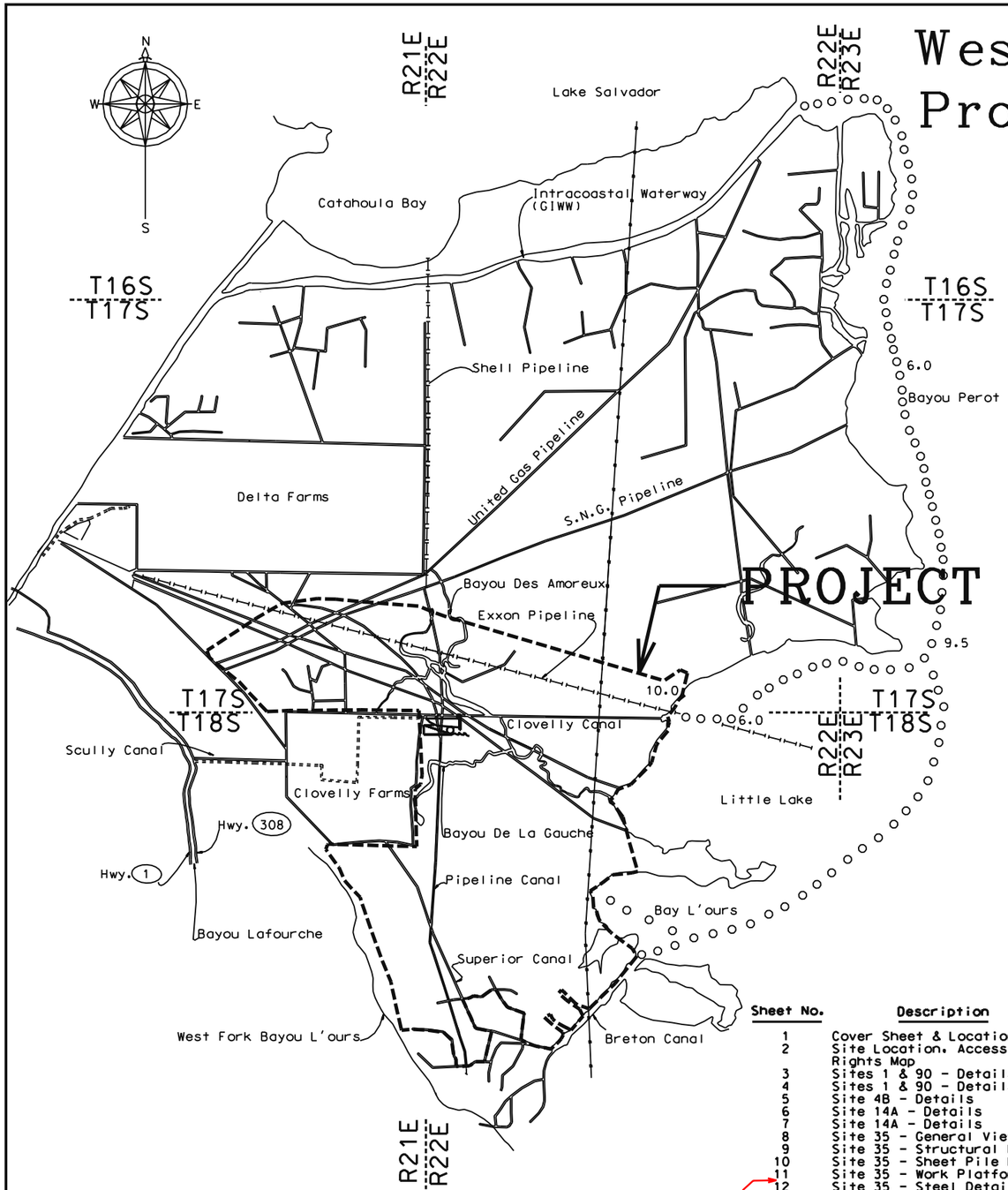
# West Fork Bayou L'Ours Watershed
# Project BA-2, Construction Unit 2

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

**"AS-BUILT"**

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




LOCATION MAP

1 ½ 0 1 2 3 4
Approximate scale in miles

## LEGEND

- State Highway
- Unimproved Road
- Township / Range Line
- 6.0 Approximate Depth
- Pipeline
- Aerial Power Lines
- Canals Existing
- Public Boat Launch
- Proposed Access Routes
- Project Area

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## "AS-BUILT PLANS"

SUBMITTED BY: DALE J. GARDER — GOVERNMENT REPRESENTATIVE — 11/28/01 DATE
APPROVED BY: BRADELY A. STICKER — ASSISTANT STATE CONSERVATION ENGINEER — ??/??/?? DATE
E.J. GIERING III — STATE CONSERVATION ENGINEER — ??/??/?? DATE

CONTRACT NO. 50-7217-0-3 DATE 1/18/00
CONTRACTOR REGENCY CONSTRUCTION
INSPECTOR ROBERT PAYTON
DATE OF COMPLETION 10/16/0001

| Designed | Steve Garner | Date 03/98 |
|---|---|---|
| Drawn | A.Gremillion.PCole | 03/98 |
| Traced | | |
| Checked | Jimmy Moore | 03/98 |

Approved by E.J. GIERING, III — Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

COVER SHEET & LOCATION MAP
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
|---|---|---|---|
| DATE | APPR. | TITLE | |
| 4/23/99 | E.G. | ASTC/ES | |

CAD FILENAME LA271001.DGN
PROJECT NO. LA271
SHEET NO 1 OF 25

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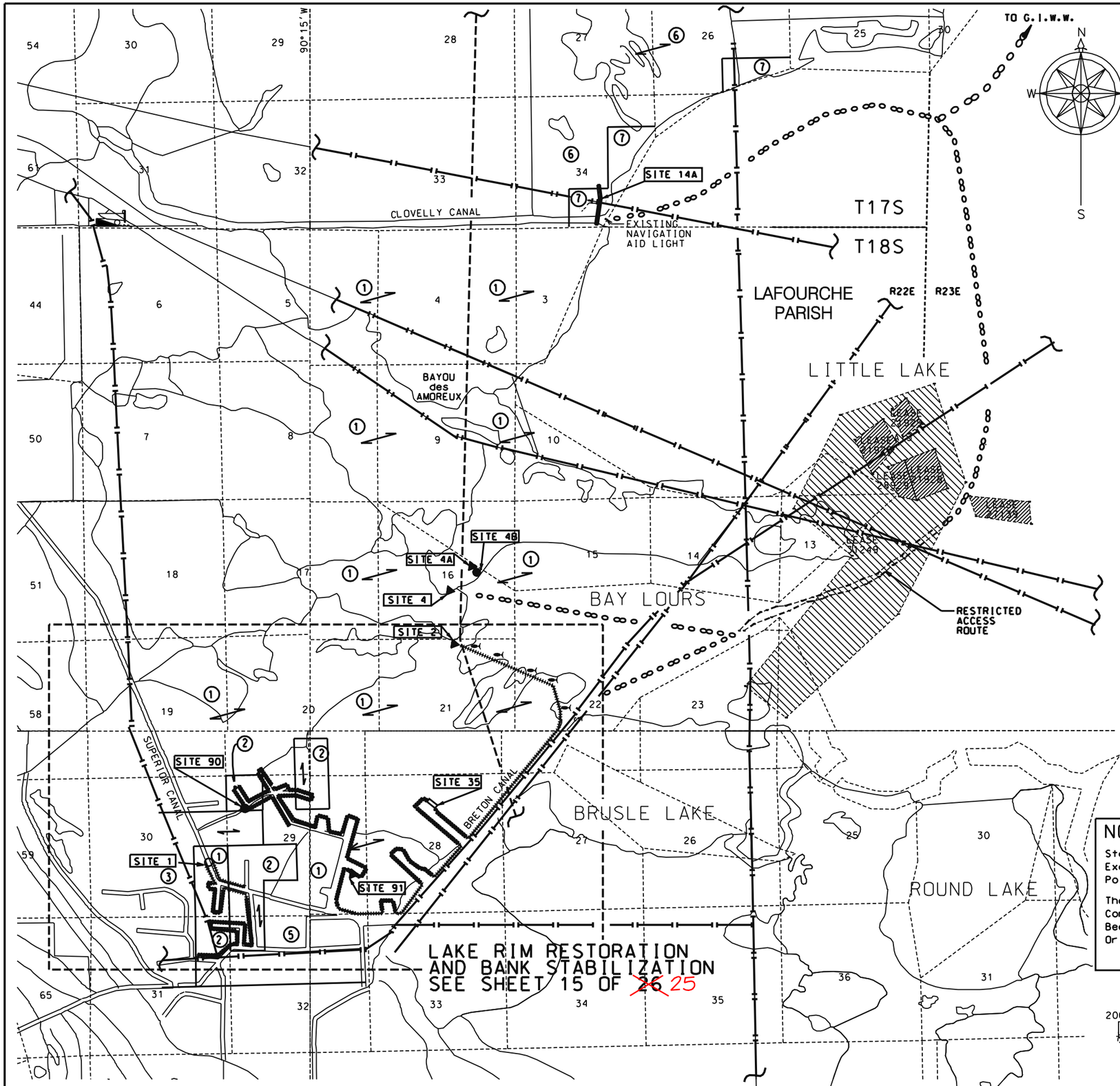


## LEGEND:

"AS-BUILT"

- ACCESS ROUTES
- SITE NO. — SITE NUMBER
- PIPELINE
- AERIAL POWERLINE
- PROPOSED PLUG W/BARGE BAY
- EXISTING SITES
- ROCK WEIR W/BOAT BAY
- VARIABLE CREST WEIR
- ROCK PLUG
- (6) LAND OWNERS
- RIPRAP CAPPED SHORELINE PROTECTION
- SHORELINE PROTECTION
- FISH DIP LOCATIONS
- RESTRICTED ACCESS ROUTE
- OYSTER LEASE
- PUBLIC BOAT LAUNCH

## LANDOWNERS

1. GENERAL AG SERVICES & LITTLE LAKE LAND CO.
2. ALLAIN - LEBRETON CO.
3. JAMES PELTIER ET ALS
4. WARREN BARKER JR. ET ALS
5. EXXON CORPORATION
6. LA DELTA FARMS
7. WILLIAM MASON HRS.

**NOTE:**

ALL VERTICAL DATA IS IN N.A.V.D. 88.

**NOTICE:**

48 HOURS BEFORE DIGGING OR PLACING ROCK
CALL 1-800-272-3020
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 UTILITES. AND SHALL REPORT THEM IMMEDIATELY TO THE CONTRACTING OFFICER.

**NOTE:**

Stations Are Approximate As Measured And Are Subject to Change. Exact Stationing To Be Determined Between Hydraulic Control Points In The Field By the COTR.

The Natural Resources Conservation Service Does Not Guarantee The Completeness And Accuracy Of Ownership Shown. Apparent Ownership Has Been Obtained From Maps In The Office Of The Parish Clerk Of Court Or The Tax Assessor.

SCALE IN FEET
2000 0 2000 4000 6000 8000
1/8 3/4 5/8 1/2 3/8 1/4 1/8 0 1
SCALE IN MILES

| | | Date |
|---|---|---|
| Approved by | E.J. GIERING, III | |
| Title | STATE CONSERVATION ENGINEER | |
| | ALEXANDRIA, LOUISIANA | |
| Title | | |

| | | Date |
|---|---|---|
| Designed | S. GARNER | 02/98 |
| Drawn | P.C. & H.M. | 02/98 |
| Traced | | |
| Checked | J. MOORE | 04/98 |

# SITE LOCATION, ACCESS & LAND RIGHTS
## BA2 CONSTRUCTION UNIT 2
## LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |

CAD FILENAME
LA271002.DGN

PROJECT NO.
LA271

SHEET NO 02 OF 25

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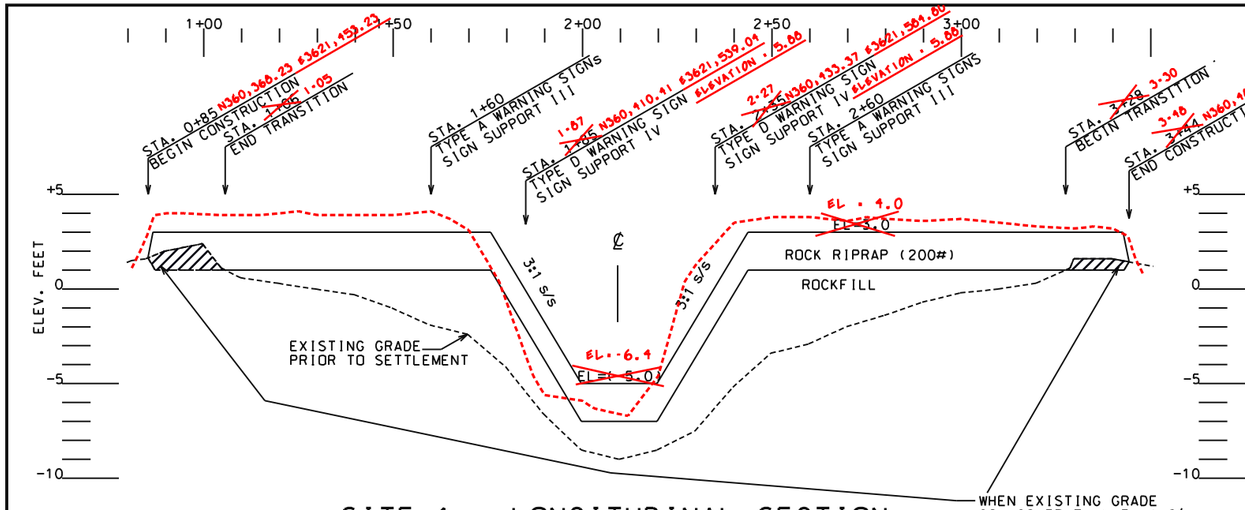
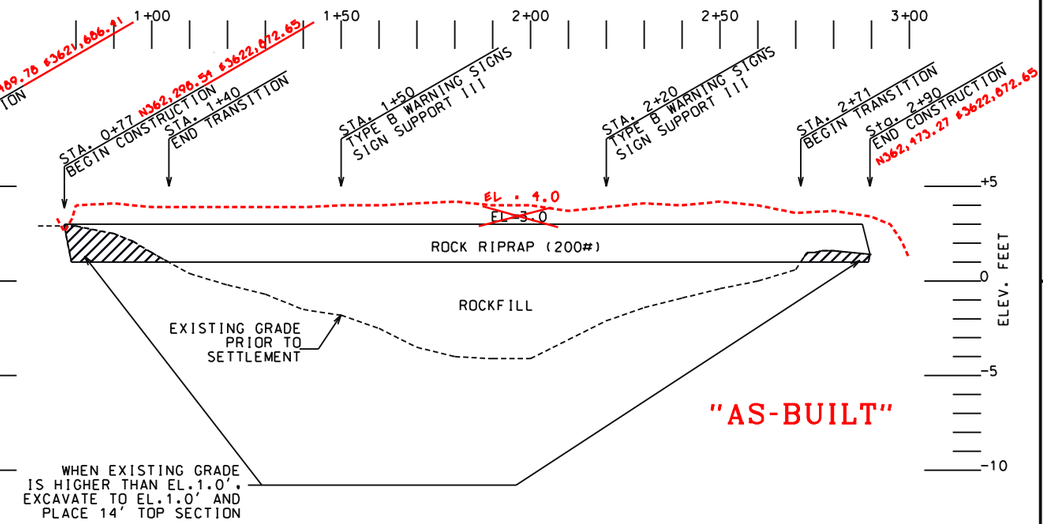


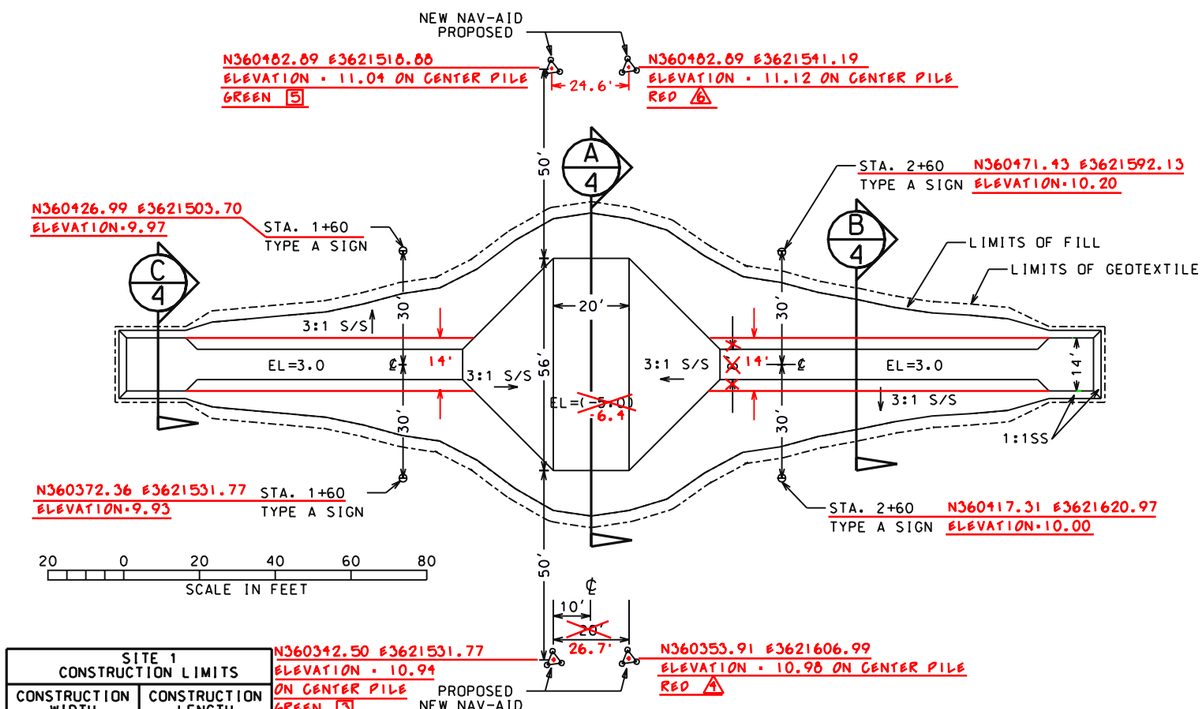

## SITE 1 - LONGITUDINAL SECTION

X-SECTION TAKEN AT ORANGE POST - FROM WEST TO EAST
1xHORZ.. 5xVERT.




## SITE 90 - LONGITUDINAL SECTION

X-SECTION TAKEN 50' EAST OF ORANGE POST
1xHORZ.. 5xVERT.



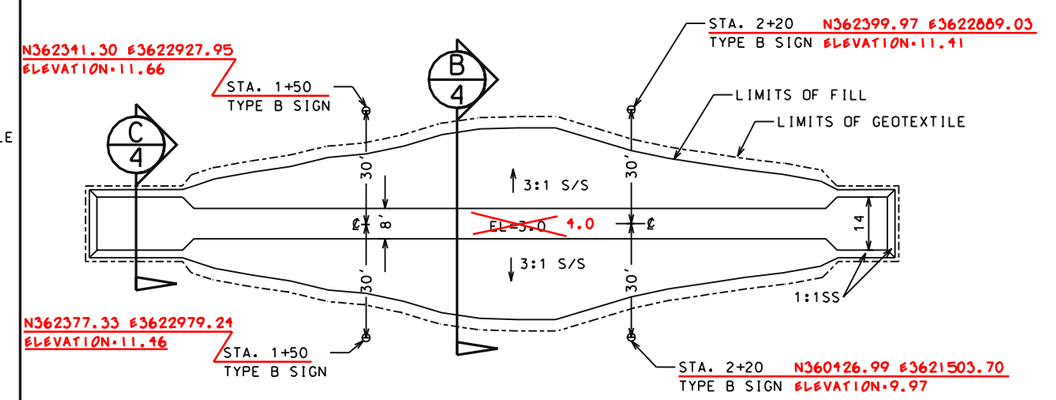

## SITE 1 - PLAN

X-SECTION TAKEN AT ORANGE POST

| SITE 1 CONSTRUCTION LIMITS | |
|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH |
| 500 FT | 500 FT |
| ~~ESTIMATED~~ ACTUAL QUANTITIES | |
| ROCK RIPRAP (200#) | ~~1765~~ 1205 TONS |
| ROCKFILL | ~~1390~~ 1913 TONS |
| GEOTEXTILE | ~~1330~~ 1723.6 SY |
| | |

NOTES:

1. SEE SHEETS 23 AND 24 FOR SIGN DETAILS.
2. TIE-IN BETWEEN STRUCTURES AND BANK STABILIZATION TO BE DETERMINED IN THE FIELD BY THE COTR.
3. TRANSITION FROM 14' CREST WIDTH TO 4' CREST WIDTH AT ONE FOOT LONGITUDINAL TO ONE FOOT NORMAL ALONG LONGITUDINAL AXIS.




## SITE 90 - PLAN

PLAN 50' EAST OF ORANGE POST

| SITE 90 CONSTRUCTION LIMITS | |
|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH |
| 300 FT | 300 FT |
| ~~ESTIMATED~~ ACTUAL QUANTITIES | |
| ROCK RIPRAP (200#) | ~~1435~~ 1195 TONS |
| ROCKFILL | ~~900~~ 1132 TONS |
| GEOTEXTILE | ~~950~~ 1007 SY |
| | |

NOTES:

1. SEE SHEETS 23 AND 24 FOR SIGN DETAILS.
2. TIE-IN BETWEEN STRUCTURES AND BANK STABILIZATION TO BE DETERMINED IN THE FIELD BY THE COTR.
3. TRANSITION FROM 14' CREST WIDTH TO 4' CREST WIDTH AT ONE FOOT LONGITUDINAL TO ONE FOOT NORMAL ALONG LONGITUDINAL AXIS.

Approved by C.J. CUCHING, III — Date
STATE CONSERVATION ENGINEER — Title
ALEXANDRIA, LOUISIANA

Designed S. GARNER 04/98 — Date
Drawn H. MOORE 04/98 — Title
Traced — —
Checked J. MOORE 05/98 — Title

SITES 1 & 90 DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS: DATE | APPR. | TITLE

CAD FILENAME
LA271003.DGN
PROJECT NO.
LA271
SHEET NO 3 OF 25

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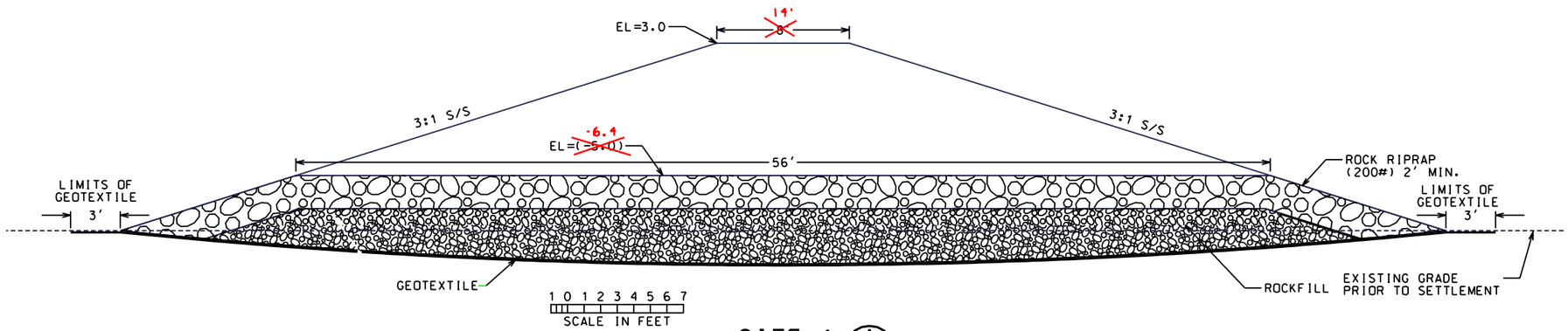
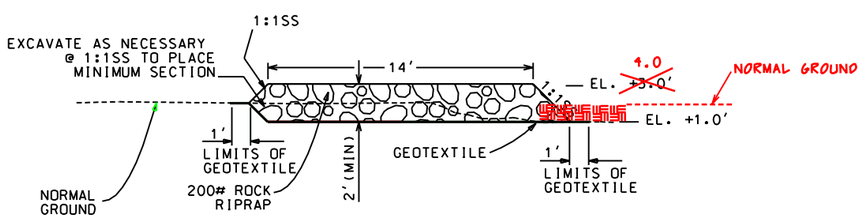
"AS-BUILT"




SITE 1 (A/3)
X-SECT




14' TOP (C/3)
X-SECT

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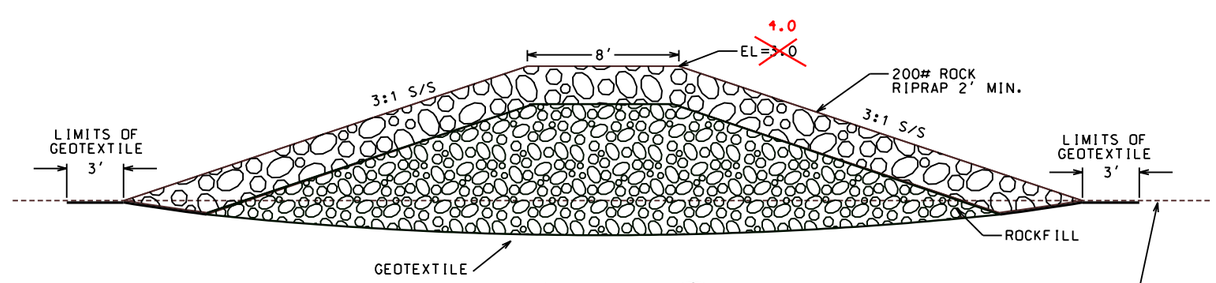


8' TOP (B/3)
X-SECT

1 0 1 2 3 4 5 6 7
SCALE IN FEET

Approved by E. J. GUERING, III — Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA

Designed S. GARNER — Date 04/98
Drawn H. MOORE — 04/98
Traced — —
Checked J. MOORE — 05/98

SITES 1 & 90 DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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|---|---|---|
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REVISIONS

CAD FILENAME
LA271004.DGN

PROJECT NO.
LA271

SHEET NO 4 OF 25

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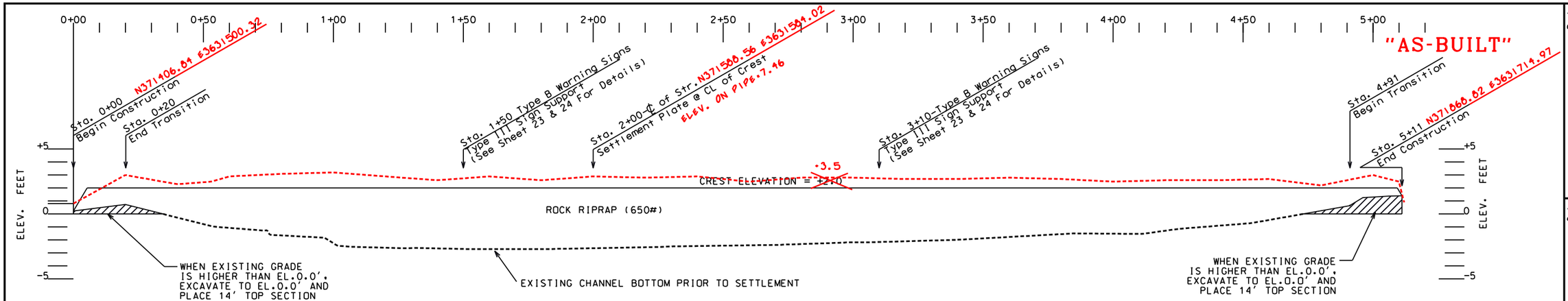
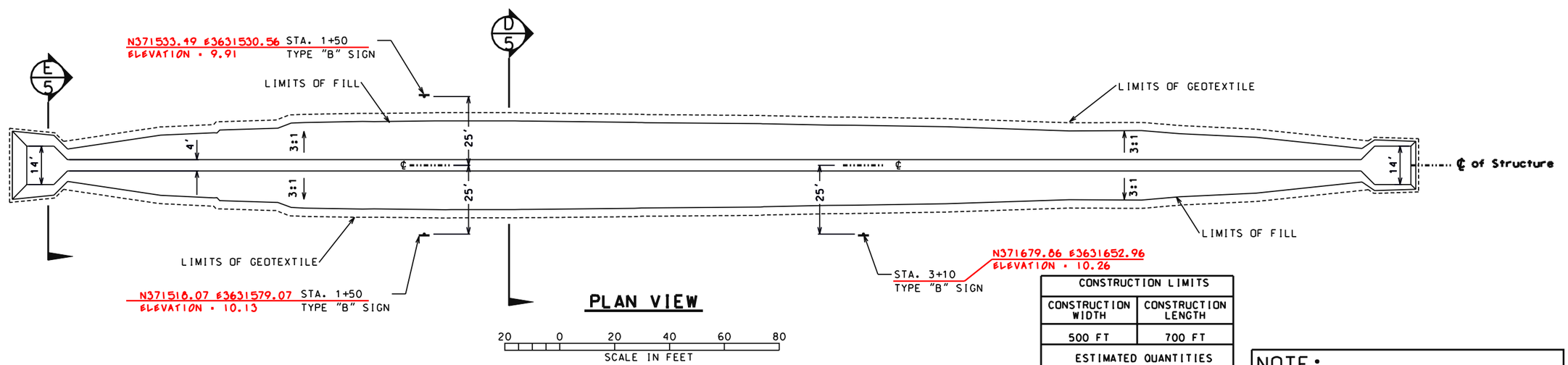



## PROFILE ON CENTERLINE
(SCALE AS SHOWN)

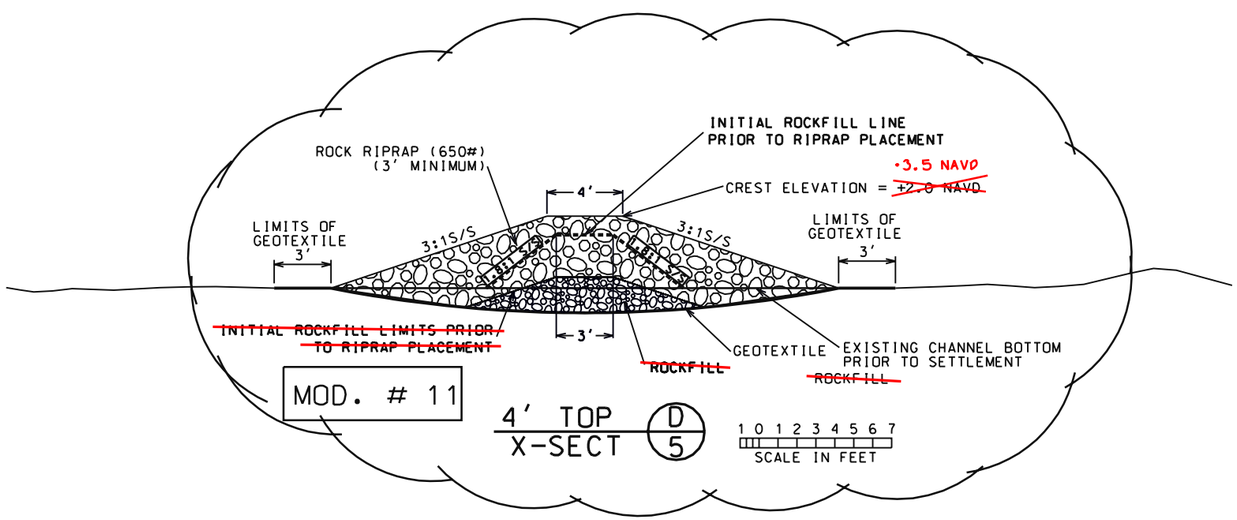


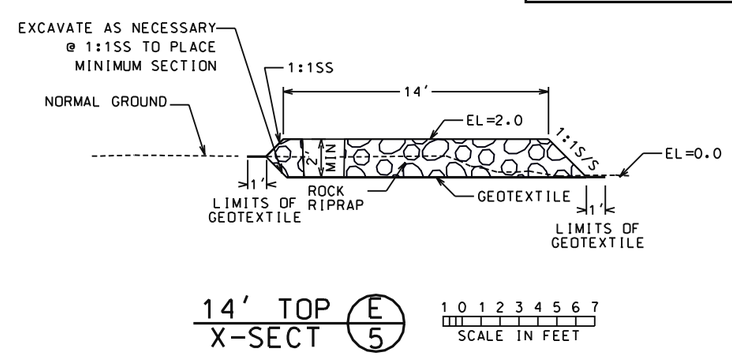

## PLAN VIEW

| CONSTRUCTION LIMITS | |
|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH |
| 500 FT | 700 FT |
| ESTIMATED QUANTITIES | |
| ROCK RIPRAP 650# | ~~2520 TONS~~ 2597 TONS |
| ~~ROCKFILL~~ ROCK RIPRAP 200# | ~~0 TONS~~ 403 TONS |
| GEOTEXTILE | ~~2130 SY~~ 2188.9 SY |

**NOTE:**

1. SITE 4B IS INCLUDED IN ADDITIVE A.
2. TRANSITION FROM 14' CREST WIDTH TO 4' CREST WIDTH AT ONE FOOT LONGITUDINAL TO ONE FOOT NORMAL ALONG LONGITUDINAL AXIS.




Date
Approved by L.J. DUERING, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Date 4/98
Title

Designed S. GARNER 4/98
Drawn A. GREMILLION 4/98
Traced
Checked J. MOORE 4/98

# SITE 4B DETAILS
## BA2 CONSTRUCTION UNIT 2
## LAFOURCHE PARISH • LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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|---|---|---|---|
| DATE | APPR. | TITLE | |
| 5/9/00 | E.G. | ASTC/ES | MOD. #7 |
| 7/13/00 | E.G. | ASTC/ES | MOD. #11 |

CAD FILE NO. LA271005
DRAWING NO. LA271
SHEET NO 5 OF 25

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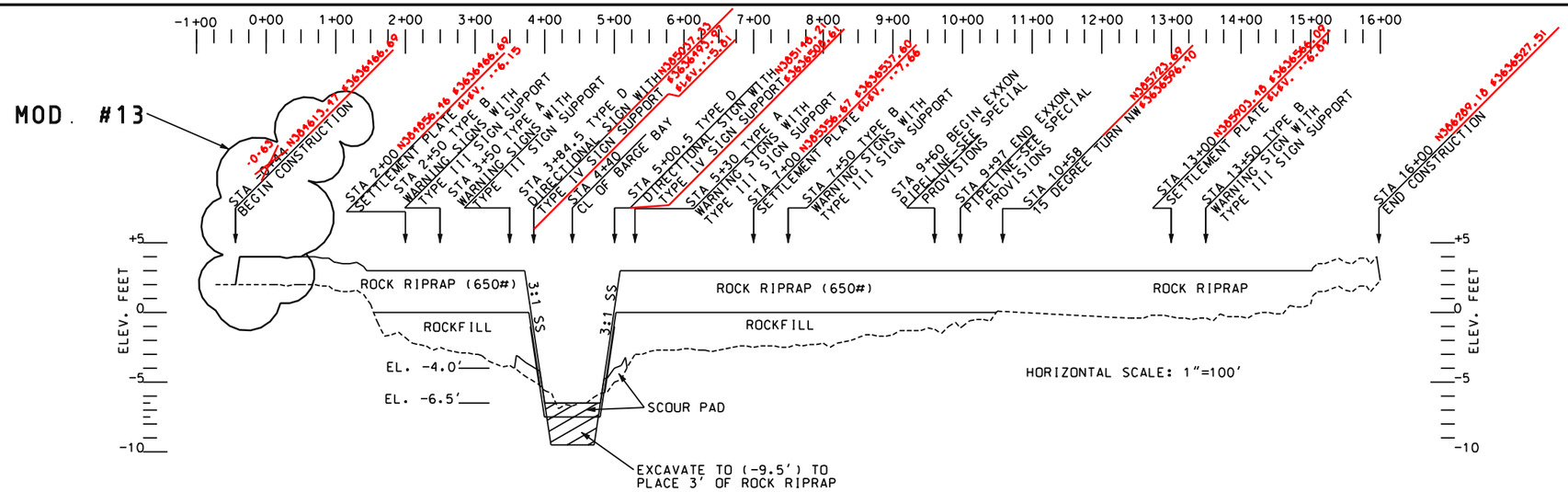
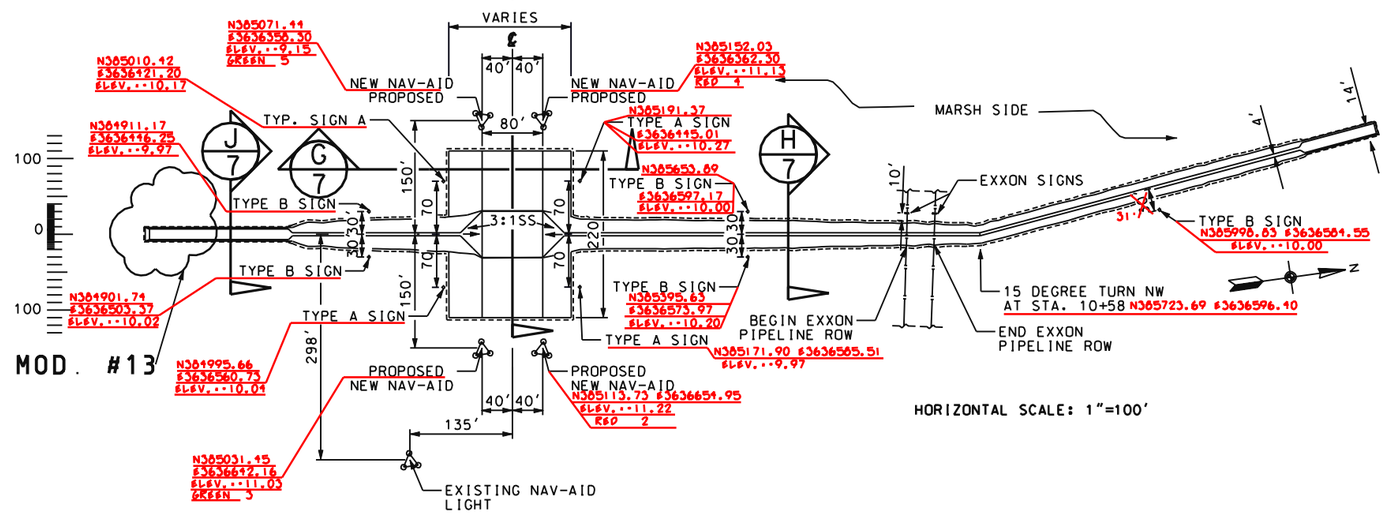
"AS-BUILT"




F/7 SITE 14A - LONGITUDINAL SECTION



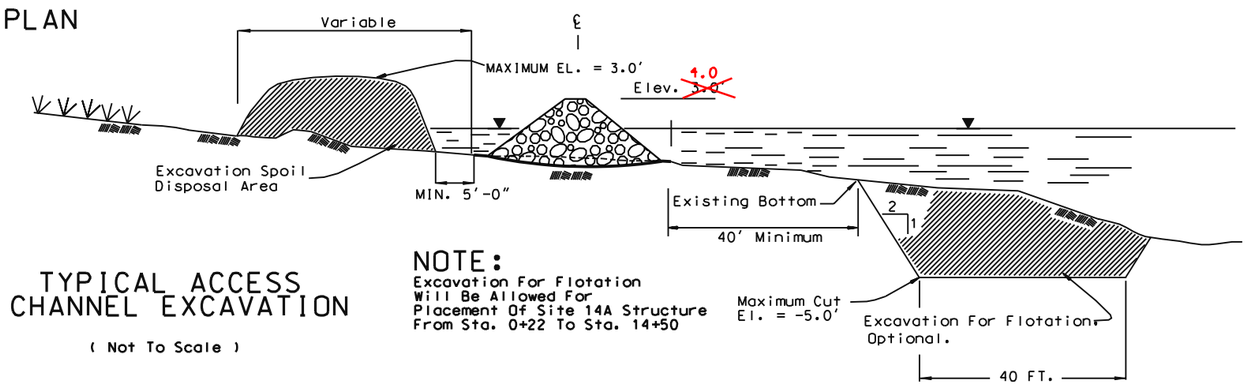

SITE 14A - PLAN

## NOTE:

1. SEE SHEETS 23, 24 & 25 FOR SIGN AND SIGN SUPPORT DETAILS
2. TYPE IV SIGN SUPPORTS TO BE PLACED ALONG THE CENTERLINE AT THE STATIONS INDICATED IN THE PROFILE.
3. SCOUR AREA SHALL BE EXCAVATED ONLY WITHIN THE LIMITS OF THE 80' BARGE BAY. THE INLET AND OUTLET AREAS SHALL BE TAPERED UP TO NORMAL GROUND WITH 1.5 FT. MIN. OF ROCK RIPRAP (200#).
4. TRANSITION FROM 14' CREST WIDTH TO 4' CREST WIDTH AT ONE FOOT LONGITUDINAL TO ONE FOOT NORMAL ALONG LONGITUDINAL AXIS.

| SITE 14A CONSTRUCTION LIMITS | |
|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH |
| 600 FT | 1800 FT |
| ESTIMATED QUANTITIES | |
| ROCK RIPRAP (650#) | ~~10380~~ 6212 TONS |
| ROCK RIPRAP (200#) | ~~2180~~ 4716 TONS |
| ROCKFILL | 3195 TONS |
| GEOTEXTILE | ~~9,880~~ 10,934.1 SY |
| EXCAVATION | ~~1280~~ CY |

| MODIFICATION # 13 | |
|---|---|
| ROCK RIPRAP 650 # | 300 TONS |
| GEOTEXTILE | 178 C.Y. |




TYPICAL ACCESS CHANNEL EXCAVATION

( Not To Scale )

## NOTE:

Excavation For Flotation Will Be Allowed For Placement Of Site 14A Structure From Sta. 0+22 To Sta. 14+50

| Date | Approved by E.J. GERING, III | Date |
|---|---|---|
| | Title STATE CONSERVATION ENGINEER | |
| | ALEXANDRIA, LOUISIANA | |
| | Title | |

| | | Date |
|---|---|---|
| Designed | S. GARNER | 04/98 |
| Drawn | DESIGN GROUP | 04/98 |
| Traced | | |
| Checked | J. MOORE | mm/yy |

SITE 14A DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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| MOD 13 | 4/23/99 | E.G. | ASTC/ES |
| | 9/14/00 | E.G. | ASTC/ES |

CAD FILENAME 271S14A.DGN

PROJECT NO. LA271

SHEET NO 6 OF 25

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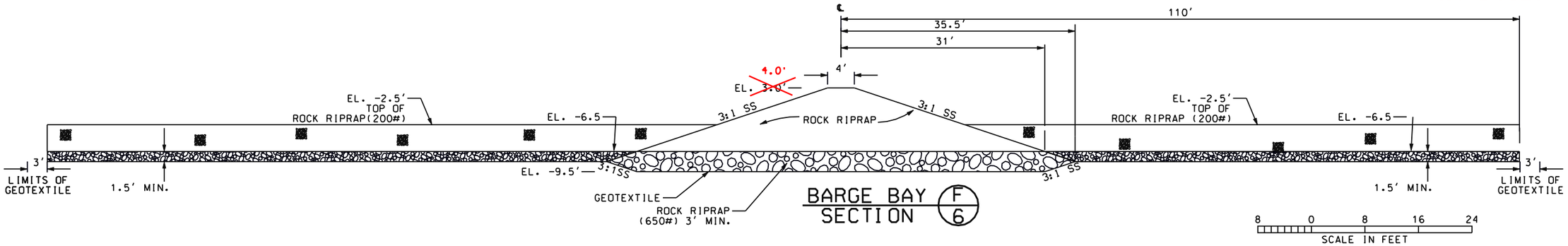
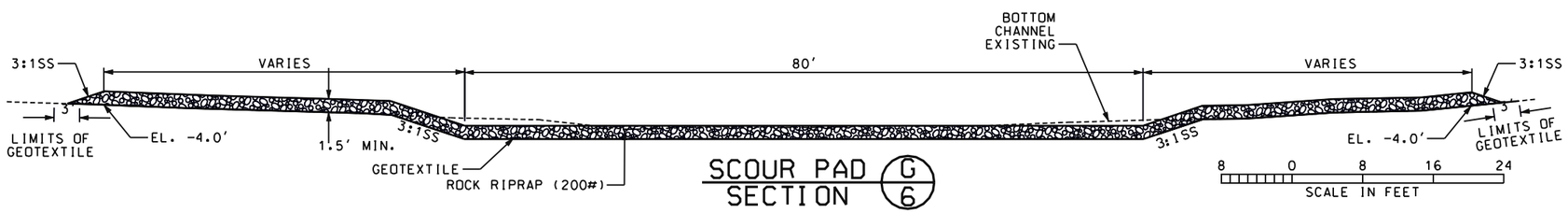
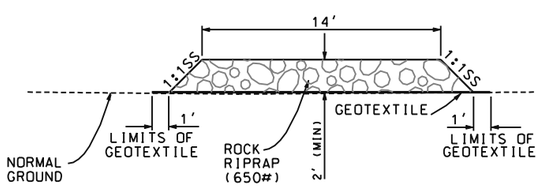



BARGE BAY SECTION F/6




SCOUR PAD SECTION G/6

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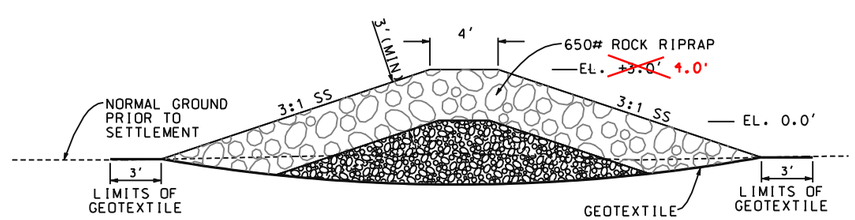
SCALE IN FEET

14' TOP X-SECT J/6




1 0 1 2 3 4 5 6 7
SCALE IN FEET

4' TOP X-SECT H/6

NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. SEE SHEET 6 FOR ESTIMATED QUANTITIES.

Approved by E.J. DIERING, III. Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed S. GARNER 03/98
Drawn H.M., P.C. 03/98
Traced
Checked J. MOORE 04/98

SITE 14A DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS

| DATE | APPR. | TITLE |
|---|---|---|
| 4/23/99 | E.G. | ASTC/ES |

CAD FILENAME
LA271007
PROJECT NO.
LA271
SHEET NO 7 OF 25

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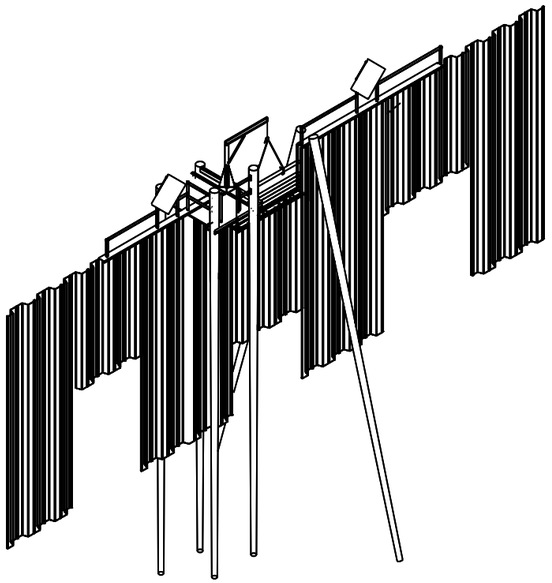
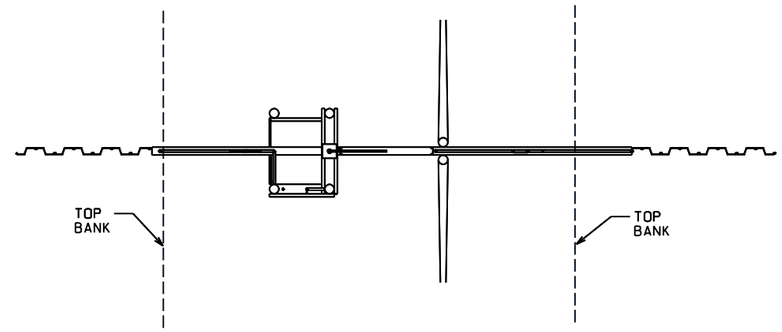
| CONSTRUCTION LIMITS | |
|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH |
| 200 FT | 200 FT |

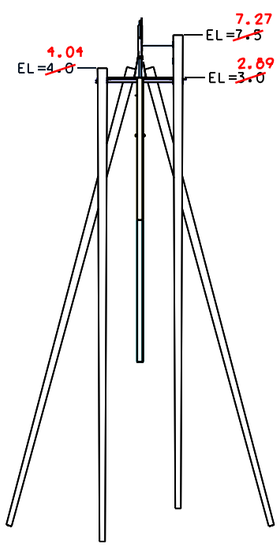
"AS-BUILT"



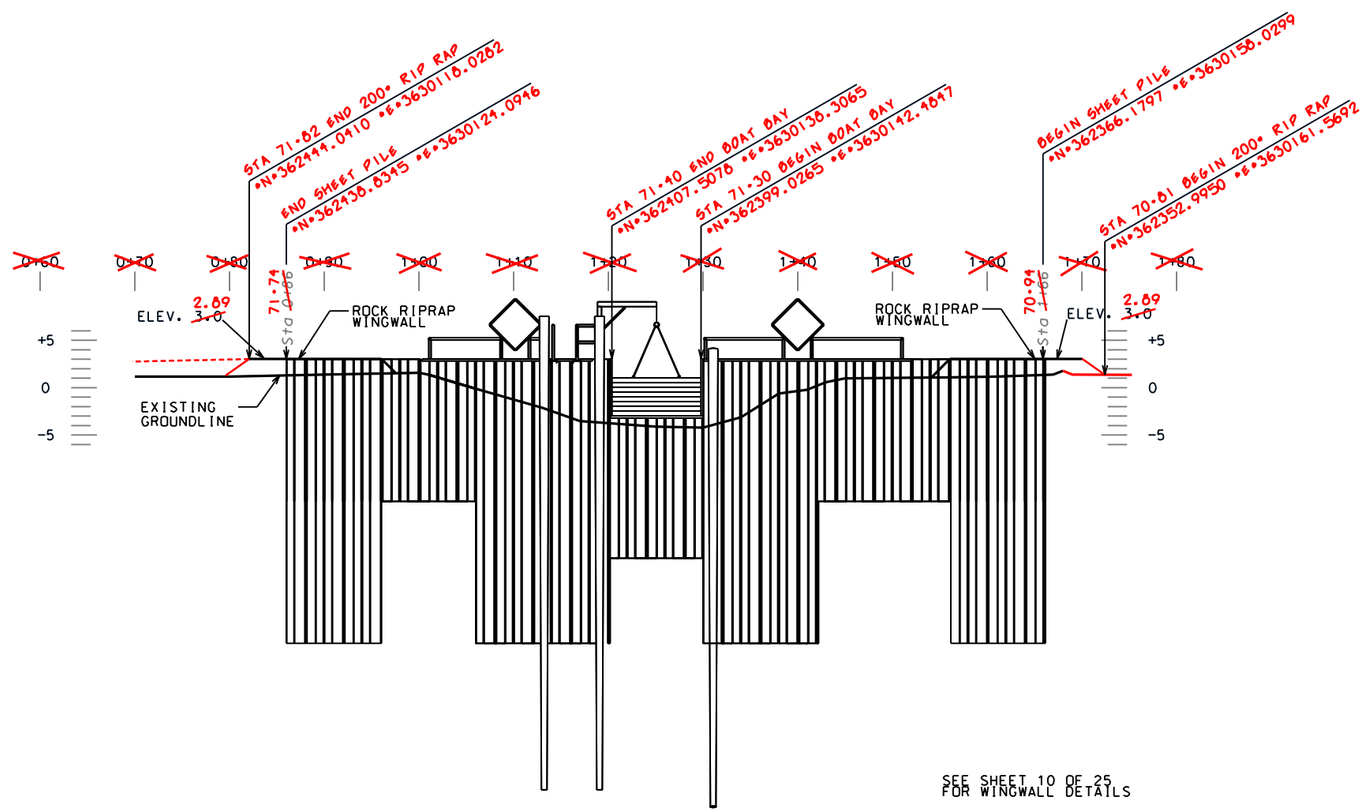
STRUCTURE ISOMETRIC




STRUCTURE PLAN




STRUCTURE LEFT ELEVATION




STRUCTURE FRONT ELEVATION

8 0 8 16 24 32 40
SCALE IN FEET

Date 10/98
Approved by E.J.GERING,III
Title STATE CONSERVATION ENGINEER

Designed S. GARNER Date 03/98
Drawn H. MOORE 03/98
Traced
Checked J.MOORE 10/98

SITE 35 - GENERAL VIEWS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS

| DATE | APPR. | TITLE |
|---|---|---|
| | | |

CAD FILENAME
LA271008

PROJECT NO.
LA271

SHEET NO 8 OF 25

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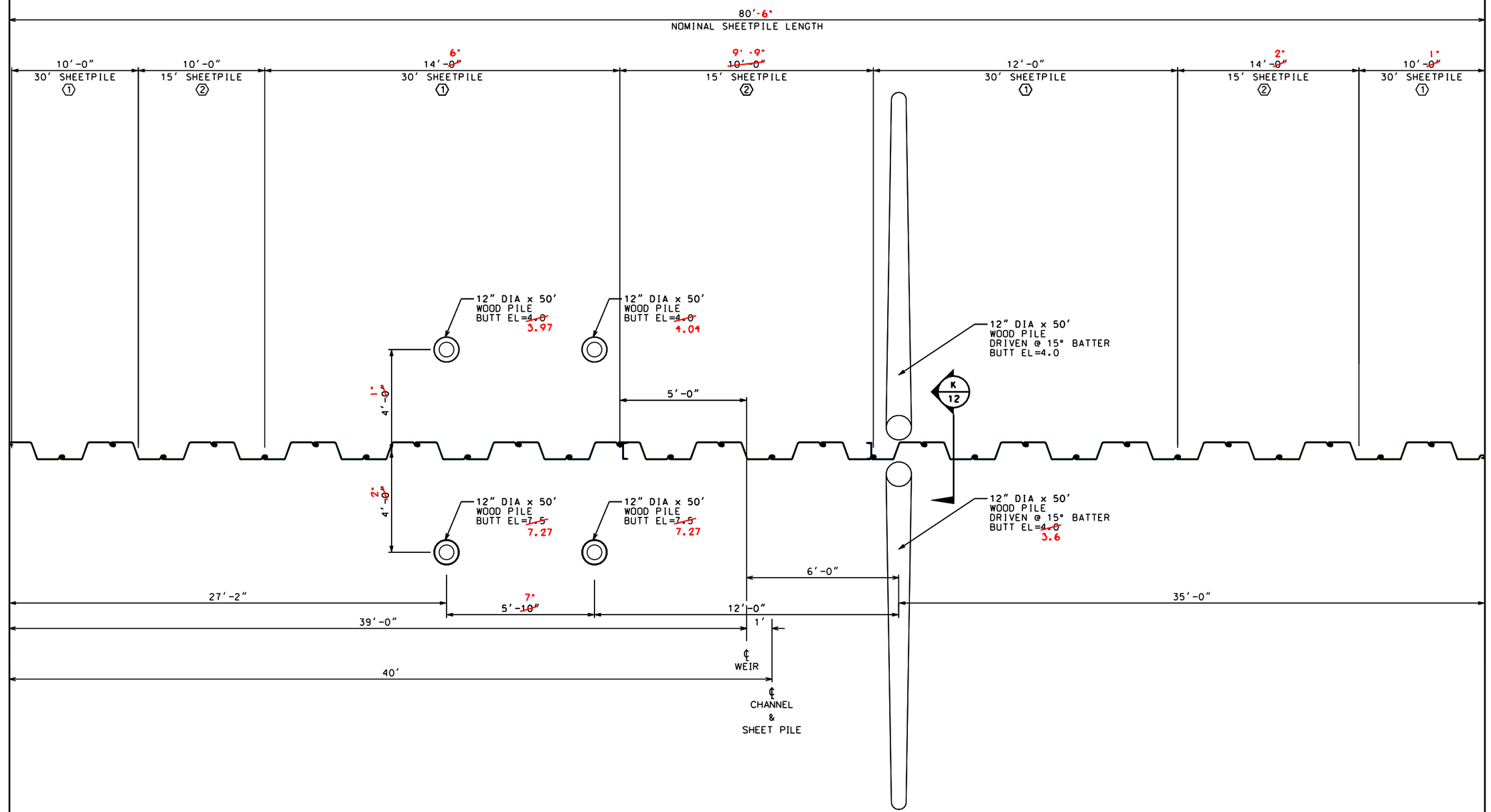
"AS-BUILT"




NOTE:
1. STEEL SHEET PILE SHALL CONFORM TO ASTM SPECIFICATION A572, GR 50 AND HAVE MINIMUM SECTION MODULUS OF 8.0 $IN^3$ PER FOOT OF PILING WALL. ALL CHANNELS, ANGLES, AND PLATE SHALL CONFORM TO ASTM A572 GR 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.

STRUCTURE LAYOUT

| SHEET PILE MARK | MINIMUM $IN^3$/FT | SHEET PILE THICKNESS | PILE LENGTH | LINEAR FEET OF WALL | SUBTOTALS (SF) |
|---|---|---|---|---|---|
| ① | 8.0 | 0.25" | 30' | 46 | 780 |
| ② | 8.0 | 0.25" | 15' | 34 | 810 |

1 0 1 2 3 4 5 6 7
SCALE IN FEET

Approved by E.J.GIERING,III Date 10/98
Title STATE CONSERVATION ENGINEER
Designed S. GARNER Date 03/98
Drawn H. MOORE 03/98
Traced
Checked J.MOORE 10/98
Title

SITE 35 STRUCTURE LAYOUT
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE APPR. TITLE

CAD FILENAME LA271009
PROJECT NO. LA271
SHEET NO 9 OF 25

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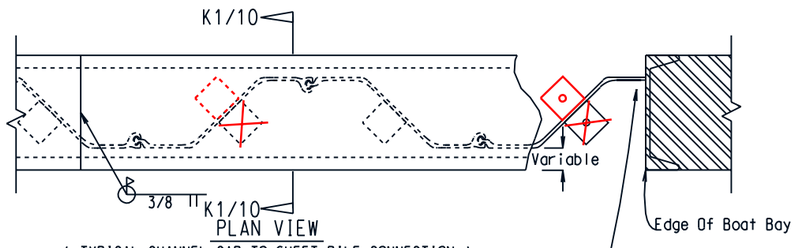
"AS-BUILT"

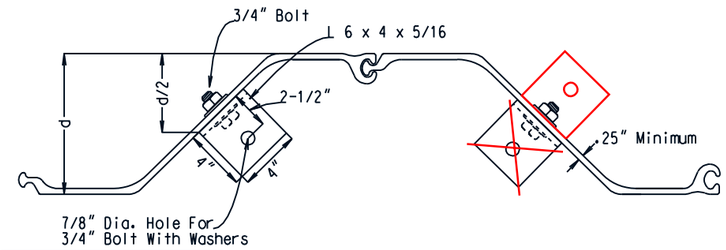



PLAN VIEW

( TYPICAL CHANNEL CAP TO SHEET PILE CONNECTION )

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 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 Fabrication. The Contractor May Request The Assistance Of The NRCS State Design Staff When Developing This Connection.

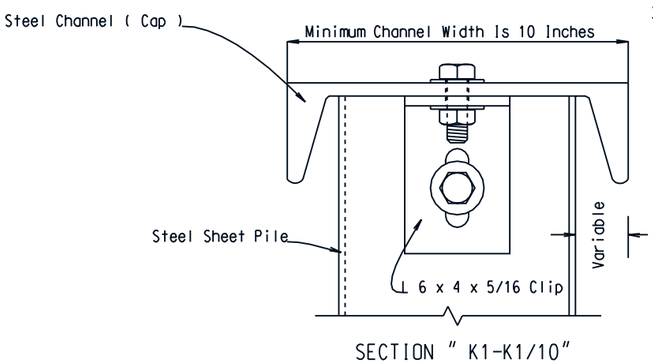
NOTE:
Connection Of Channel Cap To Sheet Pile At Bottom Of Variable Crest Weir For Weir No. 35 Shall Be Made As Follows: The L 6x 4x?" Shall Be Welded To The Bottom Of The Channel Cap Prior To Installation.
The Holes In The Sheet Pile Shall Be Field Drilled.




NOTE:
L 6 x 4 x 5/16 Clips To Be Placed On The Middle Section Of Each Pile As Shown.

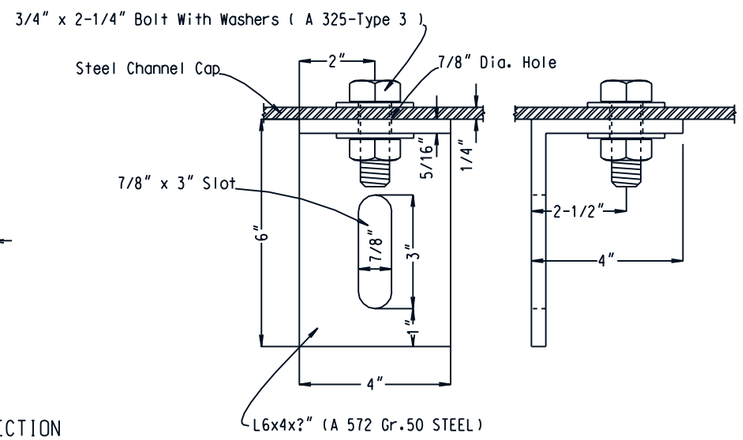
TYPICAL SHEET PILE DETAIL

(NORMAL CONFIGURATION)



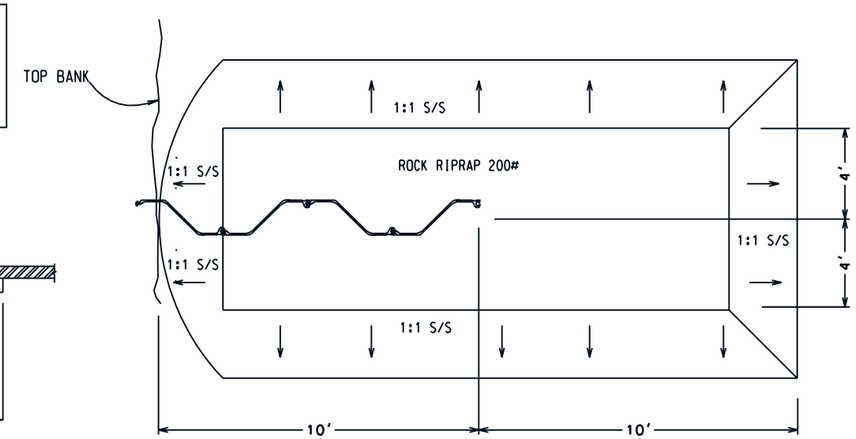

SECTION " K1-K1/10"

TYPICAL CHANNEL CAP TO SHEET PILE CONNECTION

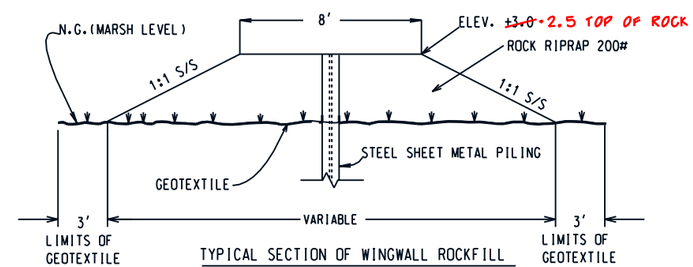



FRONT SIDE

L 6 x 4 x 5/16" ( Clip )




TYPICAL PLAN VIEW OF WING WALL ROCKFILL




TYPICAL SECTION OF WINGWALL ROCKFILL

WINGWALL DETAILS

NOTE:
1. STEEL SHEET PILE SHALL CONFORM TO ASTM SPECIFICATION A572, GR 50 AND HAVE MINIMUM SECTION MODULUS OF 8.0 $IN^3$ PER FOOT OF PILING WALL. ALL CHANNELS, ANGLES, AND PLATE SHALL CONFORM TO ASTM A572 GR 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.

| | | Date |
|---|---|---|
| Approved by | E. J. DUERING, III | |
| Title | STATE CONSERVATION ENGINEER | |
| | ALEXANDRIA, LOUISIANA | |

| | | Date |
|---|---|---|
| Designed | T. HENRY | 05/92 |
| Drawn | A. GREMILLION | 05/92 |
| Traced | | |
| Checked | J. MOORE | 09/98 |

SITE 35 - SHEET PILE DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |
| 4/23/99 | E.G. | ASTC/ES |

CAD FILENAME
LA271010

PROJECT NO.
LA271

SHEET NO 10 OF 25

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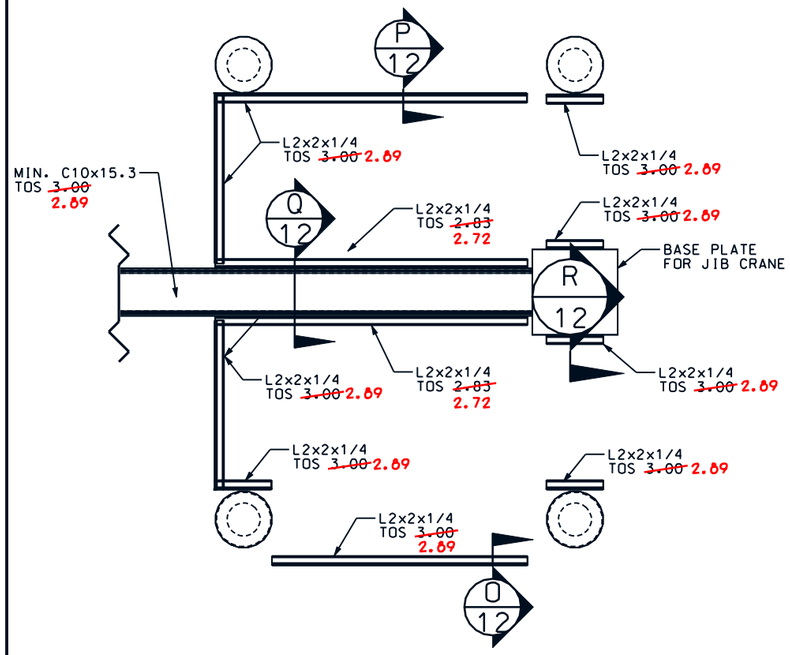
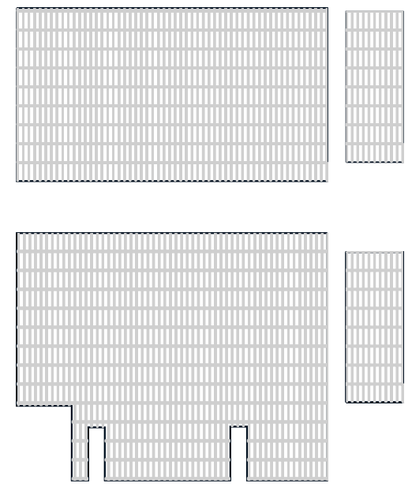
"AS-BUILT"

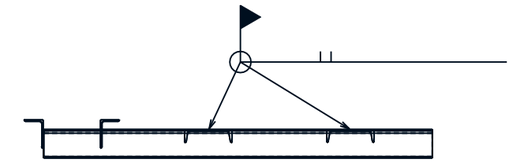



PLAN - SECONDARY STEEL



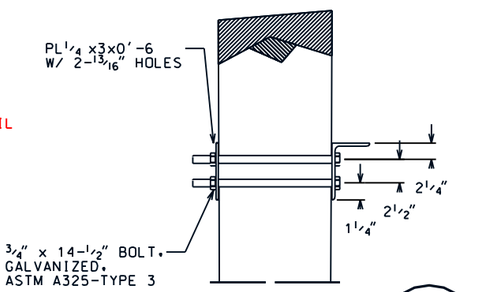
PLAN - STEEL GRATING

BAR GRATING TO BE 19W4.SERRATED. GALVANIZED. 1 3/4 x 3/16. SECURE GRATING PER MANUFACTURER'S RECOMMENDATION ie ~~J BOLT~~. SADDLE CLIP. etc. ALL FASTENERS SHALL BE STAINLESS STEEL. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FASTENER DETAILS TO THE C.O.T.R. 14 DAYS PRIOR TO PURCHASING AND/OR FABRICATING.

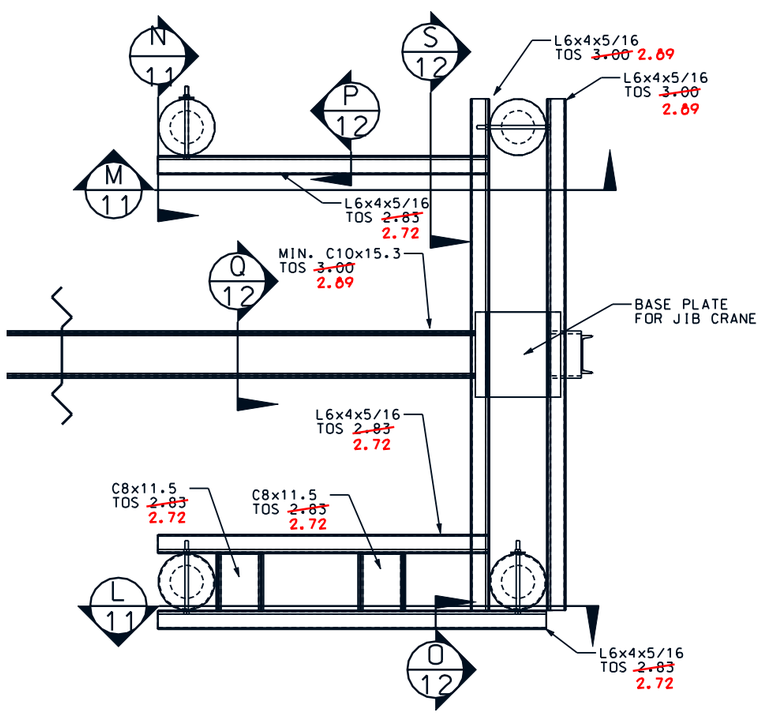


L6x4 @ WATER SECTION (L 11)

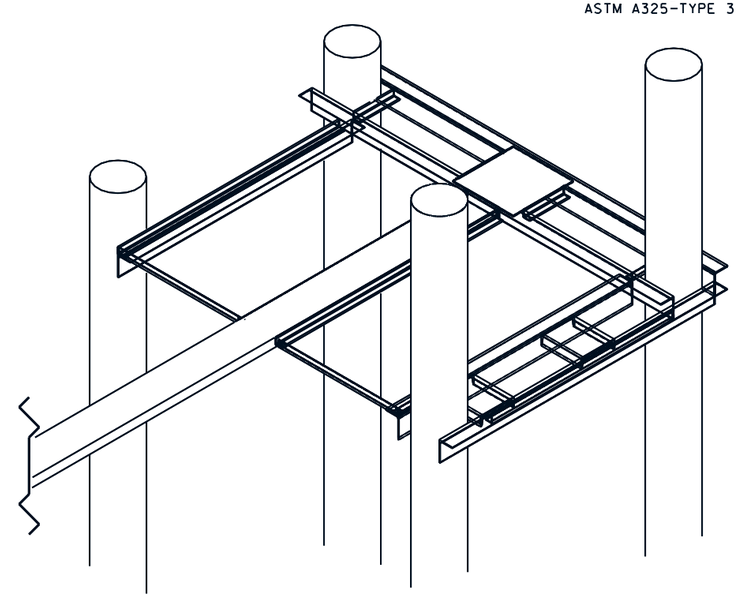
L6x4 @ MARSH SECTION (M 11)




BOLTING DETAIL (N 11)




PLAN - PRIMARY STEEL



ISOMETRIC - SUPPORT STEEL

NOTE:
ALL DIMENSIONS THIS SHEET ARE CONTINGENT UPON "AS-DRIVEN" PILE LOCATIONS. VERIFY DIMENSIONS ON JOB BEFORE FABRICATION.

1 1/2 0 1 2 3
SCALE IN FEET

| | | Date |
|---|---|---|
| Approved by | E.J.GIERING,III | 10/98 |
| Title | STATE CONSERVATION ENGINEER | |
| Title | | |

| | | Date |
|---|---|---|
| Designed | S. GARNER | 03/98 |
| Drawn | H. MOORE | 03/98 |
| Traced | | |
| Checked | J. MOORE | 10/98 |

SITE 35 WORK PLATFORM
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |

CAD FILENAME
LA271011

PROJECT NO.
LA271

SHEET NO 11 OF 25

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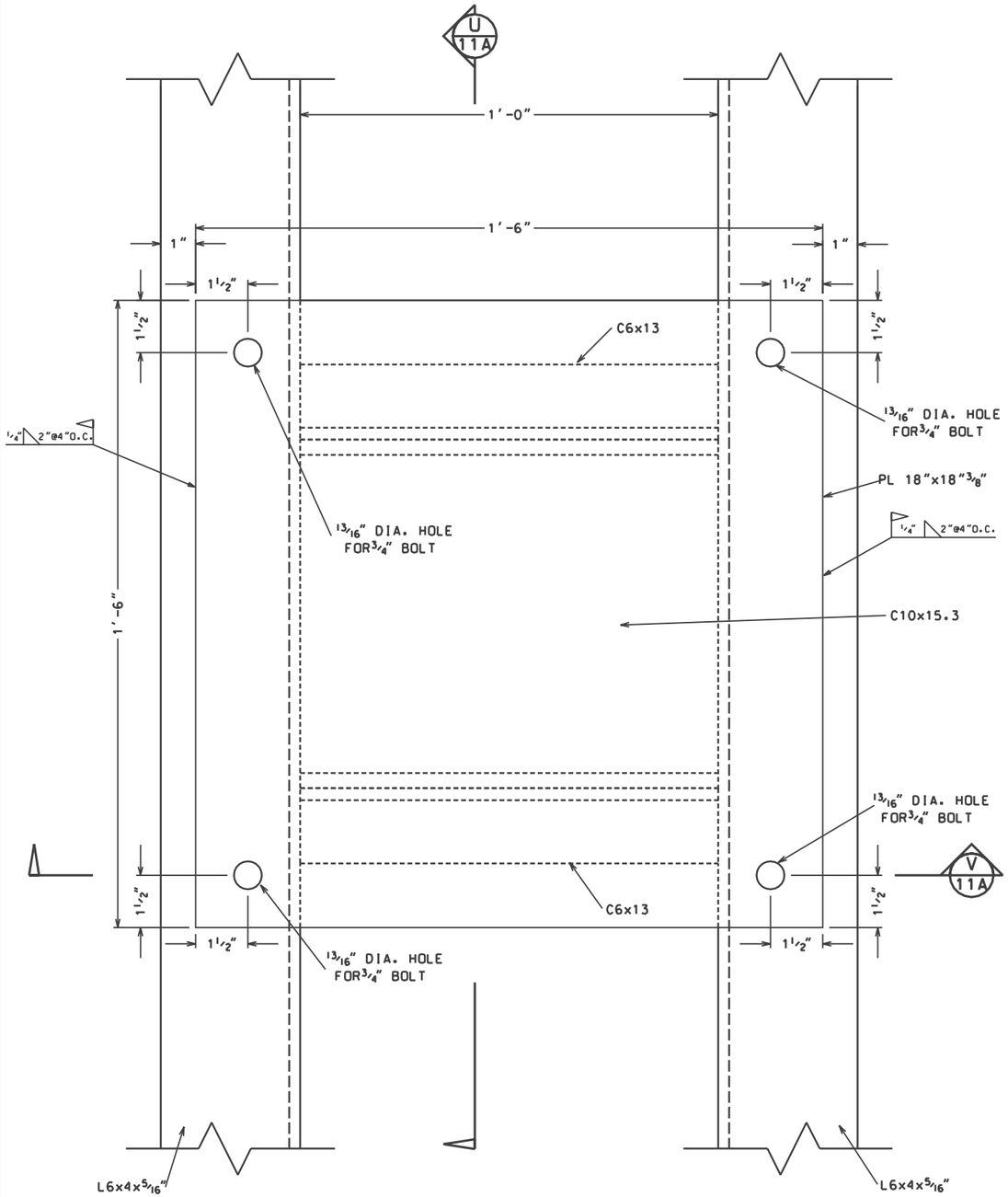
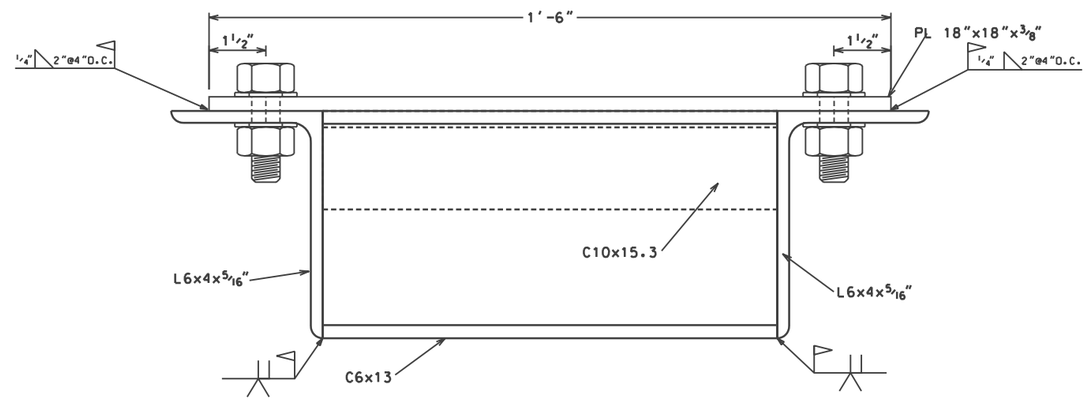
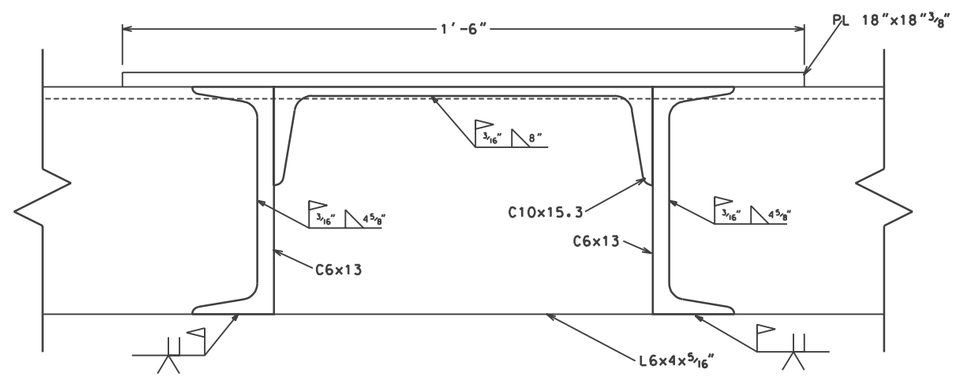
"AS-BUILT"




CRANE BASE PLATE SUPPORT
PLAN VIEW




SECTION AS SHOWN V 11A




SECTION AS SHOWN U 11A

NOTES:

1. STEEL SHEET PILING SHALL BE NOTCHED FOR L6x4x5/16" LEG TO PASS THROUGH CONTINUOUS.
2. CRANE BASE PIPE AND GUSSETS, SHEET PILING, L2x2x1/4" AND GRATING NOT SHOWN FOR CLARITY.

1 1/2 0 1
SCALE IN FEET

| | | Date |
|---|---|---|
| Designed | L.S. GARNER | 4/00 |
| Drawn | A.J. CREMILLION | 4/00 |
| Traced | | |
| Checked | J. MOORE | 4/00 |

Approved by State Conservation Engineer Alexandria, Louisiana — Title

CRANE BASE PLATE DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
|---|---|---|---|
| DATE | APPR. | TITLE | |
| 4/27/00 | E.G. | A.S.T.C. | MOD. #5 |

CAD FILE NO. LA271011A
DRAWING NO. LA 271
Sheet 11A OF 25

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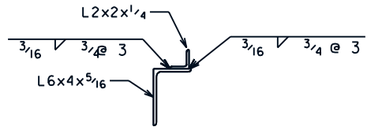
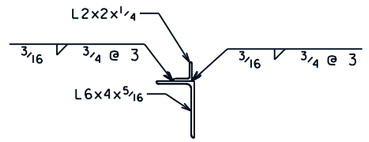
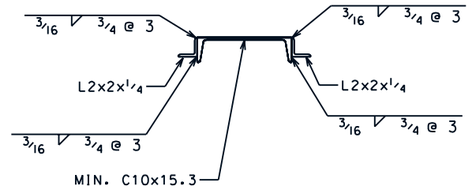


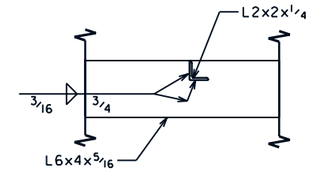

GRATING PAST PILE CONNECTION DETAIL (O / 11)




GRATING TO PILE CONNECTION DETAIL (P / 11)




GRATING TO CHANNEL CONNECTION DETAIL (Q / 11)

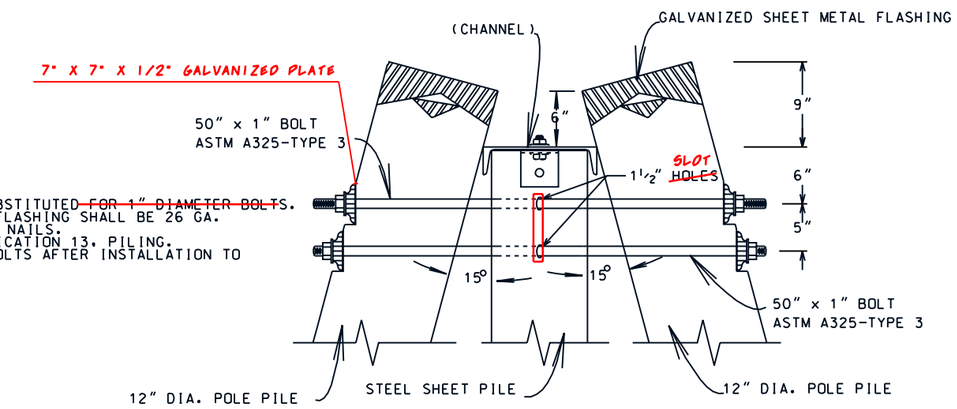



L2x2 TO L6x4 CONNECTION DETAIL (R / 11)

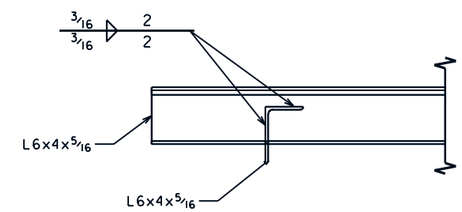
"AS-BUILT"

NOTES:

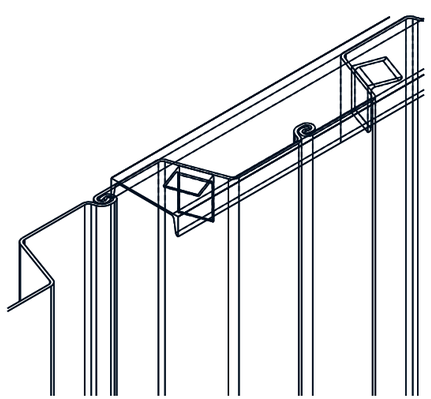
1. 1" ALL-THREAD MAY BE SUBSTITUTED ~~FOR 1" DIAMETER BOLTS~~.
2. GALVANIZED SHEET METAL FLASHING SHALL BE 26 GA. ATTACHED USING GALVANIZED NAILS.
3. SEE CONSTRUCTION SPECIFICATION 13. PILING.
4. TACK WELD ALL THROUGH BOLTS AFTER INSTALLATION TO PREVENT REMOVAL.




BATTER PILES SECTION (K / 9)

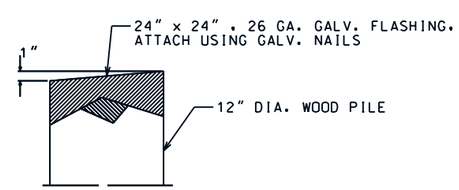



L6x4 (LOW) TO L6x4 (HIGH) CONNECTION DETAIL (S / 11)

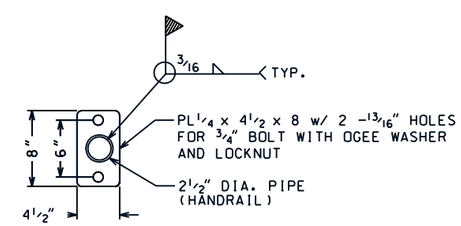


PILE CAP TO BE A MINIMUM C10x15.3 ATTACHED TO EACH SHEET PILE SECTION WITH ONE L6x4x5/16x0'-4 CLIP AT THE NEUTRAL AXIS OF EACH PILE. ATTACHED BY BOLTING OR WELDING AT CONTRACTOR'S OPTION. TWO FILLET WELDS 3/16"x3/4" OR ONE BOLT 3/4" DIA. EACH LEG. LONG SLOTS ACCEPTABLE WITH BOLTED CONNECTION. PILE CAP AND CLIPS TO BE ASTM A-572.GR 50 STEEL.

ISOMETRIC SHEET PILE CAP




TYPICAL WOOD PILE CAP




RAIL ATTACH. PLATE CONNECTION DETAIL (T / 13)

1 1/2 0 1
SCALE IN FEET

| | | | |
|---|---|---|---|
| Designed | S. GARNER | 03/98 | Date |
| Drawn | H. MOORE | 03/98 | |
| Traced | | | |
| Checked | J. MOORE | 10/98 | |

Approved by E.J.GIERING,III 10/98 Date
Title STATE CONSERVATION ENGINEER
Title

SITE 35 - STEEL DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE | APPR. | TITLE

CAD FILENAME LA271012
PROJECT NO. LA271
SHEET NO 12 OF 25

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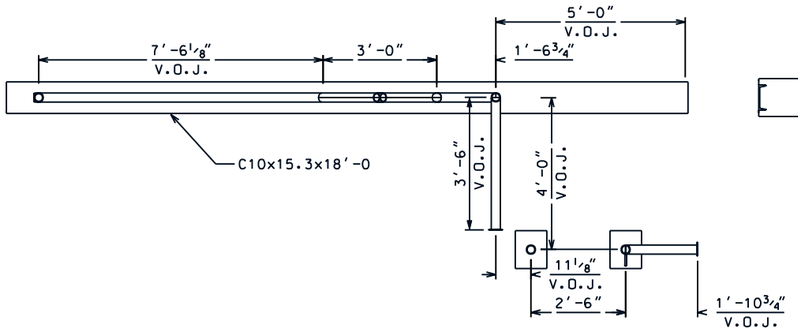
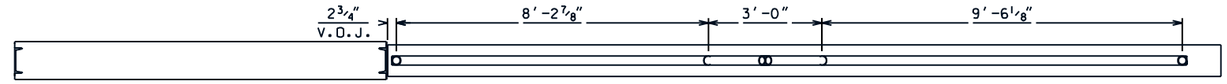
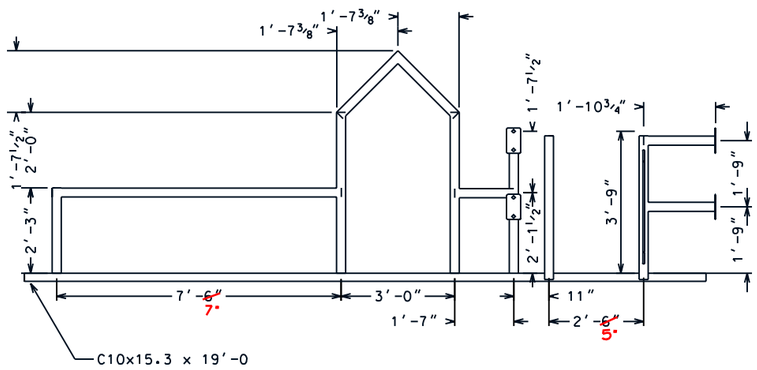
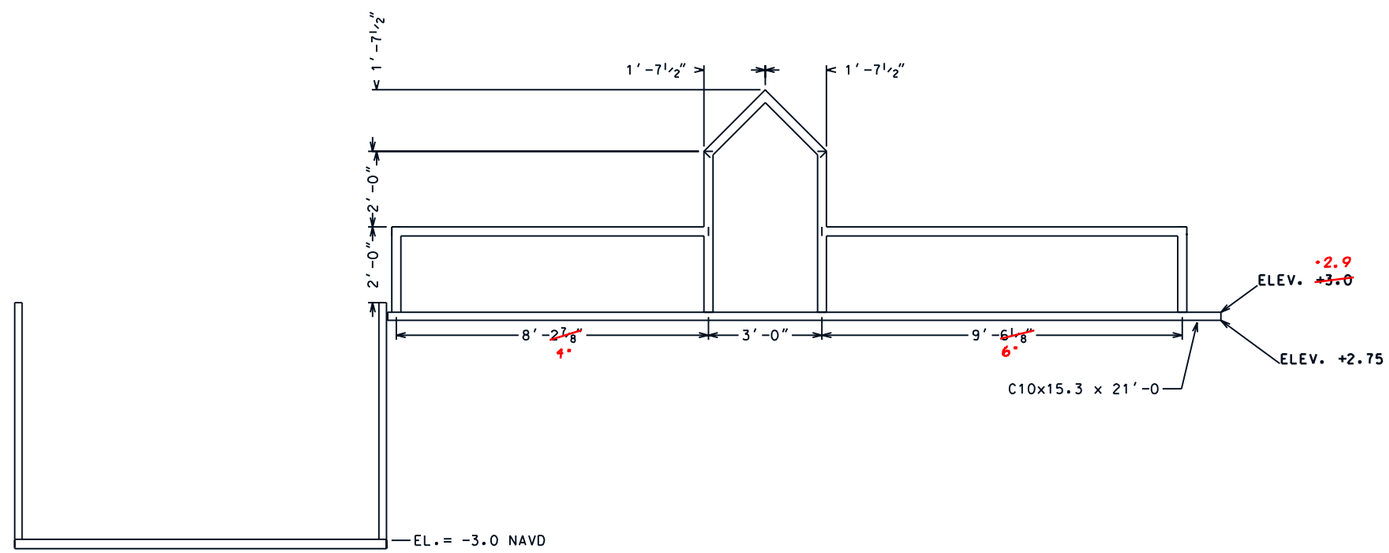


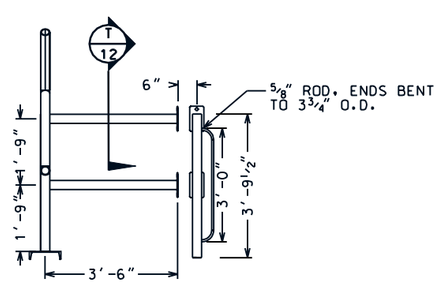

PIPE RAIL PLAN

"AS-BUILT"



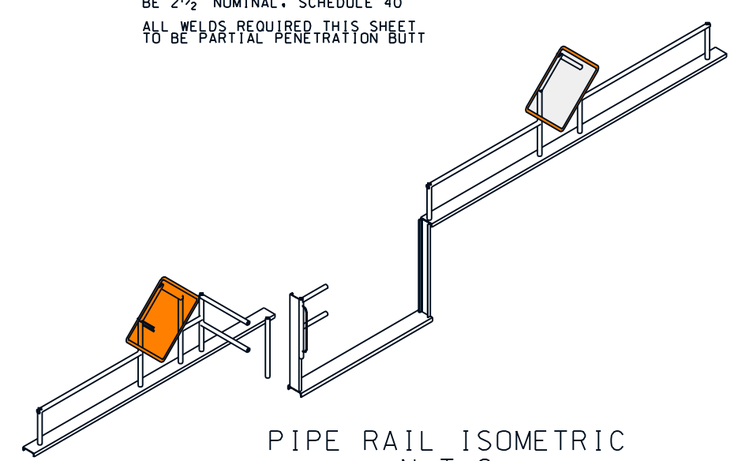

PIPE RAIL FRONT ELEVATION




PIPE RAIL LEFT ELEVATION

ALL PIPE SHOWN THIS SHEET TO BE 2 1/2" NOMINAL, SCHEDULE 40

ALL WELDS REQUIRED THIS SHEET TO BE PARTIAL PENETRATION BUTT



PIPE RAIL ISOMETRIC
N.T.S

1 0 1 2 3 4 5 6 7
SCALE IN FEET

| | | Date |
|---|---|---|
| Approved by | E.J.GIERING,III | 10/98 |
| Title | STATE CONSERVATION ENGINEER | |

| | | Date |
|---|---|---|
| Designed | S. GARNER | 03/98 |
| Drawn | H. MOORE | 03/98 |
| Traced | | |
| Checked | J. MOORE | 10/98 |

SITE 35 - PIPE RAIL
BA 2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |

CAD FILENAME
LA271013

PROJECT NO.
LA271

SHEET NO 13 OF 25

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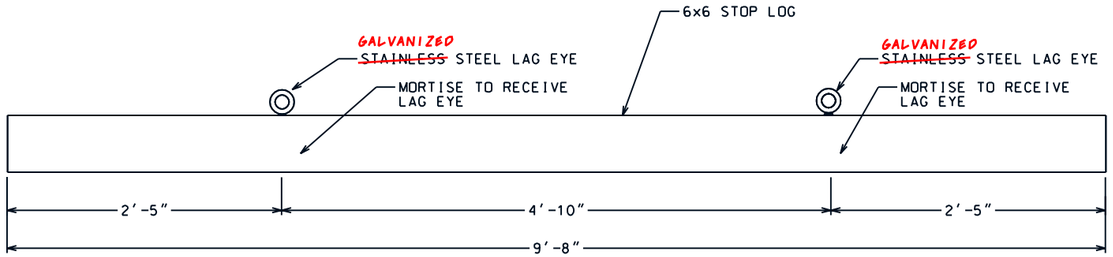
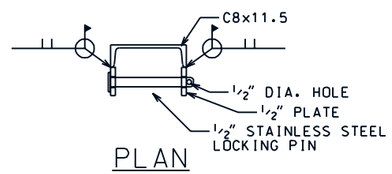
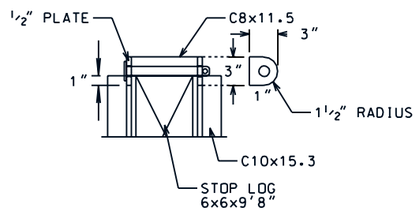



STOP LOG
(~~8~~ 12 REQUIRED)

"AS-BUILT"

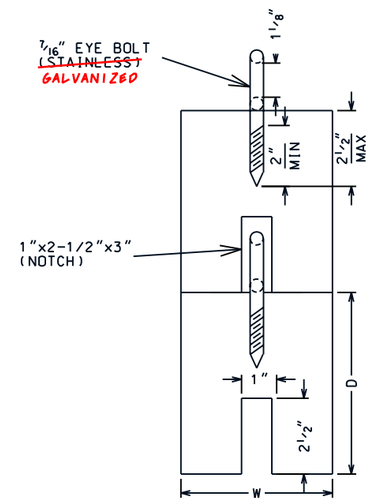



PLAN



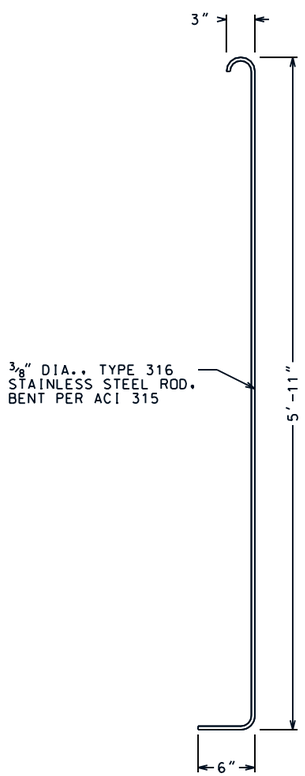

ELEVATION
STOP LOG LOCKING MECHANISM (2 REQ.)

0 3 6 9 12
SCALE IN INCHES

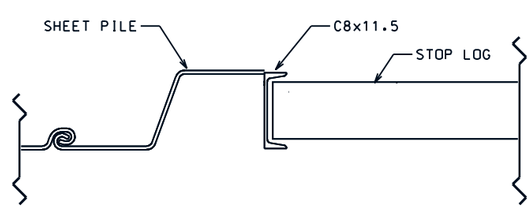



DETAILS OF
7/16" EYE BOLT

Hand winch shall be rated at 1500 lbs minimum and shall be stainless steel and include an automatic brake. Winch shall be configured for right-handed operators. and attached according to Manufacturer's recommendations. Hand winch shall have a lock-down device to prevent un-authorized operation. Contractor shall provide shop drawings of the hand winch including all connections. prior to ordering and a minimum of 14 days prior to installation. Winch cable shall be 316 grade 1/4 inch stainless steel. and shall be a minimum of 28 ft in length. Thread winch cable through center link of lift hook chain and secure with four stainless steel cable clamps Crane mast and boom shall have 360 degree operation capability. Crane boom shall be adjustable and include a ratchet style screw-jack
Crane base plate shall be 3/8 inch thick. 18 inch square. gusseted base plate.



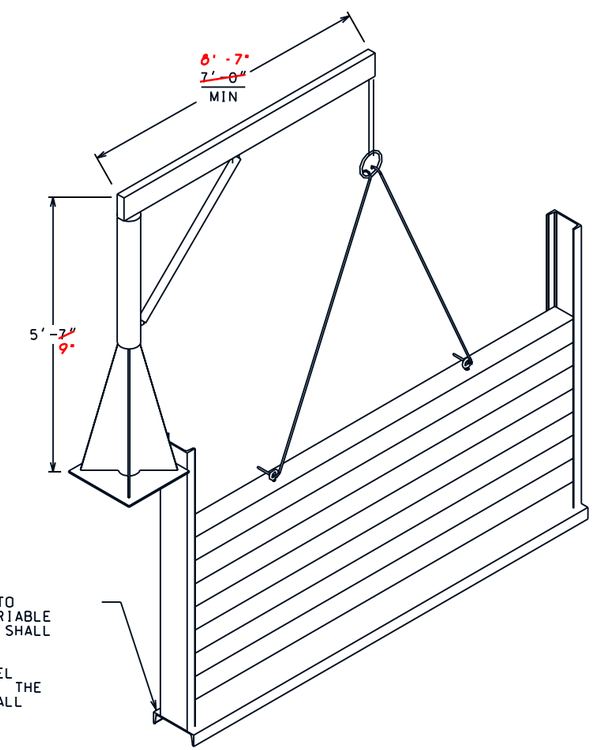

STOP LOG
HOOK
(2 REQUIRED)




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 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 FABRICATION. THE CONTRACTOR MAY REQUEST THE ASSISTANCE OF THE NRCS STATE DESIGN STAFF WHEN DEVELOPING THIS CONNECTION.

STOP LOG
GUIDE

CONNECTION OF CHANNEL CAP TO SHEET PILE AT BOTTOM OF VARIABLE CREST WEIR FOR WEIR NO. 35 SHALL BE MADE AS FOLLOWS: THE L6x4x5/16" SHALL BE WELDED TO THE BOTTOM OF THE CHANNEL CAP PRIOR TO INSTALLATION. THE HOLES IN THE SHEET PILE SHALL BE FIELD DRILLED.




ISOMETRIC
STOP LOGS
& CRANE

1 1/2 0 1
SCALE IN FEET

| | | Date |
|---|---|---|
| Designed | S. GARNER | 03/98 |
| Drawn | H. MOORE | 03/98 |
| Traced | | |
| Checked | J. MOORE | 10/98 |

Approved by E.J. GERING III 10/98
Title STATE CONSERVATION ENGINEER
Title

SITE 35 - STOP LOG DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE | APPR. | TITLE

CAD FILENAME
LA271014

PROJECT NO.
LA271

SHEET NO 14 OF 25

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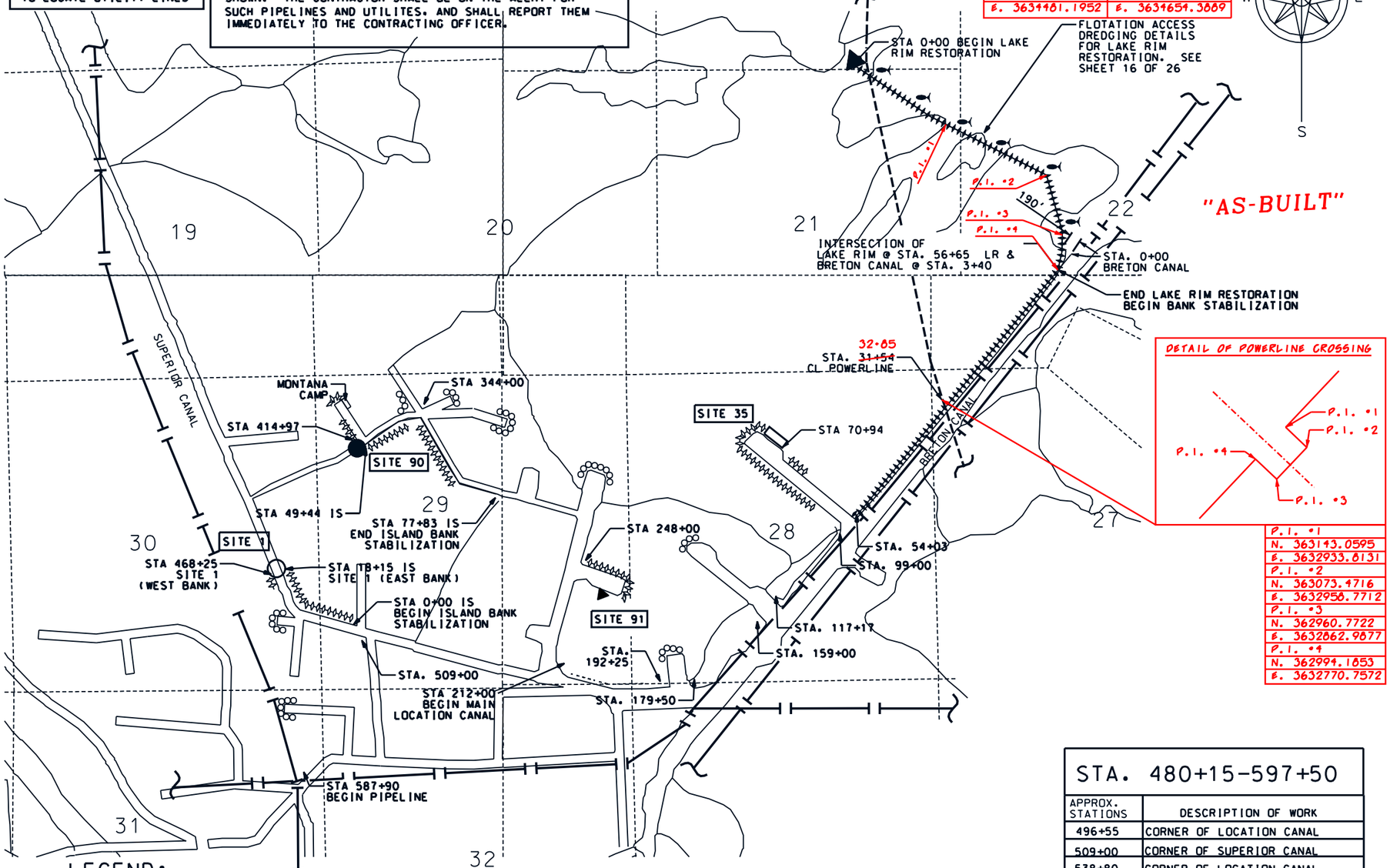
## NOTICE:

48 HOURS BEFORE DIGGING OR PLACING ROCK CALL 1-800-272-3020 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 UTILITES. AND SHALL REPORT THEM IMMEDIATELY TO THE CONTRACTING OFFICER.




### COORDINATES FOR P.I.'S ON LAKE RIM

| | |
|---|---|
| P.I. #1 | P.I. #3 |
| N. 367987.2028 | N. 366014.3757 |
| E. 3632435.8089 | E. 3631729.6613 |
| P.I. #2 | P.I. #4 |
| N. 366959.0865 | N. 365336.7883 |
| E. 3631481.1952 | E. 3631651.3889 |

### DETAIL OF POWERLINE CROSSING




| | |
|---|---|
| P.I. #1 | |
| N. 363143.0595 | |
| E. 3632933.8131 | |
| P.I. #2 | |
| N. 363073.4716 | |
| E. 3632958.7712 | |
| P.I. #3 | |
| N. 362960.7722 | |
| E. 3632862.9877 | |
| P.I. #4 | |
| N. 362994.1653 | |
| E. 3632770.7572 | |

## LAKE RIM RESTORATION

| APPROX. STATIONS | DESCRIPTION OF WORK |
|---|---|
| 0+00 | BEGIN LAKE RIM SHORELINE PROTECTION WITH RIPRAP CAP |
| 2+00 | ~~TYPE B III SIGN~~ |
| 3+59 | END TRANSITION BEGIN TYPICAL |
| 5+00 | CL FISH DIP @ TYPE B III SIGN |
| 7+00 | ~~TYPE B III SIGN~~ |
| ~~8+00~~ 9+00 | SETTLEMENT PLATE @ TYPE B III SIGN |
| 12+00 | ~~TYPE B III SIGN~~ |
| 13+00 | CL FISH DIP @ TYPE B III SIGN |
| 17+00 | ~~TYPE B III SIGN~~ |
| 20+00 | CL FISH DIP @ TYPE B III SIGN |
| 22+00 | ~~TYPE B III SIGN~~ |
| 24+00 | SETTLEMENT PLATE @ TYPE B III SIGN |
| 27+00 | ~~TYPE B III SIGN~~ |
| 28+00 | CL FISH DIP @ TYPE B III SIGN |
| 32+00 | TYPE B III SIGN & SETTLEMENT PLATE |
| 36+00 | CL FISH DIP @ TYPE B III SIGN |
| 37+00 | ~~TYPE B III SIGN~~ |
| 42+00 | TYPE B III SIGN & SETTLEMENT PLATE |
| 47+00 | ~~TYPE B III SIGN~~ |
| 48+00 | CL FISH DIP @ TYPE B III SIGN |
| 52+00 | TYPE B III SIGN & SETTLEMENT PLATE |
| 56+65 | END LAKE RIM SHORELINE AND TIE INTO BRETON CANAL SHORE-LINE AT STA. 3+40 |

## BANK STABILIZATION

| APPROX. STATIONS | DESCRIPTION OF WORK |
|---|---|
| 03+40 | BEGIN ALONG BRETON CANAL TO SITE 35 |
| ~~31+54~~ 32+85 | CL OF POWERLINE |
| 54+03 | BEGIN LOCATION CANAL |
| 70+94 | BEGIN SITE 35 |
| 71+74 | END SITE 35 |
| 99+00 | END LOCATION CANAL |
| 117+17 | BEGIN LOCATION CANAL |
| 159+00 | END LOCATION CANAL |
| 179+50 | BEGIN LOCATION CANAL |
| 192+25 | END LOCATION CANAL |
| 212+00 | BEGIN MAIN LOCATION CANAL |
| 231+00 | BEGIN LOCATION CANAL |
| 232+29 | BEGIN SITE 91(EXISTING SITE) |
| 232+93 | END SITE 91 |
| 248+00 | END LOCATION CANAL |
| 264+82 | BEGIN LOCATION CANAL |
| 273+25 | END LOCATION CANAL |
| 280+87 | BEGIN LOCATION CANAL |
| 293+66 | END LOCATION CANAL |
| 322+00 | BEGIN LOCATION CANAL |
| 331+34 | END LOCATION CANAL |
| 344+00 | PT.BETWEEN 2 LOCATION CANALS |
| 347+14 | END LOCATION CANAL |
| 392+30 | BEGIN LOCATION CANAL |
| 399+50 | BEGIN MONTANA CAMP - NO WORK |
| 402+17 | END MONTANA CAMP |
| 413+80 | END LOCATION CANAL |
| 414+97 | BEGIN SITE 90. END WORK |
| 414+97-468+25 | NO WORK TO BE PERFORMED |
| 468+25 | BEGIN AT SITE 1 (WEST SIDE) |
| 479+65 | CORNER OF DEAD END CANAL |

## STA. 480+15-597+50

| APPROX. STATIONS | DESCRIPTION OF WORK |
|---|---|
| 496+55 | CORNER OF LOCATION CANAL |
| 509+00 | CORNER OF SUPERIOR CANAL |
| 538+80 | CORNER OF LOCATION CANAL |
| 542+38 | BEGIN LOCATION CANAL |
| 573+20 | END LOCATION CANAL |
| 587+90 | BEGIN EXXON/SHELL PIPELINE |
| 590+40 | END EXXON/SHELL PIPELINE |
| 597+50-660+00 | NO WORK PERFORMED |

## LEGEND:

- SITE NO. — SITE NUMBER
- AERIAL POWERLINE
- PIPELINE
- EXISTING SITES
- PROPOSED PLUG W/BOAT BAY
- PROPOSED VARIABLE CREST WEIR
- PROPOSED CHANNEL PLUG
- (6) LAND OWNERS
- RIPRAP CAPPED SHORELINE PROTECTION
- SHORELINE PROTECTION
- SHORELINE PROTECTION (ADDITIVE A)
- FISH DIP LOCATIONS

## NOTE:

Stations Are Approximate As Measured From Aerial Photographs And Are Subject To Change. Exact Stationing To Be Determined Between Hydraulic Control Points In The Field By The COTR

SCALE IN FEET: 1000 0 1000 2000 3000 4000

SCALE IN MILES: 1/4 1/8 0 1/2

## ISLAND-BANK STABILIZATION

| APPROX. STATIONS | DESCRIPTION OF WORK |
|---|---|
| 0+00 IS | BEGIN ISLAND TO SITE 1 STATIONING |
| 18+15 IS | END EMBANKMENT AT SITE 1 (EAST BANK) |
| STA.18+15-49+44 NO WORK TO BE PERFORMED | |
| 49+44 IS | BEGIN EMBANKMENT AT SITE 90 ON ISLAND SIDE (SOUTH SIDE) |
| 77+83 IS | END EMBANKMENT (ISLAND SIDE) |

Date mm/yy

Approved by E.J. GERING, III Date 02/98

Title STATE CONSERVATION ENGINEER ALEXANDRIA, LOUISIANA

Designed S. GARNER Date 02/98

Drawn P.C. & H.M.

Traced

Checked J. MOORE Date 04/98

Title

# LAKE RIM RESTORATION & BANK STABILIZATION

## BA2 CONSTRUCTION UNIT 2

## LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |
| 4/23/99 | E.G. | ASTC/ES |

CAD FILENAME LA271015

PROJECT NO. LA271

SHEET NO 15 OF 25

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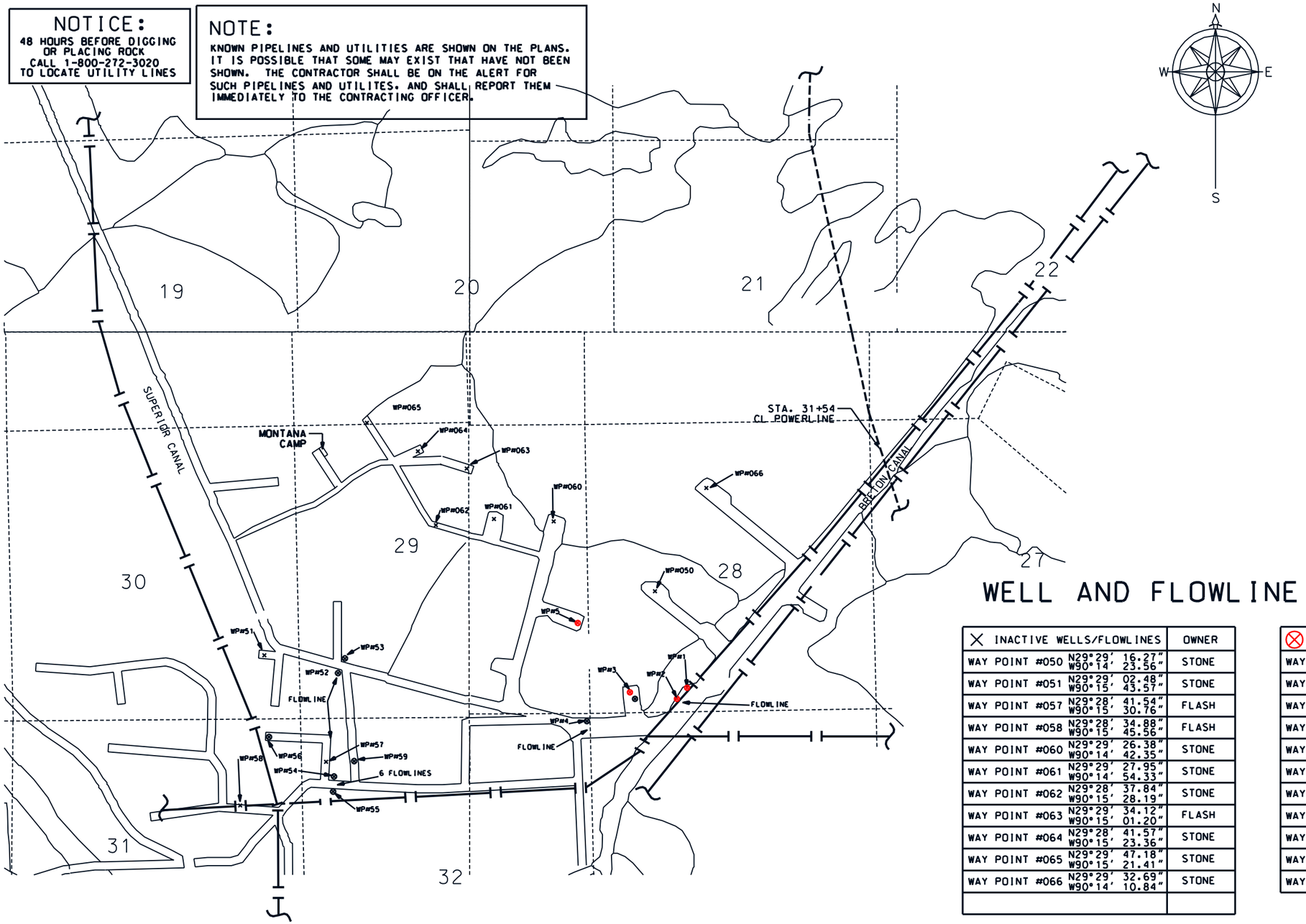
**NOTICE:**
48 HOURS BEFORE DIGGING OR PLACING ROCK CALL 1-800-272-3020 TO LOCATE UTILITY LINES

**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 UTILITES. AND SHALL REPORT THEM IMMEDIATELY TO THE CONTRACTING OFFICER.

"AS-BUILT"




## UTILITIES PLAN MAP
(SCALE AS SHOWN)

SCALE IN FEET
1000 0 1000 2000 3000 4000
1/4 1/8 0 1/2
SCALE IN MILES

## WELL AND FLOWLINE INFORMATION

| ✕ INACTIVE WELLS/FLOWLINES | | OWNER |
|---|---|---|
| WAY POINT #050 | N29°29' 16.27" W90°14' 23.56" | STONE |
| WAY POINT #051 | N29°29' 02.48" W90°15' 43.57" | STONE |
| WAY POINT #057 | N29°28' 41.54" W90°15' 30.76" | FLASH |
| WAY POINT #058 | N29°28' 34.88" W90°15' 45.56" | FLASH |
| WAY POINT #060 | N29°29' 26.38" W90°14' 42.35" | STONE |
| WAY POINT #061 | N29°29' 27.95" W90°14' 54.33" | STONE |
| WAY POINT #062 | N29°28' 37.84" W90°15' 28.19" | STONE |
| WAY POINT #063 | N29°29' 34.12" W90°15' 01.20" | FLASH |
| WAY POINT #064 | N29°28' 41.57" W90°15' 23.36" | STONE |
| WAY POINT #065 | N29°29' 47.18" W90°15' 21.41" | STONE |
| WAY POINT #066 | N29°29' 32.69" W90°14' 10.84" | STONE |
| | | |

| ⊗ LIVE WELLS / FLOWLINES | | OWNER |
|---|---|---|
| WAY POINT #1 | N29°28' 54.95" W90°14' 17.76" | STONE |
| WAY POINT #2 | N29°28' 52.70" W90°14' 18.35" | STONE |
| WAY POINT #3 | N29°28' 56.11" W90°14' 25.69" | STONE |
| WAY POINT #4 | N29°28' 51.40" W90°14' 35.09" | STONE |
| WAY POINT #5 | N29°29' 08.40" W90°14' 38.14" | STONE |
| WAY POINT #052 | N29°28' 59.06" W90°15' 26.61" | |
| WAY POINT #053 | N29°29' 01.42" W90°15' 25.95" | |
| WAY POINT #054 | N29°28' 39.85" W90°15' 28.04" | |
| WAY POINT #055 | N29°28' 37.84" W90°15' 28.19" | |
| WAY POINT #056 | N29°28' 48.20" W90°15' 40.29" | FLASH |
| WAY POINT #059 | N29°28' 41.57" W90°15' 23.36" | FLASH |

Date
Approved by E.J. GERING, III mm/yy
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA

Date
Designed S. GARNER 02/98
Drawn A. GREMILLION 02/98
Traced
Checked J. MOORE 04/98

UTILITIES PLAN MAP
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |
| 4/23/99 | E.G. | ASTC/ES |

CAD FILENAME
LA271015A
PROJECT NO.
LA271
SHEET NO 15 OF 25

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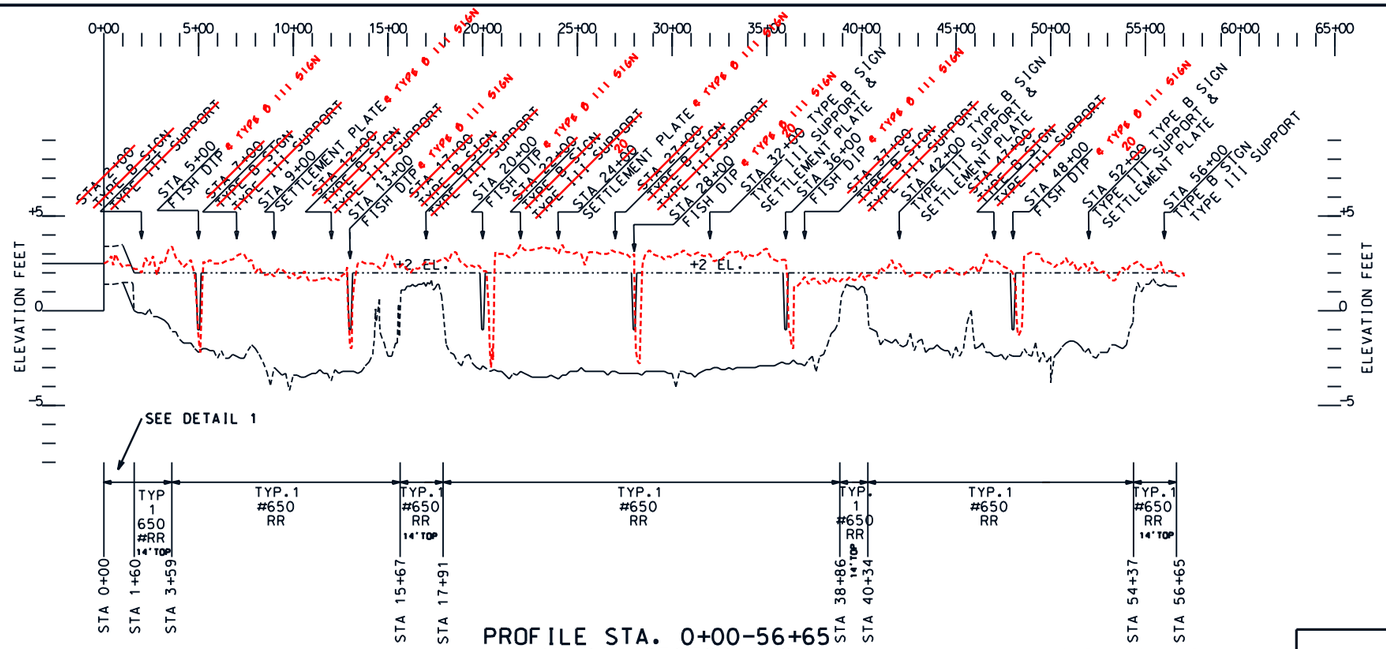


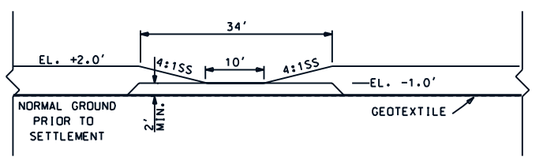

PROFILE STA. 0+00-56+65
LAKE RIM RESTORATION

| CONSTRUCTION LIMITS | | |
|---|---|---|
| CONSTRUCTION WIDTH | CONSTRUCTION LENGTH | |
| 600 FT | 6000 FT | |
| ~~ESTIMATED~~ | QUANTITIES | ACTUAL QUANTITIES |
| ROCK RIPRAP (650#) | ~~35,105~~ TONS | 24,584 TONS |
| ROCKFILL | ~~10,235~~ TONS | 11,972 TONS |
| GEOTEXTILE | ~~20,810~~ SY | 27,546.5 SY |
| EXCAVATION | 33,240 CY | |

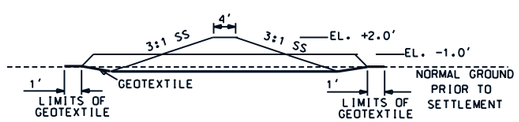
NOTES:

1. SIGNS NOT SHOWN FOR CLARITY. SIGNS SHALL BE TYPE B AND SIGN SUPPORTS SHALL BE AS NOTED. SEE SHEETS 23, 24, & 25 FOR SIGN DETAILS
2. BEGIN PLACING SIGNS AT STA. 2+00 AND PLACE EVERY 500 FEET.
3. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
4. ALL SECTIONS WITH EXCAVATION REQUIRE A MINIMUM OF 2 FT. OF ROCK RIPRAP (650#).
5. TYPE III SIGN SUPPORTS TO BE PLACED 10 FT. FROM BAY L'OURS TOE OF STRUCTURE.
6. SEE SHEET 22 FOR TYPICAL X-SECTIONS

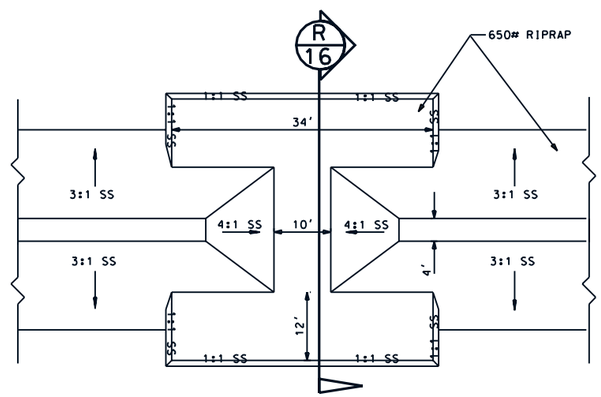
"AS-BUILT"




FISH DIP ELEVATION



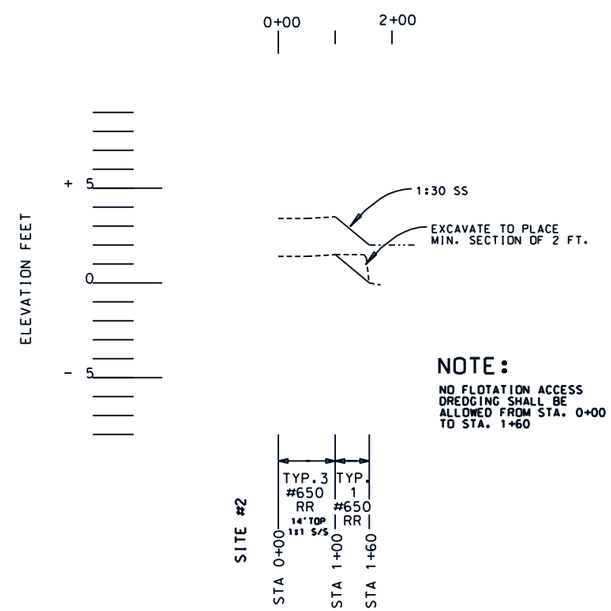

FISH DIP SECTION R 16




FISH DIPS PLAN

COORDINATES ON WARNING SIGNS, SETTLEMENT PLATES AND POINTS OF INTEREST

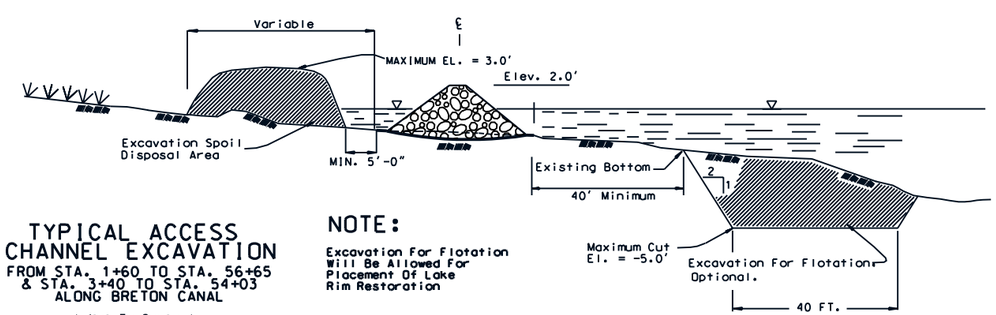
| |
|---|
| WARNING SIGN AT STA 5+00 |
| N. 368711.9996 |
| E. 3631430.3157 ELEV. -9.85 |
| SETTLEMENT PLATE AT STA 9+20 |
| N. 368451.0246 |
| E. 3631753.7593 ELEV. -8.66 |
| WARNING SIGN AT STA 9+20 |
| N. 368476.2000 |
| E. 3631770.7491 ELEV. -9.95 |
| WARNING SIGN AT STA 13+00 |
| N. 368251.4588 |
| E. 3632099.6947 ELEV. -10.07 |
| WARNING SIGN AT STA 20+00 |
| N. 367877.7886 |
| E. 3632716.7509 ELEV. -10.11 |
| SETTLEMENT PLATE AT STA 24+20 |
| N. 367683.4685 |
| E. 3633032.6942 ELEV. -8.36 |
| WARNING SIGN AT STA 24+20 |
| N. 367707.7581 |
| E. 3633046.9370 ELEV. -10.26 |
| WARNING SIGN AT STA 28+00 |
| N. 367529.7784 |
| E. 3633396.7166 ELEV. -10.19 |
| SETTLEMENT PLATE AT STA 32+20 |
| N. 367324.4606 |
| E. 3633748.4799 ELEV. -8.94 |
| WARNING SIGN AT STA 32+20 |
| N. 367349.2443 |
| E. 3633758.6180 ELEV. -9.99 |
| WARNING SIGN AT STA 36+00 |
| N. 367160.4409 |
| E. 3634129.7333 ELEV. -9.95 |
| SETTLEMENT PLATE AT STA 42+20 |
| N. 366766.0405 |
| E. 3634514.8559 ELEV. -9.78 |
| WARNING SIGN AT STA 42+20 |
| N. 366 |
| E. 3634543.1692 ELEV. -9.94 |
| WARNING SIGN AT STA 48+00 |
| N. 366191.3774 |
| E. 3634721.1976 ELEV. -10.02 |
| SETTLEMENT PLATE AT STA 52+20 |
| N. 365798.7344 |
| E. 3634711.3659 ELEV. -9.63 |
| WARNING SIGN AT STA 52+20 |
| N. 365793.7054 |
| E. 3634741.0861 ELEV. -9.96 |
| WARNING SIGN AT STA 56+00 |
| N. 365398.6815 |
| E. 3634682.4388 ELEV. -10.09 |




NOTE:
NO FLOTATION ACCESS DREDGING SHALL BE ALLOWED FROM STA. 0+00 TO STA. 1+60

DETAIL 1

STA. 0+00-1+60




TYPICAL ACCESS CHANNEL EXCAVATION
FROM STA. 1+60 TO STA. 56+65 & STA. 3+40 TO STA. 54+03 ALONG BRETON CANAL
( Not To Scale )

NOTE:
Excavation For Flotation Will Be Allowed For Placement Of Lake Rim Restoration

Approved by E. J. DERING, III. Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed S. GARNER 3/98
Drawn A.G., P.C. 3/98
Traced
Checked J. MOORE 6/98

LAKE RIM SHORELINE PROTECTION
PROFILE AND FISH DIP DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE | APPR. | TITLE

CAD FILENAME
LA271016

PROJECT NO.
LA271

SHEET NO 16 OF 25

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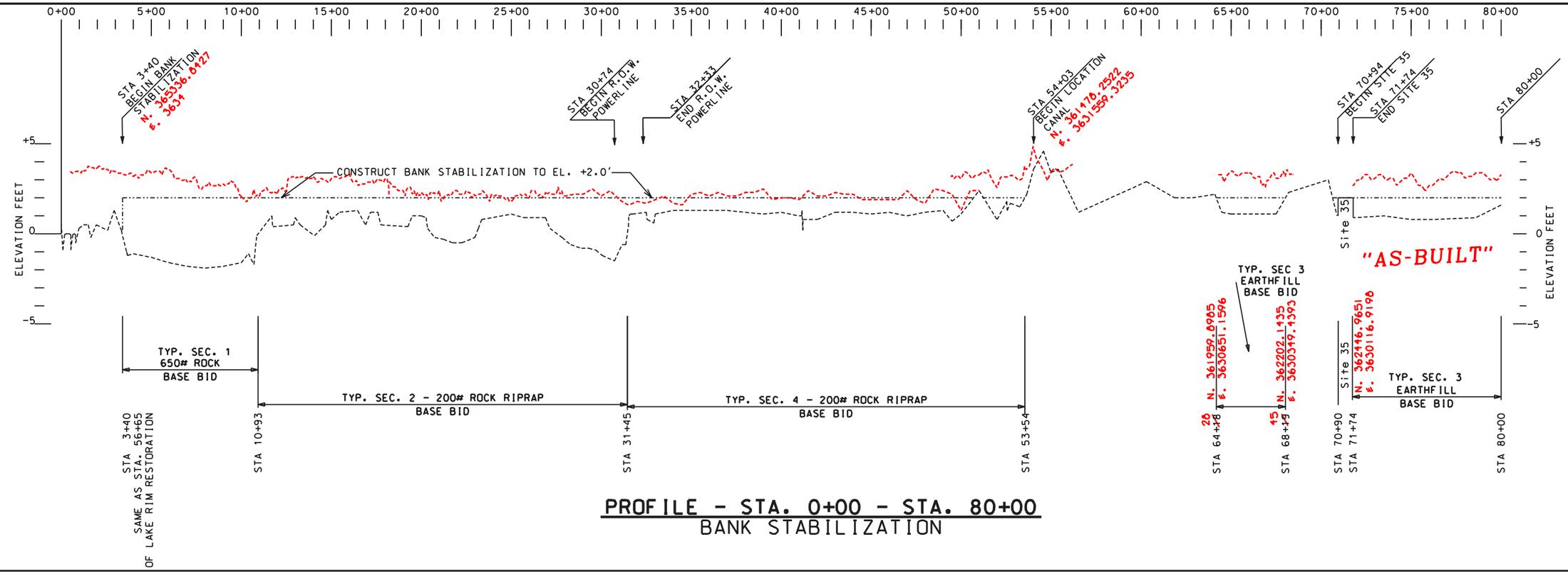
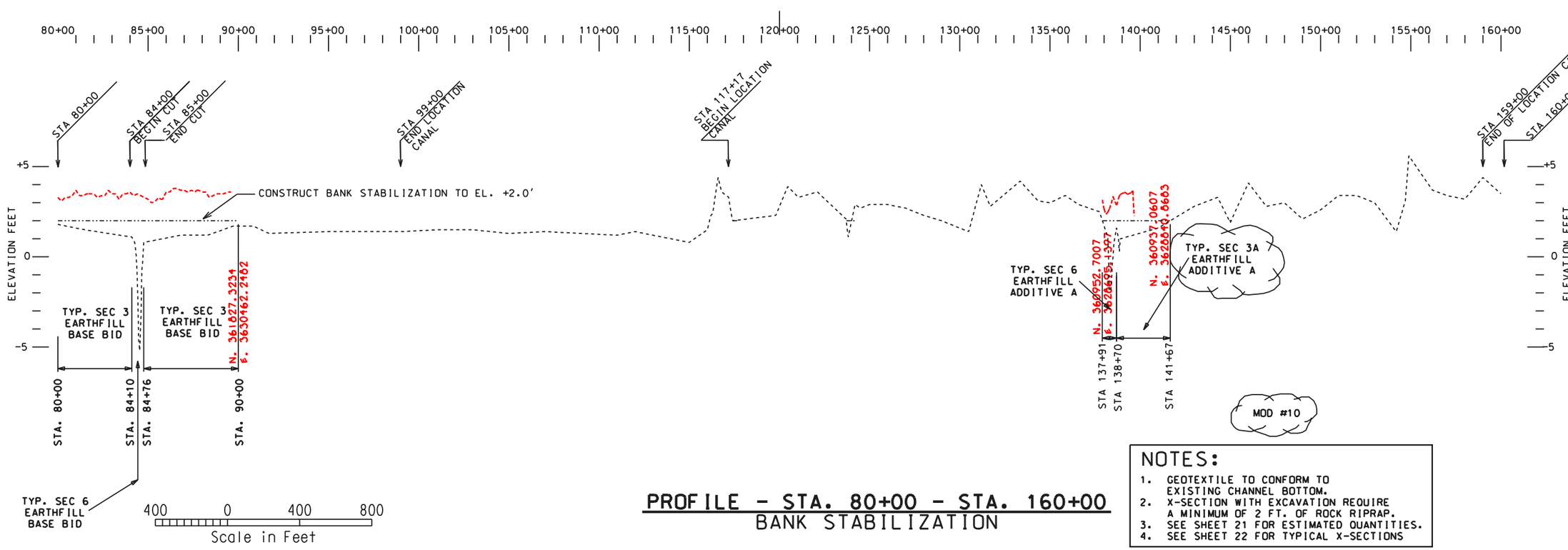



## PROFILE - STA. 0+00 - STA. 80+00
BANK STABILIZATION




## PROFILE - STA. 80+00 - STA. 160+00
BANK STABILIZATION

### NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. X-SECTION WITH EXCAVATION REQUIRE A MINIMUM OF 2 FT. OF ROCK RIPRAP.
3. SEE SHEET 21 FOR ESTIMATED QUANTITIES.
4. SEE SHEET 22 FOR TYPICAL X-SECTIONS

| | | | |
|---|---|---|---|
| Approved by E.J. DIRUNG, III | Title STATE CONSERVATION ENGINEER | Date | |
| | ALEXANDRIA, LOUISIANA | | |
| Designed S. GARNER | Date 03/98 | | |
| Drawn PAT COLE | Date 03/98 | | |
| Traced | | | |
| Checked J. MOORE | Date 04/98 | | |

PROFILE - BANK STABILIZATION
STA 0+00-160+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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| 12/6/99 | E.G. | ASTC/ES |
| 6/15/00 | E.G. | ASTC/ES |

CAD FILENAME LA271017

PROJECT NO. LA271

SHEET NO 17 OF 25

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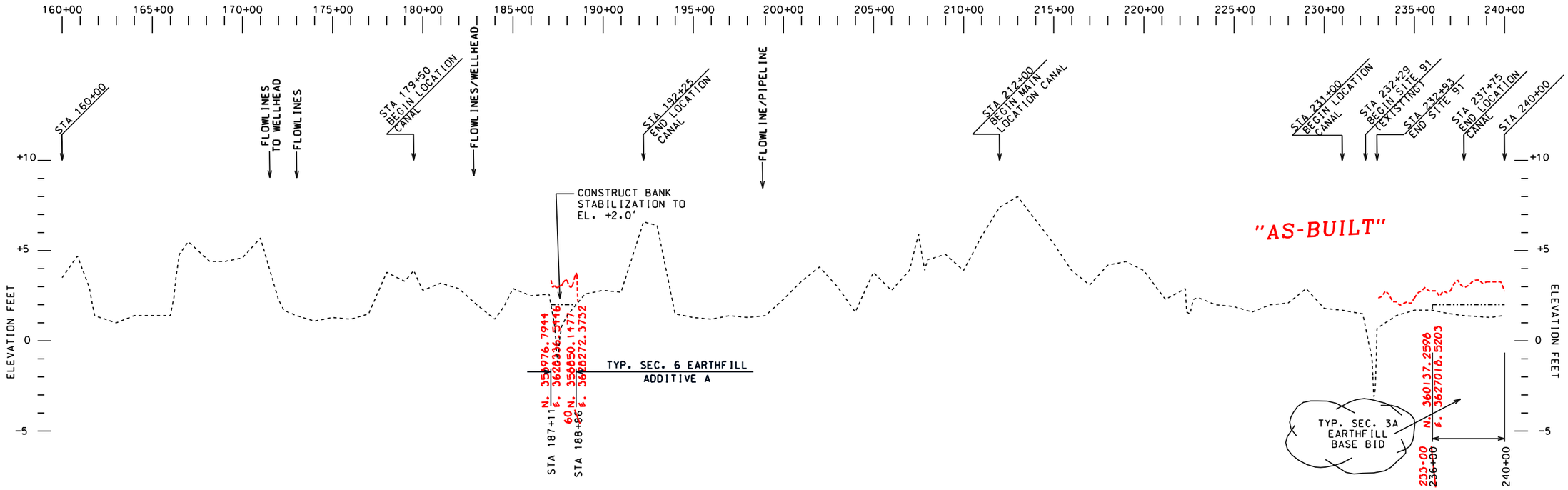
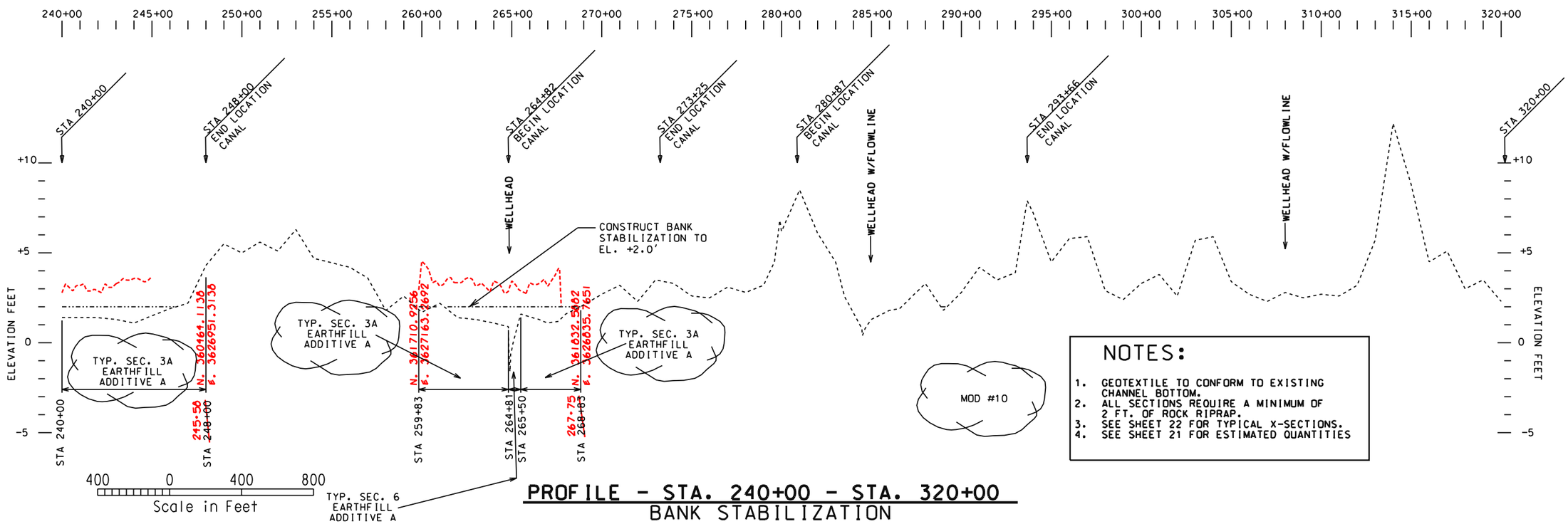



## PROFILE - STA. 160+00 - STA. 240+00
BANK STABILIZATION




## PROFILE - STA. 240+00 - STA. 320+00
BANK STABILIZATION

### NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. ALL SECTIONS REQUIRE A MINIMUM OF 2 FT. OF ROCK RIPRAP.
3. SEE SHEET 22 FOR TYPICAL X-SECTIONS.
4. SEE SHEET 21 FOR ESTIMATED QUANTITIES

Approved by E.J. CUERING, III — Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed S. GARNER — Date 03/98
Drawn A.G. & P.C. — 03/98
Traced
Checked J. MOORE — 04/98

PROFILE - BANK STABILIZATION
STA. 160+00 - STA. 320+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS

| DATE | APPR. | TITLE |
|---|---|---|
| 4/23/99 | E.G. | ASTC/ES |
| 12/8/99 | E.G. | ASTC/ES |
| 6/15/00 | E.G. | ASTC/ES |

CAD FILENAME LA271018
PROJECT NO. LA271
SHEET NO 18 OF 25

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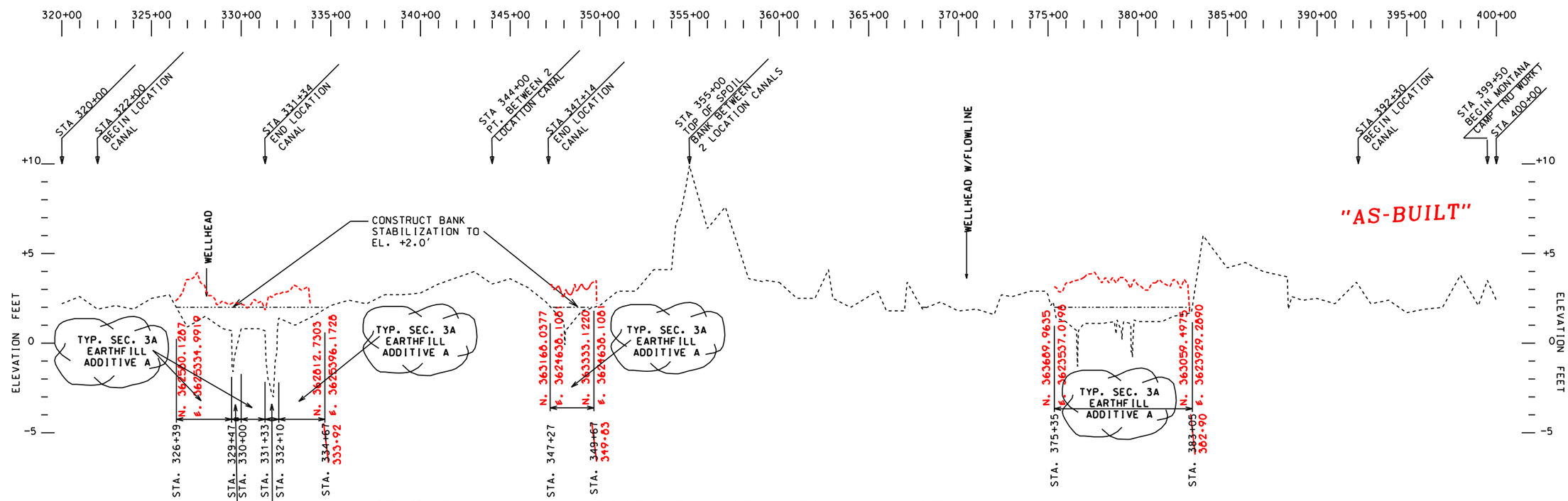
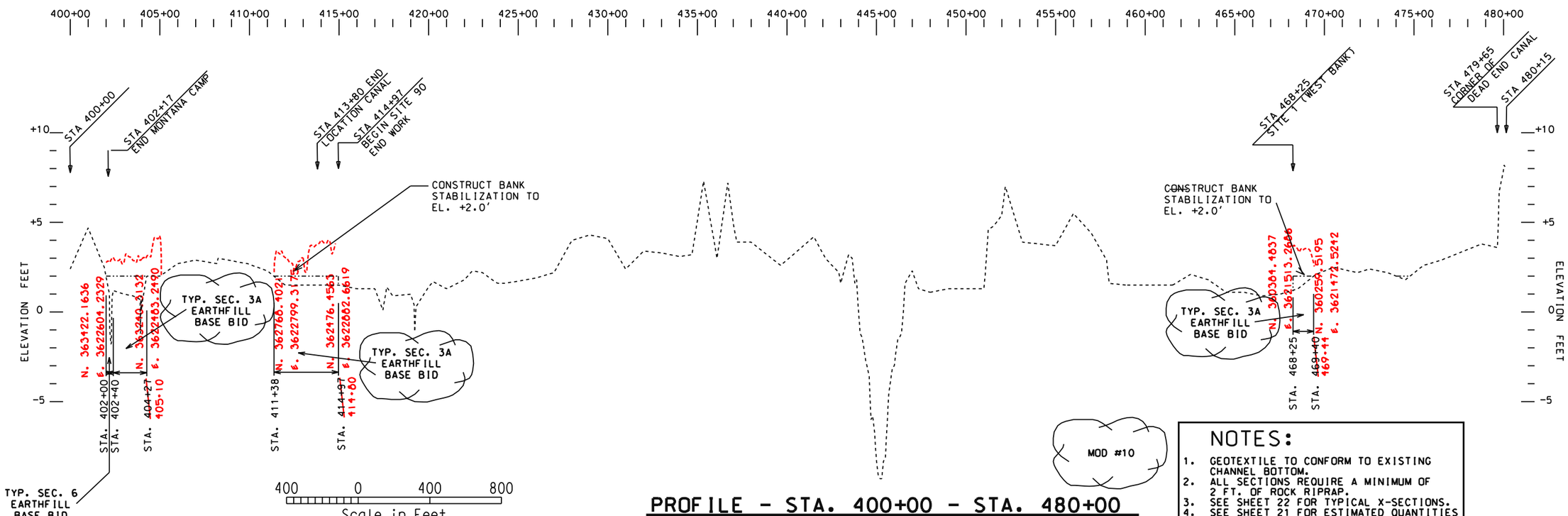



## PROFILE - STA. 320+00 - STA. 400+00
BANK STABILIZATION




## PROFILE - STA. 400+00 - STA. 480+00
BANK STABILIZATION

### NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. ALL SECTIONS REQUIRE A MINIMUM OF 2 FT. OF ROCK RIPRAP.
3. SEE SHEET 22 FOR TYPICAL X-SECTIONS.
4. SEE SHEET 21 FOR ESTIMATED QUANTITIES

| | | Date |
|---|---|---|
| Approved by E.J. GIERING, III | | |
| Title | STATE CONSERVATION ENGINEER | |
| | ALEXANDRIA, LOUISIANA | |
| Designed | S. GARNER | 03/98 |
| Drawn | A.G. & P.C. | 03/98 |
| Traced | | |
| Checked | J. MOORE | 04/98 |
| Title | | |

PROFILE - BANK STABILIZATION
STA. 320 - STA. 480+15
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |
| 6/15/00 | E.G. | ASTC/ES |

CAD FILENAME
LA271019

PROJECT NO.
LA271

SHEET NO 19 OF 25

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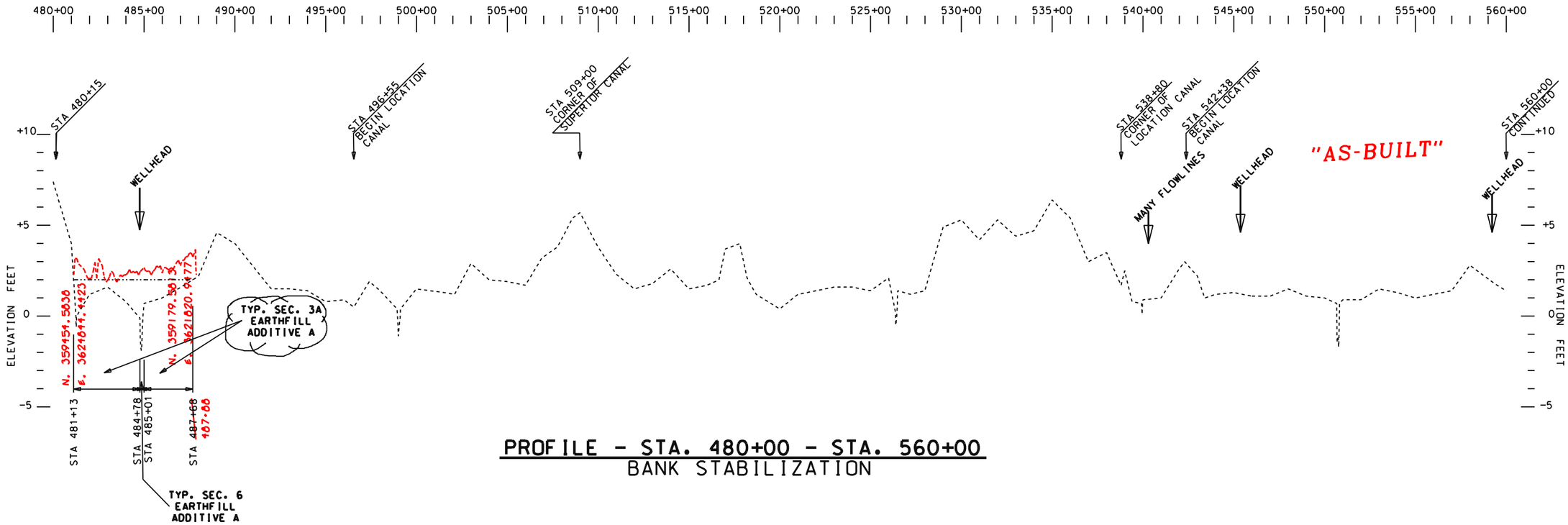
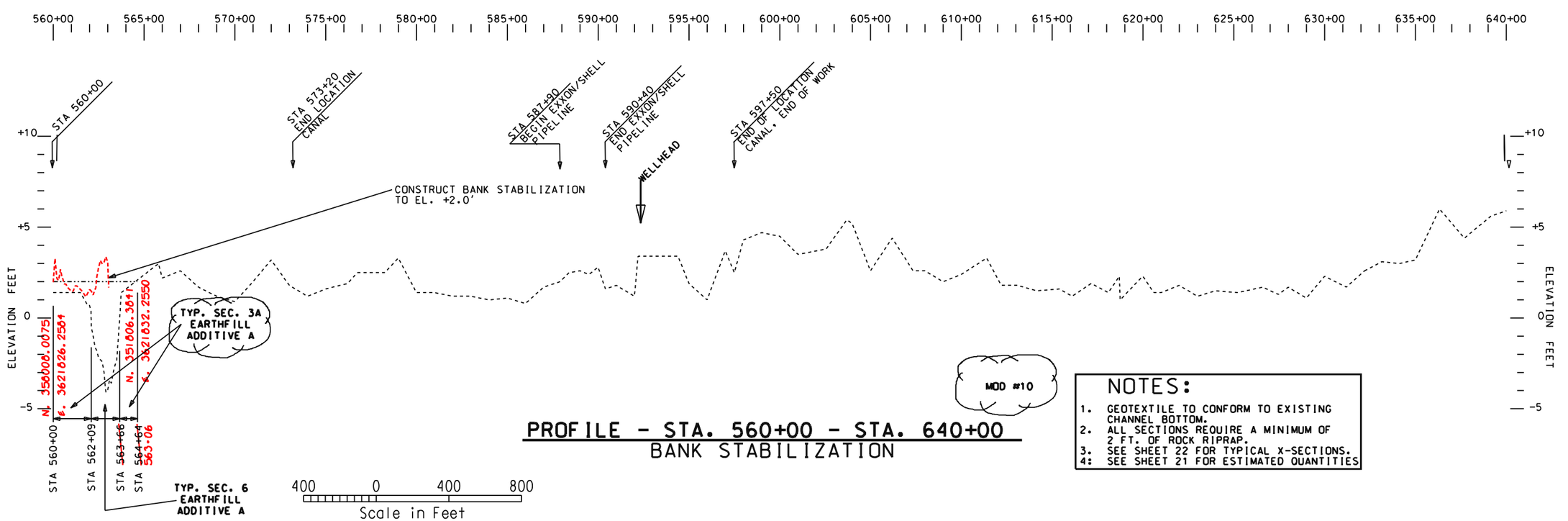



## PROFILE - STA. 480+00 - STA. 560+00
BANK STABILIZATION




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

### NOTES:

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

| | | Date |
|---|---|---|
| Approved by E. J. DIERING, III | | |
| Title | STATE CONSERVATION ENGINEER | |
| | ALEXANDRIA, LOUISIANA | |
| Designed | S. GARNER | 03/98 |
| Drawn | A.G. & P.C. | 03/98 |
| Traced | | |
| Checked | J. MOORE | 04/98 |
| Title | | |

PROFILE-BANK STABILIZATION
STA.480+00-STA.640+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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| DATE | APPR. | TITLE |
| 4/23/99 | E.G. | ASTC/ES |
| 6/15/00 | E.G. | ASTC/ES |

CAD FILENAME
LA271020

PROJECT NO.
LA271



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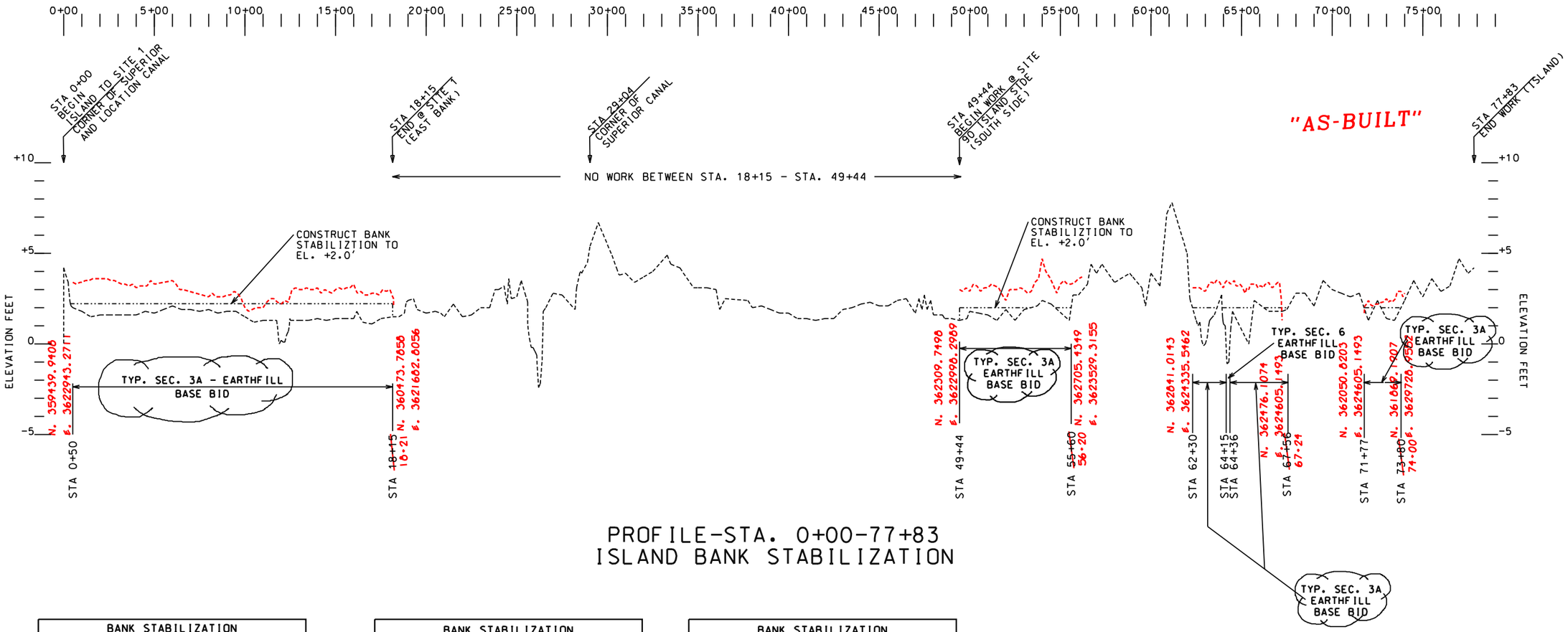


PROFILE-STA. 0+00-77+83
ISLAND BANK STABILIZATION

| BANK STABILIZATION STA. 3+40 - 160+00 | | |
|---|---|---|
| ACTUAL BASE BID | | |
| ~~ESTIMATED~~ QUANTITIES | | |
| ROCK RIPRAP (650#) | 2794 ~~2,380~~ | TONS |
| ROCK RIPRAP (200#) | 13617 ~~9,900~~ | TONS |
| ROCKFILL | 1285 ~~1,245~~ | TONS |
| EARTHFILL | 3730 ~~1,580~~ | CY |
| GEOTEXTILE | 24513 ~~15,950~~ | SY |
| EXCAVATION | 0 ~~3,040~~ | CY |
| ADDITIVE A ESTIMATED QUANTITIES | | |
| EARTHFILL | 305 | CY |
| GEOTEXTILE | 540 | SY |

| BANK STABILIZATION STA. 160+00 - 320+00 | | |
|---|---|---|
| BASE BID ESTIMATED QUANTITIES | | |
| EARTHFILL | 811 ~~175~~ | CY |
| GEOTEXTILE | ~~0~~ | SY |
| ADDITIVE A ESTIMATED QUANTITIES | | |
| EARTHFILL | 1659 ~~640~~ | CY |
| GEOTEXTILE | 1250 ~~1,430~~ | SY |

| BANK STABILIZATION STA. 320+00 - 480+00 | | |
|---|---|---|
| BASE BID ESTIMATED QUANTITIES | | |
| EARTHFILL | 1207 ~~275~~ | CY |
| GEOTEXTILE | 166.67 ~~295~~ | SY |
| ADDITIVE A ESTIMATED QUANTITIES | | |
| EARTHFILL | 2966 ~~1,570~~ | CY |
| GEOTEXTILE | 1300 ~~1,085~~ | SY |

| BANK STABILIZATION STA. 480+00 - 640+00 | | |
|---|---|---|
| ADDITIVE A ESTIMATED QUANTITIES | | |
| EARTHFILL | 2256 ~~1,775~~ | CY |
| GEOTEXTILE | 2100 ~~1,710~~ | SY |

| ISLAND BANK STABILIZATION STA. 0+00 - 77+83 | | |
|---|---|---|
| BASE BID ESTIMATED QUANTITIES | | |
| EARTHFILL | 4060 ~~965~~ | CY |
| GEOTEXTILE | 110 ~~110~~ | SY |

## NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. SEE SHEET 22 FOR TYPICAL X-SECTIONS.

MOD #10
GEOTEXTILE QUANTITIES IN TABLES TO LEFT HAVE CHANGED DUE TO THIS MODIFICATION

400 0 400 800
Scale in Feet

| | | Date |
|---|---|---|
| Designed | S. GARNER | 03/98 |
| Drawn | A.G. & P.C. | 03/98 |
| Traced | | |
| Checked | J. MOORE | 04/98 |

Approved by F. V. GIERING, III — Date
Title — STATE CONSERVATION ENGINEER, ALEXANDRIA, LOUISIANA
Title

PROFILE ISLAND BANK STABILIZATION
STA. 0+00 - STA. 77+83
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |
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CAD FILENAME LA271021
PROJECT NO. LA271
SHEET NO 21 OF 25

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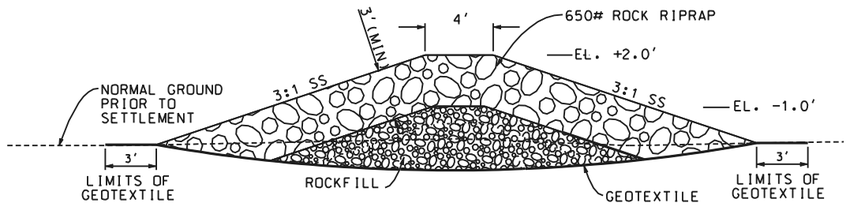
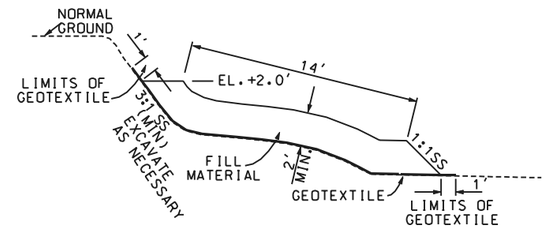
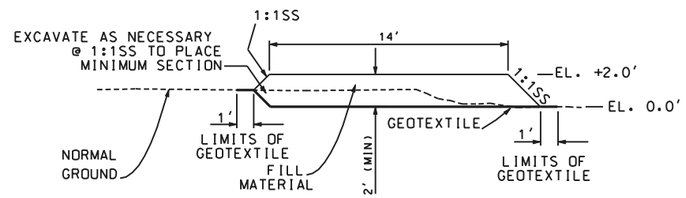



TYPE 1
X-SECTION

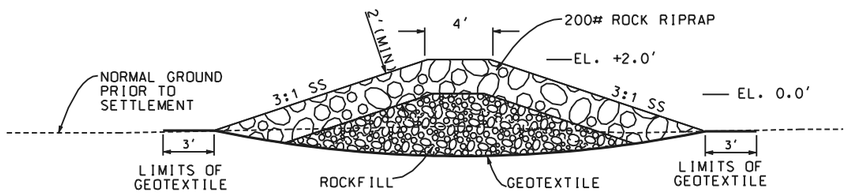



TYPE 5
X-SECTION

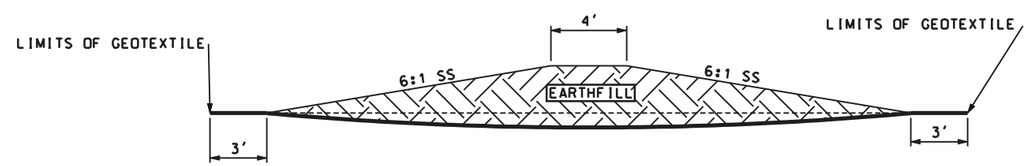



TYPE 4
X-SECTION

"AS-BUILT"

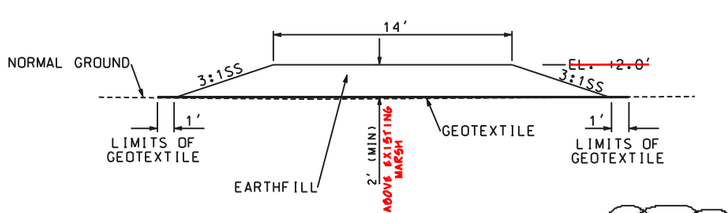



TYPE 2
X-SECTION

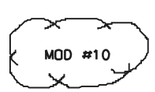


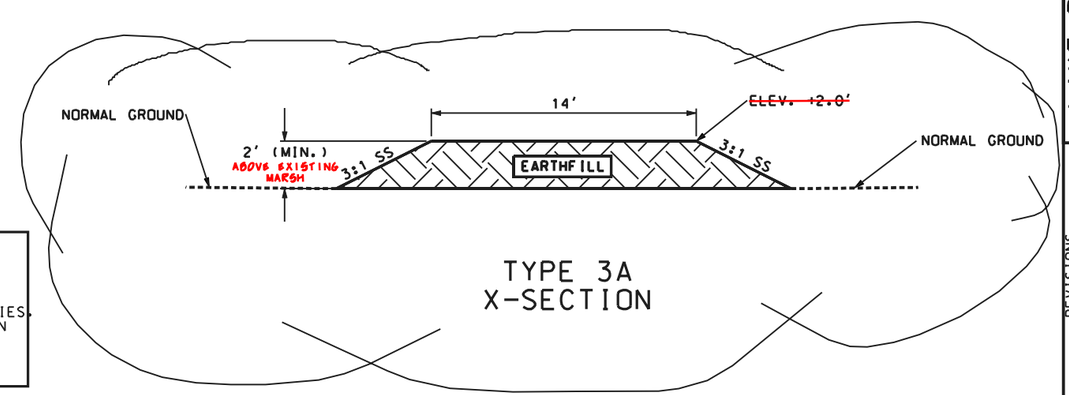

TYPE 6
X-SECTION

TYPE 6 X-SECTION ONLY APPLIES WHEN FILL IS GREATER THAN 2'




TYPE 3
X-SECTION




TYPE 3A
X-SECTION

## NOTES:

1. GEOTEXTILE TO CONFORM TO EXISTING CHANNEL BOTTOM.
2. SEE SHEET 21 FOR ESTIMATED QUANTITIES.
3. TIE-IN BETWEEN SHORELINE PROTECTION AND STRUCTURES TO BE DETERMINED IN THE FIELD BY THE COTR.

NOT TO SCALE

Approved by E.J. GUERING, III — Date
Title — STATE CONSERVATION ENGINEER, ALEXANDRIA, LOUISIANA

Designed S. GARNER — Date 03/98
Drawn A.G., P.C. — 03/98
Traced —
Checked J. MOORE — 04/98
Title

LAKE RIM RESTORATION AND BANK STABILIZATION TYPICAL X-SECTIONS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
|---|---|---|---|
| DATE | APPR. | TITLE | |
| 6/15/00 | EG | ASTC/ES | |

CAD FILENAME
LA271022

PROJECT NO.
LA271

SHEET NO 22 OF 25

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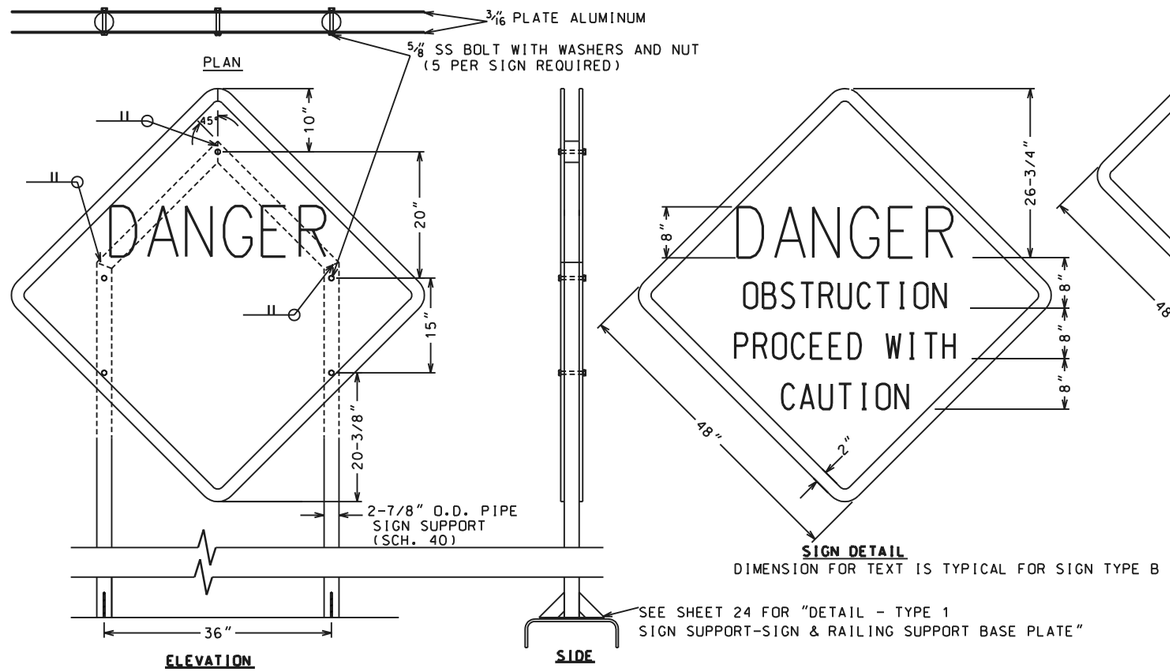
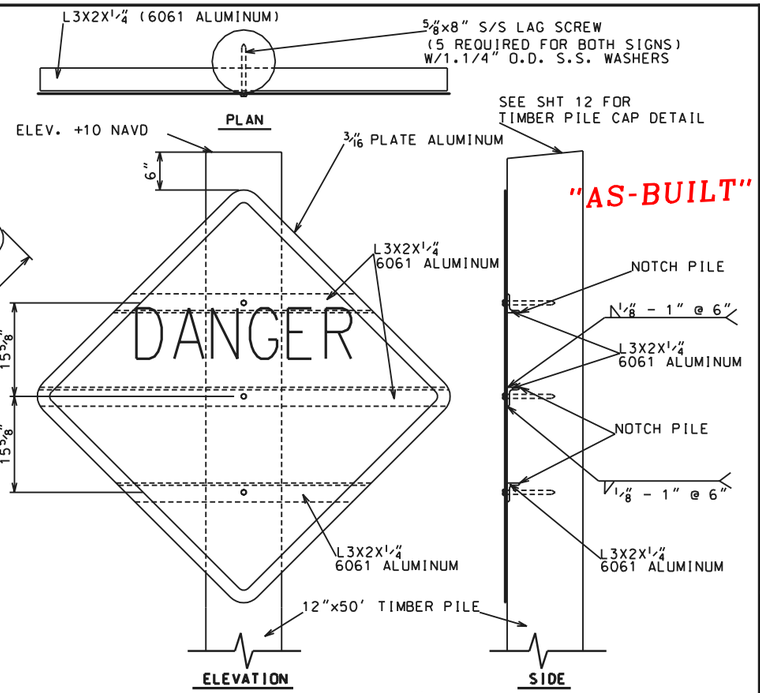



## SIGN DETAIL - TYPE "A"
## SIGN SUPPORT - TYPE "I"

**NOTES:**

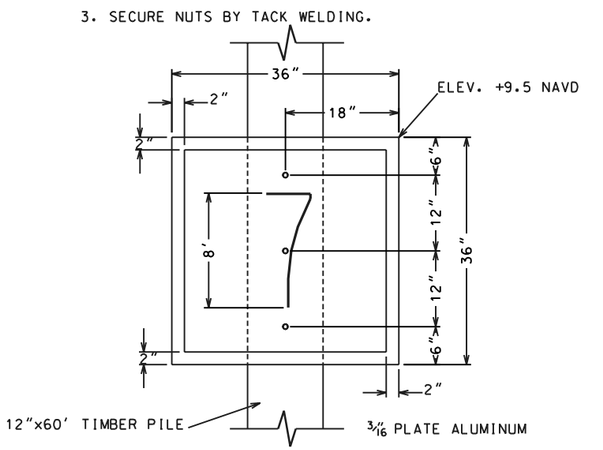
1. THE 2" BORDER ON THE TYPE "A" WARNING SIGN SHALL BE A RETRO-REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS SHALL BE BLACK. WARNINGS SIGNS SHALL BE PLACED ON THE UPSTREAM AND DOWNSTREAM FACE OF THE STRUCTURE.
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND STEEL PIPE AT ALL POINTS OF CONTACT.
3. SECURE NUTS BY TACK WELDING.



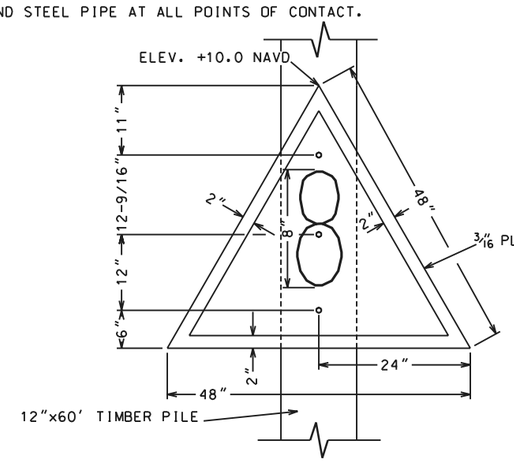

## SIGN DETAIL - TYPE "B"
## SIGN SUPPORT - TYPE "III"

**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. WARNINGS 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.




DAYMARK NAVIGATION AID
(PORT SIDE - ODD NUMBER)

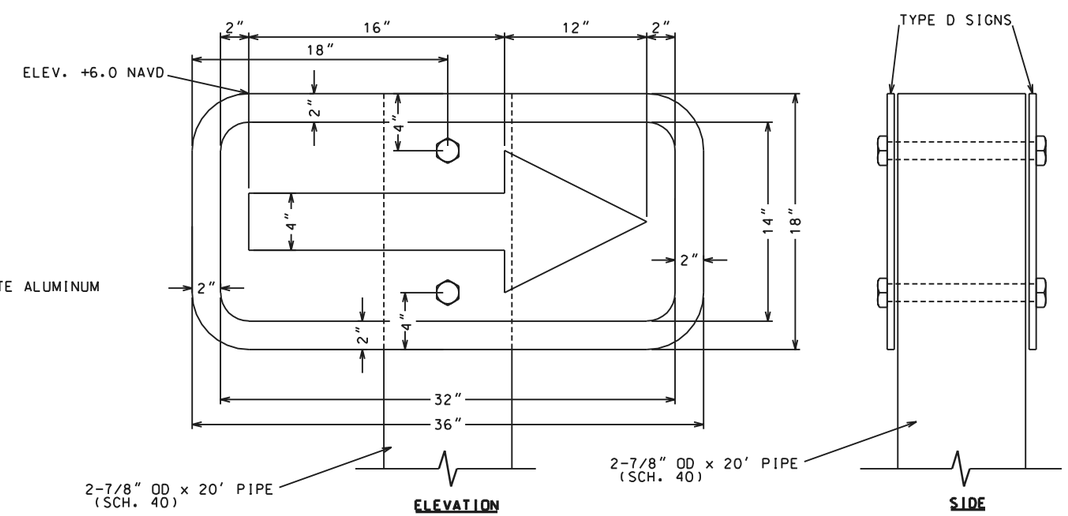



DAYMARK NAVIGATION AID
(STARBOARD SIDE - EVEN NUMBER)

## SIGN DETAIL - TYPE "C"

**NOTES:**

1. THE BORDER ON THE STARBOARD DAYMARK WILL BE A RETRO-REFLECTIVE MATERIAL OF RED COLOR. THE AREA INSIDE THE BORDERS WILL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE NUMBERS WILL BE BLACK.
2. THE BORDER ON THE PORT SIDE DAYMARK 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. ALL DAYMARK NAVIGATION AIDS SHALL ABIDE BY U.S.C.G. 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. WASHER.




## SIGN DETAIL - TYPE "D"
## SIGN SUPPORT - TYPE "IV"

**NOTES:**

1. SIGNS SHALL BE CONSTRUCTED USING 3/16" 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 ARROW FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR.
5. THE ARROW WILL BE BLACK.
6. SIGN WILL BE SECURED TO PIPE USING 2-5/8" S/S BOLTS, WASHERS AND NUTS.
7. SIGNS TO PLACED ON THE LONGITUDINAL CENTERLINE OF THE STRUCTURE.
8. SECURE NUTS BY TACK WELDING.

NOT TO SCALE

Approved by E. J. DIERING, III. Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA Title

| | | Date |
|---|---|---|
| Designed | S. Garner | 3/98 |
| Drawn | A. J. Gremillion | 3/98 |
| Traced | J. Moore | 4/98 |
| Checked | | |

# WARNING SIGN DETAILS
# BA2 CONSTRUCTION UNIT 2
# LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| DATE | APPR. | REVISIONS | TITLE |
|---|---|---|---|

CAD FILE NO. LA271023

DRAWING NO. LA-271

SHEET NO 23 OF 25

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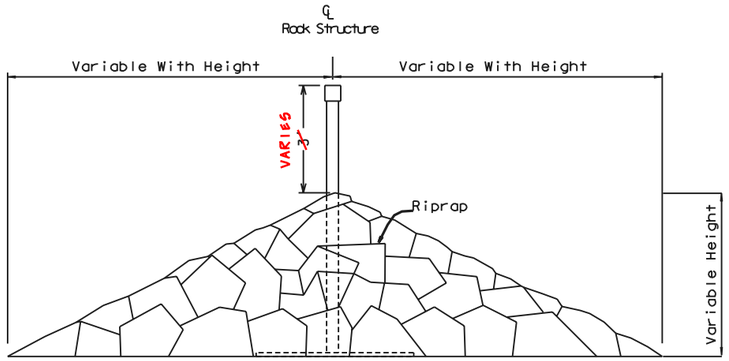
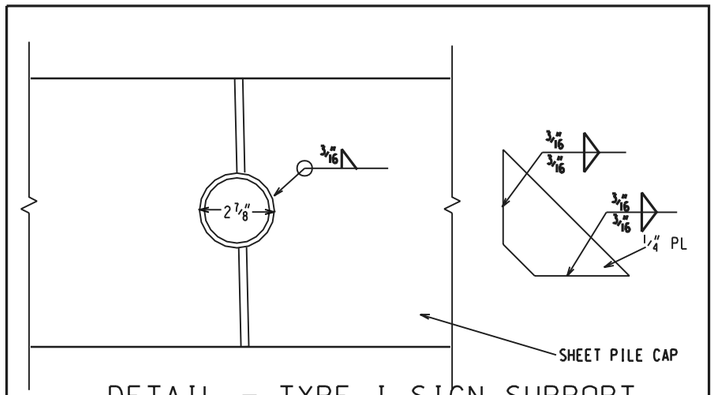



TYPICAL SECTION - ROCK BREAKWATER

(NOT TO SCALE)

**NOTE 1:**
Place Settlement Plate Above Geotextile

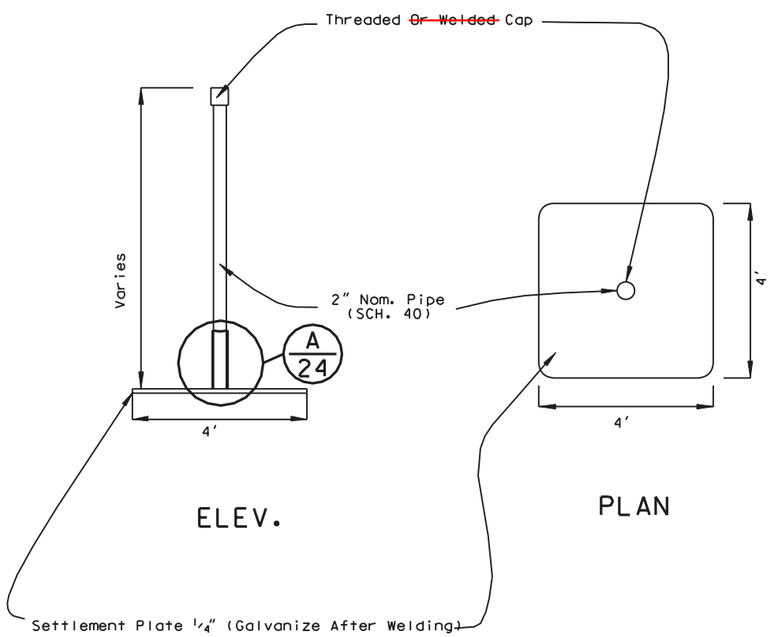



DETAIL - TYPE I SIGN SUPPORT
SIGN AND RAILING SUPPORT BASE PLATE

(NOT TO SCALE)

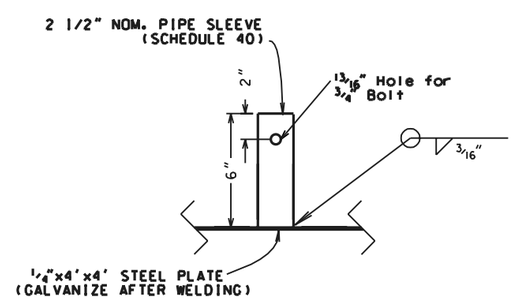
| SITE NO. | SIGN TYPE | SUPPORT TYPE | DESCRIPTION | NUMBER OF SIGNS |
|---|---|---|---|---|
| 1 | A | III | PROCEED W/CAUTION | 4 |
| 1 | D | IV | DIRECTIONAL | 2 |
| 1 | C | V | NAVIGATION AIDES | 4 |
| 14A | A | III | PROCEED W/CAUTION | 4 |
| 14A | B | III | DO NOT PROCEED | 6 |
| 14A | D | IV | DIRECTIONAL | 2 |
| 14A | C | V | NAVIGATION AIDES | 4 |
| 4B | B | III | DO NOT PROCEED | 3 |
| 35 | B | I | DO NOT PROCEED ~~METAL PIPE~~ | 2 |
| 90 | B | III | DO NOT PROCEED | 4 |
| LAKE RIM SHORELINE | B | III | DO NOT PROCEED ~~TIMBER SUPPORT~~ | 12 |

"AS-BUILT"




SETTLEMENT PLATE DETAILS

(NOT TO SCALE)




DETAIL A (A/24)
6-INCH PIPE SLEEVE

(NOT TO SCALE)

NOTES:
1. ALL STEEL PLATE SHALL CONFORM TO ASTM A572 Gr50.
2. SECURE 2" PIPE TO 2 1/2" PIPE SLEEVE USING A ?" X 4" A307 GALVANIZED BOLT AND NUT.
3. SECURE NUTS BY TACK WELDING.

Date
Approved by C. A. CROUSE, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed S. Garner 3/98
Drawn A. J. Gremillion 3/98
Traced
Checked J. Moore 4/98

WARNING SIGN DETAILS
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE | APPR. | TITLE

CAD FILE NO.
LA271024
DRAWING NO.
LA271
SHEET NO 24 OF 25

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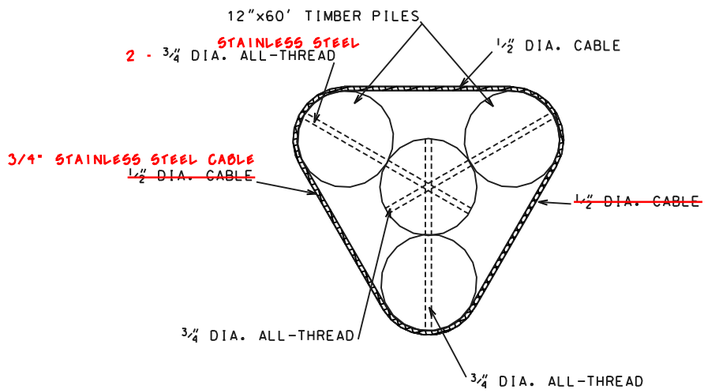
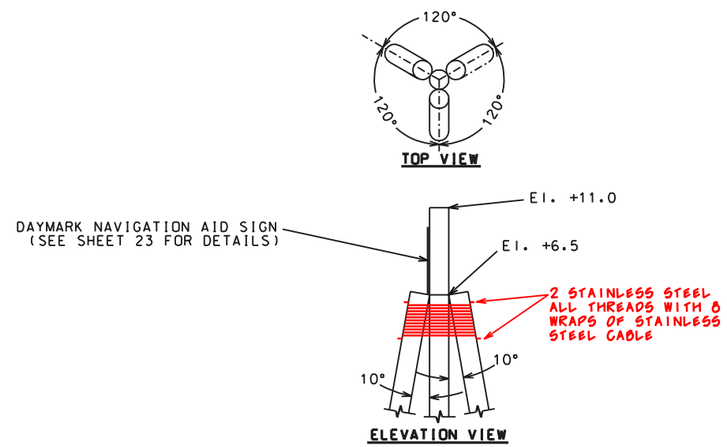
"AS-BUILT"




PLAN
TYPE V - NAVIGATION AID SUPPORT




TYPE V SUPPORT
NAVIGATION AID SUPPORT DETAIL

## NOTES:

1. ALL 3/4" DIA. ALL THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE OGEE WASHERS AND TACK WELDED NUTS.
2. 8 WRAPS OF 1/2" DIA. CABLE MEETING ASTM A-416 AND ASTM A-882/A-882M-92 BETWEEN THE 3-3/4" DIA. ALL-THREAD ASTM A-615 GR60 GALVANIZED AND EPOXY COATED TIE RODS.
3. THE 1/2" DIA. CABLE SHALL BE SECURED USING 3 STAINLESS STEEL CLAMPS.
4. THE 3/4" DIA. ALL-THREAD TIE RODS SHALL BE A MINIMUM OF 6" BELOW TOP OF 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'.

| | | Date |
|---|---|---|
| Approved by E. J. GIERING, III | Title STATE CONSERVATION ENGINEER ALEXANDRIA, LOUISIANA | |
| Designed S. Garner | | 3/98 |
| Drawn A. G. & P. C. | | 3/98 |
| Traced | | |
| Checked J. Moore | | 4/98 |

NAVIGATION AID SUPPORT DETAIL
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| DATE | APPR. | REVISIONS | TITLE |
|---|---|---|---|

CAD FILE NO. LA271025
DRAWING NO. LA-271
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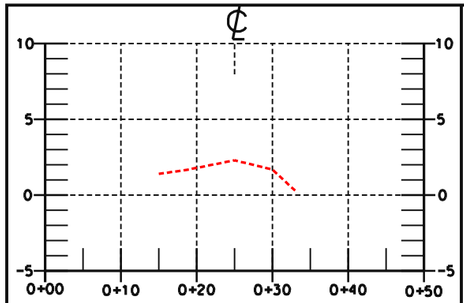


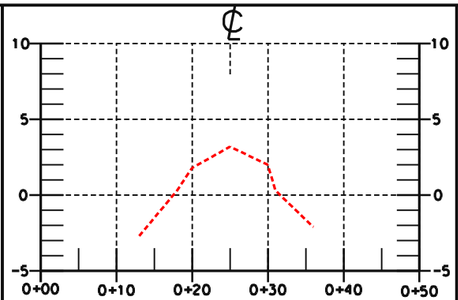


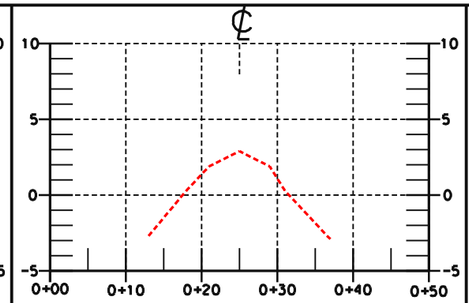


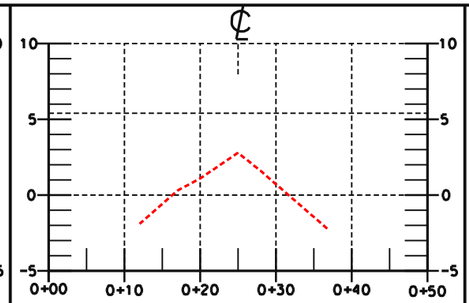


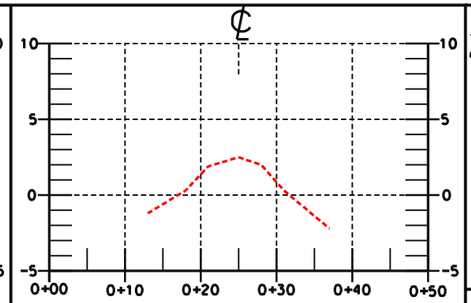


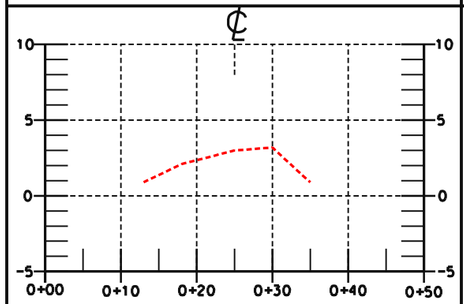


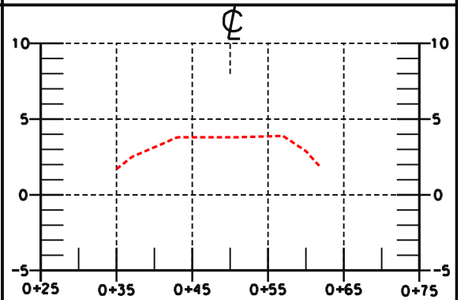


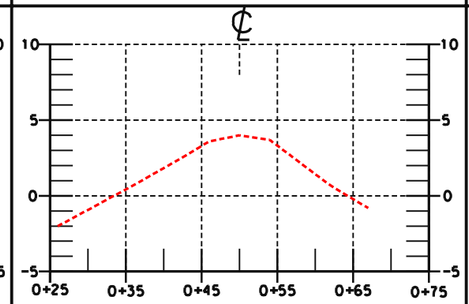


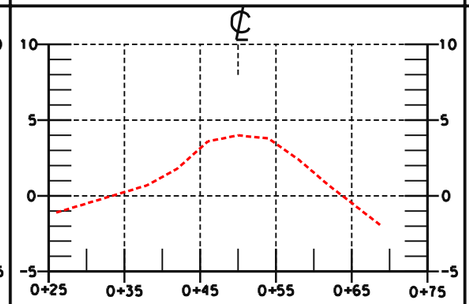


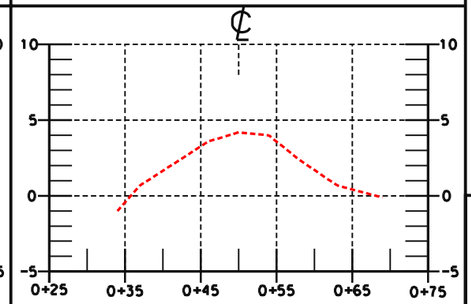


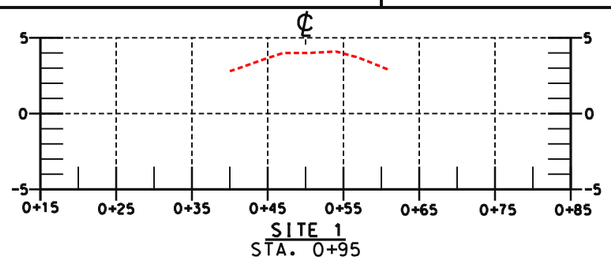


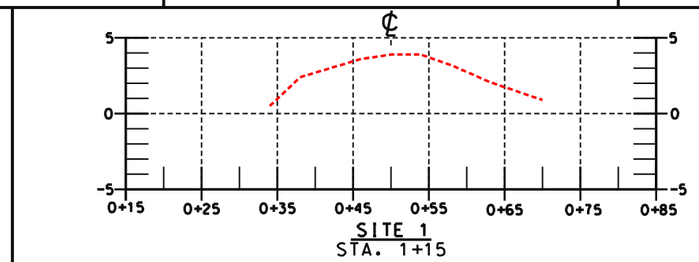


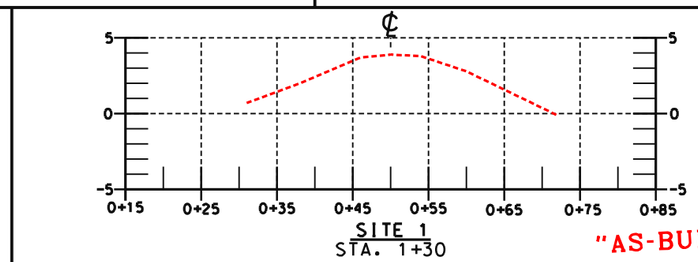


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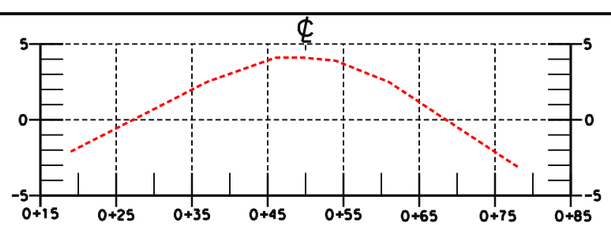


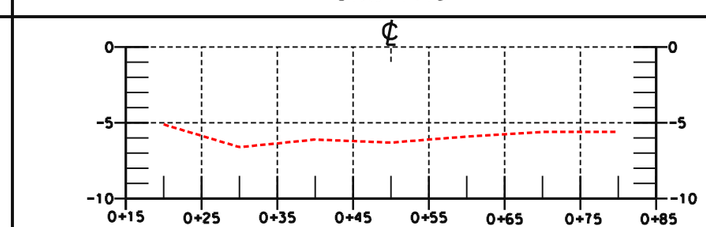


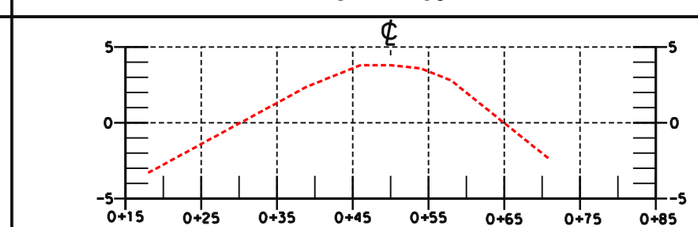


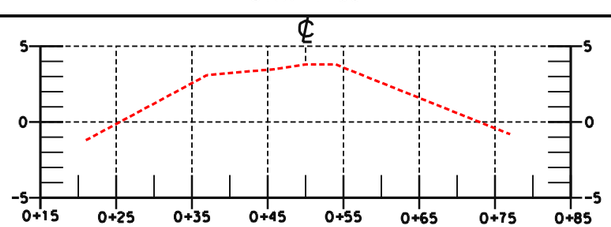


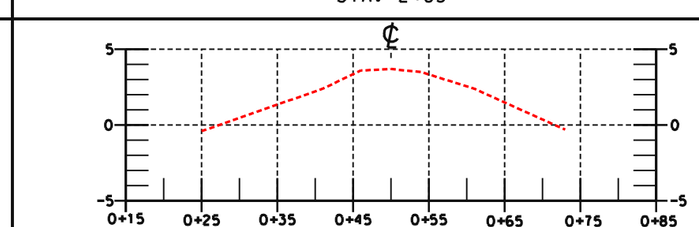


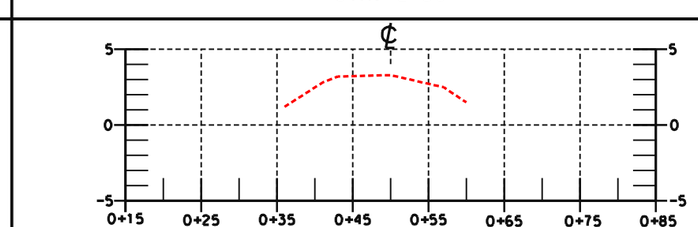


Approved by E.J. DUERING, III — Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed L.S. GARNER — Date 06/00
Drawn A.J. CREMILLION — 01/02
Traced
Checked B. STICKER — 01/02

AS-BUILT SECTIONS - SITES 1, 90, & 4B
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

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| NO. | DATE | APPR. | TITLE |

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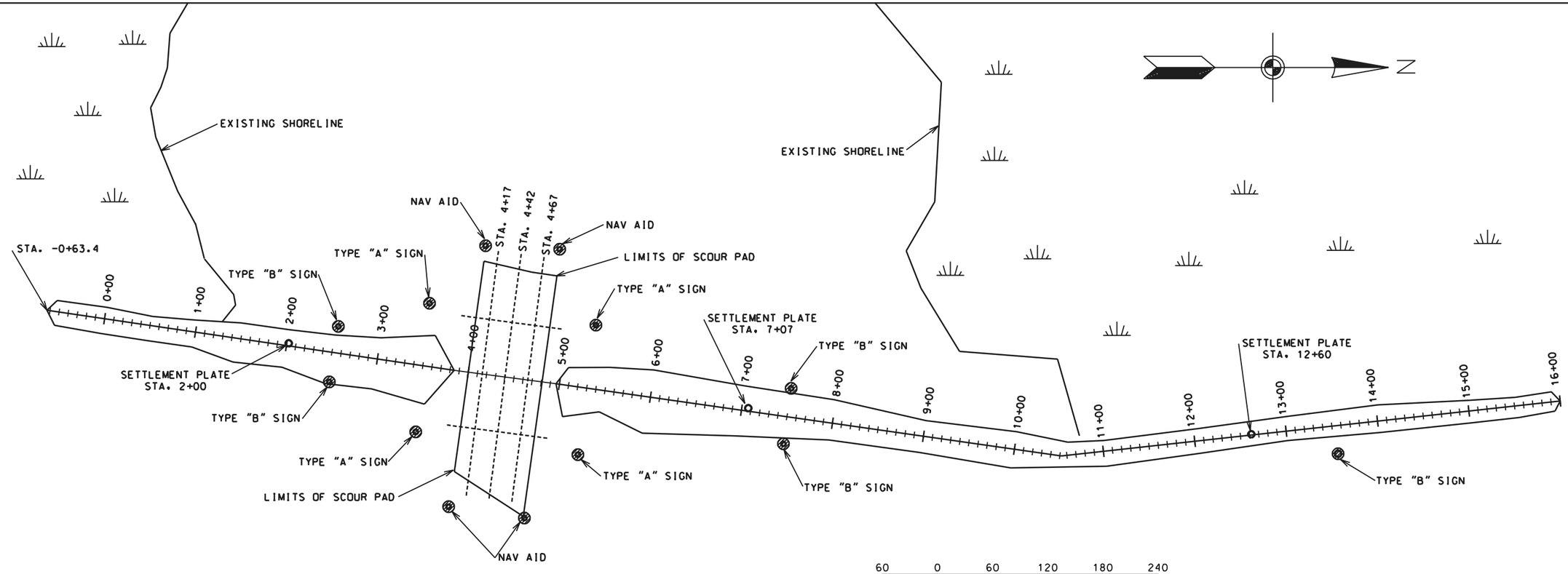


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PLAN VIEW

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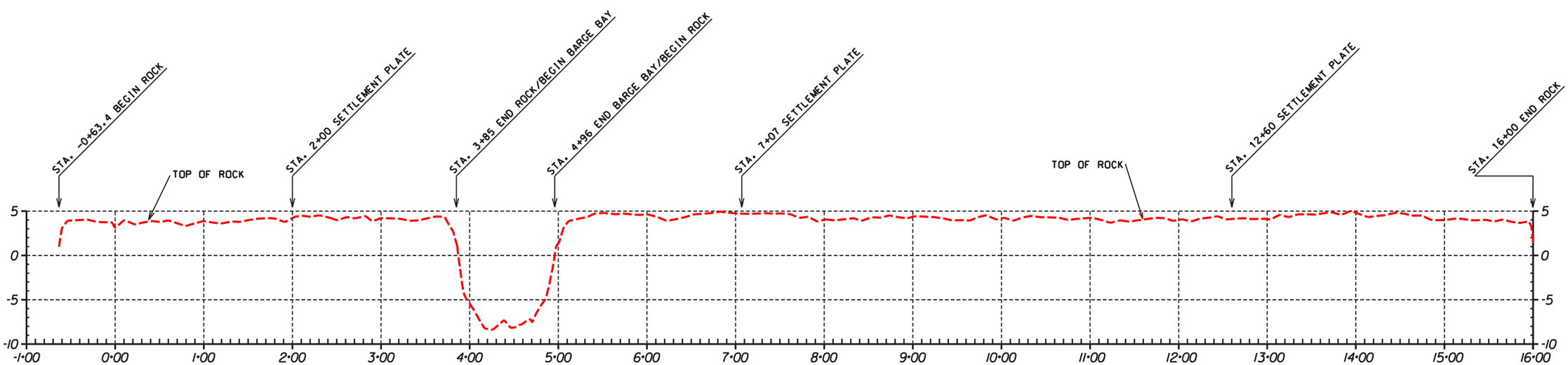


BA-2 - CU#2 - SITE 14A
PROFILE ALONG CENTERLINE

SITE 14A - PLAN & PROFILE
BA2 CONSTRUCTION UNIT #2
AS-BUILT DRAWINGS
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| | | Date |
|---|---|---|
| Designed | STEVE GARNER | 7/01 |
| Drawn | ABBEY GREMILLION | 7/01 |
| Traced | | |
| Checked | | 7/01 |

Approved by _____ Date _____
Title _____
Title _____

| REVISIONS | | | |
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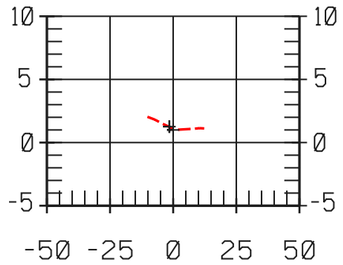


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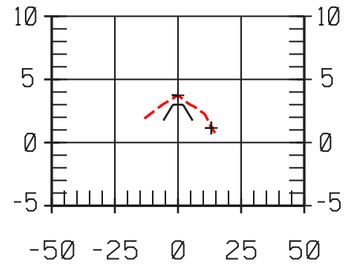


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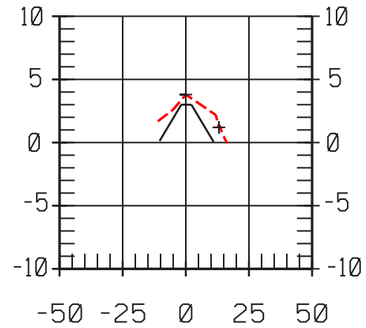


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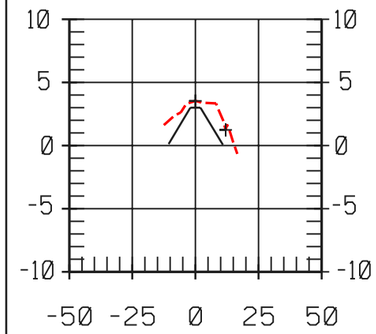


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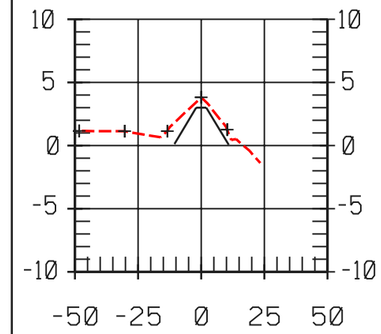


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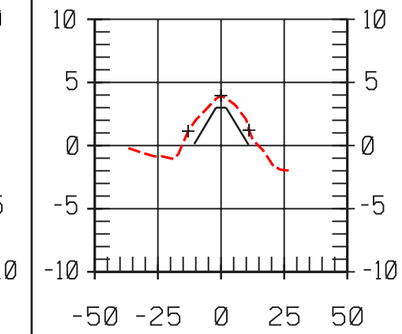


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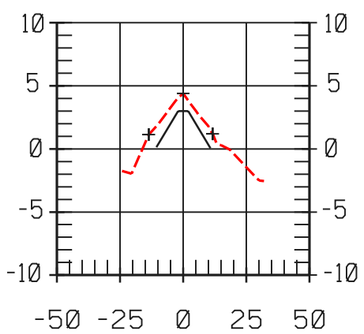


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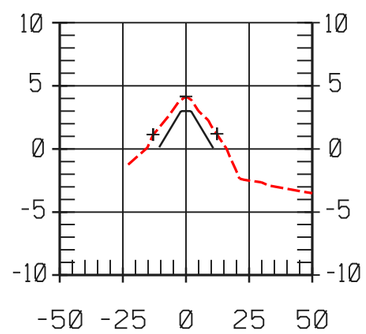


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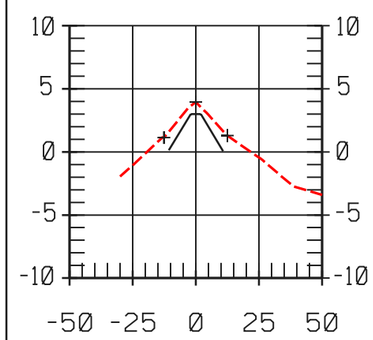


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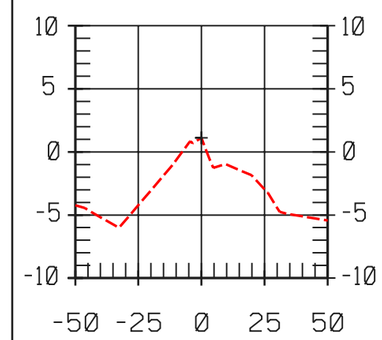


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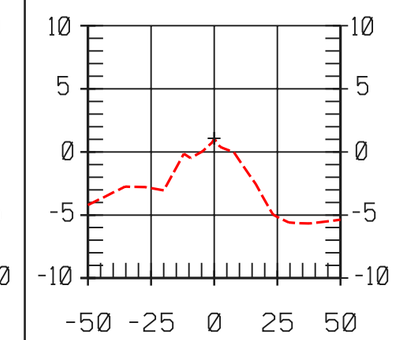


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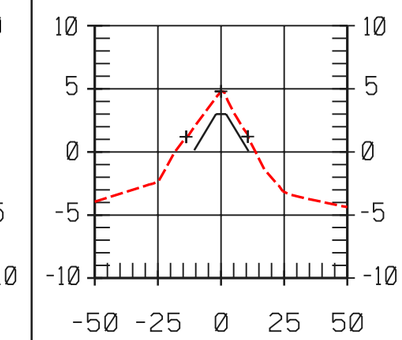


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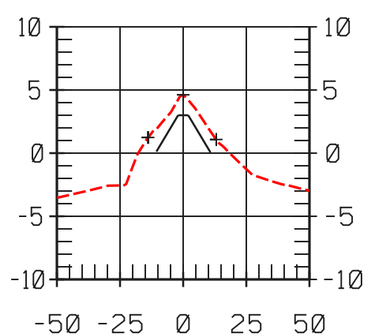


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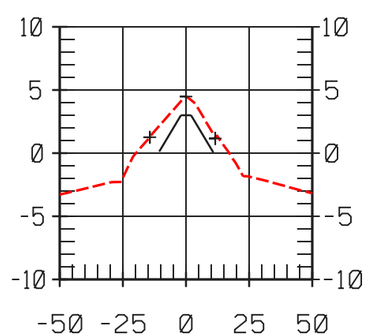


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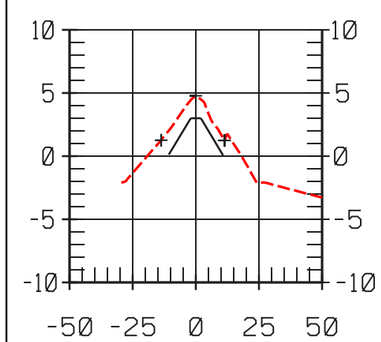


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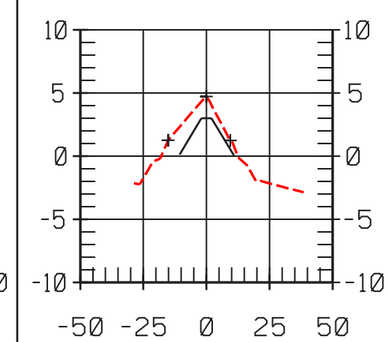


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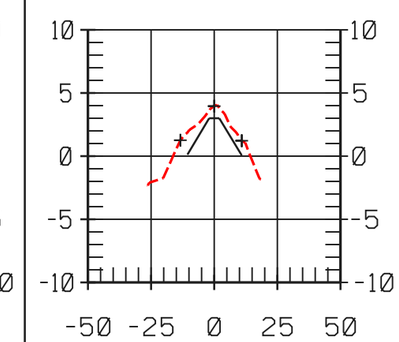


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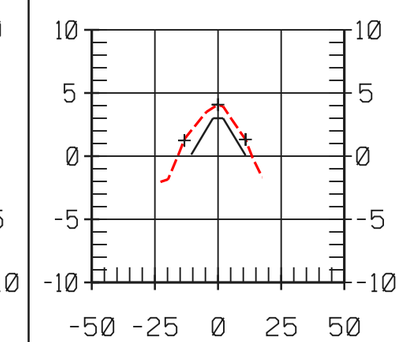


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"AS-BUILT"

Date

Approved by _____ Date

Title _____

Title _____

Designed STEVE GARNER 7/01

Drawn ABBEY GREMILLION 7/01

Traced _____

Checked _____ 7/01

# SITE 14A - SECTIONS
## BA2 - CONSTRUCTION UNIT #2
## AS-BUILT DRAWINGS
## LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
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| DATE | APPR. | TITLE | |

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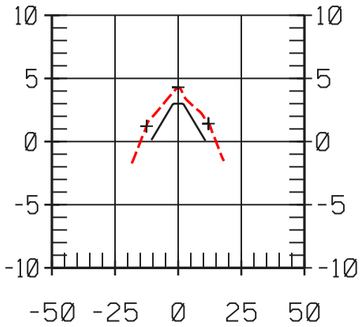


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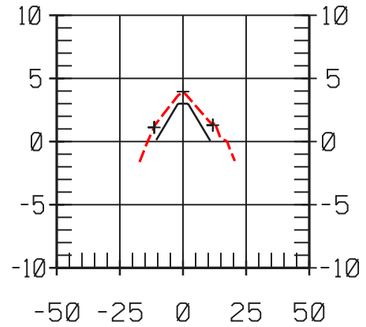


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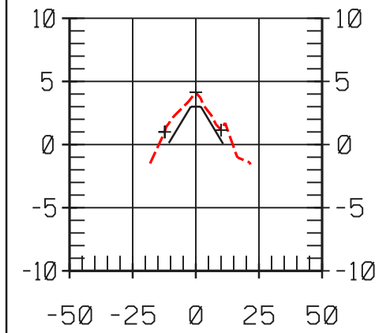


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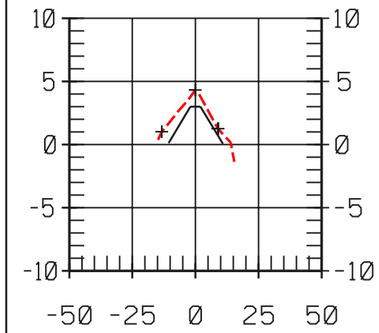


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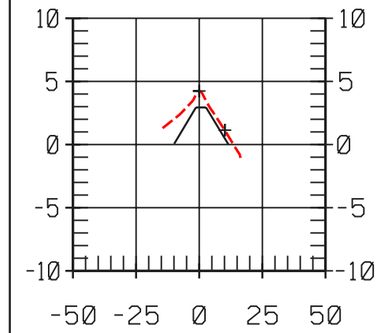


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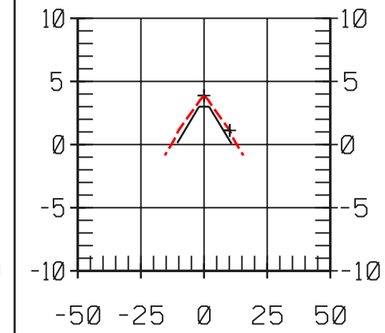


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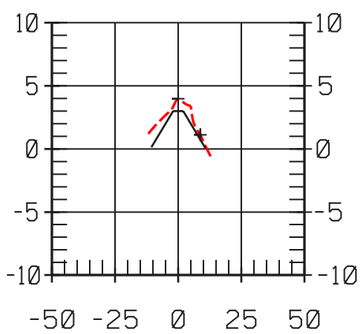


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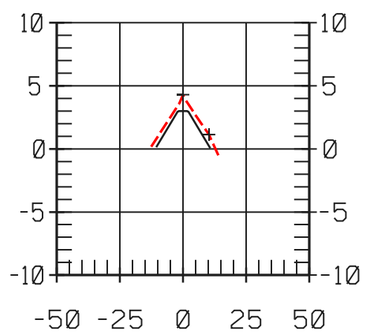


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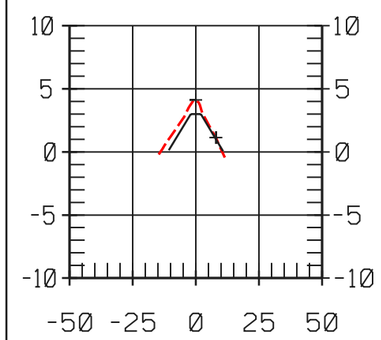


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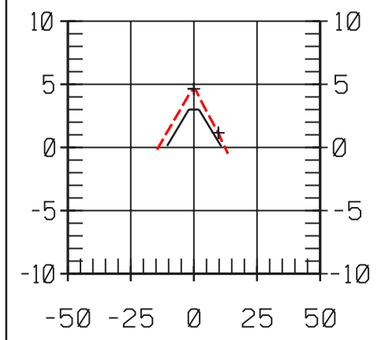


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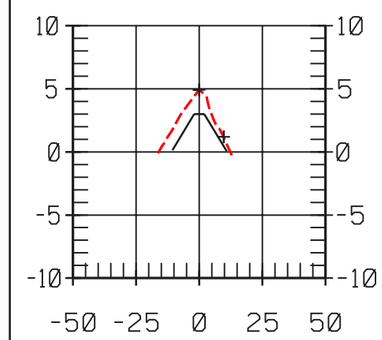


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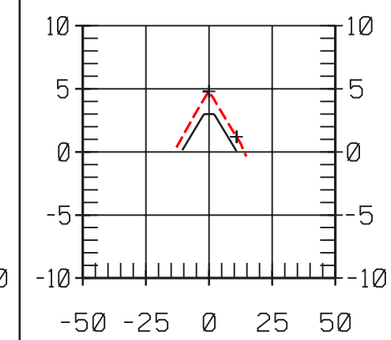


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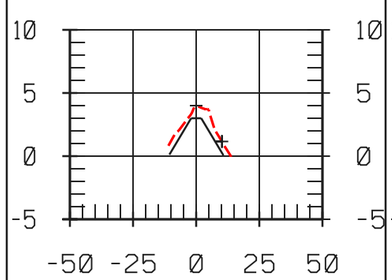


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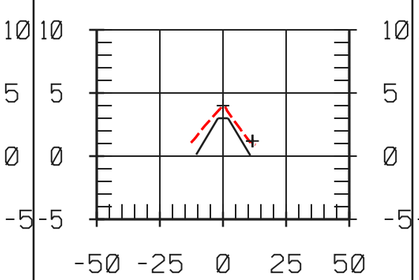


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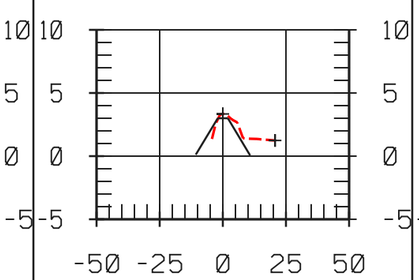


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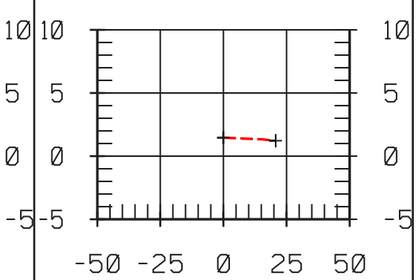


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Date

Approved by _____ Date

Title _____ 7/01

Title _____ 7/01

Designed STEVE GARNER 7/01

Drawn ABBEY GREMILLION 7/01

Traced _____

Checked _____

# SITE 14A - SECTIONS
## BA2 - CONSTRUCTION UNIT #2
## AS-BUILT DRAWINGS
## LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |

CAD FILE NO.
LA271025A4.DGN

DRAWING NO.
LA-271

SHEET NO 25A4 OF 25

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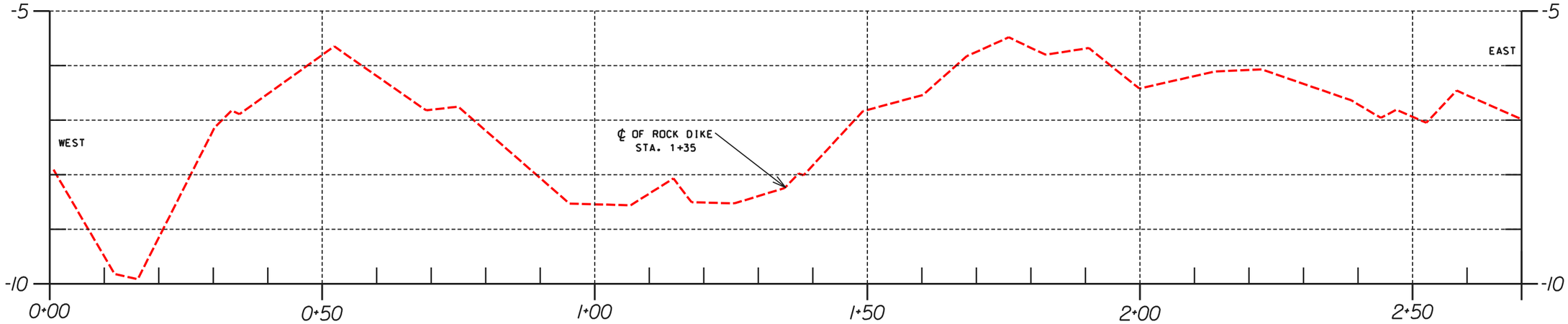
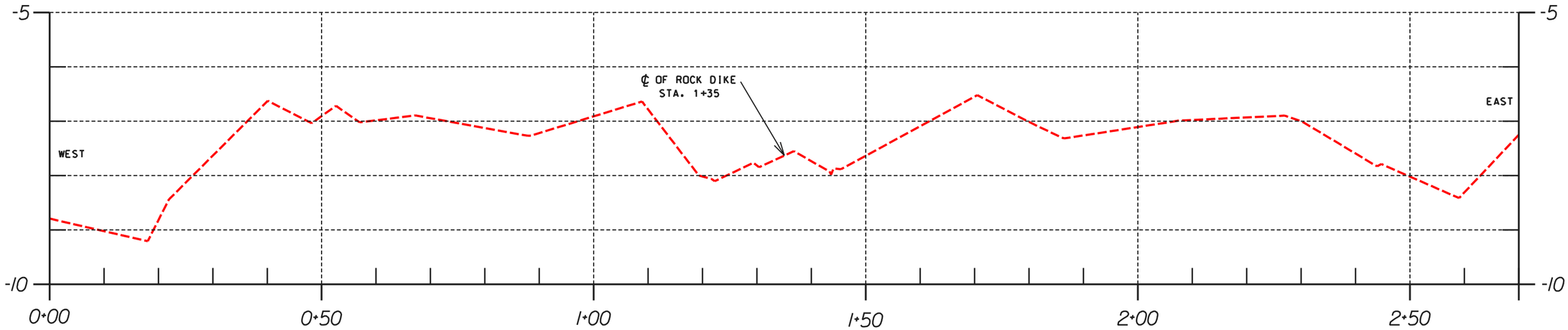
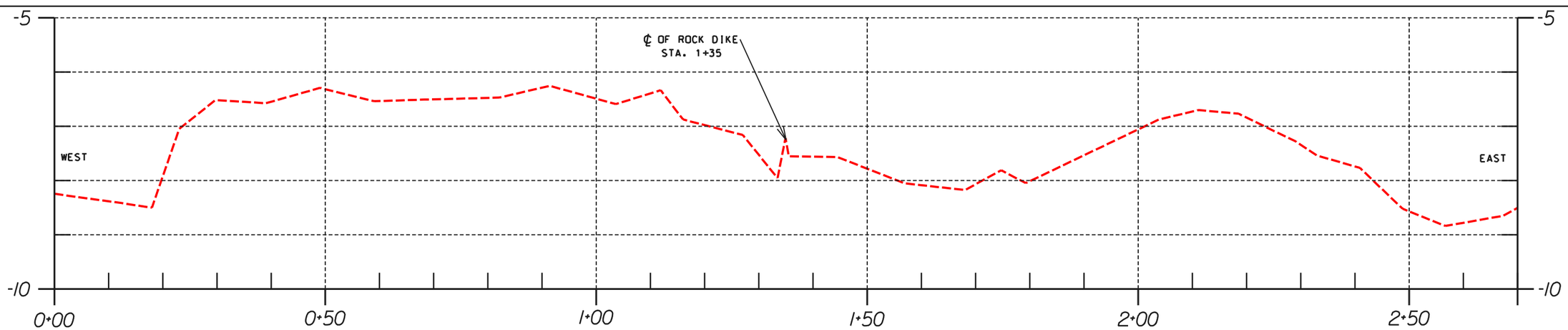



Station 4+16.6




Station 4+41.6 CENTERLINE BARGE BAY




Station 4+66.6

"AS-BUILT"

Date
Approved by
Title
Date
Designed STEVE GARNER 7/01
Drawn ABBEY GREMILLION 7/01
Traced
Checked 7/01
Title

SITE 14A - SECTIONS
BA2 - CONSTRUCTION UNIT #2
AS-BUILT DRAWINGS
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS
DATE | APPR. | TITLE

CAD FILE NO.
LA271025A5.DGN
DRAWING NO.
LA-271
SHEET NO 25A5 OF 25

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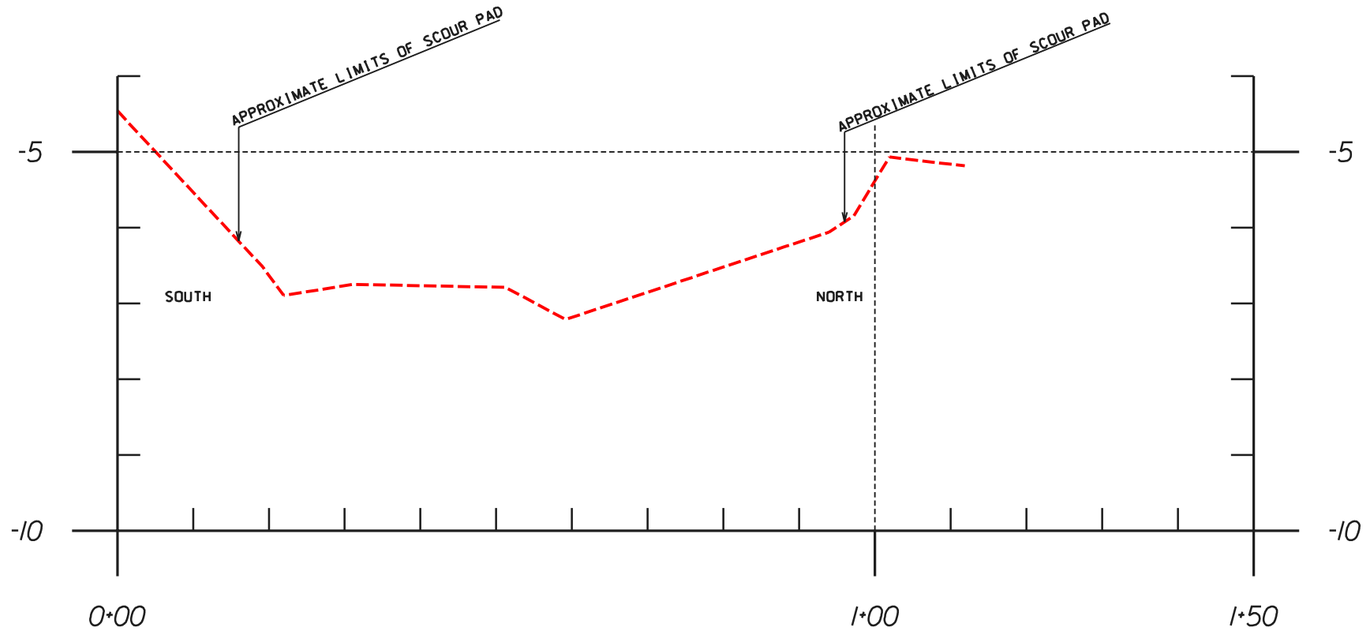
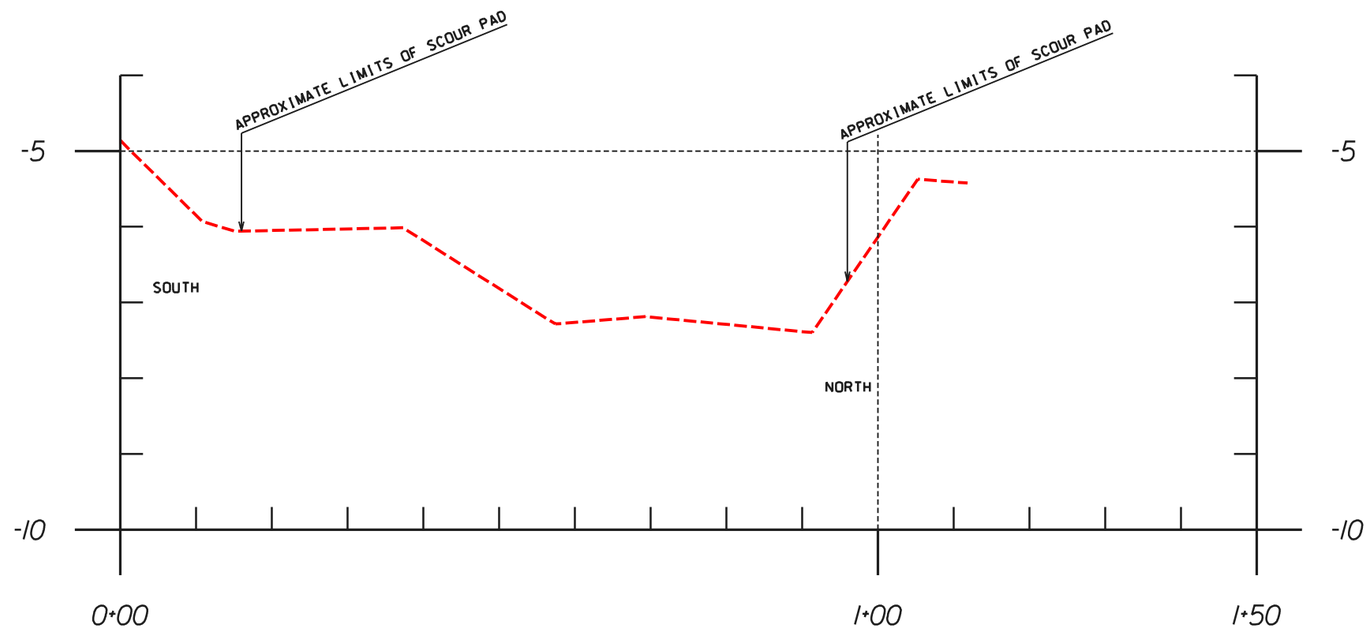



**X-SECTION**
60' WEST OF ℄ OF DIKE




**X-SECTION**
60' EAST OF ℄ OF DIKE

"AS-BUILT"

| | | Date |
|---|---|---|
| Designed | STEVE GARNER | 7/01 |
| Drawn | ABBEY GREMILLION | 7/01 |
| Traced | | |
| Checked | | 7/01 |

Approved by _____ Date _____
Title _____
Title _____

SITE 14A - SECTIONS
BA2 - CONSTRUCTION UNIT #2
AS-BUILT DRAWINGS
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | |
|---|---|---|
| DATE | APPR. | TITLE |

CAD FILE NO.
LA271025A6.DGN

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SHEET NO 25A6 OF 25

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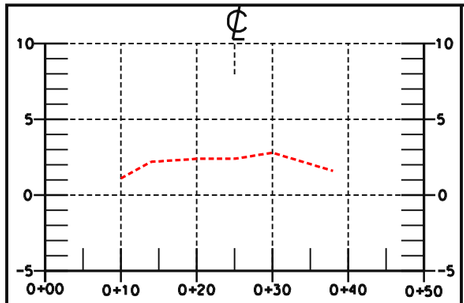
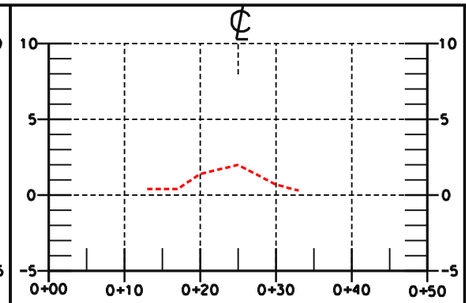
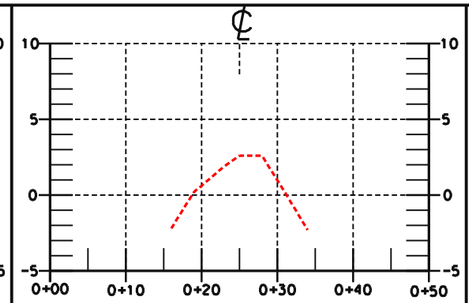


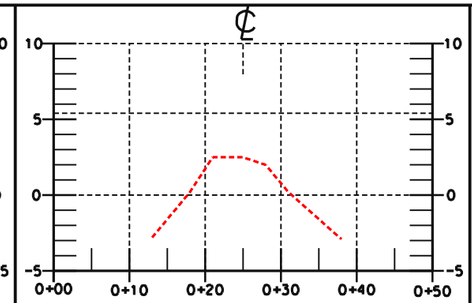

LAKE RIM RESTORATION
STA. 0+50



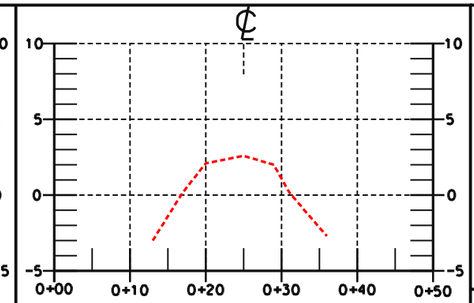

LAKE RIM RESTORATION
STA. 2+00



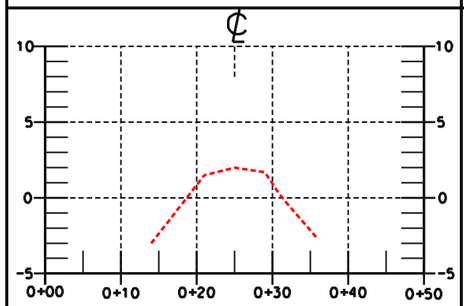

LAKE RIM RESTORATION
STA. 4+00



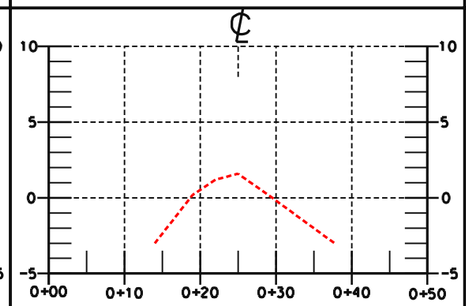

LAKE RIM RESTORATION
STA. 6+00




LAKE RIM RESTORATION
STA. 8+00




LAKE RIM RESTORATION
STA. 10+00




LAKE RIM RESTORATION
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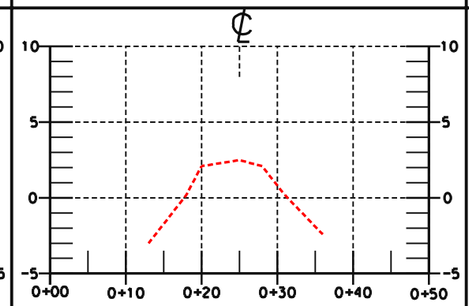
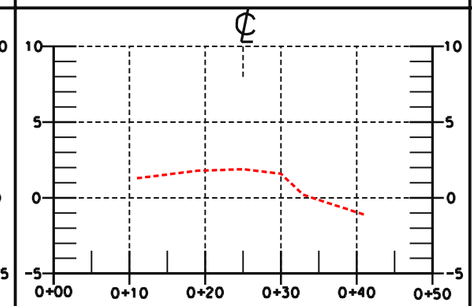



LAKE RIM RESTORATION
STA. 14+00

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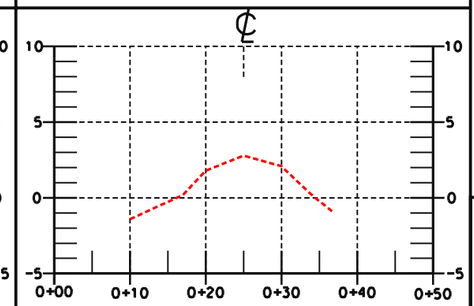
STA. 16+00

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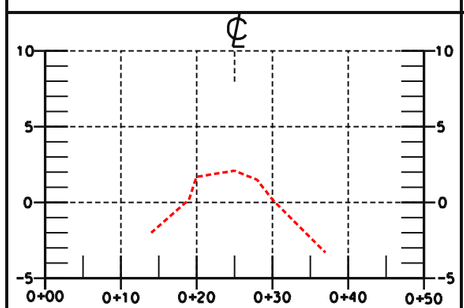
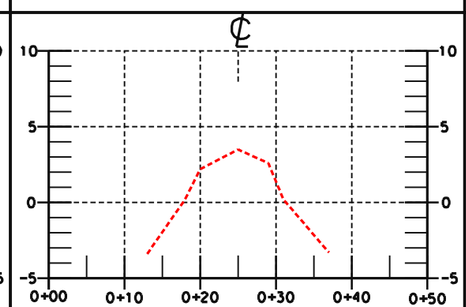
STA. 18+00




LAKE RIM RESTORATION
STA. 20+00

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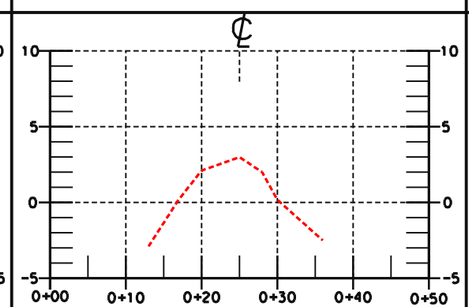
STA. 22+00

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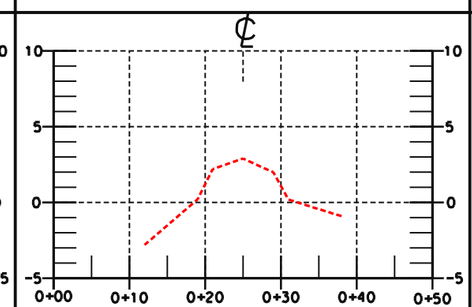
STA. 24+00

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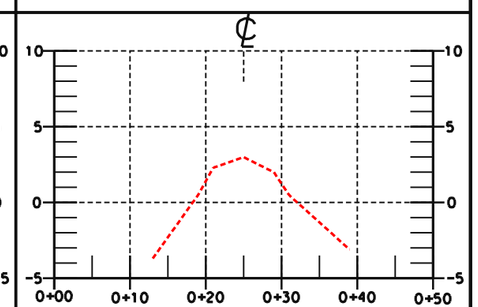


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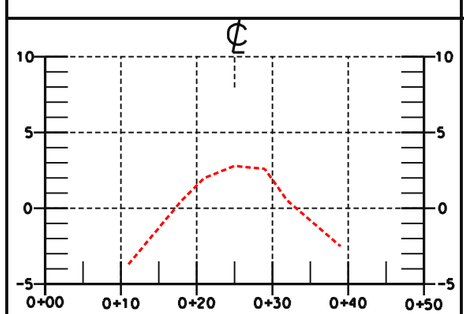


LAKE RIM RESTORATION
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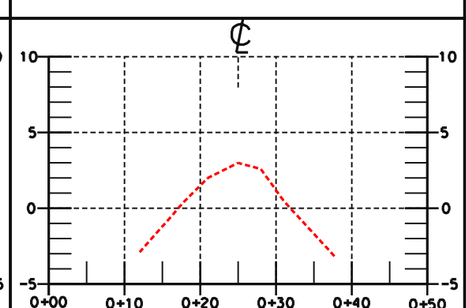


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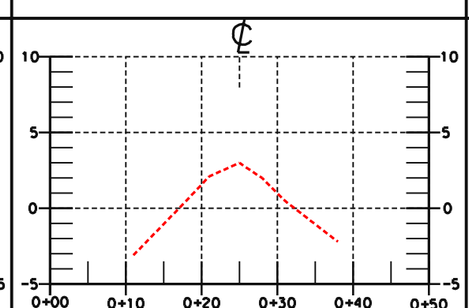


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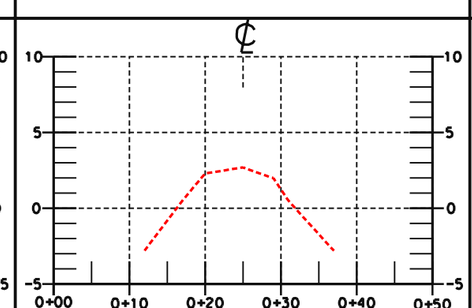
STA. 34+00

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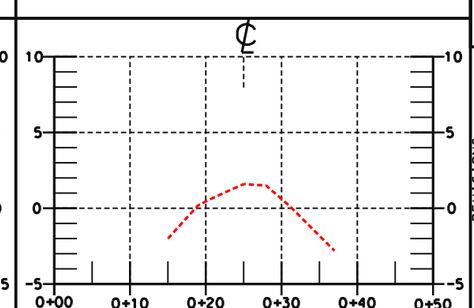
STA. 36+00




LAKE RIM RESTORATION
STA. 38+00

"AS-BUILT"

Date
Approved by E.J. GUERING, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Date
Designed L.S. GARNER 06/00
Drawn A.J. GREMILLION 01/02
Traced
Checked B. STICKER 01/02

LAKE RIM RESTORATION - SECTIONS
BA2 - CONSTRUCTION UNIT #2
AS-BUILT DRAWINGS
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS

| NO. | DATE | APPR. | TITLE |
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CAD FILENAME
LA271025A7.DGN
PROJECT NO.
LA271
SHEET NO 25A7 OF 25

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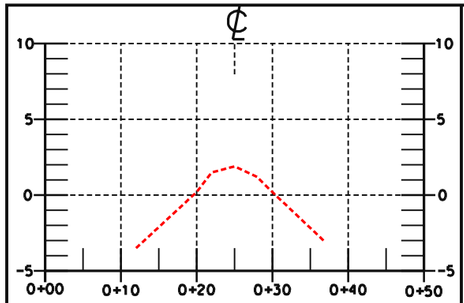
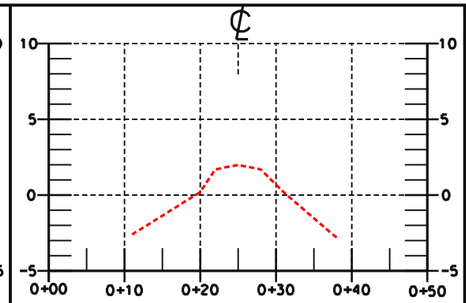
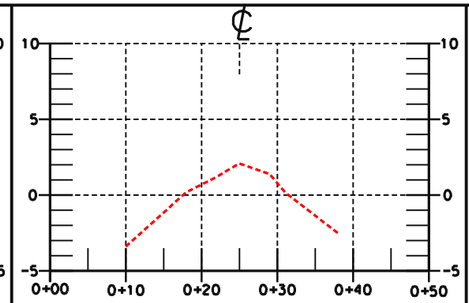


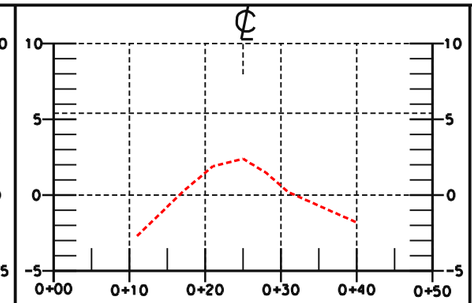

LAKE RIM RESTORATION
STA. 40+00



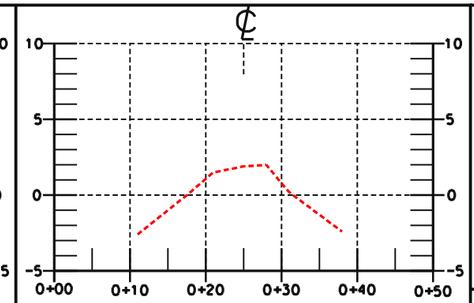

LAKE RIM RESTORATION
STA. 42+00




LAKE RIM RESTORATION
STA. 44+00




LAKE RIM RESTORATION
STA. 46+00




LAKE RIM RESTORATION
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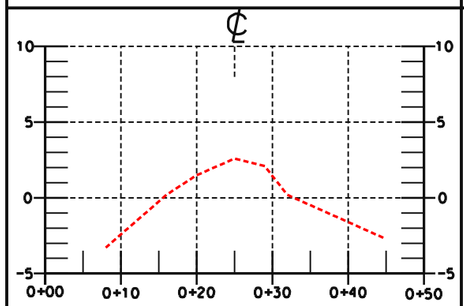
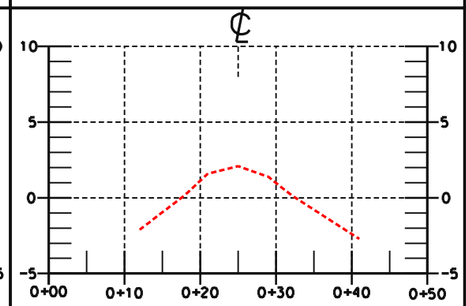
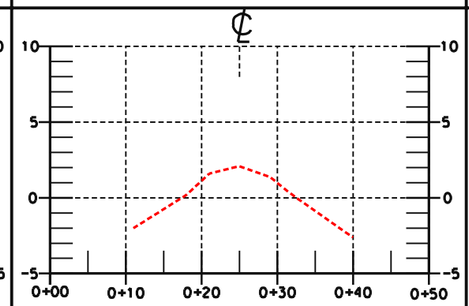


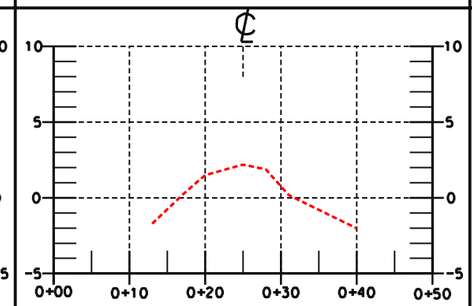

LAKE RIM RESTORATION
STA. 50+00




LAKE RIM RESTORATION
STA. 52+00




LAKE RIM RESTORATION
STA. 54+00




LAKE RIM RESTORATION
STA. 56+00

"AS-BUILT"

Date
Approved by E.J. DUERING, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Date
Designed L.S. GARNER 06/00
Drawn A.J. GREMILLION 01/.02
Traced
Checked B. STICKER 01/.02

LAKE RIM RESTORATION - SECTIONS
BA2 - CONSTRUCTION UNIT #2
AS-BUILT DRAWINGS
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | APPR. | TITLE |

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PROJECT NO.
LA271
SHEET NO 25A8 OF 25

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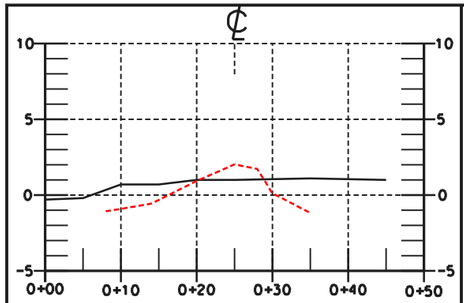


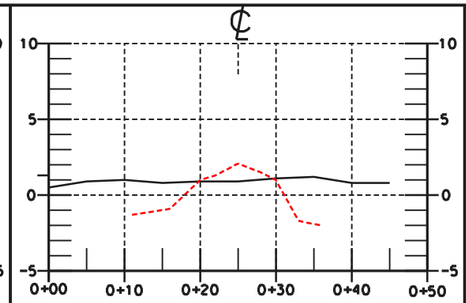


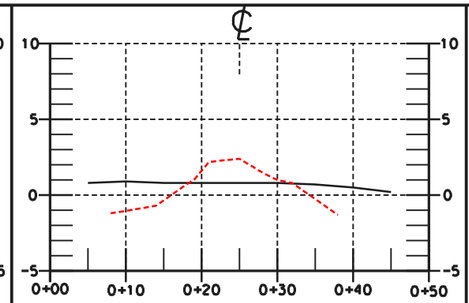


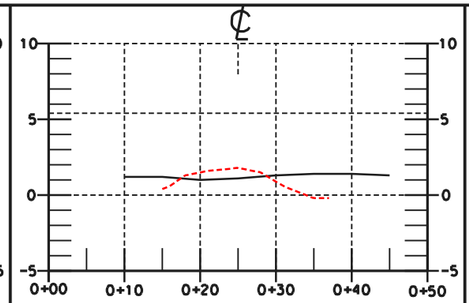


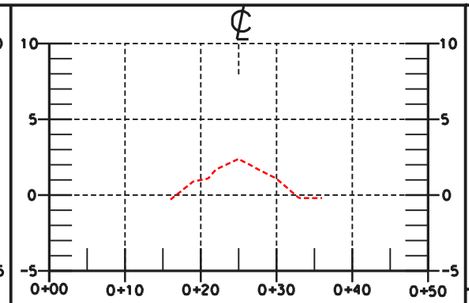


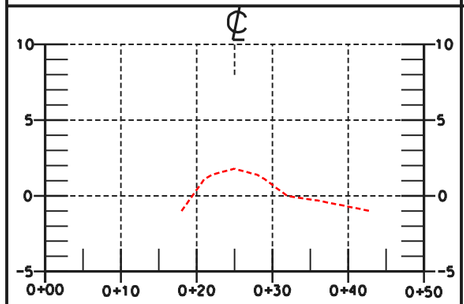


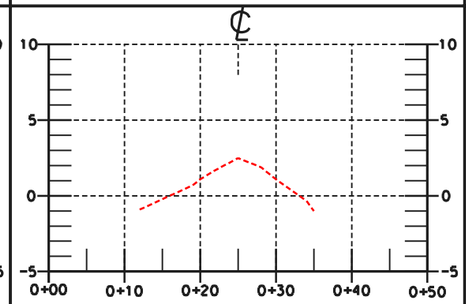


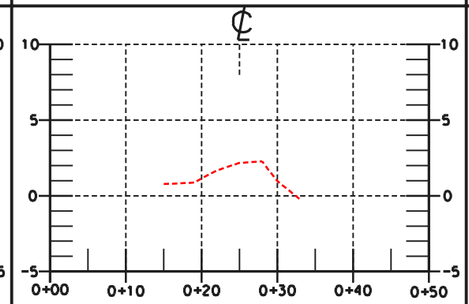


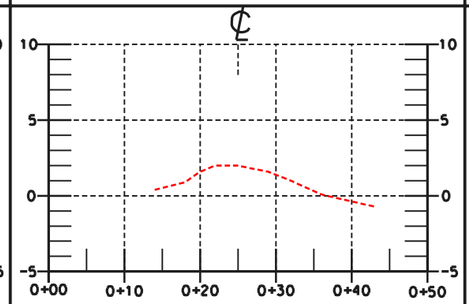


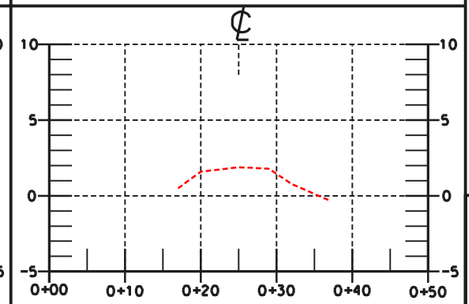


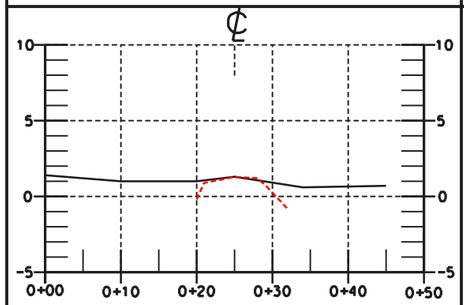


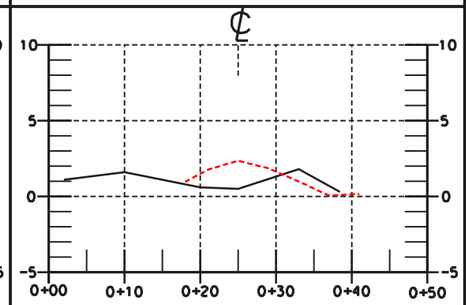


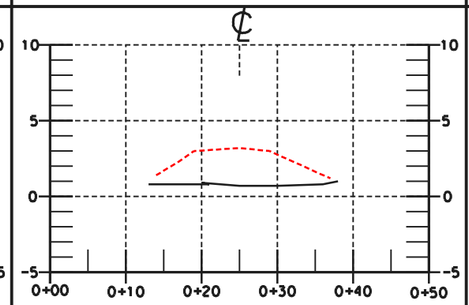


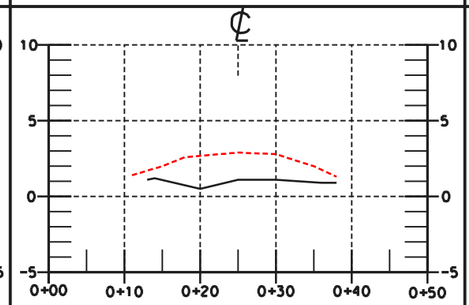


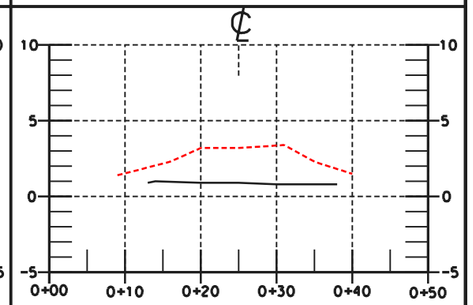


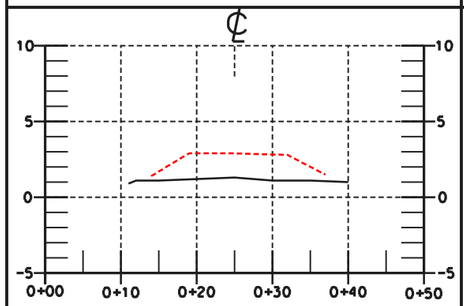


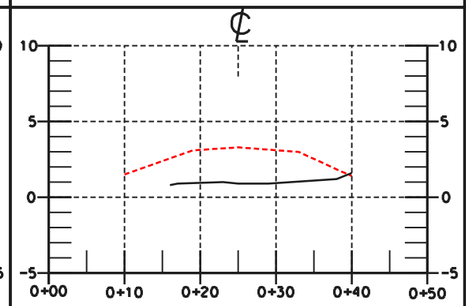


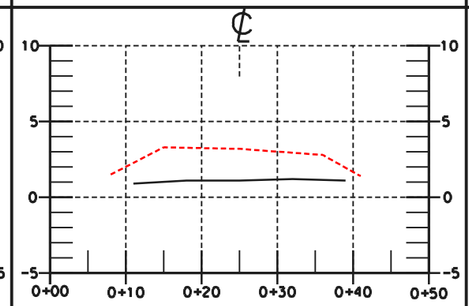


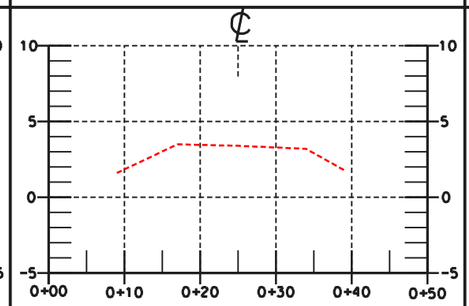


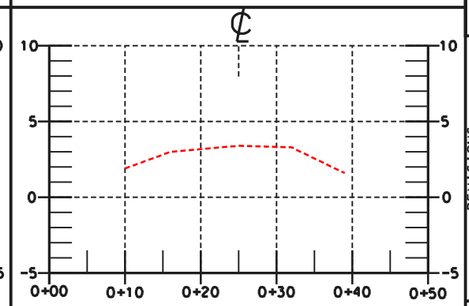


"AS-BUILT"

Date
Approved by E.J. CUERING, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Date
Designed L.S. GARNER 06/00
Drawn A.J. CREMILLION 01/02
Traced
Checked B. STICKER 01/02
Title

SECTIONS-BANK STABILIZATION - AS-BUILT
STA 4+00 - 87+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
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| NO. | DATE | APPR. | TITLE |

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LA271
SHEET NO 25A9 OF 25

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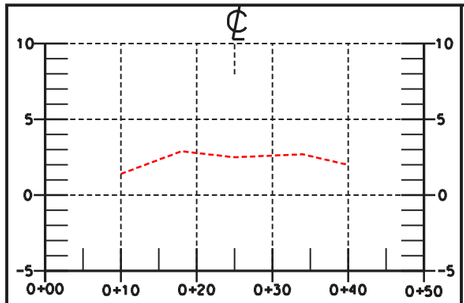


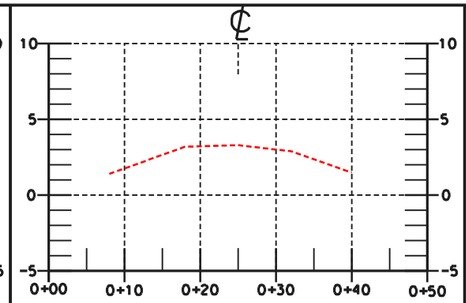


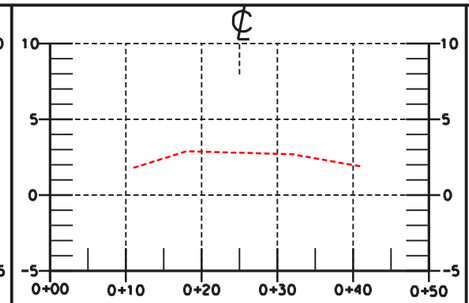


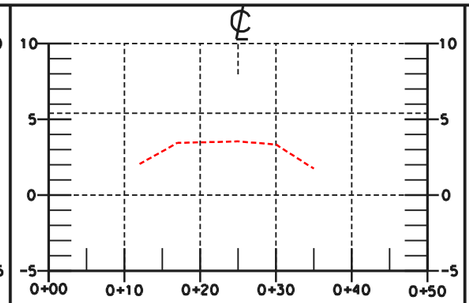


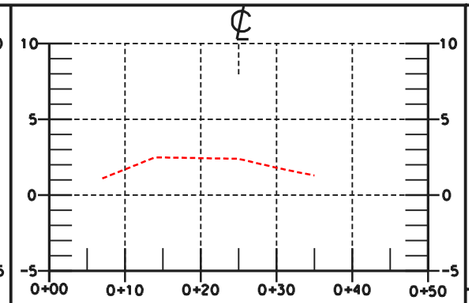


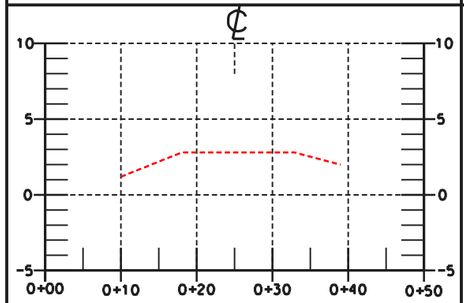


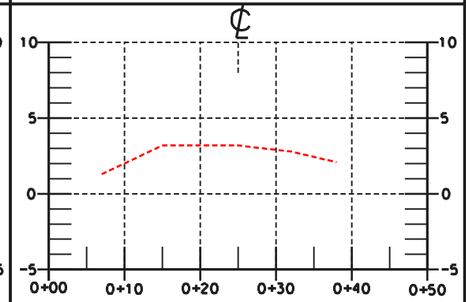


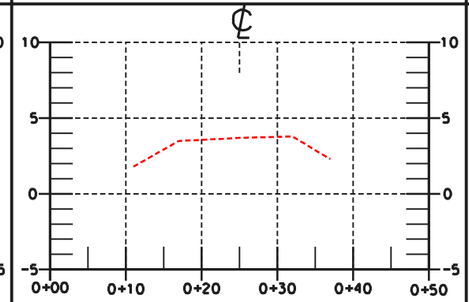


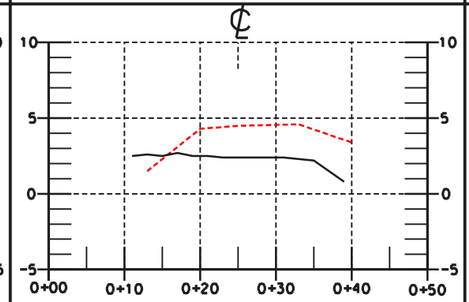


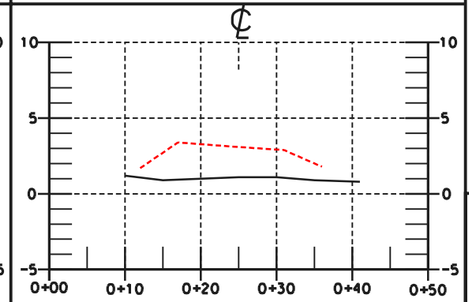


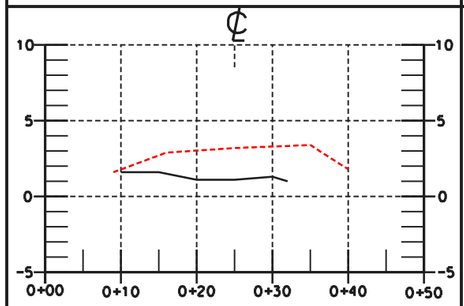


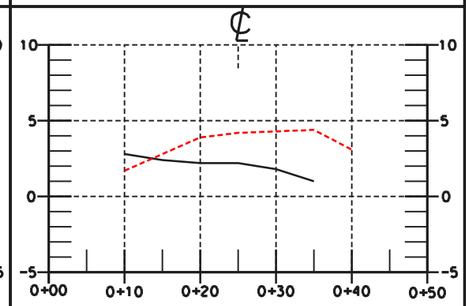


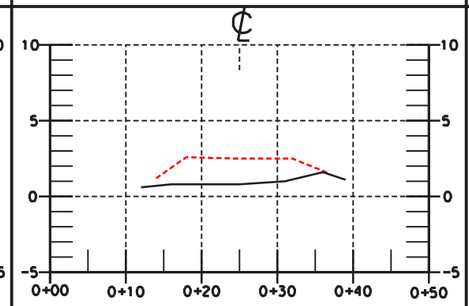


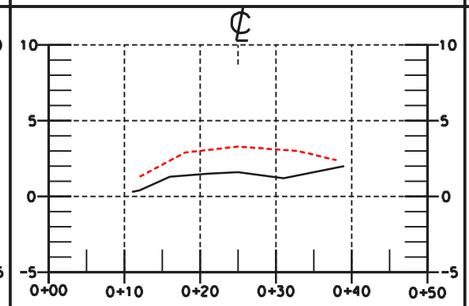


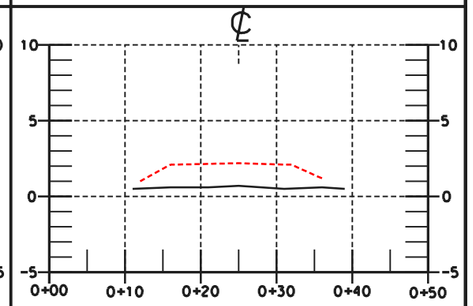


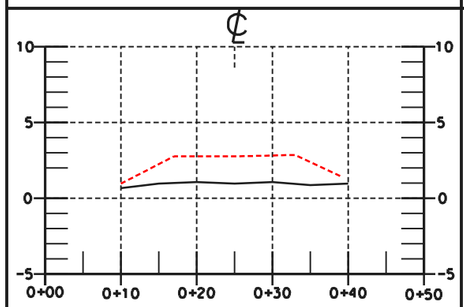


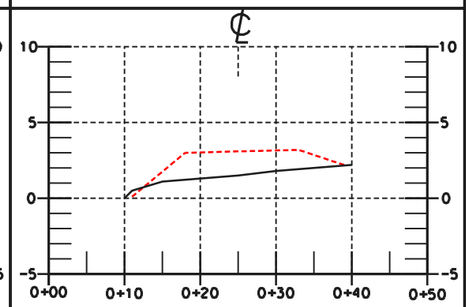


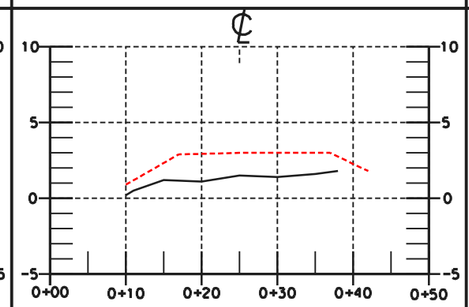


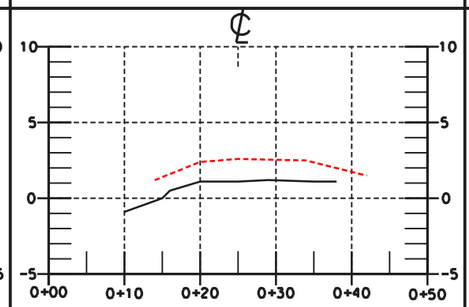


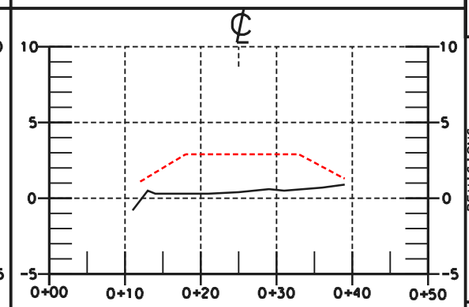


"AS-BUILT"

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ALEXANDRIA, LOUISIANA
Date
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Drawn A.J. CREMILLION 01/02
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Checked B. STICKER 01/02
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SECTIONS-BANK STABILIZATION - AS-BUILT
STA 138+00 - 348+50
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS

| NO. | DATE | APPR. | TITLE |
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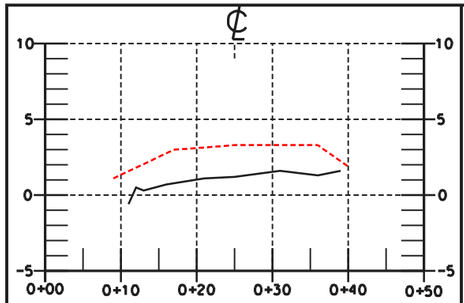


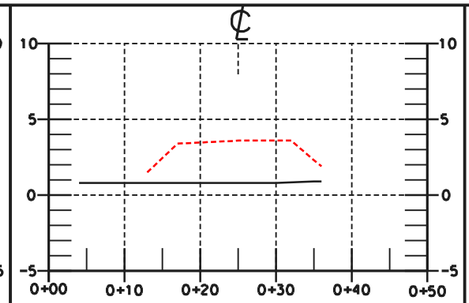


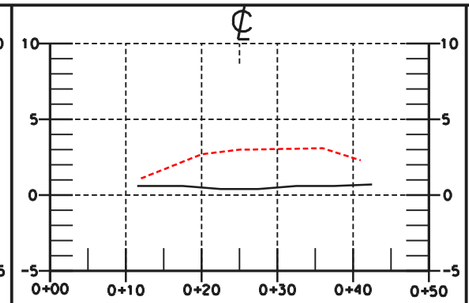


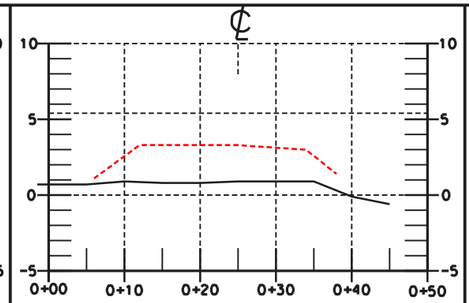


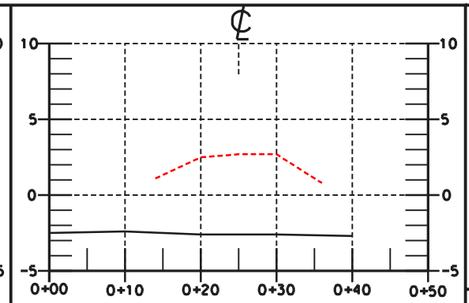


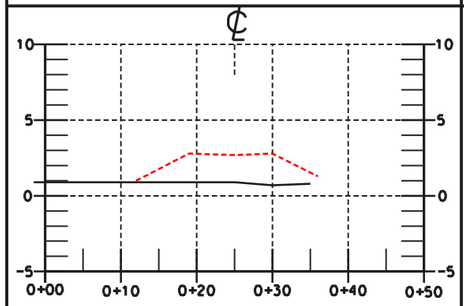


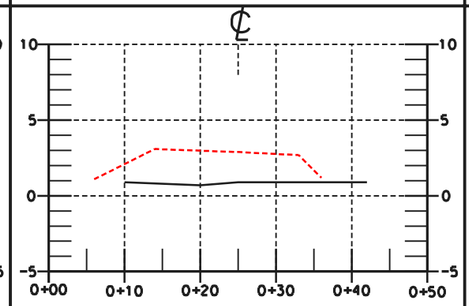


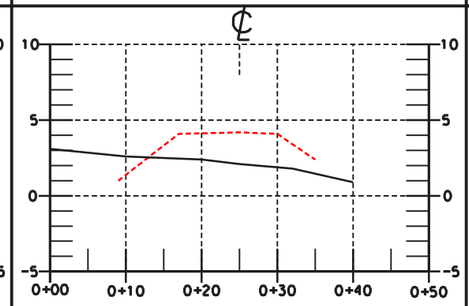


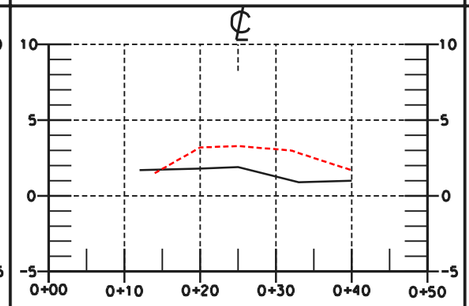


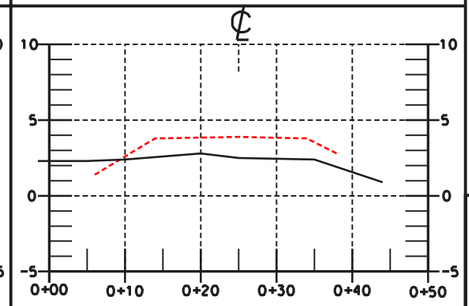


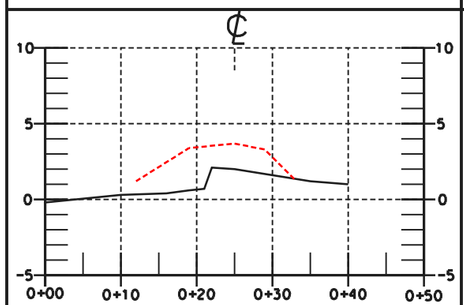


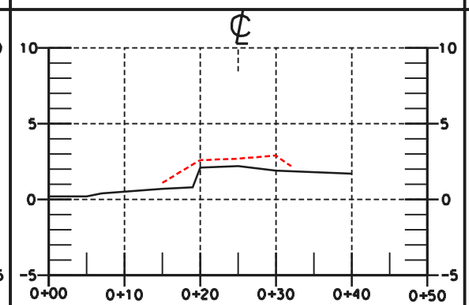


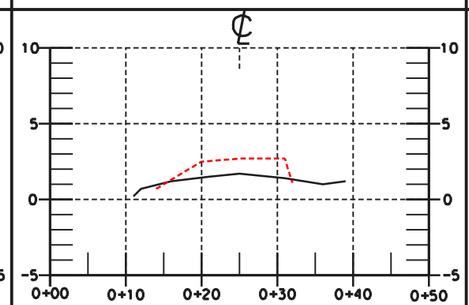


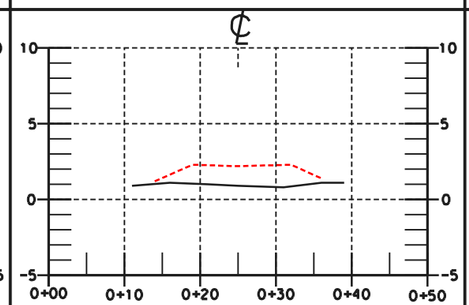


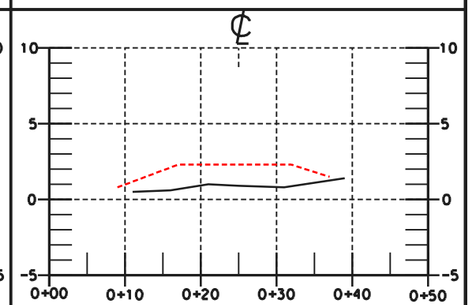


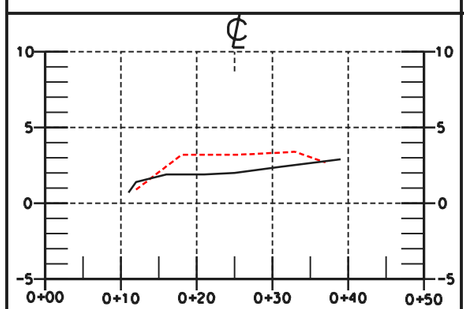


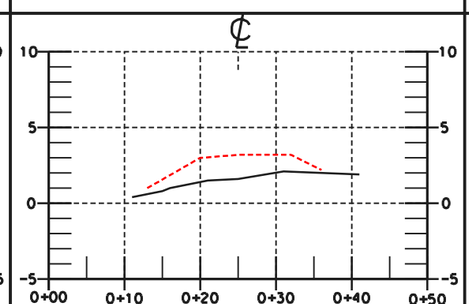


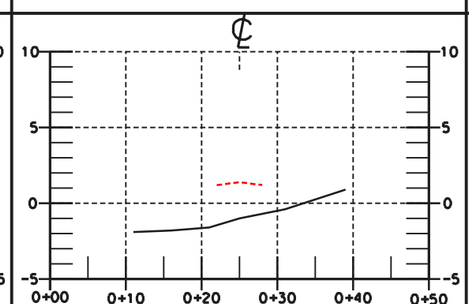


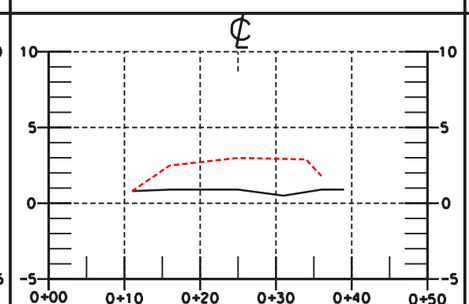


"AS-BUILT"

Approved by E.J. DUERING, III Date
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Designed L.S. GARNER 06/00 Date
Drawn A.J. CREMILLION 01/02
Traced
Checked B. STICKER 01/02

SECTIONS-BANK STABILIZATION - AS-BUILT
STA 349+50 - 563+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| REVISIONS | | | |
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| NO. | DATE | APPR. | TITLE |

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PROJECT NO.
LA271
SHEET NO 25A11 OF 25

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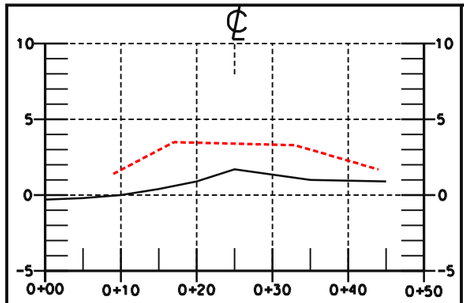


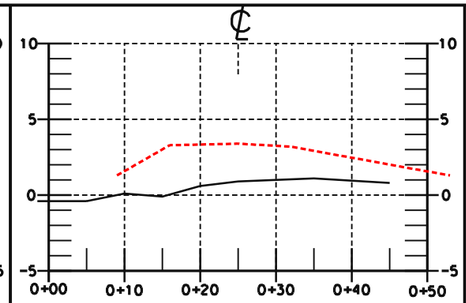


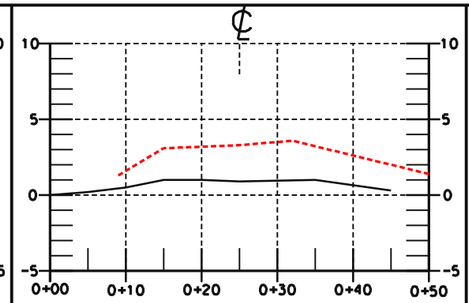


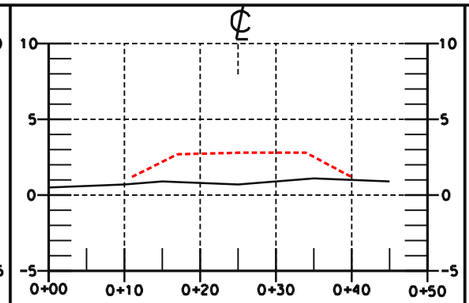


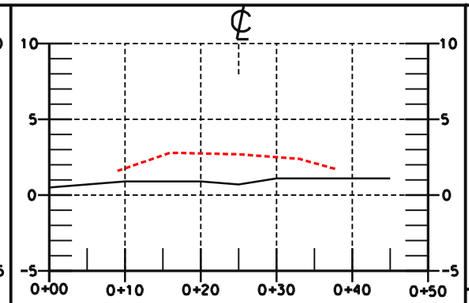


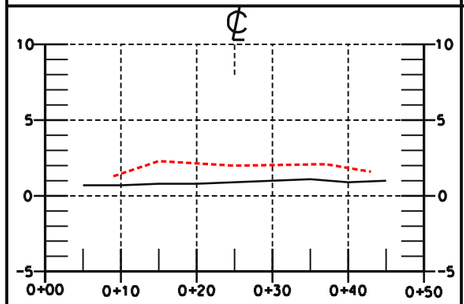


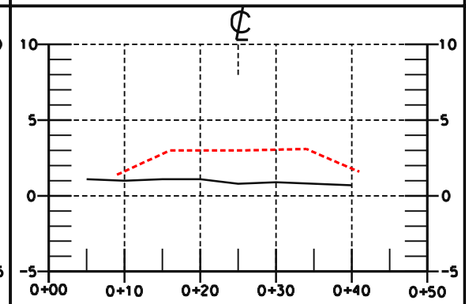


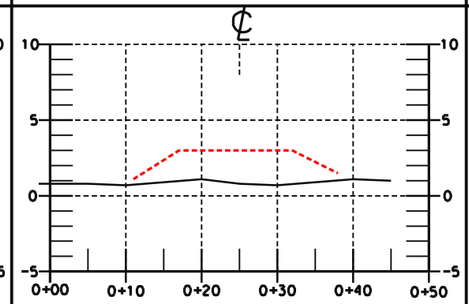


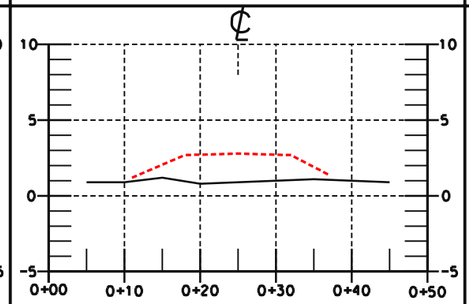


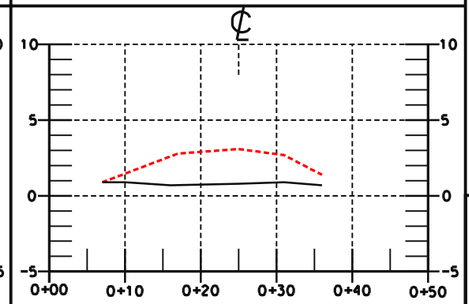


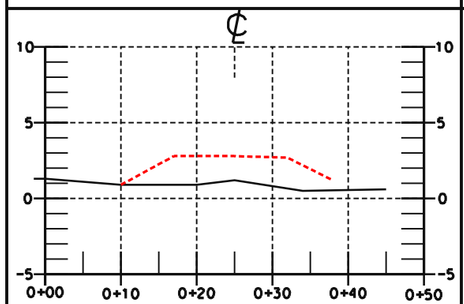


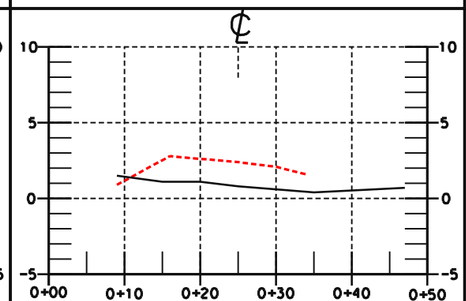


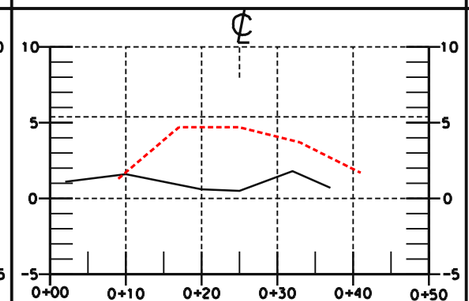


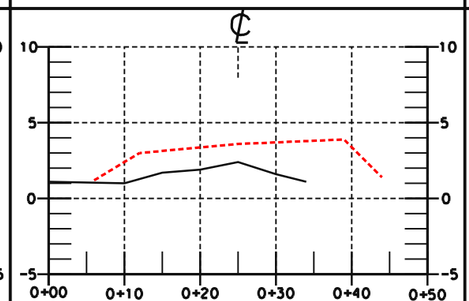


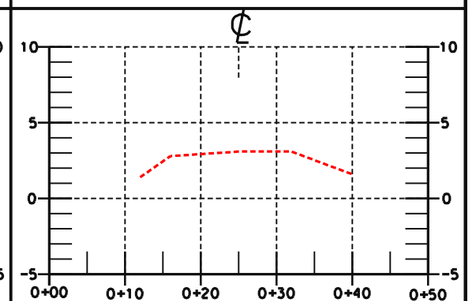


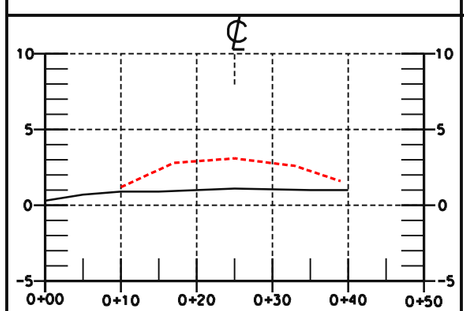


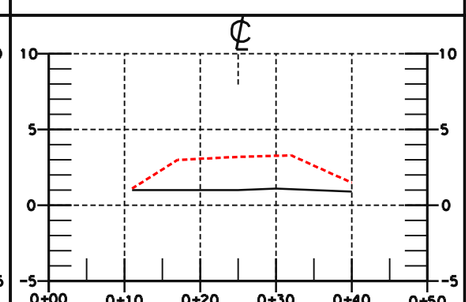


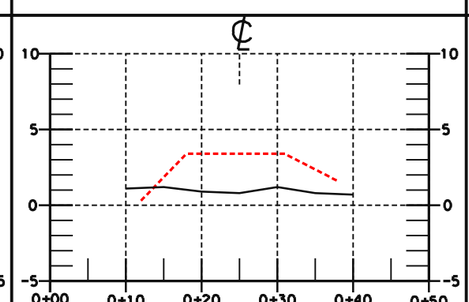


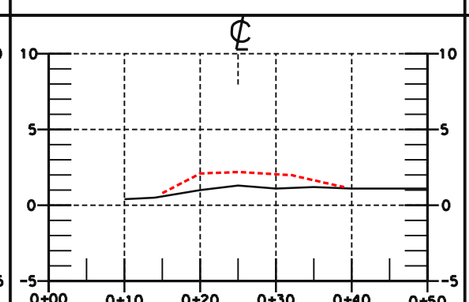


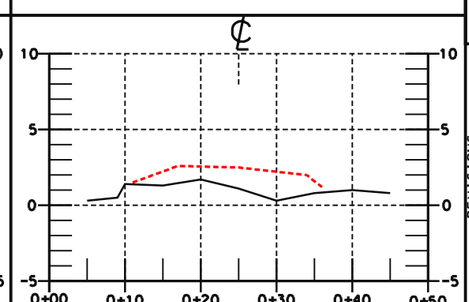


"AS-BUILT"

Date
Approved by E.J. DUERING, III
Title STATE CONSERVATION ENGINEER
ALEXANDRIA, LOUISIANA
Title

Date
Designed L.S. GARNER 06/00
Drawn A.J. GREMILLION 01/02
Traced
Checked B. STICKER 01/02

SECTIONS - ISLAND BANK STABILIZATION
STA. 1+00 - STA. 73+00
BA2 CONSTRUCTION UNIT 2
LAFOURCHE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

| NO. | DATE | APPR. | TITLE |
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| REVISIONS | | | |

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LA271
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