COLE’S BAYOU MARSH RESTORATION
TV-63
VERMILION PARISH

PRELIMINARY

DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDEMENT, CONVEYANCE, SALES, OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT.

LICENSE REQUIREMENTS:
MAJOR CLASSIFICATION:  HEAVY CONSTRUCTION
SUBCLASSIFICATION:  DREDGING

VERMILION PARISH
GENERAL NOTES:
1. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
3. 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 BY THE ENGINEER.
4. 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.
5. THE MARSH CREATION AREAS, BORROW AREAS, CONTAINMENT DIKES, AND WATER CONTROL STRUCTURES MAY BE REVISED BY THE ENGINEER THROUGH THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
6. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE ALIGNMENT, BORROW AREAS, WATER CONTROL STRUCTURES, ACCESS CHANNELS, AND MARSH CREATION AREAS PRIOR TO EXCAVATION. 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 EXCAVATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREAS.
8. BACKGROUND IMAGERY WAS TAKEN IN 2012.

NOTIFICATIONS:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. PIPELINES LOCATED WITHIN 150' OF THE WORK SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.
ACADIAN PIPELINE COMPANY
CONTACT: LEONARD THURMOND (ENTERPRISE PRODUCTS)
PHONE: (281) 887-3322
2. THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED IN THE SPECIFICATIONS AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK.

DESIGN NOTES:

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<th>SECONDARY SURVEY MONUMENT</th>
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<th>NORTHING</th>
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3. DATA FROM STATION CRM524141 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET. GEOID 12A. MHW = +0.68' AND MLW = +0.48' WITHIN PROJECT AREA AND MHW = 1.86' AND MLW = 1.15' IN LITTLE VERMILION BAY AND MHW = 0.52' AND MLW = -0.12' IN OIL FIELD CANALS.
4. A GEOTECHNICAL INVESTIGATION WAS PERFORMED BY ARDAMAN & ASSOCIATES ON FEBRUARY 2013 TO APRIL 2013. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

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<tr>
<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
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1. THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM APRIL 2013 THROUGH JUNE 2013 AND OCTOBER 2014 THROUGH NOVEMBER 2014. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
2. QUANTITY IS BASED ON THE BORROW AREA CUT VOLUMES. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS.

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

COLE’S BAYOU
MARSH RESTORATION

STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TV-63
DATE: SEPTEMBER 2015

APPROVED BY: S. HAYNES, P.E.
DESIGNED BY: A. TAYLOR, E.I.
DRAWN BY: K. CANTU
SHEET 2 OF 46
COASTAL PROTECTION AND RESTORATION AUTHORITY  
105 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801  

COLE'S BAYOU  
MARSH RESTORATION  

STATE PROJECT NUMBER: TV-63  
FEDERAL PROJECT NUMBER: TV-63  

DATE: SEPTEMBER 2015  
APPROVED BY: S. HAYNES, P.E.  
DRAWN BY: A. TAYLOR, E.I.  
DESIGNED BY: K. CANTU  

NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
2. ALL PIPELINES LOCATED WITHIN 150' OF THE BORROW AREA SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES OF THE BORROW AREA.
3. A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO MOBILIZATION OF THE DREDGE.

BORROW AREA

ESTIMATED QUANTITIES

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BORROW AREA

DREDGE PIPELINE ALIGNMENT

EQUIPMENT ACCESS CORRIDOR

LITTLE VERMILION BAY

楿 100.0'  
ЕН 300'  
0  600'  
1,200'

LEGEND

BORROW AREA  
DREDGE PIPELINE ALIGNMENT  
EQUIPMENT ACCESS CORRIDOR  
VERIFIED PIPELINE  
UNKNOWN PIPELINE  
UNVERIFIED PIPELINE
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

COLE'S BAYOU MARSH RESTORATION

MARSH CREATION AREAS 1 & 2 PLAN VIEW

NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
2. ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
3. A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO EXCAVATION.

EQUIPMENT ACCESS ALIGNMENT
FRESHWATER BAYOU CHANNEL

LEGEND
MARSH CREATION AREA
WATER CONTROL STRUCTURE BORROW AREA
EARTHEN CONTAINMENT DIKE BORROW AREA
EARTHEN CONTAINMENT DIKE
EARTHEN CONTAINMENT DIKE BORROW AREA
10" ACADIAN PIPELINE
WATER CONTROL STRUCTURE BORROW AREA

500' 250' 0' 250' 500' 1000'

DRAWN BY: K. CANTU
DEIGNED BY: A. TAYLOR, E.I.
APPROVED BY: S. HAYNES, P.E.
DATE: SEPTEMBER 2015
SHEET 5 OF 44
NOTES:
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
2. ALL PIPELINES LOCATED WITHIN 150' OF ANY CONSTRUCTION FEATURE SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
3. A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO EXCAVATION.
**LEGEND**

- **EQUIPMENT ACCESS CORRIDOR EXCAVATION**
- **TEMPORARY SPOIL**
- **EXISTING WATER BOTTOM**

---

**EQUIPMENT ACCESS CORRIDOR TYPICAL SECTION**

**EQUIPMENT ACCESS CORRIDOR PIPELINE CROSSING TYPICAL SECTION**

---

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**COLE’S BAYOU MARSH RESTORATION**

**STATE PROJECT NUMBER: TV-64**

**FEDERAL PROJECT NUMBER: TV-64**

**DATE: SEPTEMBER 2015**

**DRAWN BY: K. CANTU**

**DESIGNED BY: A. TAYLOR, E.I.**

**APPROVED BY: S. DAVIES, P.E.**

**SHEET 7 OF 44**
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
NO LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

**COLLE'S BAYOU MARSH REGENERATION**  
STATE PROJECT NUMBER: TV-63  
FEDERAL PROJECT NUMBER: TV-63  
DATE: SEPTEMBER 2015

**DREDGE PIPELINE PONTOON CROSSING & BORROW AREA TYPICALS**

**LEGEND**
- DREDGE PIPELINE
- EXISTING EARTHEN EMBANKMENT
- BORROW AREA
- EXISTING GROUND
- ARTICULATED CONCRETE MATS
- PONTOON SUPPORT

**DESCRIPTION**

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**PLAN VIEW**

- **EXISTING GRADE EL. = -1.5' NAVD88**
- **MHW = 0.92'**
- **MLW = 0.12'**
- **VARES**
- **EXISTING WATER BOTTOM**

**SECTION VIEW**

- **MHW = 1.85'**
- **MLW = 1.16'**

**MARSH CREATION BORROW AREA**

**TYPICAL SECTION**

- **EXISTING GRADE EL. = ~ -1.5' NAVD88**
- **MARSH CREATION BORROW AREA**
- **PONTOON PIPELINE**
- **EXISTING GRADE**
- **EL. = -15.0' (MAX.)**
- **Marine Water Structure Borrow Area**
- **WATER STRUCTURE BORROW AREA**
- **TYPICAL SECTION**
- **VARES**
- **EXISTING WATER BOTTOM**

---

**DRAWN BY:** K. CANTU  
**DESIGNED BY:** A. TAYLOR, P.E.  
**APPROVED BY:** S. HAYNES, P.E.  
**SHEET 8 OF 44**
NOTES:
1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL COORDINATES DENOTE CENTERLINE OF PIPE.
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

COLE'S BAYOU
MARSH RESTORATION
WATER STRUCTURE 4
PLAN, PROFILE, & SECTION

LEGEND

EXISTING MARSH
IN-SITU FILL
DREDGE CUT
CULVERT
ARTICULATED CONCRETE BLOCK (ACB) REVETMENT
EXISTING GROUND
CULVERT

NOTES:
1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL COORDINATES DENOTE CENTERLINE OF PIPE.

STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TV-63
DATE: SEPTEMBER 2015

DRAWN BY: K. CANTU
DESIGNED BY: A. TAYLOR, E.I.
APPROVED BY: S. HAYNES, P.E.

SHEET 15 OF 36
The Inline Check Valve shall be placed inside the culvert a minimum of 6" from the edge of the pipe. Intake and outfall coordinates denote the centerline of the pipe.
COASTAL PROTECTION AND
RESTORATION AUTHORITY

COORDINATES DENOTE CENTERLINE OF PIPE.

HORIZONTAL GRAPHIC SCALE

VERTICAL GRAPHIC SCALE

COLE’S BAYOU MARSH CREATION
AND HYDROLOGICAL RESTORATION

NOTES:
1. THE IN-LINE CHECK VALVE
   SHALL BE PLACED INSIDE
   THE CULVERT A MINIMUM
   OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL
   COORDINATES DENOTE CENTERLINE OF PIPE.

LEGEND

EXISTING MARSH
IN-SITU FILL
DREDGE CUT
CULVERT
ARTICULATED CONCRETE
BLOCK (ACB) REVETMENT
EXISTING GROUND
EXISTING CULVERT
CULVERT

NOTE: EXISTING STRUCTURE SHALL BE REMOVED
AND REPLACED WITH CMP CULVERTS.

EXISTING CULVERT (SEE NOTE)

PLAN VIEW

WATER STRUCTURE 6

PROFILE

SECTION

SOUTH
SOUTHWEST
NORTHEAST

OUTFALL TRENCH

INTAKE TRENCH

EXISTING CULVERT

DREDGE CUT

ARTICULATED CONCRETE BLOCK (ACB) REVETEMENT

NOTES:
1. THE IN-LINE CHECK VALVE
   SHALL BE PLACED INSIDE
   THE CULVERT A MINIMUM
   OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL
   COORDINATES DENOTE CENTERLINE OF PIPE.

LEGEND

EXISTING MARSH
IN-SITU FILL
DREDGE CUT
CULVERT
ARTICULATED CONCRETE
BLOCK (ACB) REVETMENT
EXISTING GROUND
EXISTING CULVERT
CULVERT

NOTE: EXISTING STRUCTURE SHALL BE REMOVED
AND REPLACED WITH CMP CULVERTS.

PLAN VIEW

WATER STRUCTURE 6

PROFILE

SECTION

SOUTH
SOUTHWEST
NORTHEAST

OUTFALL TRENCH

INTAKE TRENCH

EXISTING CULVERT

DREDGE CUT

ARTICULATED CONCRETE BLOCK (ACB) REVETEMENT

NOTES:
1. THE IN-LINE CHECK VALVE
   SHALL BE PLACED INSIDE
   THE CULVERT A MINIMUM
   OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL
   COORDINATES DENOTE CENTERLINE OF PIPE.
PLAN VIEW

WATER STRUCTURE 8

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SECTION

EXISTING SPOIL BANK

PIPE TRENCH TO BE BACKFILLED WITH IN-SITU

EXISTING MARSH

IN-SITU FILL

DREDGE CUT

CULVERT

ARTICULATED-CONCRETE BLOCK (ACB) REVETMENT

EXISTING GROUND CULVERT

NOTES:
1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL COORDINATES DENOTE CENTERLINE OF PIPE.

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

COLES BAYOU MARSH CREATION AND HYDROLOGICAL RESTORATION

FEDERAL PROJECT NUMBER: TV-63
STATE PROJECT NUMBER: TV-63
DATE: SEPTEMBER 2015

DRAWN BY: K. CANTU
DESIGNED BY: A. TAYLOR, E.I.
APPROVED BY: S. HAYNES, P.E.

SHEET 22 OF 48
ELEVATION (FEET NAVD 88)

-3
-2
-1
0
1
2
3
4
5

SHEET OF

DATE: SEPTEMBER 2015

STATE PROJECT NUMBER: TV-63

FEDERAL PROJECT NUMBER: TV-63

APPROVED BY: K. BAYNES, P.E.

DESIGNED BY: A. TAYLOR, E.I.

DRAWN BY: K. CANTU

COASTAL PROTECTION AND RESTORATION AUTHORITY

500 LOURDES, BATON ROUGE, LOUISIANA 70801

PLAN VIEW

PLAN VIEW

PROFILE

LEGEND

EXISTING MARSH

IN-SITU FILL

DREDGE CUT

CULVERT

ARTICULATED CONCRETE BLOCK (ACB) REVETMENT

EXISTING GROUND

CULVERT

NOTES:

1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL COORDINATES DENOTE CENTERLINE OF PIPE.

HORIZONTAL GRAPHIC SCALE

VERTICAL GRAPHIC SCALE

COASTAL PROTECTION AND RESTORATION AUTHORITY

SAME LAUREL STREET

Baton Rouge, Louisiana 70801

COLES BAYOU MARSH CREATION AND HYDROLOGICAL RESTORATION

WATER STRUCTURE 9 PLAN, PROFILE, & SECTION

DATE: SEPTEMBER 2015

SHEET 20 OF 44
COASTAL PROTECTION AND RESTORATION AUTHORITY
301 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

COLE’S BAYOU MARSH CREATION AND HYDROLOGICAL RESTORATION
STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TY-63
DATE: SEPTEMBER 2015

WATER STRUCTURE 11
PLAN, PROFILE, & SECTION

NOTES:
1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. INTAKE AND OUTFALL COORDINATES DENOTE CENTERLINE OF PIPE.
NOTES:
1. THE INLINE CHECK VALVE SHALL BE PLACED INSIDE THE CULVERT A MINIMUM OF 6" FROM EDGE OF PIPE.
2. TIDEFLEX CHECKMATE VALVE OR APPROVED EQUAL.

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

COLE'S BAYOU MARSH RESTORATION
STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TV-63
DATE: SEPTEMBER 2015

DRAWN BY: K. CANTU
DESIGNED BY: A. TAYLOR, E.I.
APPROVED BY: S. HAYNES, P.E.
SHEET 26 OF 46
NOTE: A MAGNETOMETER SURVEY SHALL BE CONDUCTED ACCORDING TO THE SPECIFICATIONS PRIOR TO MOBILIZATION OF THE DREDGE.
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COASTAL PROTECTION AND RESTORATION AUTHORITY
1500 LOCKWOOD FERRY ROAD
BATON ROUGE, LOUISIANA 70801

COLE'S BAYOU
MARKS RESTORATION
CONSTRUCTION SURVEY
TRANSPORT COORDINATES

STATE PROJECT NUMBER: TV-43
FEDERAL PROJECT NUMBER: NA-61

APPROVED BY: S. HAYNES, P.E.

DATE: SEPTEMBER 2015

SHEET: 26 OF 46
LEGEND

MARSH CREATION AREA
EARTHEN CONTAINMENT DIKE
EARTHEN CONTAINMENT DIKE BORROW AREA
EXISTING GROUND

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

COLE'S BAYOU
MARSH RESTORATION
AREA 2 SECTIONS

STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TV-63

APPROVED BY: S. BAYNIS, P.E.
DATE: SEPTEMBER 2015

SHEET 33 OF 46

K. CANTU
S. HAYNES, P.E.
A. TAYLOR, E.I.

HORIZONTAL GRAPHIC SCALE

200' 100' 0 200' 400'

VERTICAL GRAPHIC SCALE

20' 10' 0 20' 40'
LEGEND
- Marsh Creation Area
- Earthen Containment Dike
- Earthen Containment Dike Borrow Area
- Existing Ground

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 Laurel Street
Baton Rouge, Louisiana 70801

COLE'S BAYOU
Marsh Restoration

State Project Number: TV-63
Federal Project Number: TV-63
Date: September 2015

Drawn By: K. Cantu
Designed By: A. Taylor, P.E.
Approved By: S. Haynes, P.E.

Sheet 36 of 45
LEGEND

- EQUIPMENT ACCESS CORRIDOR DREDGING
- EXISTING WATER BOTTOM

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

COLE'S BAYOU
MARSH RESTORATION
EQUIPMENT ACCESS SECTIONS

STATE PROJECT NUMBER: TV-63
FEDERAL PROJECT NUMBER: TV-63
DATE: SEPTEMBER 2015

DRAWN BY: K. CANTU
DESIGNED BY: A. TAYLOR, E.I.
APPROVED BY: S. HAYNES, P.E.

SHEET 43 OF 46