GENERAL NOTES


SECONDARY MONUMENT: CRIMSCS-SM-10
ELEVATION 3.41' NVRS 511,880.47, 2,679,479.75


3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING SAFE ACCESS TO THE PROJECT AND FOR NAVIGATING WITHIN THE LIMITS OF THE WORK. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM THE PROJECT SITE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CPRA CONSTRUCTION ENGINEER OR RESIDENT PROJECT REPRESENTATIVE SHALL MONITOR THE LOCATION OF EQUIPMENT DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL NOT, AT ANYTIME, TRAVERSE EXISTING MARSH OR VEGETATIVE WETLANDS OUTSIDE THE MARSH FILL AREAS AND LOCATIONS SHOWN ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

5. PIPELINES AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND MARK ALL PIPELINES AND UTILITIES LOCATED WITHIN 150 FT. OF THE WORK PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN BUDGETS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. IT IS THE CONTRACTOR’S RESPONSIBILITY TO MAINTAIN THE CLEARANCES FROM THE PIPELINES SET FORTH IN THE PLANS AND SPECIFICATIONS. SEE SP-11 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE.

6. THE CONTRACTOR SHALL NOTIFY LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE PIPELINES AND UTILITIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK. THE CONTRACTOR SHALL ALSO NOTIFY THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK:

   COLUMBIA GULF TRANSMISSION CO.  CHENIER CREOLE TRAIL PIPELINE, L.P.
   BRIAN SCHULTZ  TOMMY BOUDEAUX
   (337) 234-8154  (713) 375-5962

7. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY. WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED IN WRITING BY THE ENGINEER.

8. 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.


10. THE EARTEN Containment Dikes, Marsh Creation Areas, and Borrow Areas MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

11. ESTIMATED HYDRAULIC DREDGING QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM FEBRUARY 16, 2012 TO MARCH 26, 2012. QUANTITIES SHOWN WERE CALCULATED USING AUTOCAD AND AERIAL PHOTOGRAPHY FOR SECTIONS 115 THROUGH 144 AS SHOWN ON SHEET 16.

12. THE CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION MAGNETOMETER SURVEYS IN THE EQUIPMENT ACCESS ROUTE, BORROW AREA, EARTEN CONTAINMENT DIKE BORROW AREAS, AND MARSH CREATION AREAS. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO MOBILIZATION. ADDITIONAL TRACK LINES SHALL BE RUN IN ACCORDANCE WITH TS-210.4.6 OF THE SPECIFICATIONS.


14. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE PROPOSED MARSH CREATION AREAS.

15. THERE ARE NO KNOWN EXISTING YSTER LEASES NEAR OR WITHIN THE BOUNDARIES OF THE PROJECT SITE. LDWF HAS CLASSIFIED CALCASIEU LAKE AS A TYPE 2 OYSTER SEED GROUND. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT CONNECTED TO THE PERMITTED ACCESS ROUTES AND BORROW AREA AS SHOWN ON PLAN SHEET 3. IN ADDITION, THE CONTRACTOR SHALL AVOID IMPACTS TO OYSTER SEED GROUNDS OUTSIDE THE BOUNDARIES OF THE PROJECT SITE.

SUMMARY OF ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>ESTIMATED QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>MOBILIZATION AND DEMOBILIZATION</td>
<td>LUMP SUM</td>
<td>1</td>
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<tr>
<td>210</td>
<td>CONSTRUCTION SURVEYS</td>
<td>LUMP SUM</td>
<td>10</td>
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<tr>
<td>250</td>
<td>SETTLEMENT PLATES</td>
<td>EACH</td>
<td>4</td>
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<tr>
<td>300</td>
<td>EARTEN CONTAINMENT DIKE5</td>
<td>LINEAR FOOT</td>
<td>40,100</td>
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<tr>
<td>330</td>
<td>EQUIPMENT ACCESS CHANNELS</td>
<td>LUMP SUM</td>
<td>1</td>
</tr>
<tr>
<td>400</td>
<td>HYDRAULIC DREDGING AND MARSH FILL4</td>
<td>CUBIC YARD</td>
<td>2,874,000</td>
</tr>
</tbody>
</table>

1. THE LINEAR FOOTAGE OF EARTEN CONTAINMENT DIKES WERE ESTIMATED FOR CONSTRUCTION USING AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

2. THE HYDRAULIC DREDGING QUANTITIES FOR THE MARSH CREATION AREAS ARE BASED ON THE BORROW AREA CUT VOLUME. ACTUAL QUANTITIES FOR PAYMENT WILL BE BASED ON PROCESS SURVEYS OF THE BORROW AREA PERFORMED AS PART OF THIS CONTRACT AS REQUIRED IN TS-210.20 "CONSTRUCTION SURVEYS" OF THE SPECIFICATIONS. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

3. WHERE THE QUANTITY OF WORK WITH RESPECT TO ANY ITEM IS COVERED BY A UNIT PRICE, SUCH QUANTITIES ARE ESTIMATED QUANTITIES TO BE USED FOR COMPARING BIDS AND THE RIGHT IS RESERVED BY THE OWNER TO INCREASE/DECREASE SUCH QUANTITIES AS MAY BE NECESSARY TO COMPLETE THE WORK AND/OR REMAIN WITHIN FUNDING LIMITS.

COASTAL PROTECTION AND RESTORATION AUTHORITY
US FERRACCI AVENUE
BATON ROUGE, LOUISIANA 70802

CAMERON-CREOLE WATERSHED GRAND BAYOU MARSH CREATION

STATE PROJECT NUMBER: C3-36
FEDERAL PROJECT NUMBER: CS-34
DATE: APRIL 2013

BY R. CASTO
DRAWN BY: M. MCKINZIE, E.I.
APPROVED BY: T. FITZGERALD, P.E.
FILE NO. 1813
SHEET 1 OF 40
NOTES:
1. THE BORROW AREA CUT DEPTH IS APPROXIMATELY 10.0 FEET.
2. THE BORROW AREA CONTAINS APPROXIMATELY 5.7 M CUBIC YARDS OF MATERIAL.
3. LEVEE CROSSING LOCATION AND DIMENSIONS ARE APPROXIMATIONS AND WILL BE FINALIZED UPON ACCEPTANCE OF THE WORK PLAN.
4. THE CONTRACTOR SHALL RETURN THE LEVEE TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOLITION.
5. THE CONTRACTOR SHALL NOTIFY RUSTY WELCH AT (337) 336-8944 A MINIMUM OF FORTY-EIGHT (48) HOURS BEFORE PLACEMENT OF THE PROTECTIVE MEASURES TO CROSS THE DRAINAGE DISTRICT'S LEVEE IS TO TAKE PLACE.

COASTAL PROTECTION AND RESTORATION AUTHORITY

CAMERON-CREOLE WATERFED GRAND BAYOU MARSH CREATION

BORROW AREA

STATE PROJECT NUMBER: CS-4
FEDERAL PROJECT NUMBER: CS-58
APPROVED BY: T. FITZGERALD, P.E. P.M. NO. 3813
DATE: APRIL 2017
SHEET 6 OF 20
NOTES:
1. THE BORROW AREA CONTAINS APPROXIMATELY 5.7 M CUBIC YARDS OF MATERIAL.
2. SEE SHEETS 3 AND 4 FOR PLAN VIEWS OF THE BORROW AREA LAYOUT.
COASTAL PROTECTION AND RESTORATION AUTHORITY

TYPICAL SECTION - SOUTHERN MARSH CREATION AREA

ELEVATION (FT NAVD88)

NORTH

ENHANCED EARTHEN CONTAINMENT DIKE EL. = 4.4' ± 0.5'
(SEE NOTE 2)

CONSTRUCTION MARSH FILL EL. = 3.4' ± 0.5' (MAX.)

EARTHEN CONTAINMENT DIKE EL. = 4.4' ± 0.5' (SEE NOTE 2)

EXISTING GROUND

EARTHEN CONTAINMENT DIKE BORROW AREA

SOUTH

MIN. = 0.3'

MAX. = 1.5'

ENHANCED EARTHEN CONTAINMENT DIKE

CONSTRUCTION MARSH FILL EL. = 3.4' ± 0.5' (MAX.)

EARTHEN CONTAINMENT DIKE BORROW AREA

MIN. = 0.3'

MIN. = 1.5'

EXISTING GROUND

ENHANCED EARTHEN CONTAINMENT DIKE DETAIL

SOUTHERN MARSH CREATION AREA

ENHANCED EARTHEN CONTAINMENT DIKE

ENHANCED EARTHEN CONTAINMENT DIKE

ENHANCED EARTHEN CONTAINMENT DIKE

NOTES:
1. THE MARSH FILL DISCHARGE SHALL BE DIRECTED TO RETAIN AS MUCH MATERIAL AS POSSIBLE.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM FREEBOARD OF 1 FOOT IN THE MARSH CREATION AREAS. SEE TS-300.5 FOR ADDITIONAL CLARIFICATION.

HORIZONTAL GRAPHIC SCALE

VERTICAL GRAPHIC SCALE

MAX. EL. = 0.0'

VARIES

ENHANCED EARTHEN CONTAINMENT DIKE DETAIL

SOUTHERN MARSH CREATION AREA

COASTAL PROTECTION AND RESTORATION AUTHORITY

DATE: APRIL 2017

Enr. Date Description

Drawn By: K. Cantu
Designed By: T. McLain, P.E.
Approved By: T. Fitzgerald, P.E.

Sheet 9 of 40
NOTES:
1. THE EARTHEN CONTAINMENT DIKES SHALL BE CONSTRUCTED USING IN-SITU MATERIAL. SEE SHEET 5 & 5 FOR EARTHEN CONTAINMENT DIKE LOCATIONS.
2. THE LENGTHS OF THE EARTHEN CONTAINMENT DIKES WERE ESTIMATED USING AUTOCAD AND AERIAL PHOTOGRAPHY.
3. CONTRACTOR SHALL MAINTAIN A MINIMUM FREEBOARD OF 1 FOOT IN THE MARSH CREATION AREAS. SEE TS-300.5 FOR ADDITIONAL CLARIFICATION.

LEGEND
- EARTHEN CONTAINMENT DIKE
- EARTHEN CONTAINMENT DIKE BORROW AREA
- MARSH CREATION FILL
- EXISTING GROUND

COASTAL PROTECTION AND RESTORATION AUTHORITY
10 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70801

CAMERON-CREOLE WATERSHED GRAND BAYOU MARSH CREATION
STATE PROJECT NUMBER: CS-04
FEDERAL PROJECT NUMBER: CS-54
DATE: APRIL 2017

DESIGNED BY: T. MCLEAN, P.L.
APPROVED BY: T. FITZGERALD, P.E.
DRAWN BY: K. CANTU
PREPARED BY: P.E. NO. 38193
SHEET 10 OF 40
LEVEE PROTECTION
(SEE NOTES 3 & 5)

DREDGE PIPELINE (NOT TO SCALE)

EXISTING LEVEE

± 325'

± 330'

± 125'

EAST

WEST

LEVEE CROSSING

EXISTING GROUND

TERRACE PROTECTION
(SEE NOTE 3)

DREDGE PIPELINE (NOT TO SCALE)

EXISTING GROUND

TERRACE CROSSING

NOTES:
1. THE LEVEE CROSSING LOCATION AND DIMENSIONS ARE APPROXIMATIONS AND WILL BE FINALIZED AFTER THE WORK PLAN SUBMITTAL. SEE TS-340 FOR ADDITIONAL INFORMATION.
2. THE TERRACE CROSSING LOCATION AND DIMENSIONS ARE APPROXIMATIONS AND WILL BE FINALIZED AFTER THE WORK PLAN SUBMITTAL. SEE TS-341 FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED TERRACE AND LEVEE PROTECTION FOR APPROVAL TO THE CONSTRUCTION ENGINEER PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL RETURN THE LEVEE AND TERRACE CROSSINGS TO PRE-CONSTRUCTION CONDITIONS PRIOR TO DEMOBILIZATION.
5. THE CONTRACTOR SHALL NOTIFY RUSTY WELCH AT (337) 309-8844 A MINIMUM OF FORTY-EIGHT (48) HOURS BEFORE PLACEMENT OF THE PROTECTIVE MEASURES TO CROSS THE DRAINAGE DISTRICT'S LEVEE IS TO TAKE PLACE.
TEMPORARY WARNING SIGN TYPICAL DETAIL

NOTES:
1. TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WE BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS.
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PLING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.9 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 20 PCD AND CAPPED ACCORDING TO LA DODD SPECIFICATION 812.06.
5. TIMBER PILES SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.
NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
GEOD CS.