GENERAL NOTES


2. BENCHMARK TE-45-3801 HAS BEEN ESTABLISHED AT THE SITE BY THE OWNER. SEE SHEET 3 FOR BENCHMARK LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH AND MAINTAIN TEMPORARY BENCHMARKS DURING CONSTRUCTION AS NEEDED.

3. ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED BETWEEN JUNE 23, 2002 AND JULY 6, 2002 BY MORRIS P. HERBERT, INC.

4. CONTRACTOR SHALL VISIT THE SITE OF WORK TO BECOME FAMILIAR WITH THE LOCAL CONDITIONS AND WHAT EFFECTS THE CONDITIONS MAY HAVE ON ACCESS AND CONSTRUCTION.

5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, EXISTING ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO REMOVAL OF MATERIAL, AND COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ALL DISCREPANCIES.


7. THE LOCATIONS OF THE STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY TO REMOVE THE STRUCTURES AT THE BEGINNING OF CONSTRUCTION.

8. LOCATION OF UTILITIES INDICATED ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED IN PART ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. IT IS THE CONTRACTOR’S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

9. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR’S NEGLIGENCE. THE DAMAGE SHALL BE REPAIRED AT CONTRACTOR’S EXPENSE.

10. FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY UTILITY OR PIPELINES IN THE AREA WHICH MAY BE UNKNOWN TO THE OWNER. ADDITIONALLY, THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY WITHIN THE CONSTRUCTION AREA AND WHERE THE STRUCTURES ARE TO BE LOCATED. FURTHERMORE, CONTRACTOR SHALL NOTIFY CHEVRONTEXACO A MINIMUM OF 14 DAYS PRIOR TO ACCESSING THE SITE AT (985) 758-0230 OR (504) 247-3383, ATTENTION SHANNON MONTGOMERY, TO HAVE THE PIPELINE IN THE PROJECT AREA PROPERLY MARKED PRIOR TO MOBILIZATION.

11. ALL PIPELINES WITHIN THE PROJECT AREA SHALL BE CLEARLY MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 100 FEET OF ANY PIPELINE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOBILIZING, COMPLETING THE REQUIRED CONSTRUCTION ACTIVITIES, AND DEMOBILIZING WITHOUT CROSSING OR OTHERWISE IMPACTING UNACQUIRED OYSTER LEASES SHOWN ON SHEET 3.

13. REMOVALS SHALL CONSIST OF SHORELINE PROTECTION UNITS AND ANY ANCHORS. BEDDING MATERIAL SHALL BE LEFT IN PLACE.

14. WARNING SIGNS FOR REACH A, B & E TO BE REMOVED BY PULLING THE COMPLETE PILE IF POSSIBLE. IF PILE CAN NOT BE COMPLETELY PULLED IT MUST BE BROKEN OFF A MINIMUM OF 3 FEET BELOW THE BAY BOTTOM.

15. ALL ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
NOTES:
1. DNR HAS ACQUIRED ALL OR PORTIONS OF TWO OYSTER LEASES IN REACH E THAT WILL BE IMPACTED BY CONSTRUCTION AS PRESENTED BELOW: LEASE NO. 33135 - 7 ACRES ACQUIRED BY DNR FROM G.I. JOE, INC., EMPIRE LA LEASE NO. 31661 - 14 ACRES ACQUIRED BY DNR.
2. THERE ARE NO OYSTER LEASES THAT WILL BE IMPACTED IN REACH A.
3. ALL BARGES SHALL BE LIGHT LOADED FOR TRANSPORTATION OF EQUIPMENT AND MATERIALS. NO PROP WASHING OR DREDGING SHALL BE ALLOWED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOBILIZING, COMPLETING THE REQUIRED CONSTRUCTION ACTIVITIES, AND DEMOBILIZING WITHOUT CROSSING OR OTHERWISE IMPACTING UNACQUIRED OYSTER LEASES SHOWN ON SHEET 3.
NOTES:
1. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.

AS-BUILT NOTES:
1. THE ONSHORE ARMOR UNIT WAS SELECTED AND USED BY CONTRACTOR AS THE TIE-IN UNIT.
GABION UNIT DETAIL
NOT TO SCALE

NOTE:
NO ANCHORS OR TIES ARE REQUIRED FOR GABION MAT UNITS

ARMOR UNIT DETAIL
NOT TO SCALE

NOTE:
ONLY ONE COMPLETE ROW OF ARMOR UNITS IS SHOWN FOR CLARITY.

TRIANGULAR UNIT DETAIL
NOT TO SCALE

FOR INFORMATION ONLY
NOTES:
1. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY FOR CONSTRUCTION LAY OUT.
2. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS. (FOR INFORMATION ONLY)
3. LOCATIONS OF ONSHORE AND FORESHORE UNITS SHOWN ARE APPROXIMATE. EXACT STRUCTURE LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR.
4. FORESHORE STRUCTURES WILL BE PLACED AT OR NEAR THE -1.5' CONTOUR AND MAINTAIN A MINIMUM TOP ELEVATION OF 1.0' NAVD 88. (FOR INFORMATION ONLY)
5. SURVEY TRANSECTS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
6. LDNR SECONDARY MONUMENT "TE45-SM-01" WAS USED FOR HORIZONTAL AND VERTICAL CONTROL IN THE PRE-CONSTRUCTION SURVEY.

LEGEND
- ONSHORE ARMOR UNITS (TO BE REMOVED)
- ONSHORE GABION MAT UNITS (TO BE REMOVED)
- FORESHORE TRIANGULAR UNITS (TO BE REMOVED)
- TIE-IN UNITS (TO BE REMOVED)
- WARNING SIGN (TO BE REMOVED)
- OYSTER LEASE
- SHORELINE
- BORINGS

COORDINATES
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SURVEY BASELINE

LAKE BARRE

TERREBONNE BAY SHORELINE
DEMONSTRATION - FEATURES
REMOVAL PROJECT TE-0045

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

DATE: DEC. 2019
APPROVED BY: ROLLAND MURA, P.E.
STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER: 14-99-01
REACH A AND B LAYOUTS

SHORELINE
RIDGE
DREDGING
REMOVAL
Y PLAIN
REACH
A AND B
LAYOUTS

SURVEY TRANSECT

SURVEY TRANSECT

NOTES:
1. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY FOR CONSTRUCTION LAY OUT.
2. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS. (FOR INFORMATION ONLY)
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5. SURVEY TRANSECTS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
6. LDNR SECONDARY MONUMENT "TE45-SM-01" WAS USED FOR HORIZONTAL AND VERTICAL CONTROL IN THE PRE-CONSTRUCTION SURVEY.
NOTES:
1. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY FOR CONSTRUCTION LAY OUT.
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6. LDNR SECONDARY MONUMENT "TE45-SM-01" WAS USED FOR HORIZONTAL AND VERTICAL CONTROL IN THE PRE-CONSTRUCTION SURVEY.
NOTES:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. ADHESIVE SHALL BE USED TO JOIN ALL HALVES TO FORM A SINGLE UNIT.
3. IF CONTRACTOR SELECTS ARMOR UNIT AS HIS TIE-IN UNIT, THE TOP OF THE ARMOR UNIT MUST BE AT A MINIMUM ELEVATION OF +1.0' NAVD.
4. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.
TYPICAL CONFIGURATION OF FILLED GABION MAT UNITS

CONSTRUCTION NOTES:
1. ENDS, TOP, BOTTOM, SIDES AND ANY EXTRA LENGTH USED FOR LIFTING OR ANCHORING PURPOSES SHALL BE COMPOSED OF TENSAR UXTRITON200 GEOGRID. PLASTIC CABLE TIES MAY BE USED TO SECURE BODKIN CONNECTORS IN POSITION PRIOR TO TENSIONING OR FILLING OF MAT UNITS.
2. INTERNAL DIAPHRAGMS SHALL BE COMPOSED OF TENSAR UXTRITON100 GEOGRID.
3. GABION MAT SHALL BE FILLED WITH ASTM CLASS #1 STONE OR ENGINEER APPROVED EQUIVALENT.
4. NOMINAL WIDTH: 5 FT. (FILLED)
5. NOMINAL THICKNESS: 12 IN. (FILLED)
6. NOMINAL WEIGHT: 9000 LBS. (20' X 5' X 12')

SEAM NOTES:
1. ALL CUT ENDS OF BRAID MATERIAL SHALL BE KNOTTED WITHIN 1/2" TO 2" OF THE END TO PREVENT RAVELING OF BRAID.
2. THE BRAID SHALL BE SECURELY KNOTTED TO THE GEOGRID AT ALL ENDS OF ALL BRAIDED SEAMS. THE BRAID SHALL BE KNOTTED WHEN SPLICING TO THE NEXT PIECE OF BRAID, OR WHEN SECURING IT TO THE GEOGRID. AT ALL ENDS, EACH BRAIDED SEAM SHALL BE CONTINUOUS, WITH SECURELY KNOTTED SPLICES ALLOWED. THE BRAID SHALL BE SECURELY KNOTTED TO THE GEOGRID AT A SPACING NOT TO EXCEED 6 FT ALONG ANY SEAM.
3. THE BRAID SHALL BE STITCHED THROUGH EACH PAIR OF APERTURES ALONG THE SEAM AT LEAST ONCE, AND THE MINIMUM NUMBER OF STITCHES PER FOOT ALONG THE SEAM SHALL BE SIX (6). THE SPACING OF STITCHES ALONG EACH SEAM SHALL BE REASONABLY UNIFORM.
4. ALL KNOTS SHALL BE TIED IN A MANNER TO PREVENT SLIPPING AND CINCHING. THE WRAPS ALONG THE SEAM SHALL BE SUFICIENTLY TIGHT TO CLOSE THE GAP BETWEEN THE ADJACENT PIECES OF GEOGRID, BUT SHALL NOT BE OVER-TIGHTENED SUCH THAT THE GEOGRID BINDS ALONG THE SEAM.

FABRICATION NOTES:
1. TYPICAL SPACING OF DIAPHRAGMS IS EVERY THREE APERTURE LENGTHS. A SHORTER SPACING MAY BE USED IN ORDER TO MATCH THE REQUIRED MAT LENGTH. LENGTH OF END PIECES AND INTERNAL DIAPHRAGMS PIECES ARE 2 GRID APERTURES LONG.
2. DUE TO THE ENVIRONMENTALLY SENSITIVE NATURE OF THE PROJECT AND POSSIBLE LIFT RESTRICTIONS OF THE CONTRACTOR'S EQUIPMENT, GABION MATS MAY BE SPLIT INTO TWO EQUAL 10' LONG MATS IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.

TYPICAL CONFIGURATION OF FABRICATED GABION MAT

FOR INFORMATION ONLY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
BATON ROUGE, LOUISIANA 70802

TERREBONNE BAY SHORELINE DEMONSTRATION - FEATURES REMOVAL PROJECT TE-0045
ONSHORE GABION MAT DETAILS

STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER: DE-9945

REV Date Description
07

1/4" TYP.

TOP AND BOTTOM FRAME
#4 (1/2") A706 WELDABLE REBAR

OVERLAP WELD DETAIL
NOT TO SCALE

WELD DETAIL
NOT TO SCALE

SUPPORT MEMBER DETAIL
NOT TO SCALE

MESH BAG DETAIL
NOT TO SCALE

NOTES:
1. ALL STRUCTURAL STEEL SHALL BE ASTM A-706 WELDABLE NO. 4 (1/2 INCH) REBAR.
2. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.

STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER: R04454
DATE: DEC. 2019
APPROVED BY: ROLLAND MURA, P.E.
NOTES:
1. REFERENCES HEREIN TO THE ‘STANDARD SPECIFICATIONS’ REFER TO THE “LA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES”, LATEST EDITION, INCLUDING AMENDMENTS, BY THE DEPT. OF TRANSPORTATION AND DEVELOPMENT. MEASUREMENT AND PAYMENT WILL BE MADE AS DESCRIBED THEREIN, EXCEPT WHERE STATED OTHERWISE.
2. TWO WARNING SIGNS SHALL BE INSTALLED WITHIN EACH REACH (6 TOTAL) AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT ENGINEER.
3. THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL 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; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1).
4. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
5. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.15 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
6. TIMBER PILINGS SHALL BE 40-FOOT IN LENGTH WITH A 12-INCH DIAMETER BUTT AND 7-INCH DIAMETER AT THE TIP.
7. TIMBER PILINGS SHALL BE 40-FEET IN LENGTH WITH A 12-INCH DIAMETER BUTT AND 7-INCH DIAMETER AT THE TIP.
8. EXPOSED BOLT THREADS SHALL BE EITHER TACK WELDED TO NUTS, STRIPPED, OR DAMAGED BY OTHER APPROVED METHOD TO PREVENT EASY REMOVAL.

WARNING SIGN DETAILS

FOR INFORMATION ONLY
NOTES:
1. THE MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS ARE BASED ON THE BAYOU PETIT CAILLOU GAGE #76305 READINGS FROM 1992-2002 HAVING A VERTICAL DATUM OF NGVD 29 WHICH WAS CONVERTED TO NAVD 88 ELEVATIONS.
2. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. CROSS-SECTIONS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
NOTES:
1. THE MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS ARE BASED ON THE BAYOU PETIT CAILOU GAGE #76305 READINGS FROM 1992-2002 HAVING A VERTICAL DATUM OF NGVD 29 WHICH WAS CONVERTED TO NAVD 88 ELEVATIONS.
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LEGEND

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FOR INFORMATION ONLY

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER: 153555

DESIGNED BY: JARED MONCEAUX, P.E.
DRAWN BY: STEVE URQUHART
APPROVED BY: ROLLAND MURA, P.E.

DATE: DEC. 2019
1. THE MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS ARE BASED ON THE BAYOU PETIT CAILLOU GAGE #76305 READINGS FROM 1992-2002 HAVING A VERTICAL DATUM OF NGVD 29 WHICH WAS CONVERTED TO NAVD 88 ELEVATIONS.
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LEGEND
- - - PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)
NOTES:
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LEGEND
- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)

DRAFTED BY: STEVE URQUHART
DESIGNED BY: JARED MONCEAUX, P.E.
APPROVED BY: ROLLAND MURA, P.E.
REACH E PROFILES

FOR INFORMATION ONLY

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- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER:

TERREBONNE BAY SHORELINE DEMONSTRATION - FEATURES REMOVAL PROJECT TE-0045
STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER:

REACH E PROFILES

HEI
Hartman Engineering, Inc.
Consulting Engineers

TERREBONNE BAY SHORELINE DEMONSTRATION - FEATURES REMOVAL PROJECT TE-0045
STATE PROJECT NUMBER: TE-0045
FEDERAL PROJECT NUMBER:

REACH E PROFILES
FOR INFORMATION ONLY

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3. CROSS-SECTIONS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.

LEGEND
- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)

100' 50' 20' 10' 5' 0'

FOR INFORMATION ONLY
FOR INFORMATION ONLY

1. The mean high water (MHW) and mean low water (MLW) elevations are based on the Bayou Petit Callou gage #76305 readings from 1992-2002 having a vertical datum of NGVD 29 which was converted to NAVD 88 elevations.
2. All elevations are given in the North American vertical datum of 1988 (NAVD 88).
3. Cross-sections are based on contractor's pre-construction survey performed in September of 2007.
4. As-built positions and elevations of structures was taken from contractor's as-built survey performed in January of 2008.

NOTES:

LEGEND

- Pre-construction X-sections (Sept 2007)
- Original design X-sections (June/July 2002)

HORIZONTAL GRAPHIC SCALE

VERTICAL GRAPHIC SCALE

FOR INFORMATION ONLY