

-3.0'

-2.0'

-1.0'

-0.0'

0.0'

1.0'

2.0'

3.0'

4.0'

5.0'

6.0'

7.0'

8.0'

9.0'

10.0'

ELEInATIONS (NED) NAD 83

NOTES:
1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE EXCAVATION ON BOTH SIDES WITHIN CONSTRUCTION LIMITS. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.
3. THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX L OF THE SPECIFICATIONS.
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 TO LA DOTD 2008 SPECIFICATION 1003.04 (A).
3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR DREDGE PIPELINE LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
DREDGE PIPELINE

SLOPE 2:1

CRUSHED STONE CROWN RAMP

MAX. CROWN WIDTH = 6.5'

PLAN VIEW

MAX. CROWN WIDTH = 6.5'

SLOPE 2:1

DREDGE PIPELINE

CRUSHED STONE CROWN RAMP

SECTION A-A

NOT TO SCALE

NOTE:
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO LA DOTD 2006 SPECIFICATION 1003.04 (a).

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

MISSEN RIVER LOSS AND
RATOU DUFORT MARSH & RIDGE CREATION
STATE PROJECT NO. 09-01 (30) AND 84-06

DIRT ROAD CROSSING DETAIL

DATE: MARCH 21, 2013

STATE OF LOUISIANA

ruw J. Joffrin
License No. 27088
PROFESSIONAL ENGINEER

JONATHAN HIRD
License No. 32239
PROFESSIONAL ENGINEER

08/12/019
PLAN VIEW

GRAVEL ROAD CROSSING DETAIL

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 2006 SPECIFICATION 1003-04 (A).

SECTION A-A

COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER I CSP AND BAYOU DIPORTMarsh & Ridge Creation

GRAVEL ROAD CROSSING DETAIL

DATE: MARCH 4, 2013

FINAL BID SET
NOTES:
1. THE TEMPORARY CROSSING SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
2. TEMPORARY CROSSING SHALL BE REMOVED PRIOR TO DEMOBILIZATION.
PLAN PROPOSED BRIDGE APPROACHES

NOTES:
1. CONTRACTOR SHALL CAREFULLY PLACE RIP-RAP NEAR EXISTING BULKHEAD TO AVOID DAMAGE TO EXISTING TIE-RODS AND PILES.
2. FOR PROPOSED BRIDGE PLAN, SEE DETAIL C SHEET 48.

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

MISSISSIPPI RIVER LEVEE AND BAYOU DUPO MASH & RIDGE CREATION
STATE PROJECT NUMBER: B4-A4 (29) AND B4-A4

BRIDGE/PIPE CROSSING PLANS
SHEET 7 OF 2

DATE: MARCH 4, 2013
APPROVED BY: MAURY CHALLER, P.E.
NOTES:
1. DECON 4 STRANDS FOR 8'4" AT EACH END.
2. REPLACE SHEAR KEY WITH GROUT RECESS ON OUTER SIDE OF EACH EXTERIOR SECTION.
3. DRIP EDGE ONLY REQUIRED ON OUTER SIDE OF EACH EXTERIOR SECTION.

SECTION
SCALE: 1/8" = 1'-0"

2 1/2" HOLES FOR TRANSVERSE STRAND, TYP
2 3/8" HOLES FOR DOWEL, TYP
STL EDGE PROTECTION, TYP
HOLE, TYP

SECTION
SCALE: 1/4" = 1'-0"

PRECAST CONCRETE SLAB UNIT
SCALE: 1/4" = 1'-0"

SHEAR KEY, TYP, SEE
#5 STIRRUP @ 12" O.C.
#6 BARS @ 12" O.C.
2 1/2" HOLES FOR TRANSVERSE STRAND
HOLE, TYP
FILL WITH EPOXY GROUT
FILL RECESS WITH GROUT
STRAND VISE

SECTION
SCALE: 1/4" = 1'-0"

DRIP EDGE
NOT TO SCALE

EXTERNAL FACE OF EXTERIOR CORED SLAB

MISSISSIPPI RIVER LEVEE AND
BAYOU DUPONT MARSH & RIDGE CREATION
BRIDGEPipe CROSSING
DETAILS (2 OF 2)

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

MISSISSIPPI RIVER LEVEE AND
BAYOU DUPONT MARSH & RIDGE CREATION
BRIDGEPipe CROSSING
DETAILS (2 OF 2)

DRAWN BY: YC
DESIGNED BY: SA
APPROVED BY: MALCOLM QUATRELLER, P.E.

DATE: MARCH 14, 2013
SEEN: 12 OF 81
ELEVATION - BUOY DETAILS

NAVIGATIONAL BUOY
(SEE DETAIL A ON THIS SHEET)

NAVIGATIONAL BUOY CABLE WITH TWENTY FOUR (24)
BUOYS

NAVIGATIONAL BUOY CABLE WITH TWELVE (12)
BUOYS

ANCHOR BLOCK TO EXISTING SHORELINE (TYP.)

SECTION - BUOY DETAILS

NAVIGATIONAL BUOY

NAVIGATIONAL BUOY CABLE WITH TWELVE (12)
BUOYS

ANCHOR BLOCK TO EXISTING SHORELINE (TYP.)

ANCHOR BLOCK (TYP.)

BOUY AND CONCRETE ANCHOR BLOCK DETAILS

NOT TO SCALE

COASTAL PROTECTION AND RESTORATION AUTHORITY
401 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LORP AND BAYOU DUPONT MAJER & RIDGE CREATION
STATE PROJECT NUMBER: 24-07 (2B) AND 2A-09

BOUY AND CONCRETE ANCHOR BLOCK DETAILS

DATE: MARCH 4, 2013

SHEET 34 OF 81
WARNING SIGN NOTES


2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PLUG AT ALL POINTS OF CONTACT.

3. HARDWARE FOR TIMBER CONNECTIONS SHALL NOT BE GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.

4. TIMBER PILES SHALL CONFORM TO SECTIONS B101 AND B104 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 KWP A2 TO A MINIMUM RETENTION OF 20 PEF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.

5. TIMBER PLUGS SHALL BE 46 IN LENGTH WITH A NOMINAL 1/2" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.

6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

TEMPORARY SHOAL WARNING SIGN DETAILS

NOT TO SCALE

DANGEROUS OBSTRUCTION

1.344" HOLES FOR 5/8" BOLTS

2" WIDE REFLECTIVE TAPE

40" TREATED TIMBER PLUG

24"x24" 26 GA. ALUMINUM FLASHING
(SEE NOTE 8)

TYPICAL TIMBER PILE CAP

2" ORANGE-REFLECTIVE BORDER

WHITE FIELD

6" BLACK LETTERS

3" BLACK LETTERS

MAIN CHANNEL

WRITTEN SIGN SIDE DETAIL

40" TREATED TIMBER PLUG OR 40X4X8 SCHEDULE 40 METAL PIPE

PLATE ALUMINUM 5052-H34

3/16"

WARNING SIGN ELEVATION

ELEVATION 11'-6"

40' TREATED TIMBER PLUG

WARNING SIGN NOTES

MISSISSIPPI RIVER LSDP AND BAYOU DUPONT MARSH & RUGGE CREATION STATE PROJECT NUMBER BA-6-0 (35) AND BA-48

COASTAL PROTECTION AND RESTORATION AUTHORITY

452 LAUREL STREET

BATON ROUGE, LOUISIANA 70801

MORANT & WEDDING

ONE AMERICAN PLACE

300 MAIN STREET, SUITE 800

Baton Rouge, LA 70802

225-525-3000

DRAWN BY: YC

DESIGNED BY: SA

APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 4, 2013

FINAL BID SET

SHEET 55 OF 81
DREDGE PIPELINE

PIPE SIZE
CONTENTS
CONTACT: CONTRACTOR
PHONE NUMBER
STREET ADDRESS
CITY, STATE, ZIP CODE

42 INCH SEDIMENT DELIVERY STEEL CASING PIPE
PROPERTY OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
CONTACT PLACQUEMINES PARISH GOVERNMENT
(504) 392-6660
8056 HIGHWAY 23
BELLE CHASSE, LA. 70397

STEEL CASING PIPE CAP
PROPERTY OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
CONTACT PLACQUEMINES PARISH GOVERNMENT
(504) 392-6660
8056 HIGHWAY 23
BELLE CHASSE, LA. 70397
2013

CASING PIPE CAP DETAIL
NOT TO SCALE

CASING PIPE CAP NOTES:
1. STEEL CASING PIPE CAPS SHALL BE 1/2" THICK AND SHALL BE COATED WITH
   CO/L TAR EPOXY-PIVAMIDE PAINT IN ACCORDANCE WITH THE LACOTD
   2006 STANDARD SPECIFICATION 1008.04.
2. EXISTING STEEL CASING PIPE CAPS SHALL BE CUT FROM EXISTING CASING
   PIPE TO FACILITATE THE TEMPORARY PLACEMENT OF THE DREDGE
   PIPELINE. AFTER MARCH, FULL ELEVATION HAS BEEN ACCEPTED AND
   DREDGE PIPELINE HAS BEEN REMOVED, NEW CAPS SHALL BE INSTALLED IN
   ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS. CAPS SHALL BE
   WELDED TO CASING PIPE AND SHALL BE WATER TIGHT.
3. ALL COSTS ASSOCIATED WITH CASING PIPE CAPS SHALL BE PAID FOR PER
   BID ITEM NO. 1, "MOBILIZATION AND DEMOBILIZATION".
4. SEE THE SPECIFICATIONS FOR CASING PIPE CAP DETAILS.

SETTLEMENT PLATE DETAILS

SETTLEMENT PLATE NOTES:
1. SETTLEMENT PLATES SHALL BE HOT DIPPED
   GALVANIZED AFTER FABRICATION.
2. SETTLEMENT PLATES SHALL BE PLACED NOT TO
   IMPede WORK LOCATION AND ELEVATION WILL
   BE RECORDED DURING CONSTRUCTION AND
   AS-BUILT SURVEY PER TS-3.
3. FOR INSTALLATION METHOD REFER TO TS-10 OF
   THE PROJECT SPECIFICATIONS.
4. SEE SHEETS 13 THROUGH 21 FOR SETTLEMENT
   PLATE LOCATIONS.

42 INCH SEDIMENT DELIVERY STEEL CASING PIPE
PROPERTY OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY
CONTACT PLACQUEMINES PARISH GOVERNMENT
(504) 392-6660
8056 HIGHWAY 23
BELLE CHASSE, LA. 70397

FINA L BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BAYOU BISCUIT, LOUISIANA 70801

MISSISSIPPI RIVER LEVEE AND
BAYOU, DOWNTOWN MARSH & RIDGE CREATION
STATE PROJECT NUMBER: 24-2-2003 AND 25-46

CASING PIPE CAP, MARKER AND SETTLEMENT PLATE
DETAILS
STATE: MARCH 24, 2013

PAUL J. JOFFRION
PROFESSIONAL ENGINEER
LICENSE NO. 4776

STEPHEN HIRD
PROFESSIONAL ENGINEER
LICENSE NO. 32299

FINA L BID SET
NOTES:
2. EXISTING GRADE PROFILE BASED ON TMS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

LEGEND
- EXISTING GRADE
- FINISHED GRADE
- EARTHEN CONTAINMENT DIKE
- BORROW AREA
- CORRIDOR & MARSH CREATION

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: 84-01 (BR) & 84-46
BASE BID: LDSP FELD AREA SECTIONS (SHEET 8 OF 9)
DRAWN BY: YC  DESIGNED BY: BA
APPROVED BY: MARVIN CHAILLER, F.E.
DATE: MARCH 14, 2013
SHEET 16 OF 81
NOTES:
2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
3/4" DIA. BOLT WITH WASHER AND NUT (TYP.)

1" WHITE BORDER

8 - 3/4" DIA. HOLE: FOR BOLTING TO PIPES (TYP.)

3" DIA. X 20' SCHEDULE 40 GALVANIZED STEEL PIPE

BLUE BACKGROUND

NOTES:
1. PROJECT FUNDING SIGN SHALL BE MOUNTED ON TWO (2) THREE (3) INCH DIAMETER BY TWENTY (20) FOOT LONG, SCHEDULE 40 GALVANIZED STEEL PIPES EMBEDDED TO A DEPTH OF AT LEAST TEN (10) FOOT. SIGN SHALL BE ATTACHED TO PILES OR PIPES WITH SIX (6), 3/4" DIA. X 4" A317 (HDG) BOLTS WITH WASHERS AND NUTS.

2. BOTTOM EDGE OF SIGN SHALL BE APPROXIMATELY FIVE (5) FOOT ABOVE THE GROUND WITH FRONT FACING THE WATER, PARALLEL TO THE GROUND CREST.

MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE
SPONSORED BY THE:
COASTAL PROTECTION AND RESTORATION AUTHORITY OF LOUISIANA

This shoreline protection project is funded with Qualified Outer Continental Shelf Oil and Gas Revenues by the Coastal Impact Assistance Program, Fish and Wildlife Service, U.S. Department of the Interior.

PLAN VIEW

PROJECT FUNDING SIGN

NOT TO SCALE

STATE OF LOUISIANA

COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER LOOP AND BAYOU DUPOINT MARSH & RIDGE CREATION

PROJECT FUNDING SIGN

DATE: MARCH 1, 2013

DRAWN BY: VC
DESIGNED BY: WP
APPROVED BY: MAURY CHATELLER, P.E.

SHEET 15 OF 81

A=24
A=8A