GENERAL NOTES


3. THE PROJECT FOOTPRINT ENCOMPASSES LAND OWNED BY APACHE LOUISIANA MINERALS, INC. AND LOUISIANA LAND AND EXPLOITATION COMPANY (LLEC), A SUBSIDIARY OF BURLINGTON RESOURCES (BRL). LANDS OWNED BY THESE COMPANIES ARE DEPICTED ON SHEET 3. THEIR CONTACT INFORMATION IS AS FOLLOWS:

APACHE LOUISIANA MINERALS, INC.

LLEC

CONTACT: TIM ALLEN
CONTACT: JEFF DEBIEUX
PHONE: (985) 670-3528
PHONE: (985) 853-3099

THE CONTRACTOR SHALL OBTAIN A TEMPORARY ACCESS AND CONSTRUCTION PERMIT FROM LLEC PRIOR TO MOBILIZATION OF EQUIPMENT OR PERFORMING ANY WORK ON THE PROJECT. THE CONTRACTOR SHALL FURNISH LLEC AN INSURANCE CERTIFICATE NOMING THEM AS INSURED IN AN AMOUNT NOT LESS THAN $1 MILLION. A COPY OF THE APPLICATION HAS BEEN INCLUDED IN APPENDIX D OF THE SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THE PERMIT APPLICATION AND INSURANCE CERTIFICATE TO THE ENGINEER PRIOR TO CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 5 WORKING DAYS IN ADVANCE OF THE WORK. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED FOR THE DURATION OF CONSTRUCTION BY THE CONTRACTOR OR PIPELINE OR UTILITY REPRESENTATIVE. THE CONTRACTOR SHALL NOT ANCHOR, SPUD, OR EXCAVATE WITHIN 60 FEET OF ANY PIPELINE. CROSSING OF PIPELINES WILL BE MADE WITH FLOATING EQUIPMENT ONLY. THE FOLLOWING IS A LIST OF UTILITIES AND PIPELINES OWNED TO HAVE PIPELINES IN THE VICINITY. PIPELINE LOCATIONS SHOWN ON SHEET 3 ARE APPROXIMATIONS. THE OWNER IS NOT LIABLE FOR EXACT LOCATIONS. THE CONTRACTOR MUST CALL LOUISIANA ONE CALL AT 1-800-272-2020 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION OR DEMOLITION ACTIVITY. THE CONTRACTOR SHALL, AT ALL TIMES, COMPLY WITH THE LOUISIANA UNDERGROUND UTILITIES AND FACILITIES DAMAGE PREVENTION LAW.

TENNESSEE GAS

TEXAS GAS

CONTACT: LARRY SLOUGH
CONTACT: DEXTER FAULK
PHONE: (863) 870-5015 EXT. 2022
PHONE: (985) 671-0165
PIPE SIZE: 24" AND 2"
PIPE SIZE: 20"

5. THE WORK SPECIFIED ON SHEET 11 MAY REQUIRE DE-ENERGIZATION OF A SOUTH LOUISIANA ELECTRIC COOPERATIVE ASSOCIATION (SLECA) POWER LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SLECA AND LORI A MINIMUM OF 2 WEEKS IN ADVANCE OF THE WORK. ANY WORK WITHIN 900 FEET OF THE SLECA POWER LINE WILL NOT BE DE-ENERGIZED DURING THE SHRIMP TALWING SEASON, AUGUST 15 THROUGH NOVEMBER 15 OF A CALENDAR YEAR. FURTHERMORE, THE POWER LINE WILL BE DE-ENERGIZED FROM MONDAY AT 8:00 AM UNTIL THE FOLLOWING THURSDAY AT 4:00 PM FOR SUCH TIME AS IS REEQUIRED FOR THE CONTRACTOR TO PERFORM WORK WITH THE EXCEPTION OF SHRIMP TALWING SEASON. SLECA

CONTACT: TODD SULLIVAN
PHONE: (985) 576-0680

6. ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED IN JUNE 2002 AND OCTOBER 2003 BY AIBM ENGINEERS, INC.

7. THE ALIGNMENT OF THE PROJECT FEATURES MAY BE REVISED BY THE LOIN PROJECT ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

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.

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

10. MATERIAL STOCKPILED LAKEWARD OF FLOATION AND ACCESS CHANNELS SHALL BE DEPOSITED IN AREAS SHOWN ON THE PLANS AND PLACED SUCH THAT IT IS READILY AVAILABLE TO BE USED TO BACK FILL FLOATION AND ACCESS CHANNELS. ONLY MATERIAL DREDGED FROM FLOATION AND ACCESS CHANNELS SHALL BE BACK FILLED INTO SAID CHANNELS.

11. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) WERE CALCULATED FROM THE NOAA GRAND ISLE TIDAL GAGE AND A USGS GAGE IN BAYOU RACOURD. DATA FROM 01/01/1994 TO 12/31/2002 WAS USED. ELEVATIONS ARE REFERENCED TO NAVD 88, BS FEET, MHW=+1.45" AND MLW =-0.27" THE USGS GAGE IN BAYOU RACOURD IS NO LONGER IN USE.

12. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE FLOATION ACCESS CHANNELS, THE BORROW AREA AND ALL PROPOSED PIPELINE ACCESS CORRIDORS (SEE SHEET 3, NOTE #1). DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER LINES SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO MOBILIZATION FOR CONSTRUCTION. MAGNETOMETER LINES SHALL BE RUN ALONG THE CENTERLINE ALIGNMENT OF FLOATION ACCESS CHANNELS. ADDITIONAL MAGNETOMETER LINES SHALL BE RUN PERPENDICULAR TO THE FLOATION ACCESS CHANNEL, BEGINNING AT THE EDGE OF THE FILL PILE ON THE TEMPORARY SPOIL, PLACEMENT AND EXTENDING 250 FT BEYOND THE PERMANENT OR TEMPORARY SPOIL, AND SHALL BE SPACED A MAXIMUM OF 50 FT APART. MAGNETOMETER LINES IN THE BORROW AREA SHALL FORM A GRID PATTERN WITH A MAXIMUM OFFSET OF 500 FT AND SHALL BE ORIENTED NORTH AND EASTWEST. THE DRAWINGS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN LOUISIANA. SEE SPECIFICATION SECTION "TS-3.5 MAGNETOMETER SURVEY" FOR ADDITIONAL REQUIREMENTS.

13. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM THE PROJECT SITE.

SUMMARY OF ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>ESTIMATED QUANTITY</th>
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<tbody>
<tr>
<td>1</td>
<td>Mobilation and Demobilization</td>
<td>LS</td>
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</tr>
<tr>
<td>2</td>
<td>Surveying</td>
<td>LS</td>
<td>1</td>
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<td>4</td>
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<td>Folation Access Channels</td>
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<td>7</td>
<td>Riprap</td>
<td>TONS</td>
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<td>Non-Woven Geotextile Fabric</td>
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<td>Concrete Mats</td>
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<tr>
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<td>Warning Signs</td>
<td>EACH</td>
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QUANTITY NOTES:

1. QUANTITIES SHOWN ARE FOR BIDGING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN JUNE 2002 AND OCTOBER 2003. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES WITHOUT ADJUSTMENT OF THE UNIT PRICE.

2. HYDRAULIC DREDGING QUANTITIES FOR MARSH CREATION AND MARSH NOURISHMENT AREA ARE BASED ON BORROW AREA CUB VOLUME. ACTUAL QUANTITIES FOR PAYMENT WILL BE BASED ON SURVEYS PERFORMED AS PART OF THIS CONTRACT AS REQUIRED IN "TS-3 SURVEYS" OF THE SPECIFICATIONS.

3. EARTHWORK QUANTITIES ARE BASED ON FILL IN PLACE, SETTLEMENT OF EARTEN MATERIAL PLACED BY DREDGE IS NOT INCLUDED IN THE BILL QUANTITIES.
NOTES:
1. IN MARSH CREATION AREAS, HYDRAULIC FILL SHALL BE PLACED USING A MINIMUM OF TWO LIFTS. HYDRAULIC FILL FOR MARSH NOURISHMENT AREAS SHALL BE PLACED USING ONE LIFT.
2. REFER TO TS-8 OF THE SPECIFICATIONS FOR DREDGING PLACEMENT AND PAYMENT DETAILS.
3. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO CONSTRUCTION IN ACCORDANCE WITH TS-9.4 OF THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A TIMELINE OF ALL DREDGING OPERATIONS.

SECTION B2-B2'
TYPICAL MARSH CREATION SECTION
FOR FIN IS 20, 3, 7 & 8

SECTION B3-B3'
TYPICAL MARSH NOURISHMENT CREATION SECTION
FOR FIN LS 4 & 8
SECTION B4-B4'
TYPICAL MARSH CREATION FILL SECTION
FOR FILL AREAS 2A & 2B

NOTES:
1. IN MARSH CREATION AREAS, HYDRAULIC FILL SHALL BE PLACED USING A
   MINIMUM OF TWO LIFTS. HYDRAULIC FILL FOR MARSH NOURISHMENT AREAS
   SHALL BE PLACED USING ONE LIFT.
2. REFER TO TS-8 OF THE SPECIFICATIONS FOR DREDGING PLACEMENT AND
   PAYMENT DETAILS.
3. CONTRACTOR SHALL SUBMIT A DREDGE DISPOSAL PLAN PRIOR TO
   CONSTRUCTION IN ACCORDANCE WITH TS-8A OF THE SPECIFICATIONS. THE
   PLAN SHALL INCLUDE A TIMELINE OF ALL DREDGING OPERATIONS.
1. Depending on draft requirements of the contractor's equipment, flotation channels may not be required at all locations shown. Flotation channels are permitted to a maximum depth of 4'-0" navd 88. It is not mandatory that the contractor dredge to this depth. The contractor shall dispose of flotation spoil in the areas shown on the plans. Temporary spoil disposal shall be placed into the flotation channel prior to demolition in accordance with 73-6 of the specifications.

2. For Section C-C' the flotation access channel, follows a remnant channel. Dredged material shall be placed to the land side as close to the existing lake rim as possible.
NOTES:
1. SEE SHEET 22, 23, AND 24 FOR SHEETPLE TIP ELEVATIONS.
NOTES:
1. SEE SHEET 7 FOR LOCATION OF EXISTING WEIR.
2. SEE SHEET 20 FOR SECTIONS AND DESIGN DETAILS.
3. DEPENDING ON SITE AND SOIL CONDITIONS AFTER EXISTING WEIR REMOVAL, THE EXACT LOCATION OF THE REPLACEMENT WEIR MAY BE MODIFIED BY THE LDNR PROJECT ENGINEER.
4. SEE SHEET 20 FOR WING WALL DETAILS.
ARMORED EARTHEN DIKE
SETTLEMENT PLATE DETAIL
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL BE ALLOWED TO REMOVE ONE MAT ELEMENT FOR THE PLACEMENT OF THE CONCRETE MAT OVER THE SETTLEMENT PLATE. (SEE DETAIL A).  
2. ONE SETTLEMENT PLATE SHALL BE INSTALLED ALONG THE CENTERLINE OF THE CONCRETE MAT STRUCTURE AS SHOWN, OR AS DIRECTED BY THE LEHR PROJECT ENGINEER. APPROXIMATE LOCATION OF THE SETTLEMENT PLATE IS SHOWN ON SHEET 8. ACTUAL LOCATION WILL BE DETERMINED IN THE FIELD. FOR INSTALLATION METHOD REFER TO THE PROJECT SPECIFICATIONS TS-17. SETTLEMENT PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.  
3. SEE SPECIFICATION SECTION TS-12, NON-WOVEN GEOTEXTILE FABRIC, FOR STRENGTH AND PLACEMENT REQUIREMENTS.  
4. SEE SPECIFICATION SECTION TS-13, CONCRETE MATS FOR MATERIAL AND PHYSICAL REQUIREMENTS.

STATE OF LOUISIANA
LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
ATLANTIC OCEAN COASTAL ENGINEERING DIVISION
4700 NORTH 70001
BAYOU ROUGUE LA 70020

NORTH LAKE MECHANIC LANDBRIDGE
RESTORATION PROJECT
STATE PROJECT NUMBER: TD-01
FEDERAL PROJECT NUMBER: N/A
DATE: JANUARY 2008
SHEET 31 OF 65

DRAWN BY: KRISTI CAPITU
DESIGNED BY: MELVIN ANDERSON, P.E.
APPROVED BY: LAUREN LEBAL, P.E.