West Fork Bayou L’Ours Watershed Project BA-2, Construction Unit 2

Built Under The Coastal Wetlands, Planning, Protection & Restoration Act
Public Law 101-646

By
Lafourche Parish Council
Lafourche - Terrebonne Soil & Water Conservation District
Louisiana Department Of Natural Resources
With The Assistance Of
NATURAL RESOURCES CONSERVATION SERVICE
OF THE
U. S. DEPARTMENT OF AGRICULTURE
1998

LEGEND

INDEX TO DRAWINGS

LOCATION MAP

APPROXIMATE SCALE IN MILES

"AS-BUILT PLANS"

SUBMITTED BY
PFCAT & ASSOCIATES

APPROVED BY
PFCAT & ASSOCIATES

PFCAT & ASSOCIATES

11/30/99

11/30/99
SITE 14A - LONGITUDINAL SECTION

NOTE:

1. SEE SHEETS 23, 24 & 25 FOR SIGN AND SIGN SUPPORT DETAILS.

2. TYPE IV SIGN SUPPORTS TO BE PLACED ALONG THE CENTER LINE, AT THE STATIONS INDICATED IN THE PROFILE.

3. SCOUR AREA SHALL BE EXCAVATED ONLY WITHIN THE LIMITS OF THE BOAT RANCE. THE INLET AND OUTLET AREAS SHALL BE TAPERED UP TO NORMAL GROUND WITH 1.5 FT. MIN. OF ROCK RIPRAP (100MM).

4. TRANSITION FROM 14' CREST WIDTH TO 4' CREST WIDTH AT ONE FOOT LONGITUDINAL TO ONE FOOT NORMAL ALONG LONGITUDINAL AXES.

SITE 14A - PLAN

TYPICAL ACCESS CHANNEL EXCAVATION

NOTE:

Exclusion For Floation

NOT TO SCALE
1. Steel sheet pile shall conform to ASTM Specification A922 or A50.
2. All channels, angles, and plate shall conform to ASTM A522 or A52.
3. Channel and channel dimensions are typical and are subject to change based on manufacturer’s specifications.
4. Sheet piles will be driven in the "normal configuration" as shown.

<table>
<thead>
<tr>
<th>SHEET PILE</th>
<th>MINIMUM</th>
<th>SHEET PILE</th>
<th>FILL LENGTH</th>
<th>LINEAR FEET</th>
<th>SUBTOTALS</th>
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As-Built DRAWINGS  la271010.dgn  07/02/02 03:25:31 PM

NOTE:
This Connection Variies Respect On The Location Of The Channel Cap With Respect To The Pile And Cannot Be Designed Until The Pile Is In Place and The Location Of The Opening Has Been Identified. The Contractor Shall Submit A Method Of Connecting The Channel Cap To The Pile And All Drawings For Approval Prior To Construction. The Contractor may Request The Technical Design Staff When Developing This Connection.

NOTE:
Connection Of Channel Cap To Sheet Pile at Bottom Of Variable Crest. Anchor For Wall No. 30 Shall Be Drilled As Followed: The Holes In The Sheet Pile Shall Be Field Drilled. Each Hole Shall Be 6 X 4 X 5/16" (Clip 1)

TYPICAL CHANNEL CAP TO SHEET PILE CONNECTION

NOTE:
1. Steel Sheet Pile shall conform to ASTM Specification A572, or 50
2. All sheet and channel dimensions are typical and are subject to change based on manufacturer/supplier.
3. Minimum web and flange thickness of sheet piles shall be 0.25".
4. Sheet piles will be driven in the "normal configuration" as shown.

Steel Channel 4 Clip
Minimum Channel Width is 10 inches

Steel Sheet Pile

TYPICAL CHANNEL CAP TO SHEET PILE CONNECTION

SECTION " K1-K1/10"

3/4" x 2-1/4" Bolt With Washers A 325-type 3.

Steel Channel Cap

7/8" x 3" Slot

4" X 3-1/2"

SHAFT-17" (A 572 Gr. 50 STEEL)

L 6 X 4 X 5/16" (Clip 1)

TYPICAL SHEET PILE DETAIL

NORMAL CONFIGURATION

TOP BANK

1st S/F

ROCK RIPRAP ZONE

111 S/F

111 S/F

111 S/F

1st S/F

TYPICAL PLAN VIEW OF WING WALL ROCKFILL

LIMITS OF GEDITEXILE

3/16"

ST LOADS IN METAL PIPELINE

TECHNICAL DESIGN

WINGWALL DETAILS

ELEV. 2.5-2.5 TOP OF EROA

ROCK RIPRAP ZONE

3/16"

LIMITS OF GEDITEXILE
CRANE BASE PLATE SUPPORT

PLAN VIEW

SECTION AS SHOWN

NOTES:

1. STEEL SHEET PILING SHALL BE NOTCHED FOR L6x4x1/4" LEG TO PASS THROUGH CONTINUOUS.
2. CRANE BASE PIPE AND CASSETTE SHEET PILING, L2x2x1/4" AND GRATING NOT SHOWN FOR CLARITY.
"AS-BUILT"

Stop Log

(8 Required)

12

"As-Built" drawings shall be signed and dated by the contractor and approved by the owner.

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STOP LOG

(2 REQUIRED)

STOP LOG HOOK

(2 REQUIRED)

STOP LOG

GUIDE

STOP LOG

LOCKING MECHANISM (2 REQUIRED)

ELEVATION

PLAN

Sheet Pile

C8x11.5

STOP LOG

C8x11.5

C10x15.3

STOP LOG

6x6 STOP LOG

6x6 STOP LOG

GALVANIZED STEEL LAG EYE

NOTICE TO RECEIVE LAG EYE

GALVANIZED STEEL LAG EYE

NOTICE TO RECEIVE LAG EYE

1/2" DIA. HOLE

1/2" PLATE

GALVANIZED STEEL LOCKING PIN

1/2" PLATE

1/2" EYE BOLT GALVANIZED STEEL C8x11.5

1/2" DIA. HOLE

1/2" PLATE

GALVANIZED STEEL C8x11.5

1/2" EYE BOLT

DETAILS OF 3/16" EYE BOLT

ISOMETRIC STOP LOGS & CRANE

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Hand which shall be rated at 1500 lbs minimum and shall be
stainless steel and include on eccentric brake, which shall
be adjustable according to manufacturer's recommendations. Hand
which shall have a lock-down device to prevent un-authorized
operation. Contractor shall provide shop drawings of the hand
which including all connections.

ขอขอบคุณที่ส่งข้อมูลมาให้ฉันไปอ่านและแปลเป็นภาษาอังกฤษได้ ได้แก่ เพื่อใช้ในการพูดกับผู้อื่นที่ต้องการให้เข้าใจในเรื่องราวเฉพาะ.

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NOTE: This connection varies based on the location of the
channel cap with respect to the pile and cannot be
designed until the pile is in place and the location
of the channel cap determined. The contractor shall
submit a method of connecting the channel cap
to the pile and all drawings for approval prior to
fabrication. The contractor may request the
assistance of the Federated Design Staff when
developing this connection.

CONNECTION OF CHANNEL CAP TO

STOP LOG AT BOTTOM OF VARIABLE

Chest wall for weir No. 35 shall

be made as follows: The

cheese wall shall be welded
to the bottom of the CHEST

Wall. After welding, the

holes in the sheet pile shall

be field drilled.
LAKE RIM RESTORATION

APPROX. STATIONS DESCRIPTION OF WORK

D+00 BEGIN LAKE RIM SHOULDING PIPELINE CAP
2200 TYPE B-111 SIGN
3220 END TRANSITION BEGIN TYPICAL
4980 CL FISH DIP x TYPE B-111 SIGN
5420 BEGIN 8" DRAIN & SETTLEMENT PLATE
6620 CL FISH DIP x TYPE B-111 SIGN
7700 CL FISH DIP x TYPE B-111 SIGN
8520 BEGIN 8" DRAIN & SETTLEMENT PLATE
9520 CL FISH DIP x TYPE B-111 SIGN
10400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
11400 TYPE B-111 SIGN & SETTLEMENT PLATE
12400 CL FISH DIP x TYPE B-111 SIGN
13400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
14400 TYPE B-111 SIGN & SETTLEMENT PLATE
16400 CL FISH DIP x TYPE B-111 SIGN
17400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
18400 TYPE B-111 SIGN & SETTLEMENT PLATE
19400 CL FISH DIP x TYPE B-111 SIGN
20400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
21400 TYPE B-111 SIGN & SETTLEMENT PLATE
22400 CL FISH DIP x TYPE B-111 SIGN
23400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
24400 TYPE B-111 SIGN & SETTLEMENT PLATE
25400 CL FISH DIP x TYPE B-111 SIGN
26400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
27400 TYPE B-111 SIGN & SETTLEMENT PLATE
28400 CL FISH DIP x TYPE B-111 SIGN
29400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
30400 TYPE B-111 SIGN & SETTLEMENT PLATE
31400 CL FISH DIP x TYPE B-111 SIGN
32400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
33400 TYPE B-111 SIGN & SETTLEMENT PLATE
34400 CL FISH DIP x TYPE B-111 SIGN
35400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
36400 TYPE B-111 SIGN & SETTLEMENT PLATE
37400 CL FISH DIP x TYPE B-111 SIGN
38400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
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41400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
42400 TYPE B-111 SIGN & SETTLEMENT PLATE
43400 CL FISH DIP x TYPE B-111 SIGN
44400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
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51400 TYPE B-111 SIGN & SETTLEMENT PLATE
52400 CL FISH DIP x TYPE B-111 SIGN
53400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION
54400 TYPE B-111 SIGN & SETTLEMENT PLATE
55400 CL FISH DIP x TYPE B-111 SIGN
56400 BEGIN LAKE RIM RESTORATION BEG BOATSTAY STABILIZATION

BANK STABILIZATION

APPROX. STATIONS DESCRIPTION OF WORK

03400 BEGIN ALONG BRETON CANAL TO SITE 35
09400 BEGIN CL OF POWERLINE
54400 BEGIN LOCATION CANAL
79400 BEGIN SITE 35
99400 END LOCATION CANAL
11740 BEGIN LOCATION CANAL
17840 BEGIN LOCATION CANAL
19240 END LOCATION CANAL
21240 BEGIN MAIN LOCATION CANAL
22340 BEGIN LOCATION CANAL
23340 BEGIN SITE S1EXISTING SITE 1
23840 END SITE 91
24840 END LOCATION CANAL
26440 BEGIN LOCATION CANAL
27340 BEGIN LOCATION CANAL
28040 END LOCATION CANAL
29340 END LOCATION CANAL
32540 BEGIN LOCATION CANAL
35140 END LOCATION CANAL
34740 PT BETWEEN 2 LOCATION CANALS
34740 END LOCATION CANAL
39240 BEGIN LOCATION CANAL
39940 BEGIN MONTANA CAMP NO WORK
40240 END MONTANA CAMP
41340 END LOCATION CANAL
43140 BEGIN SITE 91 END WORK
41440 NO WORK TO BE PERFORMED
41440 BEGIN SITE 91 END WORK
41440 NO WORK TO BE PERFORMED
41440 END LOCATION CANAL
47440 END LOCATION CANAL
49440 BEGIN CL OF POWERLINE
49440 END LOCATION CANAL
49440 END LOCATION CANAL

ISLAND-BANK STABILIZATION

APPROX. STATIONS DESCRIPTION OF WORK

D+00 SITE 1 BEGIN ISLAND PIPELINE
16155 END ENHANCEMENT AT SITE 80 ON ISLAND SIDE (SOUTH SIDE)
31655 END ENHANCEMENT ISLAND SIDE

NOTE:

- Stations are approximate as measured from aerial photographs and are subject to change. Exact stations to be determined by appropriate control points in the field by the Contractor.
- Land Owners:
  - Existing Sites:
  - Proposed Channel Plugs
  - Shoreline Protection:
  - Shown as an additive to the Point
  - Fish Dip Locations

LEGEND:

- S = SITE NUMBER
- P = POWERLINE
- P = PIPELINE
- X = EXISTING SITES
- D = PROPOSED CHANNEL PLUG
- M = MONTANA CAMP
- A = AERIAL SHORELINE PROTECTION
- W = WAVETM SHORELINE PROTECTION
- 40000 = SHORELINE PROTECTION (ADDITIONAL)
- F = FISH DIP LOCATIONS

SCALE: 1" = 20 FT
NOTICE:
48 HOURS BEFORE DIGGING
OR PLACING ROCK
CALL 1-800-272-3500
TO LOCATE UTILITY LINES.

NOTE:
KNOWN PIPELINES AND UTILITIES ARE SHOWN ON THE PLANS.
IT IS POSSIBLE THAT SOME MAY EXIST THAT HAVE NOT BEEN
SHOWN. THE CONTRACTOR SHALL BE ON THE ALERT FOR
SUCH PIPELINES AND UTILITIES AND SHALL REPORT THEM
IMMEDIATELY TO THE CONTRACTING OFFICE.

"AS-BUILT"

WELL AND FLOWLINE INFORMATION

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<th>INACTIVE WELLS/FLOWLINES</th>
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UTILITIES PLAN MAP
(Scale as shown)

1000 0
SCALE IN FEET
1000 2000 3000 4000
SCALE IN MILES
"AS-BUILT"

PROFILE - STA. 480+00 - STA. 560+00
BANK STABILIZATION

PROFILE - STA. 560+00 - STA. 640+00
BANK STABILIZATION

NOTES:
1. SPECIFY TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. ALL SECTIONS REQUIRE A MINIMUM OF 7 FT OF ROCK RAMP.
3. SEE SHEET 22 FOR TYPICAL X-SECTIONS.
4. SEE SHEET 21 FOR ESTIMATED QUANTITIES.
NOTES:
1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. SEE SHEET 22 FOR TYPICAL X-SECTIONS.
**DANGER**

**Obstruction**

**Do Not Proceed**

**Side**

**Sign Detail - Type "A"**

**Sign Support - Type "I"**

**Notes:**
1. The 2" border on the type "A" warning sign shall be a retro-reflective material of orange color. The lettering field shall be a retro-reflective material of white color. The lettering for the warning signs shall be black. Warning signs shall be placed on the upstream and downstream face of the structure.
2. Neoprene washers shall be placed between the sign and steel pipe at all points of contact.
3. Secure nuts by tack welding.

**Side**

**Sign Detail - Type "C"**

**Sign Support - Type "I"**

**Notes:**
1. The border on the starboard Davy mark will be a retro-reflective material of red color. The area inside the border will be a retro-reflective material of white color. The numbers will be black.
2. The border on the port side Davy mark will be a retro-reflective material of green color. The area inside the border will be a retro-reflective material of white color. The numbers will be black.
3. Davy navigation aids shall be in accordance with J.S.C.O. regulations.
4. Signs shall be secured to timber pile with 3-5/8"x8" stainless steel lag screws with 1-1/4" O.D. S.S. washers.

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**Sign Detail - Type "B"**

**Sign Support - Type "III"**

**Notes:**
1. The 2" border on the type "B" warning sign shall be a retro-reflective material of orange color. The lettering field shall be a retro-reflective material of white color. The lettering for the warning signs shall be black. Warning signs shall be placed only on the side facing the bay.
2. Neoprene or Teflon washers shall be placed between steel angle and aluminum signs.

**Side**

**Sign Detail - Type "D"**

**Sign Support - Type "IV"**

**Notes:**
1. Signs shall be constructed using 3/8" plate aluminum.
2. Neoprene washers shall be placed between steel pipe and aluminum signs.
3. The border shall be a retro-reflective material of orange color.
4. The lettering shall be a retro-reflective material of white color.
5. The arrow shall be black.
6. Sign shall be secured to pipe using 2-5/8" S.S. bolts, washers and nuts.
7. Signs to be placed on the longitudinal centerline of the structure.
8. Secure nuts by tack welding.
NOTES:

1. ALL 3/8" DIA. ALL THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE OSGE WASHERS AND TACK WELDED NUTS.


3. THE 5/8" DIA. CABLE SHALL BE SECURED USING 5 STAINLESS STEEL CLAMPS.

4. THE 5/8" DIA. ALL THREAD TIE RODS SHALL BE A MINIMUM OF 6" BELOW TOP OF T BATTER PILE AND 3" VERTICAL CLEARANCE FROM ADJACENT TIE ROD.

5. ALL TIMBER PILES FOR FOUR PILE NAVIGATION AID DOLPHIN SHALL BE 12" X 60".