

JOINT PUBLIC NOTICE

MAR 3 1 2014

United States Army
Corps of Engineers
New Orleans District
Attn: Regulatory Branch
Post Office Box 60267
New Orleans, Louisiana 70160-0267

State of Louisiana
Department of Environmental Quality
Attn: Water Quality Certification Sec.
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

Project Manager: Sara Fortuna
(504) 862-1025/ fax: (504) 862-2574
Sara.b.fortuna@usace.army.mil
Permit Application Number:
MVN-2014-00678 WKK

Project Manager:
Elizabeth Johnson
(225) 219-3225 / fax: (225) 219-3156
WQC Application Number:
WQC-140325-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

SHORELINE PROTECTION IN VERMILION PARISH

NAME OF APPLICANT: Vermilion Corporation, c/o Leonard Chauvin P.E., P.L.S., Inc., 627 Jackson Street, Thibodaux, Louisiana 70301.

LOCATION OF WORK: In Vermilion Parish, along Freshwater Bayou Canal, Belle Isle Bayou, Deep Lake, and McIlhenny Canal, located approximately 8.0 miles southwest of Intracoastal City, Louisiana, as shown on the attached vicinity map. (Hydrologic Unit Code 08080202, Mermentau Basin)

CHARACTER OF WORK: Along Freshwater Bayou Canal, at Site 1, conduct dredging operations within a 55-foot wide by 430-foot long area and place 2,600 cubic yards of dredged channel bottom material to repair 500 feet of spoil bank. At Site 2, conduct dredging operations within a 65-foot wide by 245-foot long area and place 1,750 cubic yards of dredged bottom material to repair 260 feet of spoil bank. In an unnamed canal, adjacent to Freshwater Bayou Canal, at Site 3, conduct dredging operations within a 36-foot wide by 61-foot long area and place 300 cubic yards of dredged channel bottom material to construct a 43-foot wide by 77-foot long earthen plug. Along the McIlhenny Canal, at Site 4, remove an existing water control structure and conduct dredging operations within a 31-foot wide by 55-foot long area and place 60 cubic yards of dredged channel bottom material and 50 cubic yards of rip rap to construct a 40-foot wide by 57-foot long water control structure. Along Belle Isle Bayou, at Site 5, conduct dredging operations within a 25-foot wide by 68-foot long area and approximately 40-foot wide by 73-foot long area and place 600 cubic yards of dredged channel bottom material to construct a 55-foot wide by 72-foot long earthen plug. In an unnamed canal, at Site 6, is to abandon an existing water control structure in place and at Site 7, conduct dredging operations within an area and place 100 cubic yards of dredged channel bottom material and 90 cubic yards of rip

rap, all to construct two 60-foot long water control structures. Adjacent to Deep Lake, at Site 8, conduct dredging operations within a 26-foot wide by 71-foot long area and place 400 cubic yards of dredged channel bottom material and 130 cubic yards of rip rap to construct two 100-foot long water control structures. There are 0.10 of an acre of jurisdictional wetlands and 2.17 acres of waterbottoms that will be impacted via project implementation. Approximately 0.89 of an acre of wetland would be created.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be submitted so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing, faxing, or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental

Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction or alteration of 2.17 acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

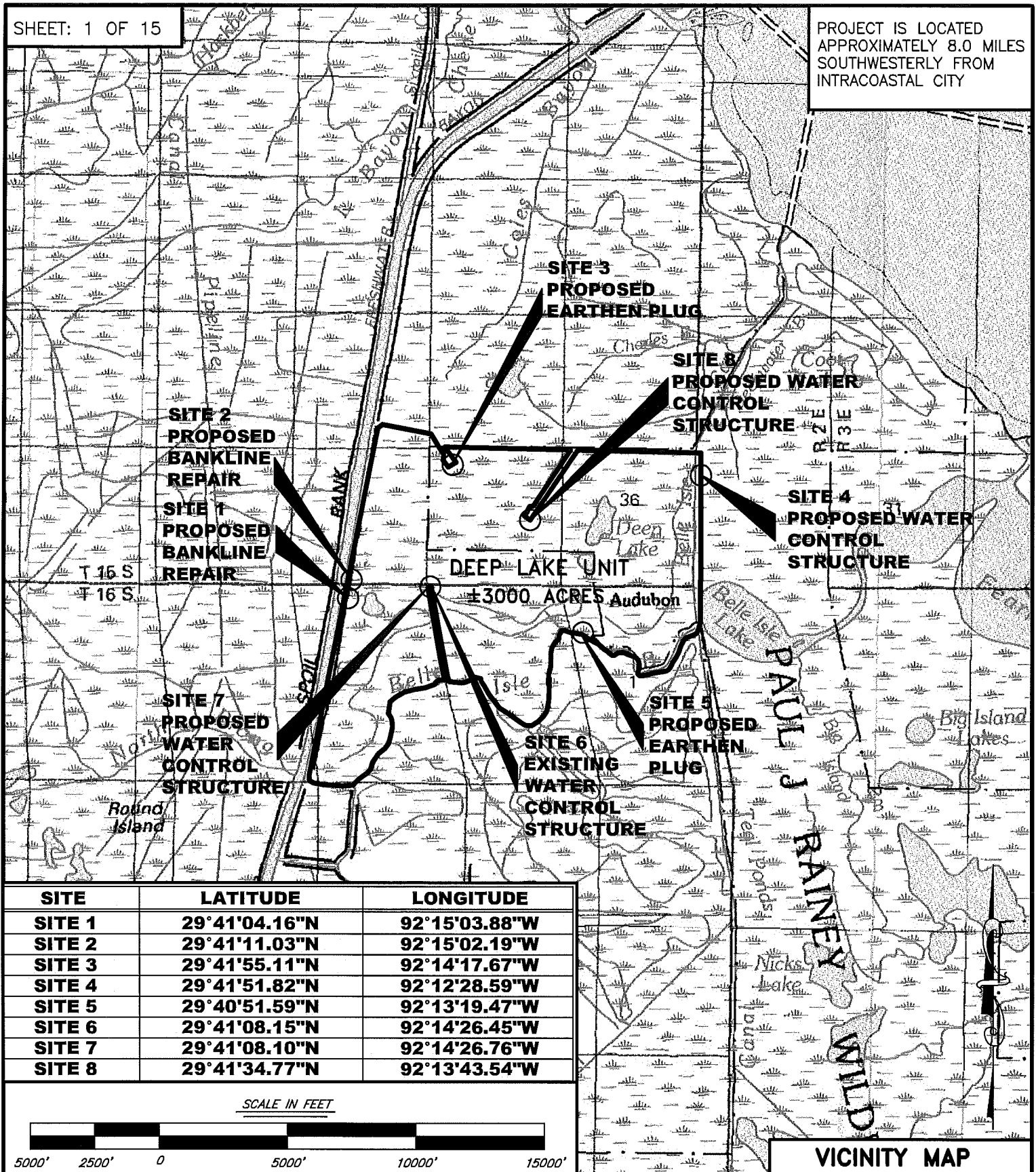
You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

Darrell S. Barbara
Chief, Western Evaluation Section
Regulatory Branch

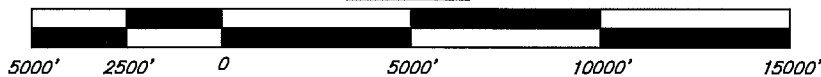
Enclosure

PROJECT IS LOCATED
APPROXIMATELY 8.0 MILES
SOUTHWESTERLY FROM
INTRACOASTAL CITY



SITE	LATITUDE	LONGITUDE
SITE 1	29°41'04.16"N	92°15'03.88"W
SITE 2	29°41'11.03"N	92°15'02.19"W
SITE 3	29°41'55.11"N	92°14'17.67"W
SITE 4	29°41'51.82"N	92°12'28.59"W
SITE 5	29°40'51.59"N	92°13'19.47"W
SITE 6	29°41'08.15"N	92°14'26.45"W
SITE 7	29°41'08.10"N	92°14'26.76"W
SITE 8	29°41'34.77"N	92°13'43.54"W

SCALE IN FEET



VICINITY MAP

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

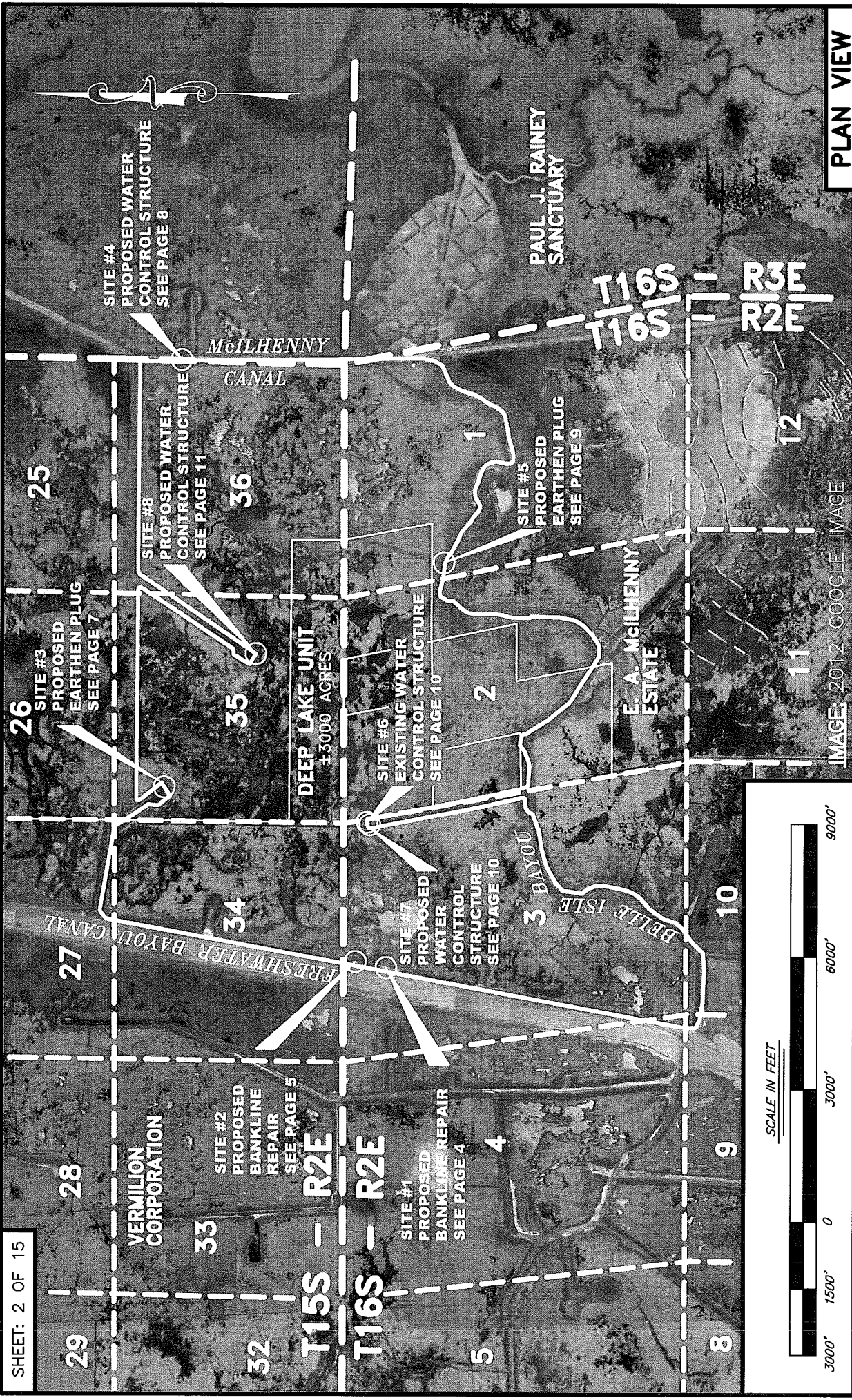
PERMIT PLAT

PROPOSED DEEP LAKE UNIT MARSH RESTORATION
LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
& SEC 34, 35, 36, T15S-R2E
VERMILION PARISH, LOUISIANA

APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

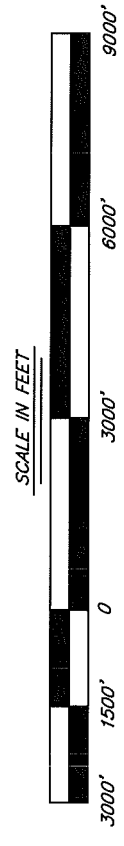


LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON ST. THIBODAUX, LA.



PLAN VIEW

IMAGE: 2012 GOOGLE IMAGE



PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

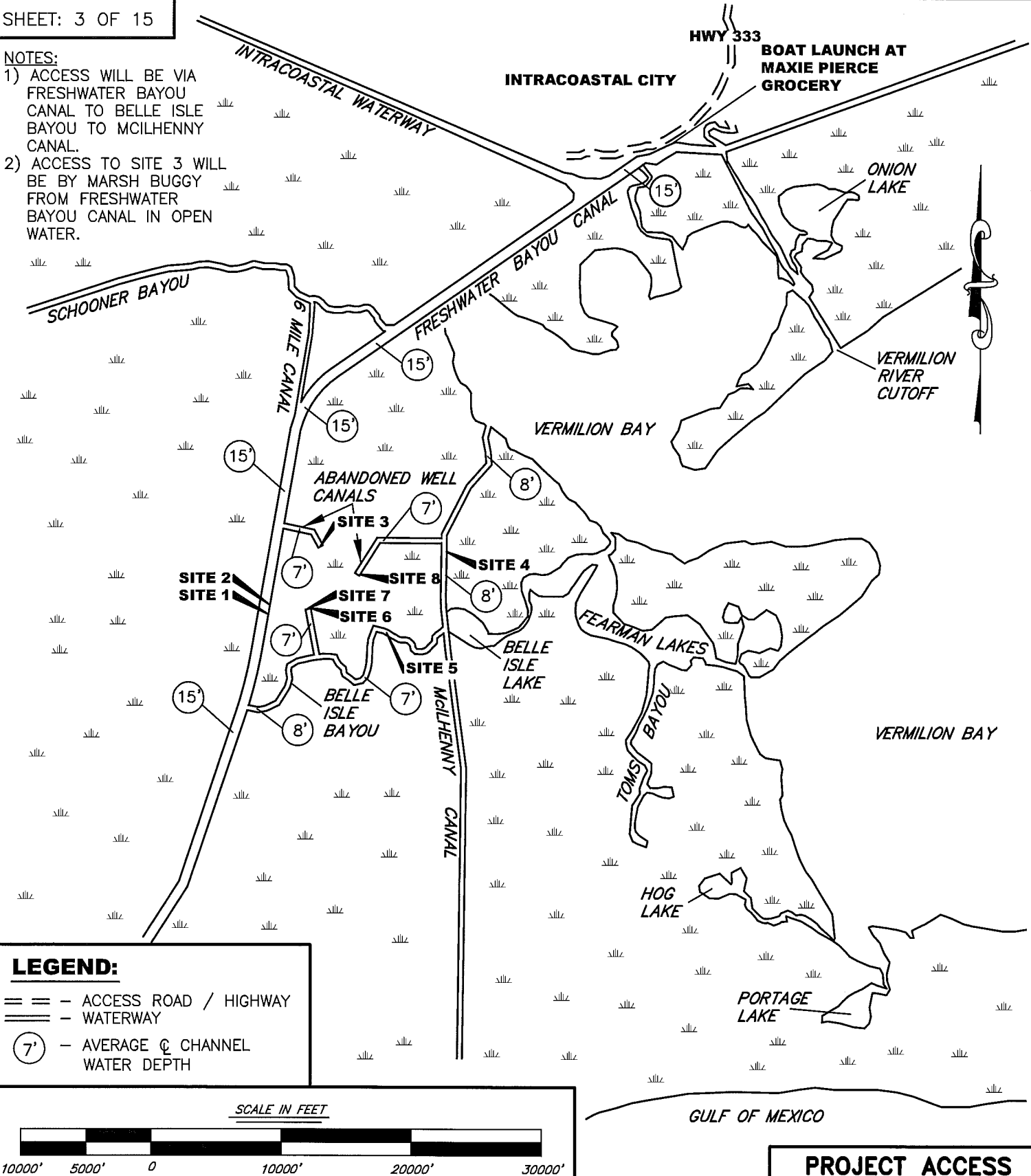
PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION
LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
& SEC 34, 35, 36, T15S-R2E
VERMILION PARISH, LOUISIANA

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON ST. THIBODAUX, LA.

APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

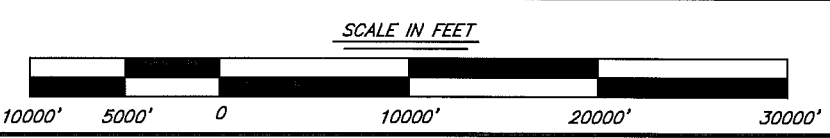
NOTES:

- 1) ACCESS WILL BE VIA FRESHWATER BAYOU CANAL TO BELLE ISLE BAYOU TO MCILHENNY CANAL.
- 2) ACCESS TO SITE 3 WILL BE BY MARSH BUGGY FROM FRESHWATER BAYOU CANAL IN OPEN WATER.



LEGEND:

- == - ACCESS ROAD / HIGHWAY
- ==== - WATERWAY
- (7') - AVERAGE \bar{C} CHANNEL WATER DEPTH



PROJECT ACCESS

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

LEONARD CHAUVIN P.E., P.L.S., INC.
 CIVIL ENGINEER - LAND SURVEYOR
 627 JACKSON ST. THIBODAUX, LA.

PERMIT PLAT
 PROPOSED DEEP LAKE UNIT MARSH RESTORATION
 LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
 & SEC 34, 35, 36, T15S-R2E
 VERMILION PARISH, LOUISIANA

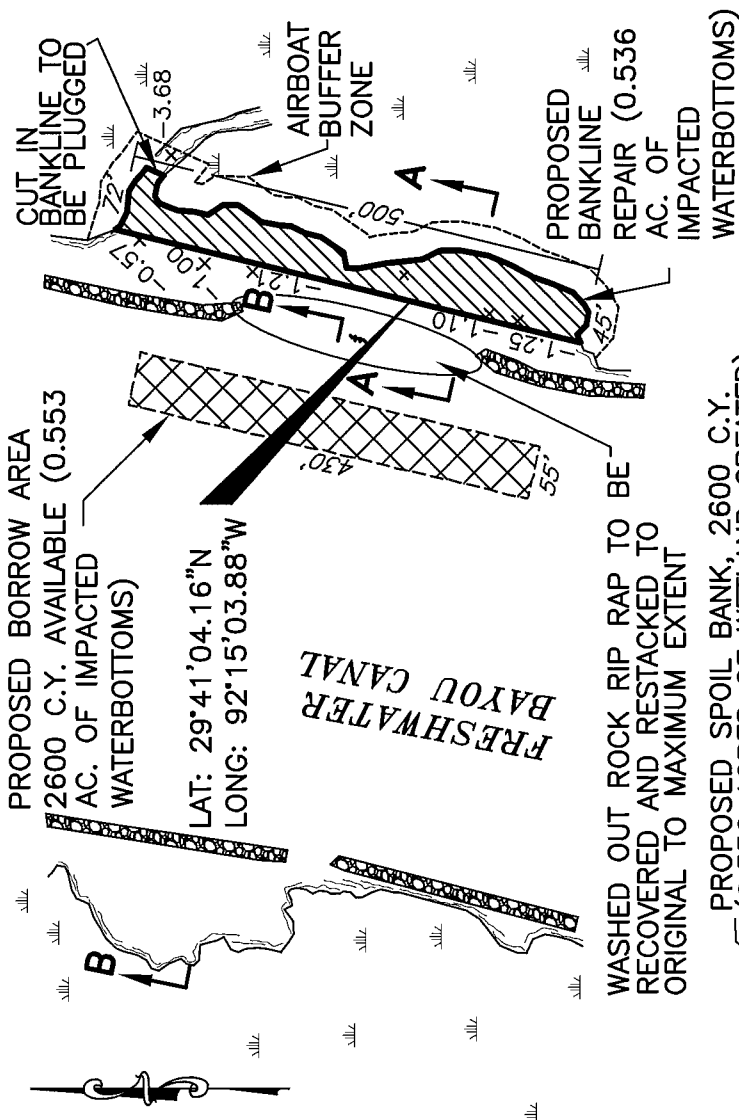
APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

NOTE:

THE PROPOSED BANKLINE REPAIR WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR OR BARGE MOUNTED DRAG LINE. 2600 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED IN OPEN WATER TO CREATE WETLANDS.

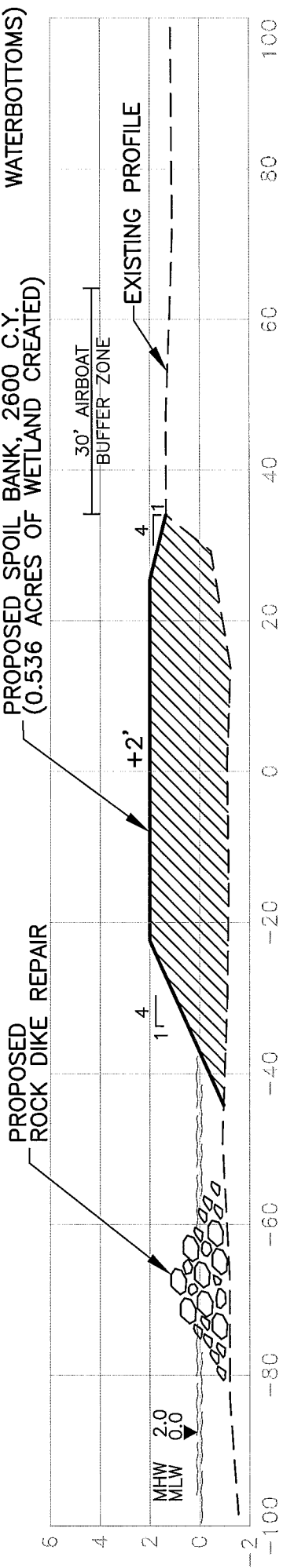
LEGEND:

-  PROPOSED SPOIL PLACEMENT
-  PROPOSED BORROW AREA
-  EXISTING ROCK DIKE



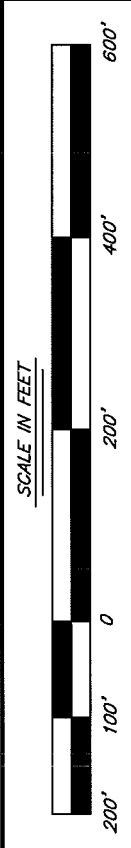
WASHED OUT ROCK RIP RAP TO BE RECOVERED AND RESTACKED TO ORIGINAL TO MAXIMUM EXTENT

PROPOSED SPOIL BANK, 2600 C.Y. (0.536 ACRES OF WETLAND CREATED)



SECTION A-A

SCALE: HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 6'



SITE #1

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION
 LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
 & SEC 34, 35, 36, T15S-R2E
 VERMILION PARISH, LOUISIANA


LEONARD CHAUVIN P.E., P.L.S., INC.
 CIVIL ENGINEER - LAND SURVEYOR
 627 JACKSON ST. THIBODAUX, LA.

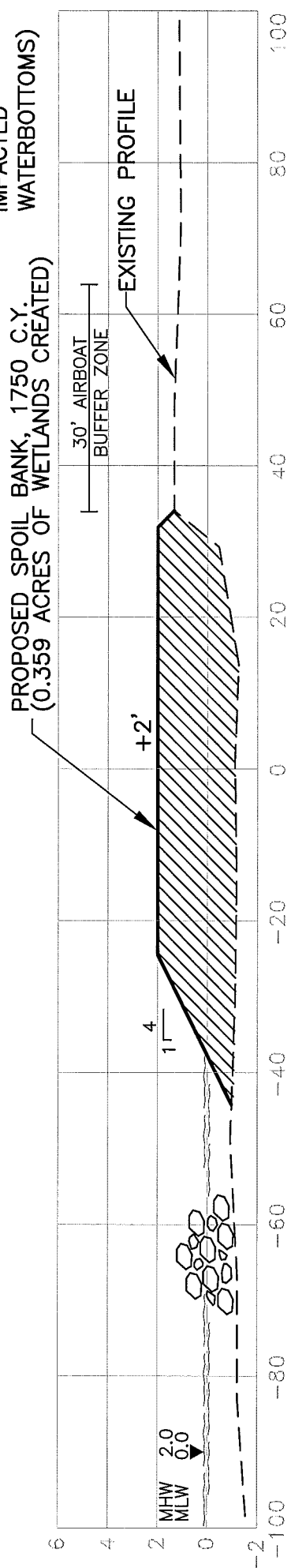
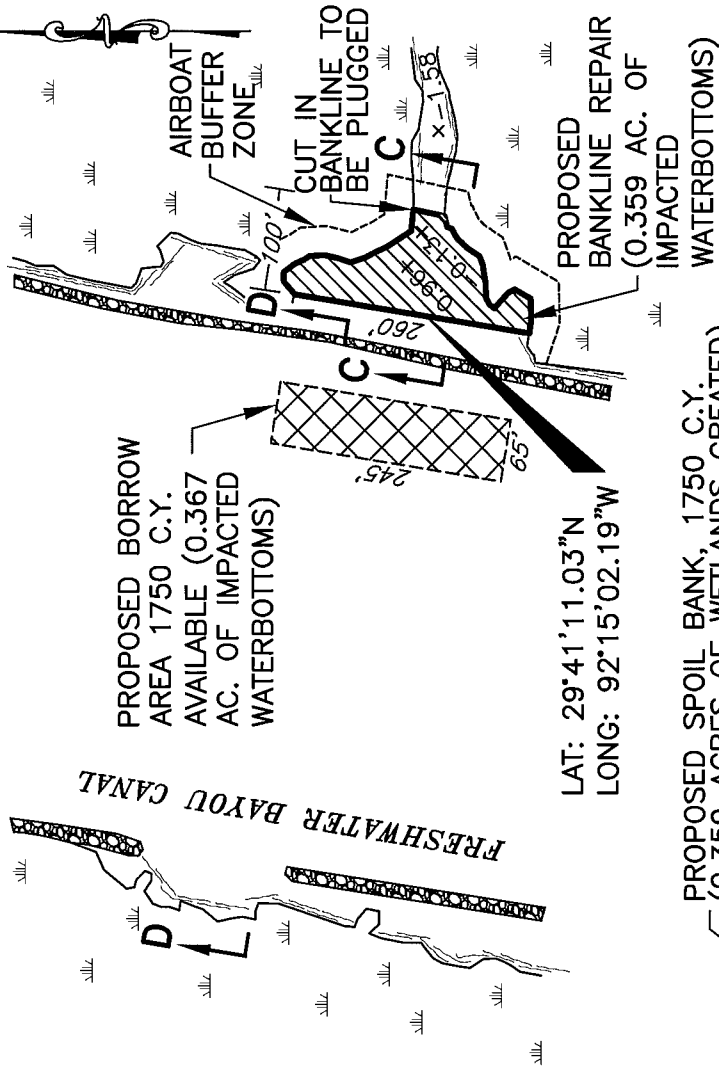
APPLICATION BY: VERMILION CORPORATION
 DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

NOTE:

THE PROPOSED BANKLINE REPAIR WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR OR BARGE MOUNTED DRAG LINE. 1750 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED IN OPEN WATER TO CREATE WETLANDS.

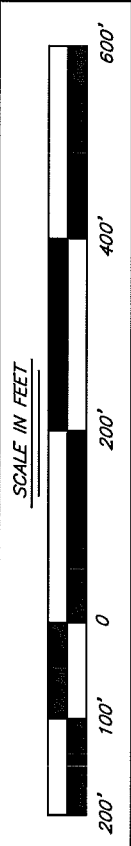
LEGEND:

-  PROPOSED SPOIL PLACEMENT
-  PROPOSED BORROW AREA
-  EXISTING ROCK DIKE



SECTION C-C

SCALE: HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 6'



SITE #2

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON ST. THIBODAUX, LA.

PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION
LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
& SEC 34, 35, 36, T15S-R2E
VERMILION PARISH, LOUISIANA

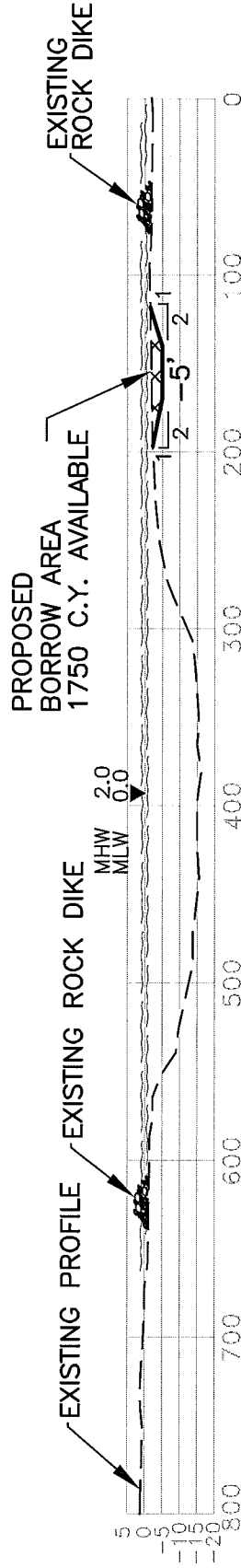
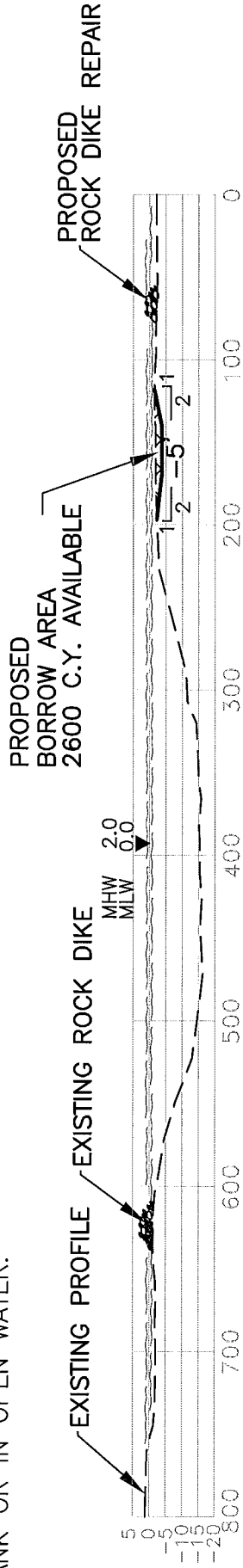
APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

NOTE:

THE PROPOSED BANKLINE REPAIR WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR OR BARGE MOUNTED DRAG LINE. EXCAVATED MATERIAL FROM PROPOSED BORROW AREAS WILL BE PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.


LEGEND:

-  PROPOSED BORROW AREA
-  EXISTING ROCK DIKE



CROSS SECTION SITE #1 AND #2

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY


LEONARD CHAUVIN P.E., P.L.S., INC.
 CIVIL ENGINEER - LAND SURVEYOR
 627 JACKSON ST. THIBODAUX, LA.

PERMIT PLAT
 PROPOSED DEEP LAKE UNIT MARSH RESTORATION
 LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
 & SEC 34, 35, 36, T15S-R2E
 VERMILION PARISH, LOUISIANA

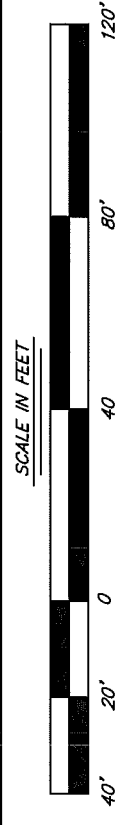
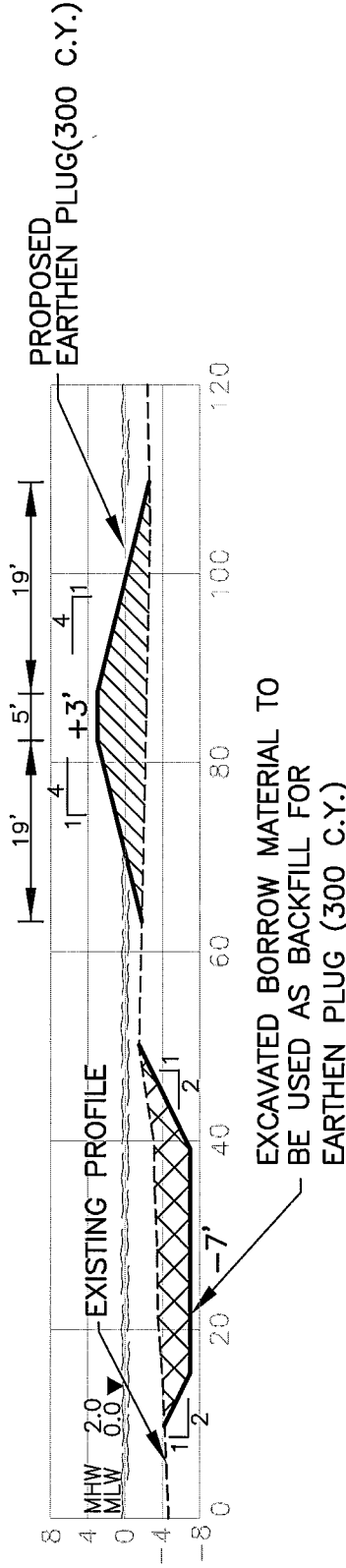
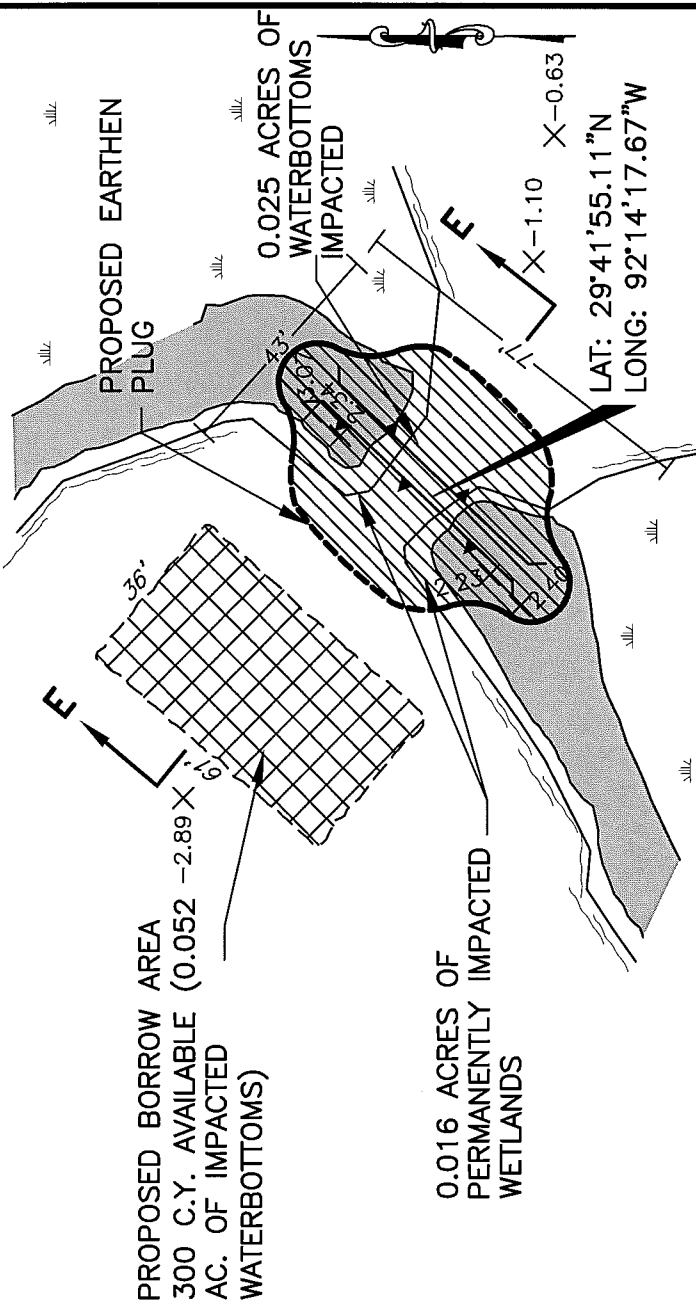
APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; **REVISED:** FEBRUARY 25, 2014

NOTE:

THE PROPOSED EARTHEN PLUG WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR (MARSH BUGGY). 300 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

LEGEND:

-  EXISTING NON-WETLAND SPOIL AREA
-  PROPOSED BORROW AREA
-  PROPOSED SPOIL PLACEMENT



SITE #3

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION
 LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E & SEC 34, 35, 36, T15S-R2E
 VERMILION PARISH, LOUISIANA

LEONARD CHAUVIN P.E., P.L.S., INC.
 CIVIL ENGINEER - LAND SURVEYOR
 627 JACKSON ST. THIBODAUX, LA.

APPLICATION BY: VERMILION CORPORATION
 DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

NOTE:

THE EXCAVATION FOR THE PROPOSED WATER CONTROL STRUCTURE WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR. APPROXIMATELY 60 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

LEGEND:

EXISTING

NON-WETLAND SPOIL AREA

PROPOSED BORROW AREA

TEMPORARY STOCKPILE AREA
SEE TYPICAL SECTION, SHEET 12

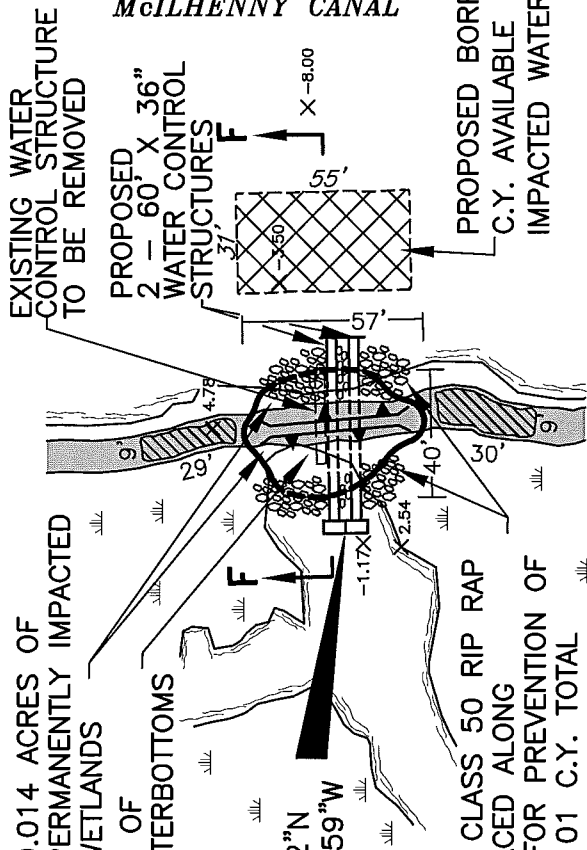
PROPOSED SPOIL REFURBISHMENT (0.037 ACRES)

0.014 ACRES OF PERMANENTLY IMPACTED WETLANDS

0.010 ACRES OF IMPACTED WATERBOTTOMS

LAT: 29°41'51.82"N
LONG: 92°12'28.59"W

PROPOSED CLASS 50 RIP RAP TO BE PLACED ALONG BANKLINE FOR PREVENTION OF EROSION. 101 C.Y. TOTAL

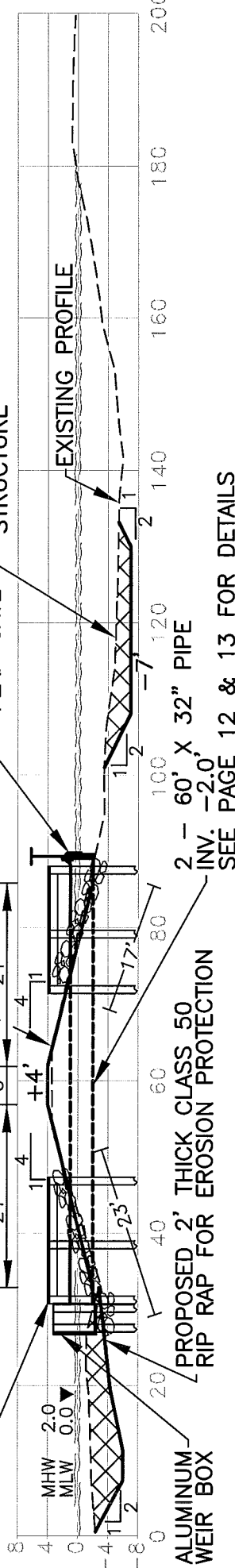


TREATED TIMBER DECKING
SEE SHEET 12 & 13 FOR DETAILS.

PROPOSED SPOIL REFURBISHMENT
60 C.Y.

ALUMINUM RISING STEM FLAP GATE

EXCAVATED BORROW MATERIAL TO BE USED AS BACKFILL ON WATER CONTROL STRUCTURE



SEE PAGE 12 & 13 FOR DETAILS

SCALE IN FEET



SECTION F-F

SCALE: 1" = 20'

SITE #4

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY



LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON ST. THIBODAUX, LA.

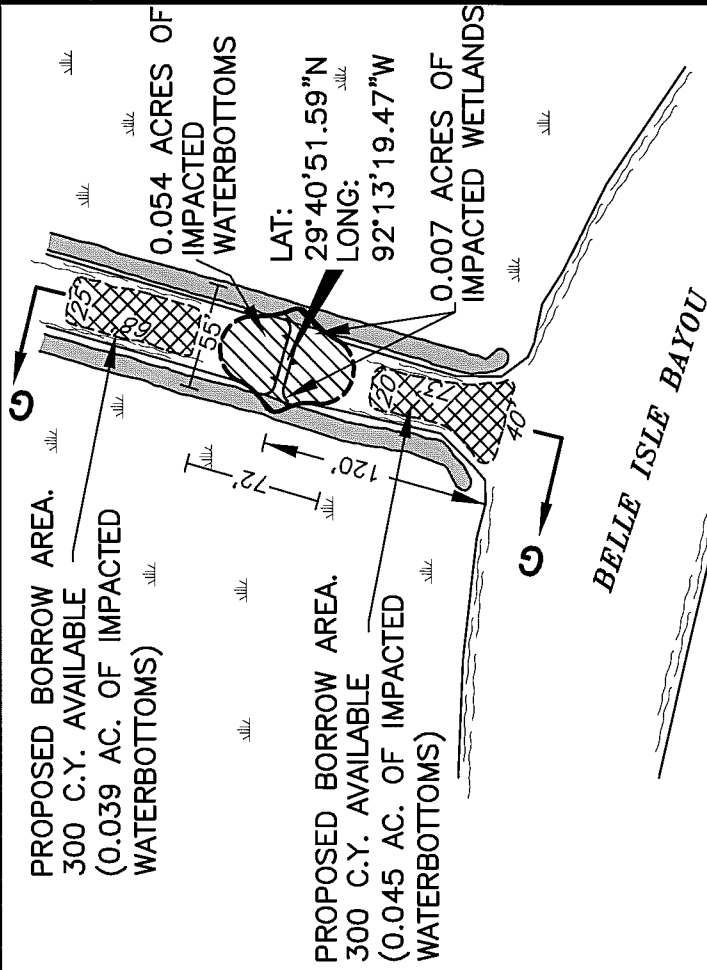
PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION
LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E
& SEC 34, 35, 36, T15S-R2E
VERMILION PARISH, LOUISIANA

APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

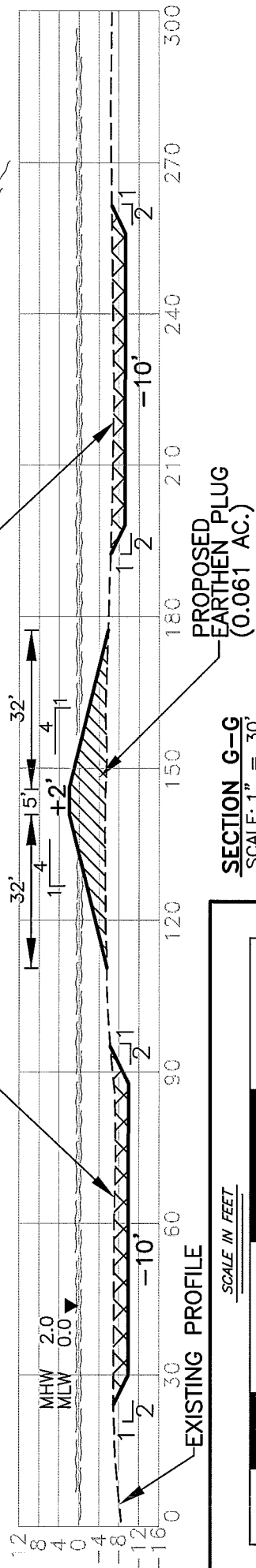
NOTE:
 THE PROPOSED EARTHEN PLUG WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR OR BARGE MOUNTED DRAG LINE. 600 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

LEGEND:

-  EXISTING NON-WETLAND SPOIL AREA
-  PROPOSED BORROW AREA
-  PROPOSED SPOIL PLACEMENT



EXCAVATED BORROW MATERIAL TO BE USED AS BACKFILL FOR EARTHEN PLUG




SECTION G-G
 SCALE: 1" = 30'

SITE #5

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

PERMIT PLAT
 PROPOSED DEEP LAKE UNIT MARSH RESTORATION LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E & SEC 34, 35, 36, T15S-R2E VERMILION PARISH, LOUISIANA






LEONARD CHAUVIN P.E., P.L.S., INC.
 CIVIL ENGINEER - LAND SURVEYOR
 627 JACKSON ST. THIBODAUX, LA.

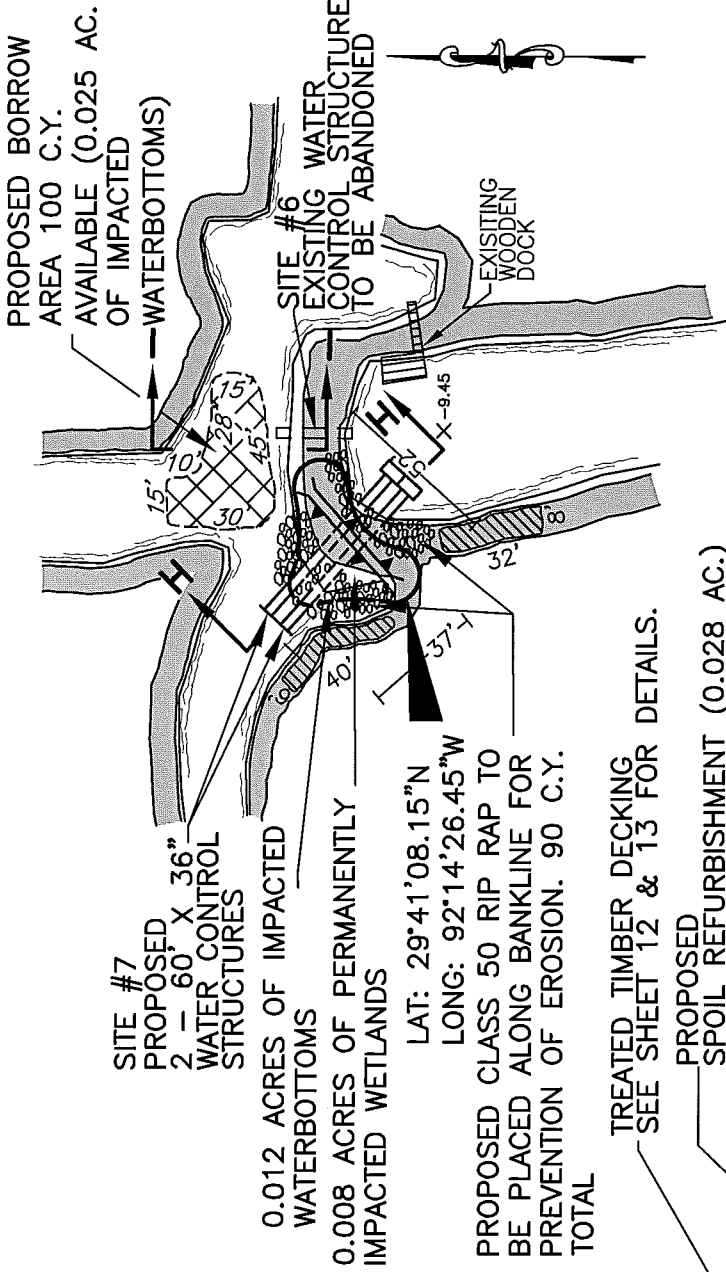
APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

NOTE:

THE EXCAVATION FOR THE PROPOSED WATER CONTROL STRUCTURE WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR. APPROXIMATELY 100 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

LEGEND:

-  EXISTING NON-WETLAND SPOIL AREA
-  PROPOSED BORROW AREA
-  TEMPORARY STOCKPILE AREA SEE TYPICAL SECTION, SHEET 12
-  PROPOSED SPOIL REFURBISHMENT (0.028 AC.)

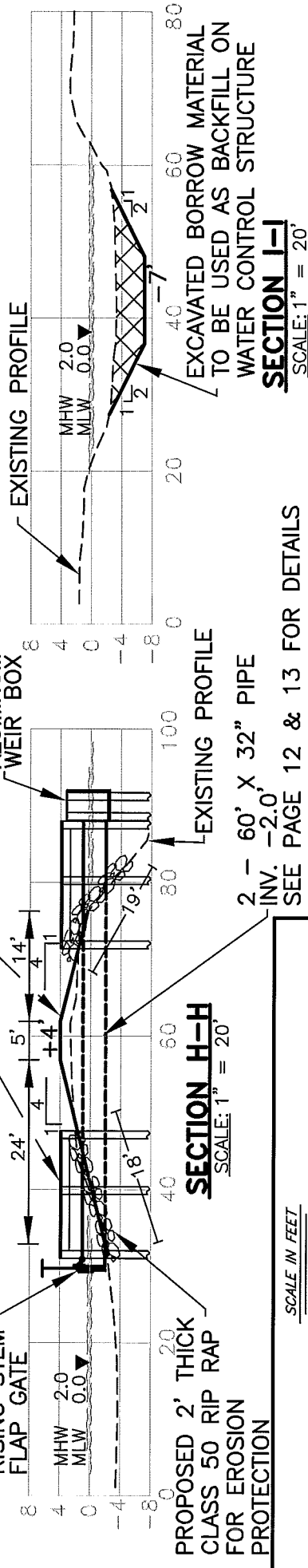


LAT: 29°41'08.15"N
LONG: 92°14'26.45"W

PROPOSED CLASS 50 RIP RAP TO BE PLACED ALONG BANKLINE FOR PREVENTION OF EROSION. 90 C.Y. TOTAL

TREATED TIMBER DECKING SEE SHEET 12 & 13 FOR DETAILS.

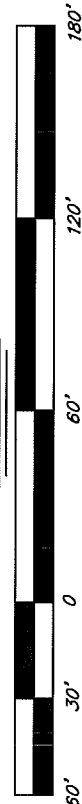
PROPOSED SPOIL REFURBISHMENT (0.028 AC.) ALUMINUM WEIR BOX



SECTION H-H
SCALE: 1" = 20'

SECTION I-I
SCALE: 1" = 20'

SCALE IN FEET



SITE #6 & #7

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

PERMIT PLAT
PROPOSED DEEP LAKE UNIT MARSH RESTORATION LOCATED IN SEC 1, 2, 3, 9, 10, T16S-R2E & SEC 34, 35, 36, T15S-R2E VERMILION PARISH, LOUISIANA

APPLICATION BY: VERMILION CORPORATION
DATE: FEBRUARY 5, 2014; REVISED: FEBRUARY 25, 2014

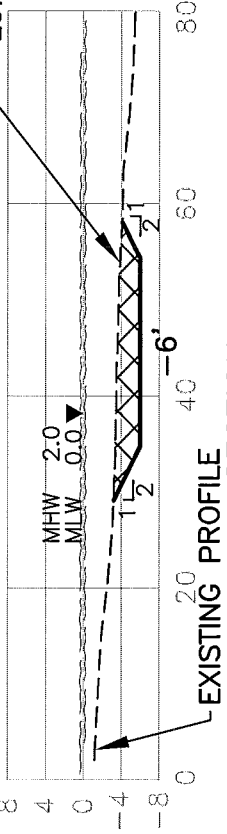


LEONARD CHAUVIN P.E., P.L.S., INC.
CIVIL ENGINEER - LAND SURVEYOR
627 JACKSON ST. THIBODAUX, LA.

NOTE:

THE EXCAVATION FOR THE PROPOSED WATER CONTROL STRUCTURE WILL BE CONSTRUCTED USING AMPHIBIOUS EXCAVATOR. APPROXIMATELY 400 C.Y. OF MATERIAL WILL BE EXCAVATED FROM PROPOSED BORROW AREA AND PLACED AS SHOWN. EXCAVATED MATERIAL WILL BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

EXCAVATED BORROW MATERIAL TO BE USED AS BACKFILL ON WATER CONTROL STRUCTURE



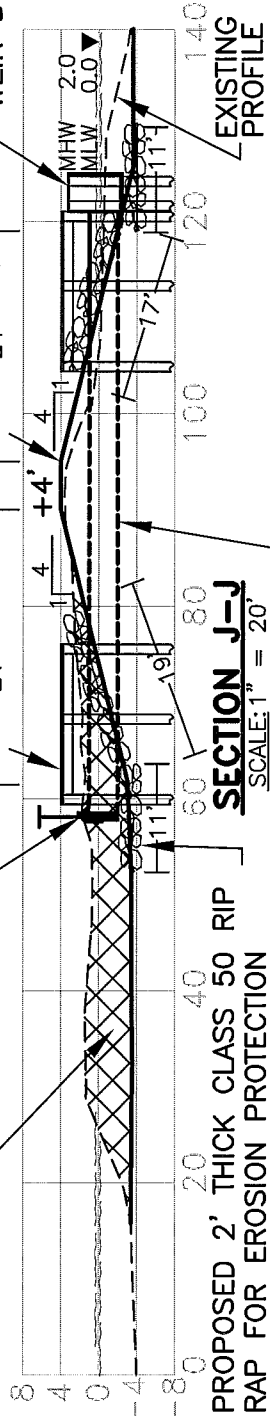
SECTION K-K

SCALE: 1" = 20'

REQUIRED CLEAN OUT 150 C.Y.

TREATED TIMBER DECKING SEE SHEET 12 & 13 FOR DETAILS. PROPOSED SPOIL REBURFISHMENT

ALUMINUM RISING STEM FLAP GATE



SECTION J-J

SCALE: 1" = 20'

PROPOSED 2' THICK CLASS 50 RIP FOR EROSION PROTECTION

SCALE IN FEET



PROPOSED BORROW AREA
250 C.Y. AVAILABLE (0.045 AC. OF IMPACTED WATERBOTTOMS)

X-1.93
X-3.63
X-0.79

0.014 AC. OF IMPACTED WATERBOTTOMS

PROPOSED CLASS 50 RIP RAP TO BE PLACED ALONG BANKLINE FOR PREVENTION OF EROSION. 130 C.Y. TOTAL

0.036 AC. OF PERMANENTLY IMPACTED WETLANDS
2 - 100' X 36" WATER CONTROL STRUCTURES

REQUIRED CLEAN OUT, 150 C.Y. (0.022 AC. OF PERMANENTLY IMPACTED WETLANDS)

LEGEND:

- EXISTING NON-WETLAND SPOIL AREA
- PROPOSED BORROW AREA
- TEMPORARY STOCKPILE AREA SEE TYPICAL SECTION, SHEET 12

PROPOSED SPOIL REBURFISHMENT (0.077 AC.)

SITE #8

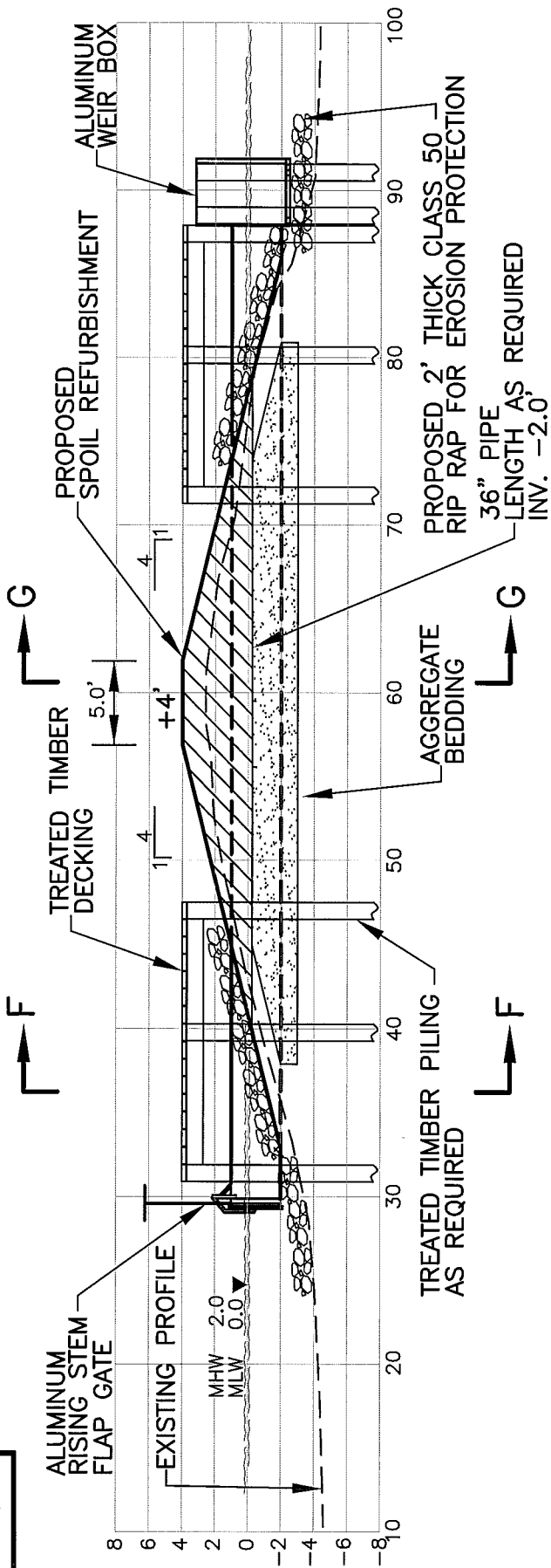
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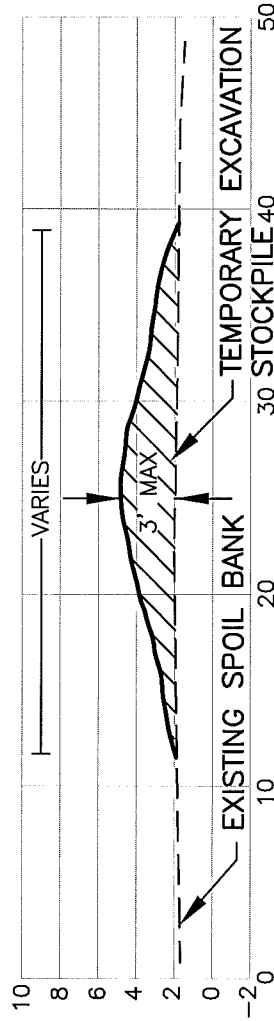
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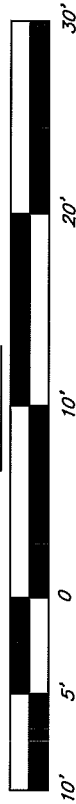
TYPICAL WATER CONTROL STRUCTURE



TYPICAL TEMPORARY EXCAVATION STOCKPILE

NOTE:
ALL EXCAVATED MATERIAL IS TO BE PLACED ON EXISTING SPOIL BANK OR IN OPEN WATER.

SCALE IN FEET



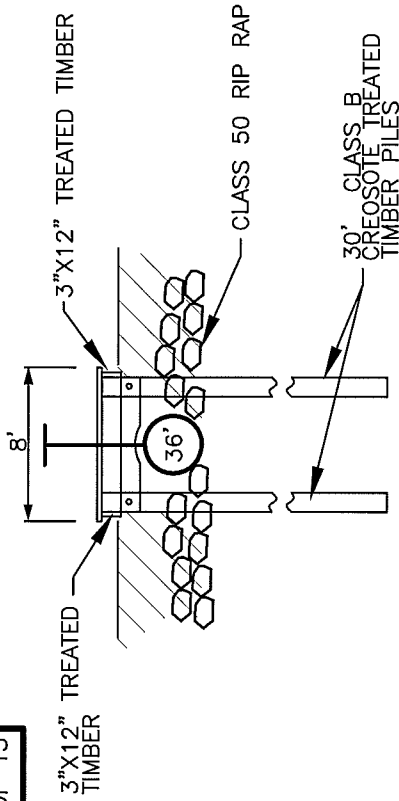
TYPICAL SECTIONS

PURPOSE: REPAIR BANKLINE AND INSTALL DRAINAGE STRUCTURES FOR MAINTENANCE AND PRESERVATION OF PROPERTY

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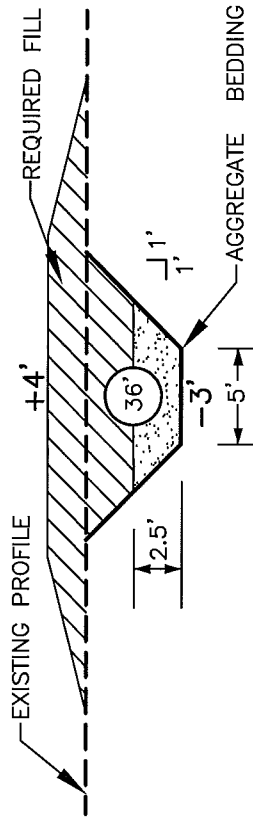
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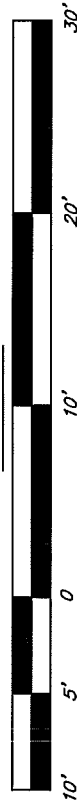
TYPICAL SINGLE PIPE SECTION L-L

AS REQUIRED



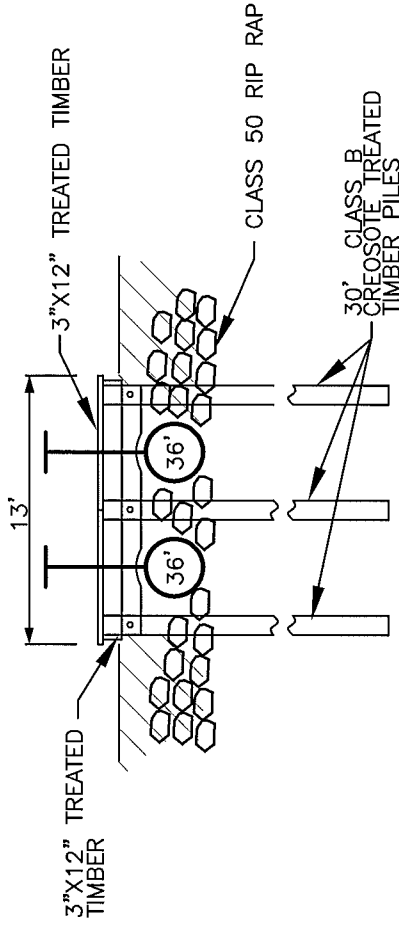
TYPICAL SINGLE PIPE SECTION M-M

SCALE IN FEET



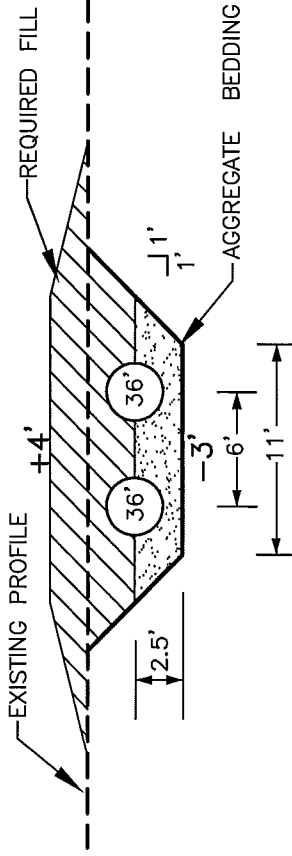
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TYPICAL DOUBLE PIPE SECTION L-L

AS REQUIRED



TYPICAL DOUBLE PIPE SECTION M-M

TYPICAL SECTIONS

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GENERAL NOTES:

1. ALL ELEVATIONS INDICATED ARE N.G.V.D. 88
2. PIPE TO BE CORRUGATED ALUMINUM OR P.V.C.
3. EXCAVATION WILL BE MADE WITH EITHER BARGE MOUNTED DRAG LINE OR LONG ARM HYDRAULIC MARSH BUGGY EXCAVATOR. AFTER PLACEMENT OF FILL MATERIAL, SHAPING AS PER TYPICAL SECTIONS WILL BE PERFORMED.
4. ANY WETLANDS USED AS A TEMPORARY STOCKPILE AREA MUST BE REGRADED BACK TO ORIGINAL MARSH ELEVATIONS
ONCE ALL EXCAVATED MATERIAL IS REMOVED.
5. EXCAVATORS WILL NOT BE ALLOWED TO TRACK ACROSS MARSH.
6. EXCAVATION IS LIMITED TO OPEN WATER AREA. THERE WILL BE NO EXCAVATION OF MARSH.
7. PIPELINE AND UTILITIES MAY EXIST THAT ARE NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.
8. ALL FULLY LOADED VESSELS WILL PRODUCE A 6' DRAFT.


QUANTITIES:

SITE	BORROW MATERIAL (C.Y.)	REQUIRED RIP RAP (C.Y.)	REQUIRED LIMESTONE BEDDING (C.Y.)	REQUIRED PIPE LENGTH (L.F.)	WATERBOTTOM IMPACT (AC)	TEMPORARY WETLAND IMPACT (AC)	PERMANENT WETLAND IMPACT (AC)	CREATED WETLANDS (AC)
SITE #1	2600	0	0	0	1.089	0	0	0.536
SITE #2	1750	0	0	0	0.726	0	0	0.359
SITE #3	300	0	0	0	0.077	0	0.016	0
SITE #4	60	101	40	120	0.049	0	0.014	0
SITE #5	600	0	0	0	0.138	0	0.007	0
SITE #6	0	0	0	0	0	0	0	0
SITE #7	100	90	40	120	0.037	0	0.008	0
SITE #8	400	130	72	120	0.059	0	0.058	0
TOTAL	5810 C.Y.	321 C.Y.	152 C.Y.	360 L.F.	2.175 ACRES	0 ACRES	0.103 ACRES	0.895 ACRES

GENERAL NOTES AND QUANTITIES

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