

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND ESTIMATED QUANTITIES
3	SITE MAP
4	SITE LAYOUT
5	SECTION VIEW
6	SLIP LINING PLAN

PRE-DESIGN SURVEY (2 SHEETS)  
AS-BUILT PLANS (8 SHEETS) (FOR REFERENCE ONLY)

STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

BARATARIA WATERWAY WEST  
MAINTENANCE PROJECT  
BA-23  
JEFFERSON PARISH



0 10,000 20,000 30,000

(IN FEET)

SCALE: 1" = 10,000'

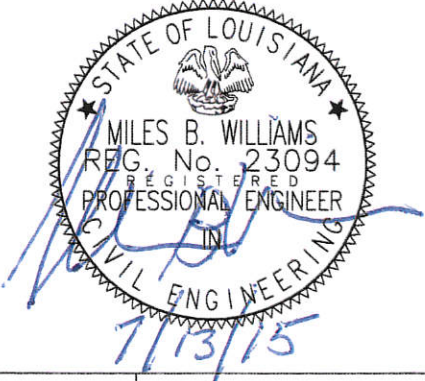
CALL BEFORE YOU DIG!


LOUISIANA ONE CALL PARTICIPANTS REQUEST  
48 HOURS NOTICE BEFORE YOU DIG,  
DRILL, OR BLAST - STOP CALL

LOUISIANA ONE CALL SYSTEM  
1-800-272-3020

TYPE OF CONSTRUCTION

CLASSIFICATION III (HEAVY CONSTRUCTION)



				<div><div><b>SIGMA</b> CONSULTING GROUP, INC.</div><div><b>ENGINEERING CONSULTANTS</b></div><div>10305 Airline Highway Baton Rouge, Louisiana 70816</div></div>	<div><b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b></div> <div>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</div>		<b>BARATARIA WATERWAY WEST MAINTENANCE PROJECT</b>		<b>TITLE SHEET</b>
STATE PROJECT NUMBER: BA-23									
FEDERAL PROJECT NUMBER: BA-23									
REV.	DATE	DESCRIPTION	BY			DRAWN BY: YARBROUGH	DESIGNED BY: WILSON	APPROVED BY: CRAIN	DATE: JULY 2015
								SHEET 1 OF 6	



GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE COASTAL PROTECTION AND RESTORATION AUTHORITY (CPRA) SECONDARY MONUMENT LISTED BELOW.

SECONDARY SURVEY MONUMENT	ELEVATION	NORTHING	EASTING
BA41-SM-01	4.78' NAVD88 (GEOID 99)	417,912.65	3,673,985.68

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE PROJECT AREA. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT AREA AND EXCAVATING ONLY WITHIN THE LIMITS SHOWN ON THE PLANS. THE ENGINEER OR RESIDENT PROJECT REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.

3. THE CONTRACTOR SHALL FOLLOW THE SPECIFIED MARSH BUGGY ACCESS ROUTE AND SHALL NOT, AT ANY TIME, TRAVERSE ACROSS EXISTING MARSH OR VEGETATED WETLAND BEYOND THE PERMITTED ACCESS ROUTE SHOWN ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4. ALL MARINE EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING THE TRANSIT TO AND FROM THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LANDOWNERS AND PIPELINE/UTILITY OPERATORS AT LEAST 5 WORKING DAYS PRIOR TO MOBILIZATION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE MARKED WITH BUOYS OR FLAGGED STAKES BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS OR FLAGGED STAKES DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE CLEARANCES FROM THE PIPELINES SET FORTH IN PLANS AND SPECIFICATIONS. SEE SP-10 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. NO EXCAVATION IS ALLOWED WITHIN 50 FEET OF A PIPELINE UNLESS OTHERWISE STIPULATED IN AGREEMENT. THE FOLLOWING IS A LIST OF UTILITIES AND PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. PIPELINE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATIONS. THE OWNER IS NOT LIABLE FOR EXACT LOCATIONS. THE CONTRACTOR MUST CALL LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 5 WORKING DAYS PRIOR TO MOBILIZATION.

SABALO ENERGY, LLC  
CONTACT: ROBERT HELM  
(361) 844-6035

5. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED IN ONE IS AS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS WILL BE ISSUED BY THE ENGINEER.

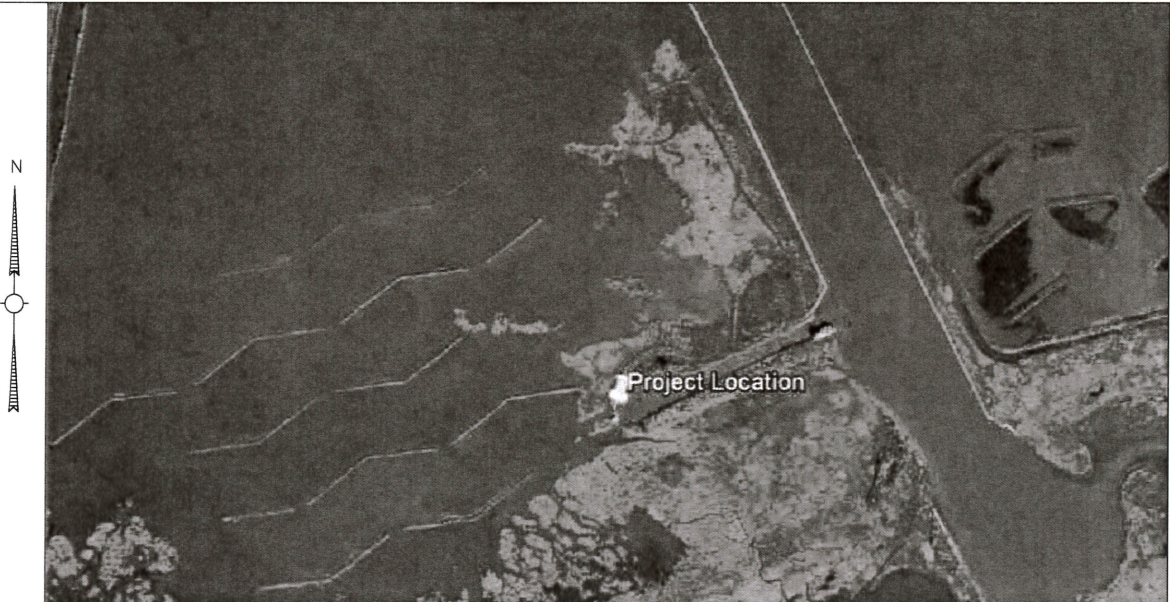
6. THE SURVEY DATA SHOWN ON THE PLANS IS BASED ON THE FIELD SURVEYS PERFORMED 12-08-2014 BY SIGMA CONSULTING GROUP, INC. FOR CPRA. ESTIMATED DESIGN QUANTITIES SHOWN ARE FOR BIDDING PURPOSES AND WERE BASED ON THESE SURVEYS. QUANTITIES WERE CALCULATED USING AVERAGE END AREA METHOD AND AUTOCAD DIGITAL TERRAIN MODELS. AN UPDATED PRE-CONSTRUCTION SURVEY SHALL BE PERFORMED AS PART OF THIS CONTRACT PER TS-2.2.

7. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY IN ALL AREAS OF EXCAVATION AND OTHER WORK THAT MAY POTENTIALLY DAMAGE OR INTERFERE WITH EXISTING INFRASTRUCTURE PRIOR TO ANY WORK.

8. THE WATER CONTROL STRUCTURE EARTHEN BERM RESTORATION ALIGNMENT AND BORROW AREAS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

9. ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.

10. MEAN WATER LEVEL (MWL) WAS CALCULATED FROM THE CRMS GAGE CRMS0248-H01 LOCATED DUE EAST OF THE PROJECT AREA ON THE OPPOSITE BANK OF THE BARATARIA BAY WATERWAY. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET. MWL=1.13,' 90th PERCENTILE WATER ELEVATION= 1.80', 10th PERCENTILE WATER ELEVATION=0.48'. PERIOD OF ANALYSIS WAS OCTOBER, 2013 - SEPTEMBER, 2014.



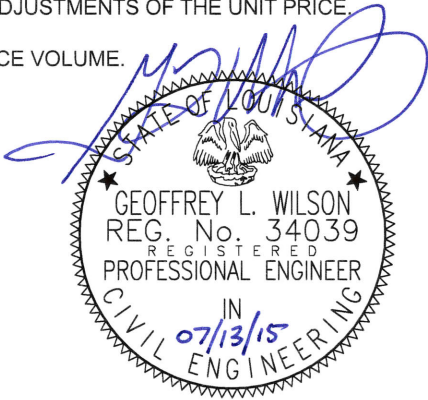
VICINITY MAP (NOT TO SCALE)


SUMMARY OF ESTIMATED QUANTITIES

BASE BID

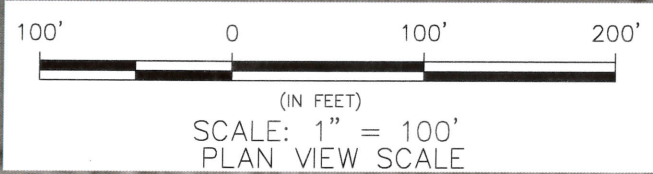
ITEM No.	DESCRIPTION	UNIT	ESTIMATED <sup>1</sup> QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	SURVEYING	LUMP SUM	1
3	EARTHEN FILL <sup>2</sup>	CUBIC YARDS	175
4	GEOTEXTILE FABRIC	SQUARE YARDS	260
5	55 LB. CLASS ROCK	SQUARE YARDS	230
6	SLIP LINING	LINEAR FOOT	92
7	DEWATERING	LUMP SUM	1

1. QUANTITIES SHOWN ARE FOR BID PURPOSES ONLY AND WERE CALCULATED ACCORDING TO THE CONDITIONS SURVEYED IN DECEMBER, 2014. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENTS OF THE UNIT PRICE.
2. EARTHEN FILL QUANTITIES ARE BASED ON FINAL IN-PLACE VOLUME.

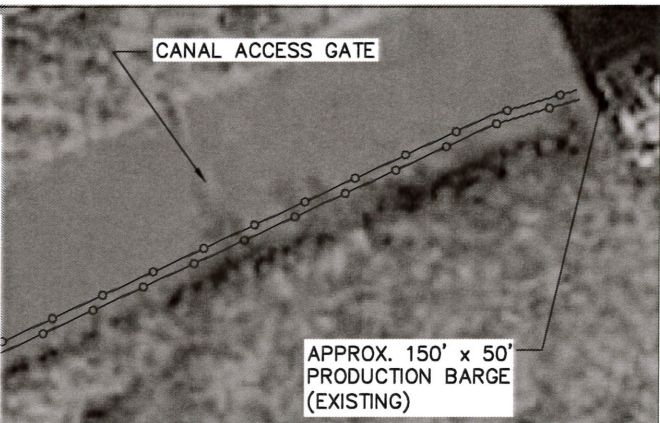


				<div><div><b>SIGMA</b> CONSULTING GROUP, INC.</div><div><b>ENGINEERING CONSULTANTS</b></div><div>10305 Airline Highway Baton Rouge, Louisiana 70816</div></div>	<div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</div>		BARATARIA WATERWAY WEST MAINTENANCE PROJECT		GENERAL NOTES AND ESTIMATED QUANTITIES
STATE PROJECT NUMBER: BA-23									
FEDERAL PROJECT NUMBER: BA-23		DATE: JULY 2015							
REV.	DATE	DESCRIPTION	BY			DRAWN BY: YARBROUGH	DESIGNED BY: WILSON	APPROVED BY: CRAIN	SHEET 2 OF 6





- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN 2015.
  2. OILFIELD ACCESS CANAL SHALL BE USED AS THE SOLE ACCESS POINT FOR EQUIPMENT ENTERING AND EXITING THE PROJECT AREA. EQUIPMENT SHALL REMAIN FLOATING AT ALL TIMES WHEN TRANSITING THE PROJECT AREA.
  3. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED ON EXISTING HEALTHY MARSH.
  4. PIPELINE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT PIPELINE LOCATIONS WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION. PIPELINES WITHIN 150' OF BORROW OR FILL AREAS SHALL BE PROBED AND LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  5. MAINTAIN 50' MINIMUM LATERAL CLEARANCE FROM EXISTING PIPELINES AND PLATFORMS, TYPICAL ALL LOCATIONS.
  6. EXISTING RIPRAP SCOUR PROTECTION ON THE EAST SIDE OF THE WATER CONTROL STRUCTURE SHALL BE MARKED FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES. NO EARTHWORK SHALL BE PERFORMED IN THIS AREA.
  7. ANY DAMAGE TO EXISTING STRUCTURES IN THE PROJECT AREA RESULTING FROM CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  8. MAXIMUM DEPTH OF THE EXCAVATION SHALL BE LIMITED TO ELEVATION -10.0' NAVD88.



EXISTING RIPRAP TO REMAIN UNDISTURBED; NO EARTHWORK TO BE PERFORMED IN THIS AREA (SEE SHEET 5 FOR DETAILS)

WATER CONTROL STRUCTURE WORK AREA

BORROW AREA "C"

BORROW AREA "A"

MADISON LAND CO. NO. 1 WELL

OILFIELD ACCESS CANAL

6" PIPELINES

STRUCTURE LOCATION (EXISTING)

BORROW AREA "B"

MARSH BUGGY ACCESS ROUTE

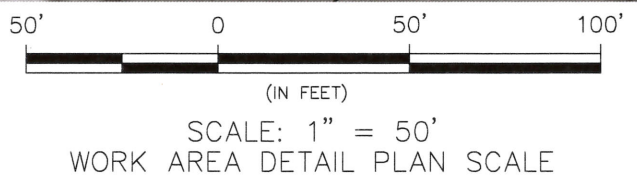
BORROW AREA "C"

WELL PLATFORM

BORROW AREA "A"

APPROXIMATE EXTENTS OF RIPRAP FILL

BORROW AREA "B"



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REV.	DATE	DESCRIPTION	BY

**SIGMA**  
CONSULTING  
GROUP, INC.  
ENGINEERING CONSULTANTS  
10305 Airline Highway  
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801  
DRAWN BY: AMEDEE      DESIGNED BY: WILSON

BARATARIA WATERWAY WEST MAINTENANCE PROJECT	SITE MAP
STATE PROJECT NUMBER: BA-23	
FEDERAL PROJECT NUMBER: BA-23	DATE: JULY 2015
APPROVED BY: CRAIN	SHEET 3 OF 6



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LEGEND



PROPOSED 55# RIP RAP (12" THICK)

0

EXISTING GROUND CONTOURS

0

PROPOSED CONTOURS



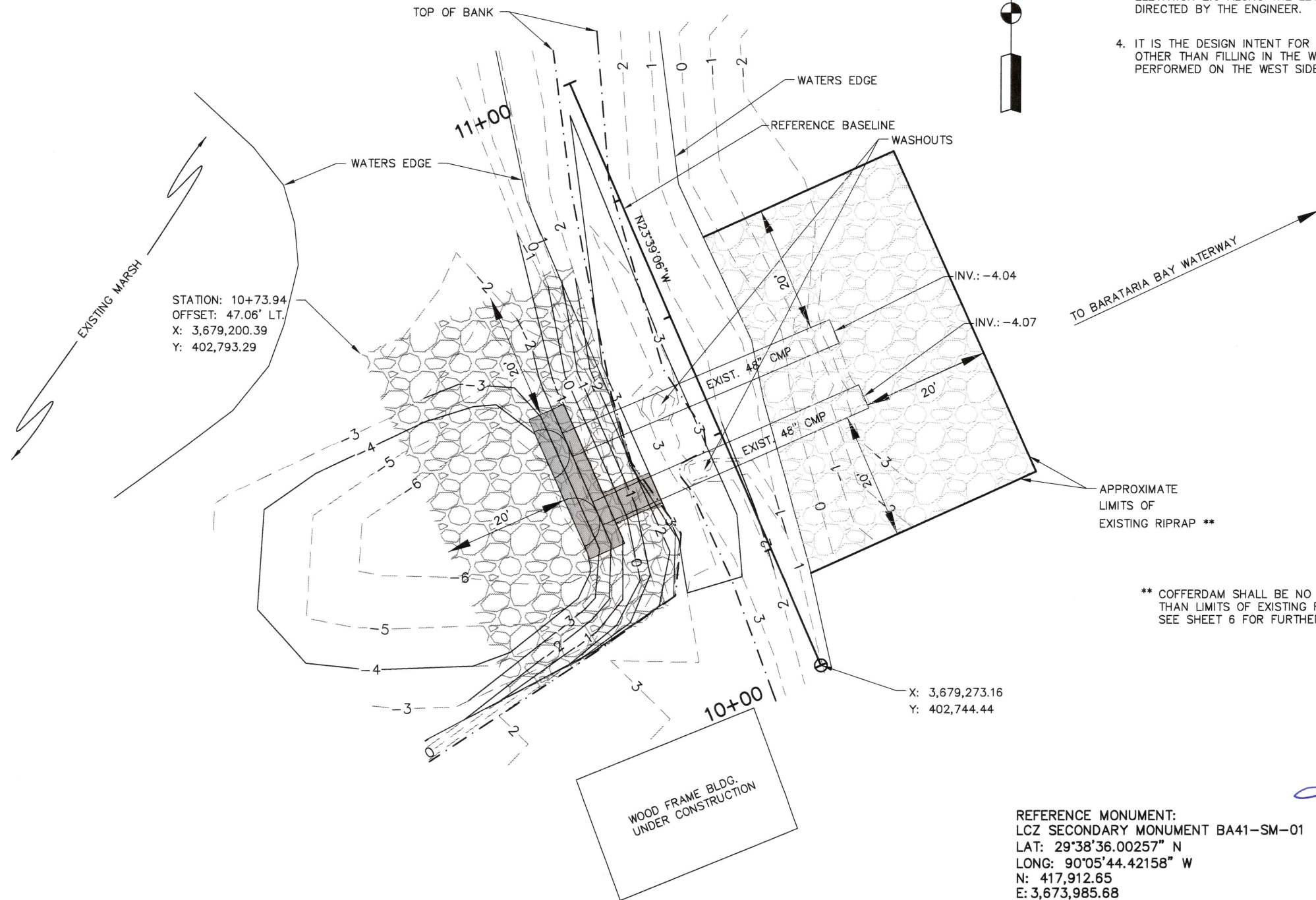
EXISTING WOODEN WALKWAY & METAL DECKING

▲ CONTROL POINT: 1/2" I.P. W/ CAP  
LAT: 29°36'06.51331" N  
LONG: 90°04'46.78785" W  
N: 402,868.40  
E: 3,679,236.18  
ELEV: 3.43' NAVD88 (GEOID 99)



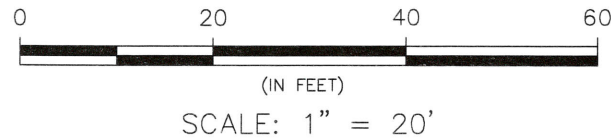
NOTES:

1. BASELINE SHOWN IS FOR REFERENCE PURPOSES ONLY. NO MONUMENTATION WAS SET IN THE FIELD.
2. WORK SHALL BE SEQUENCED SUCH THAT THE SLIP LINING BE PERFORMED PRIOR TO THE LEVEE RESTORATION.
3. THE LIMITS OF RIPRAP PLACEMENT SHALL BE 20 FEET FROM THE FACE OF THE CONTROL STRUCTURE (WEST), 20 FEET NORTH OF THE METAL DECKING, AND TO ELEVATION 2.0 ALONG THE LEVEE OR AS OTHERWISE DIRECTED BY THE ENGINEER.
4. IT IS THE DESIGN INTENT FOR ALL THE EARTHWORK OTHER THAN FILLING IN THE WASHOUTS TO BE PERFORMED ON THE WEST SIDE OF THE LEVEE.



REFERENCE MONUMENT:  
LCZ SECONDARY MONUMENT BA41-SM-01  
LAT: 29°38'36.00257" N  
LONG: 90°05'44.42158" W  
N: 417,912.65  
E: 3,673,985.68  
ELEV: 4.78' NAVD88 (GEOID 99)  
ELLIPSOID HEIGHT: -78.08'

SURVEY PERFORMED DECEMBER 8, 2014



REV.	DATE	DESCRIPTION	BY

**SIGMA**  
CONSULTING  
GROUP, INC.  
ENGINEERING CONSULTANTS  
10305 Airline Highway  
Baton Rouge, Louisiana 70816

COASTAL PROTECTION AND  
RESTORATION AUTHORITY

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE

DESIGNED BY: WILSON

BARATARIA WATERWAY WEST  
MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-23

FEDERAL PROJECT NUMBER: BA-23

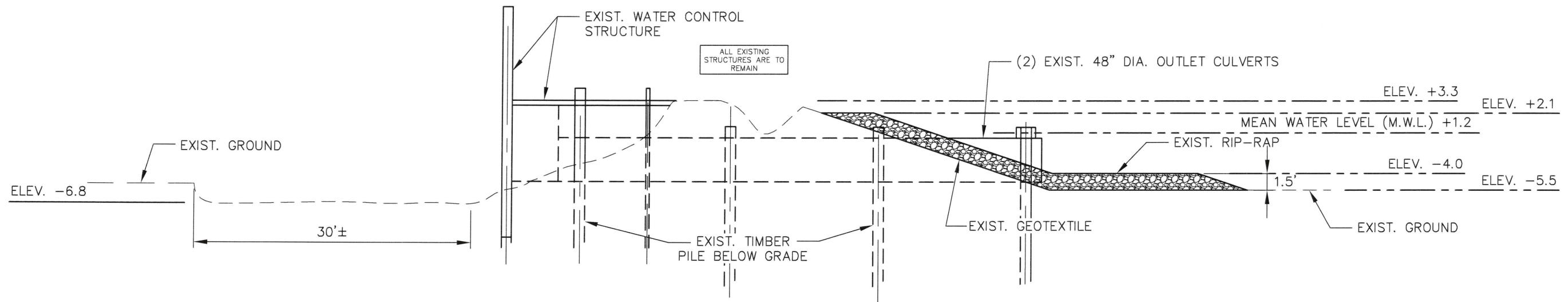
APPROVED BY: CRAIN

SITE LAYOUT

DATE: JULY 2015

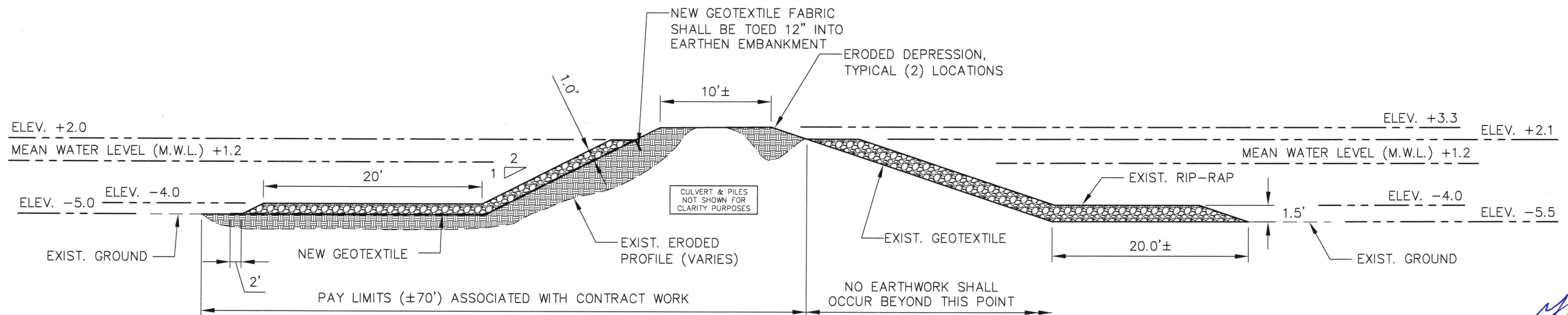
SHEET 4 OF 6





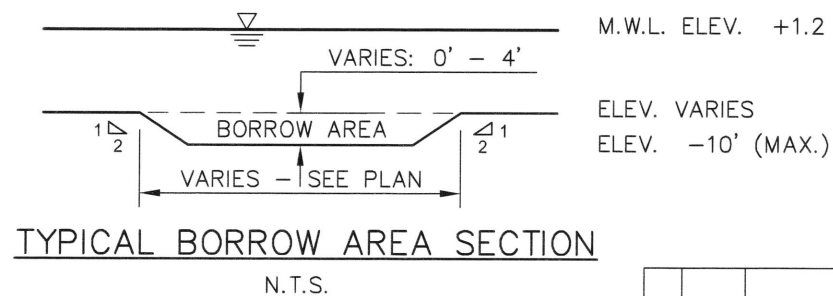
EXISTING SECTION AT WATER CONTROL STRUCTURE

N.T.S.



REQUIRED REPAIR SECTION

N.T.S.



REV.	DATE	DESCRIPTION	BY

**SIGMA**  
CONSULTING  
GROUP, INC.  
ENGINEERING CONSULTANTS  
10305 Airline Highway  
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND  
RESTORATION AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: LEMONS

DESIGNED BY: WILSON

BARATARIA WATERWAY WEST  
MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-23

FEDERAL PROJECT NUMBER: BA-23

APPROVED BY: CRAIN

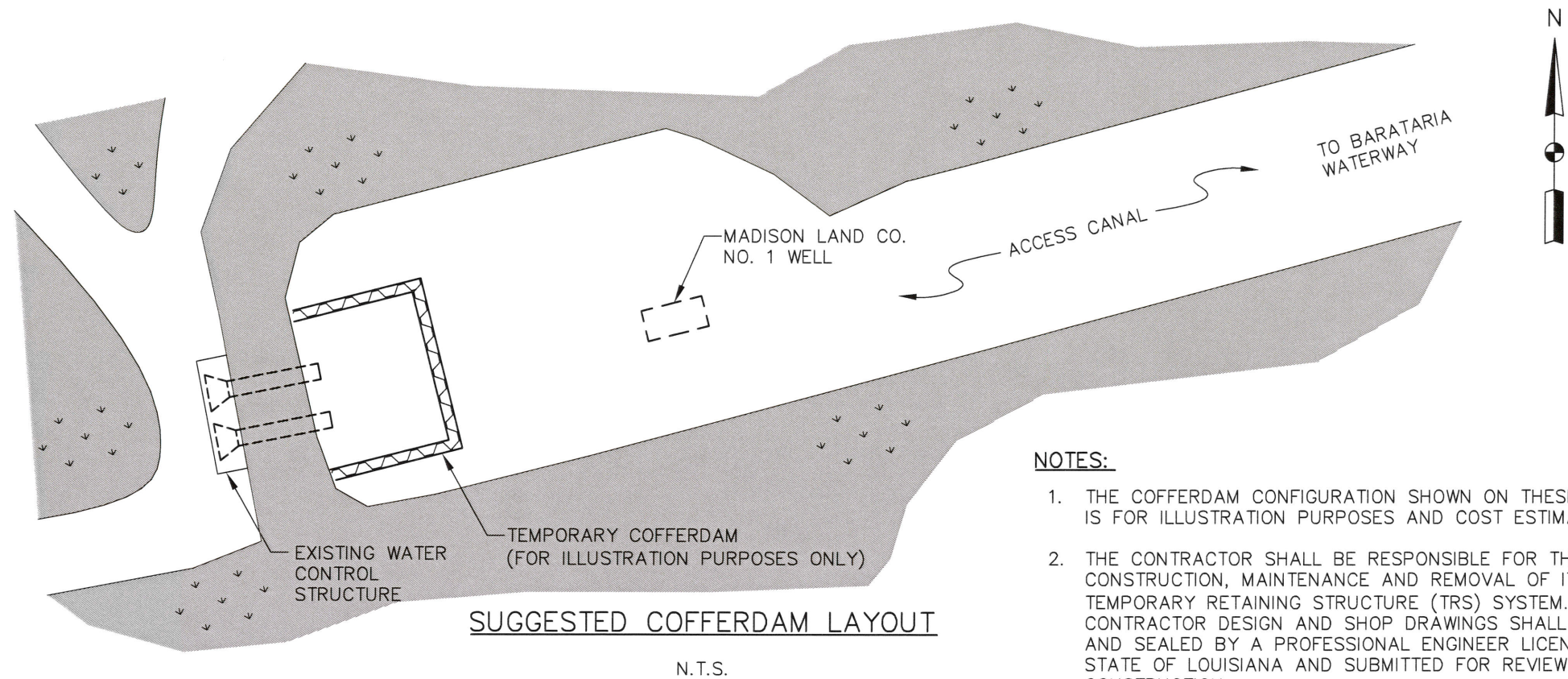
SECTION VIEW

DATE: JULY 2015

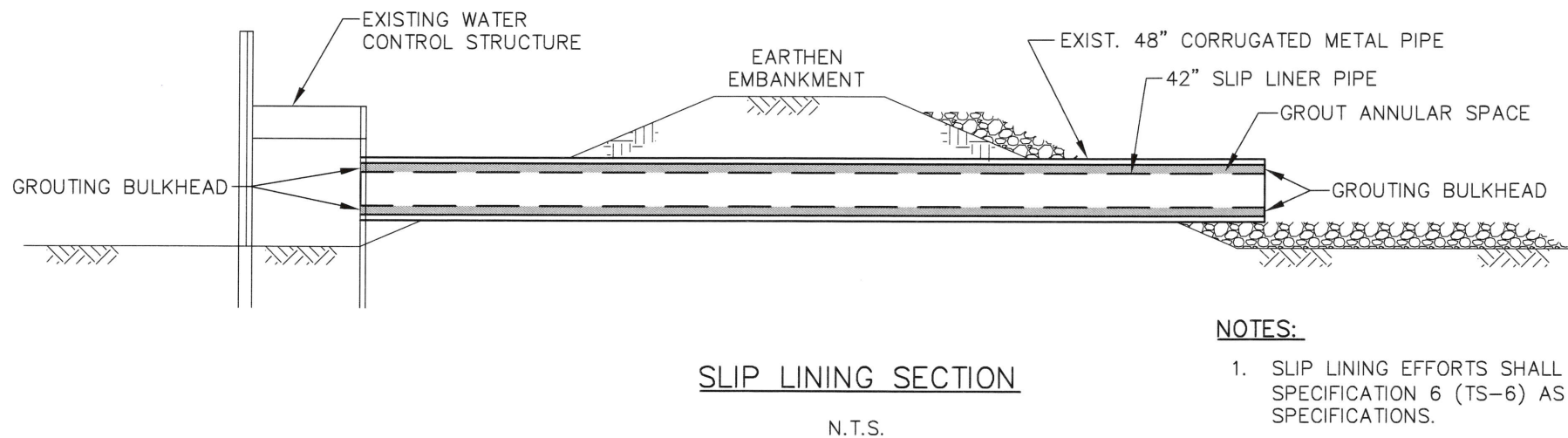
SHEET 5 OF 6



F:\02020\141002\01800\141002\_Slip-Lining Plan.dwg [T501] Jul 10, 2015 - 9:10am



- NOTES:**
- 1. THE COFFERDAM CONFIGURATION SHOWN ON THESE DRAWINGS IS FOR ILLUSTRATION PURPOSES AND COST ESTIMATION ONLY.
  - 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, MAINTENANCE AND REMOVAL OF ITS OWN TEMPORARY RETAINING STRUCTURE (TRS) SYSTEM. THE CONTRACTOR DESIGN AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA AND SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.
  - 3. TRS (COFFERDAM) LOCATION SHALL BE DETERMINED BY THE CONTRACTOR. HOWEVER, THE LOCATION OF THE COFFERDAM SHALL BE NO CLOSER TO THE EXISTING STRUCTURE THAN THE LIMITS OF THE EXISTING RIPRAP.



- NOTES:**
- 1. SLIP LINING EFFORTS SHALL COMPLY WITH TECHNICAL SPECIFICATION 6 (TS-6) AS PROVIDED IN THE PROJECT BID SPECIFICATIONS.



REV.	DATE	DESCRIPTION	BY



**SIGMA**  
CONSULTING  
GROUP, INC.  
**ENGINEERING CONSULTANTS**  
10305 Airline Highway  
Baton Rouge, Louisiana 70816

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

DRAWN BY: YARBROUGH      DESIGNED BY: WILSON

**BARATARIA WATERWAY WEST  
MAINTENANCE PROJECT**

STATE PROJECT NUMBER: BA-23  
FEDERAL PROJECT NUMBER: BA-23  
APPROVED BY: CRAIN

SLIP LINING PLAN

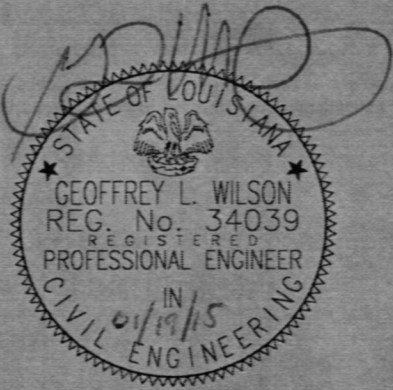
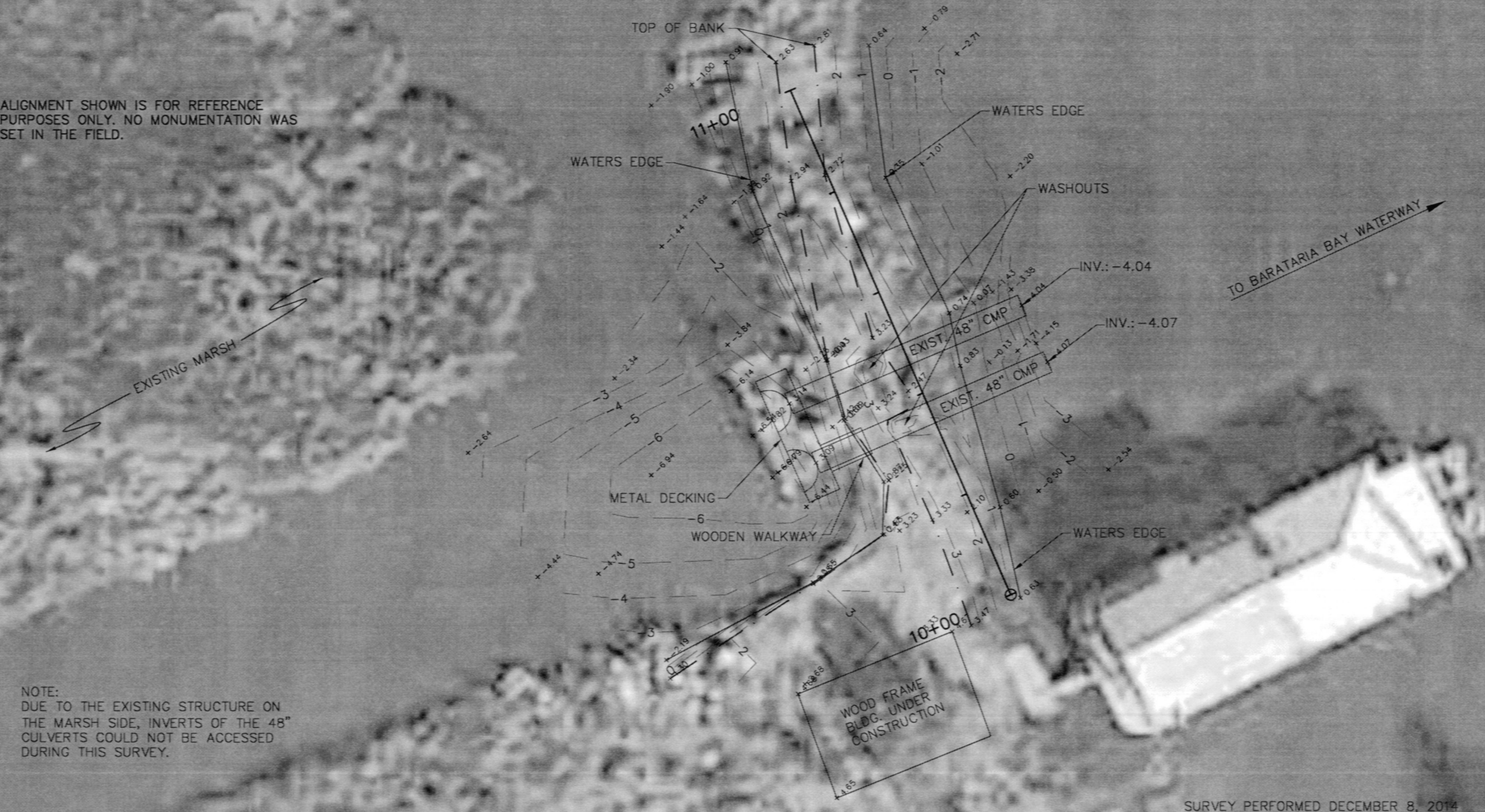
DATE: JULY 2015  
SHEET 6 OF 6



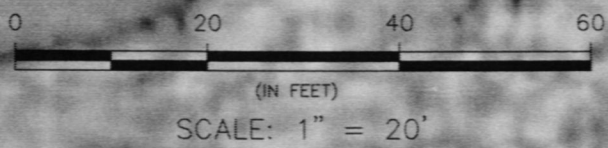
REFERENCE MONUMENT:  
LCZ SECONDARY MONUMENT BA41-SM-01  
LAT: 29°38'36.00257" N  
LONG: 90°05'44.42158" W  
N: 417,912.65  
E: 3,673,985.68  
ELEV: 4.78' NAVD88 (GEOID 99)  
ELLIPSOID HEIGHT: -78.08'

ALIGNMENT SHOWN IS FOR REFERENCE  
PURPOSES ONLY. NO MONUMENTATION WAS  
SET IN THE FIELD.

▲ CONTROL POINT: 1/2" I.P. W/ CAP  
LAT: 29°36'06.51331" N  
LONG: 90°04'46.78785" W  
N: 402,868.40  
E: 3,679,236.18  
ELEV: 3.43' NAVD88 (GEOID 99)



NOTE:  
DUE TO THE EXISTING STRUCTURE ON  
THE MARSH SIDE, INVERTS OF THE 48"  
CULVERTS COULD NOT BE ACCESSED  
DURING THIS SURVEY.

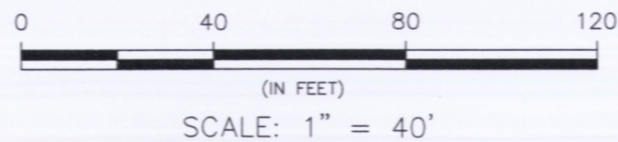
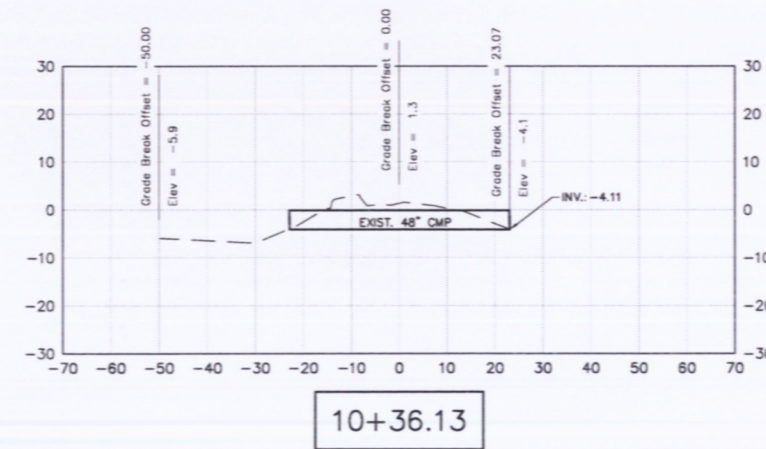
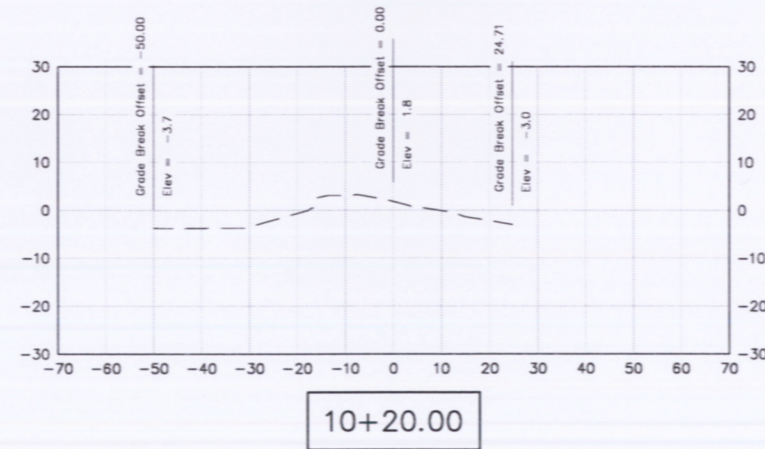
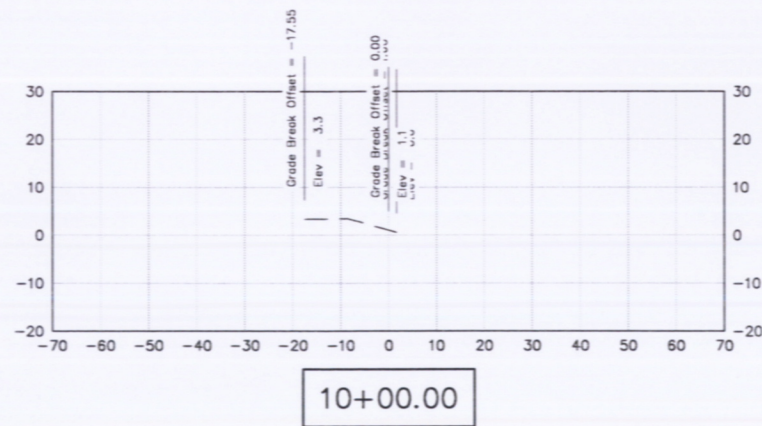
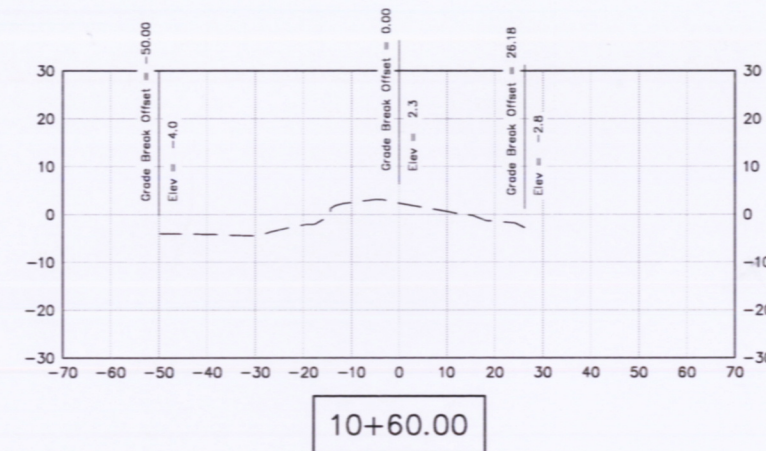
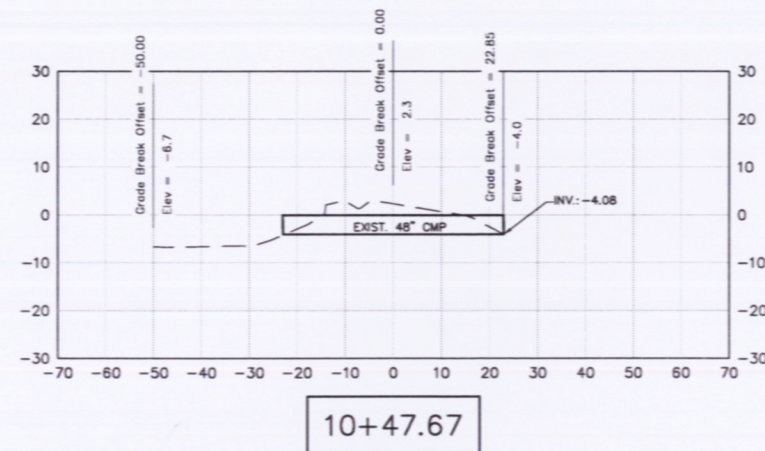
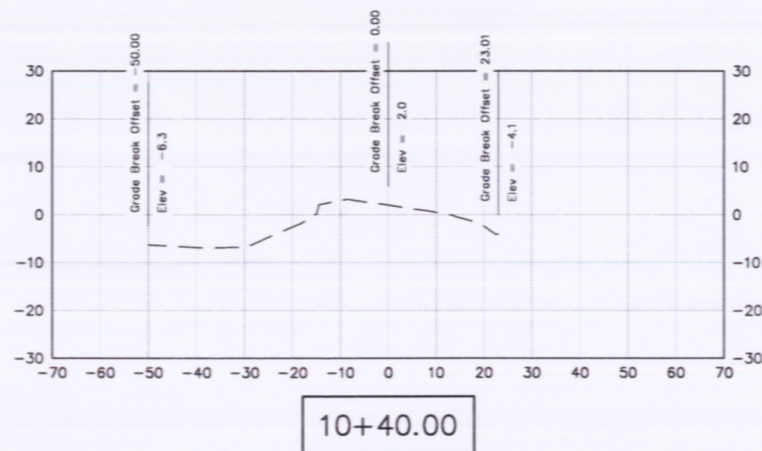
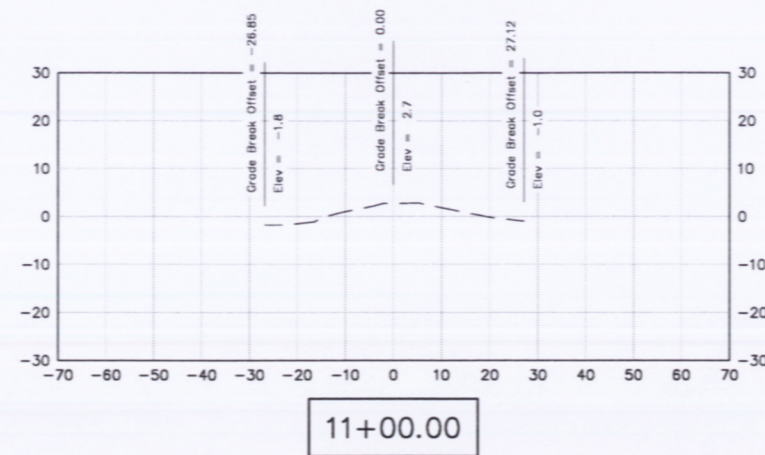
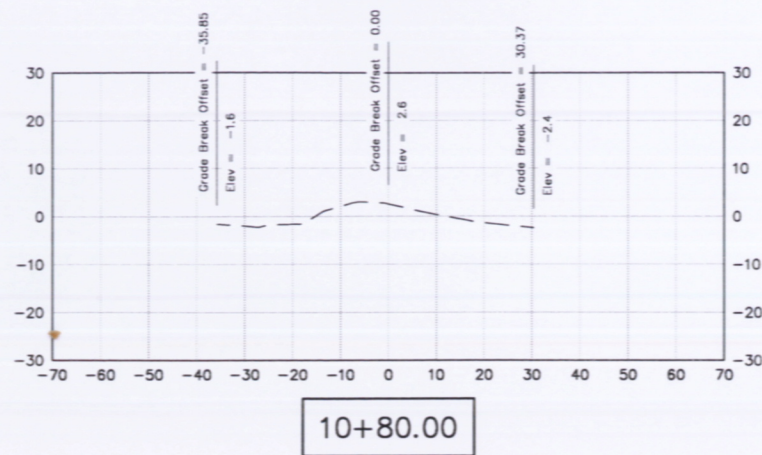


SURVEY PERFORMED DECEMBER 8, 2014

				<div><div><b>SIGMA</b> CONSULTING GROUP, INC. ENGINEERING CONSULTANTS 10305 Airline Highway Baton Rouge, Louisiana 70816</div></div>	<div>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</div>		BARATARIA WATERWAY WEST MAINTENANCE PROJECT (BA-23)		PRE-DESIGN SURVEY PLAN VIEW
STATE PROJECT NUMBER:									
FEDERAL PROJECT NUMBER:		DATE: JAN. 2015							
REV.	DATE	DESCRIPTION	BY			DRAWN BY: AMEDEE	DESIGNED BY: KING	APPROVED BY: WILSON	SHEET 1 OF 2



F:\02020\141002\01800\Cross Sections.dwg [Cross Sections] Jan 19, 2015 - 9:54am



REV.	DATE	DESCRIPTION	BY

**SIGMA**  
CONSULTING  
GROUP, INC.  
ENGINEERING CONSULTANTS  
10305 Airline Highway  
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND  
RESTORATION AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE

DESIGNED BY: KING

**BARATARIA WATERWAY WEST  
MAINTENANCE PROJECT (BA-23)**

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY: WILSON

**PRE-DESIGN SURVEY  
CROSS SECTIONS**

DATE: JAN. 2015

SHEET 1 OF 1



T17S, R24E  
SECTION 18

No Known Pipelines And Utilities Are Shown On This Sheet Of The Plans. However, It Is Possible That Some May Exist That Have Not Been Shown. The Contractor Shall Be On The Alert For Such Pipelines And Shall Report Them Immediately To The COTR.

The Natural Resources Conservation Service Does Not Guarantee The Completeness And Accuracy Of Ownership Show. Apparent Ownership Has Been Obtained From Maps In The Office Of The Parish Clerk Of Court Or The Tax Assessor. Where An Apparent Property Line Is Shown Near The Centerline Of A Channel, Its Location Is Not Definite.

# POSES "AS-BUILT"

EXISTING STRUCTURE TO  
BE REMOVED

ACCESS CHANNEL TO HAVE THE MINIMUM DIMENSIONS  
AS SHOWN ON TYPICAL X-SECTION A-A ON SHEET 6

APPROXIMATE CHANNEL LENGTH - 1400'

PROJECT SITE

**PROPOSED  
STRUCTURE LOCATION**

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

Date	
11/99	Approved by E.J.GIERING III
	Title STATE CONSERVATION ENGINEER
	Title

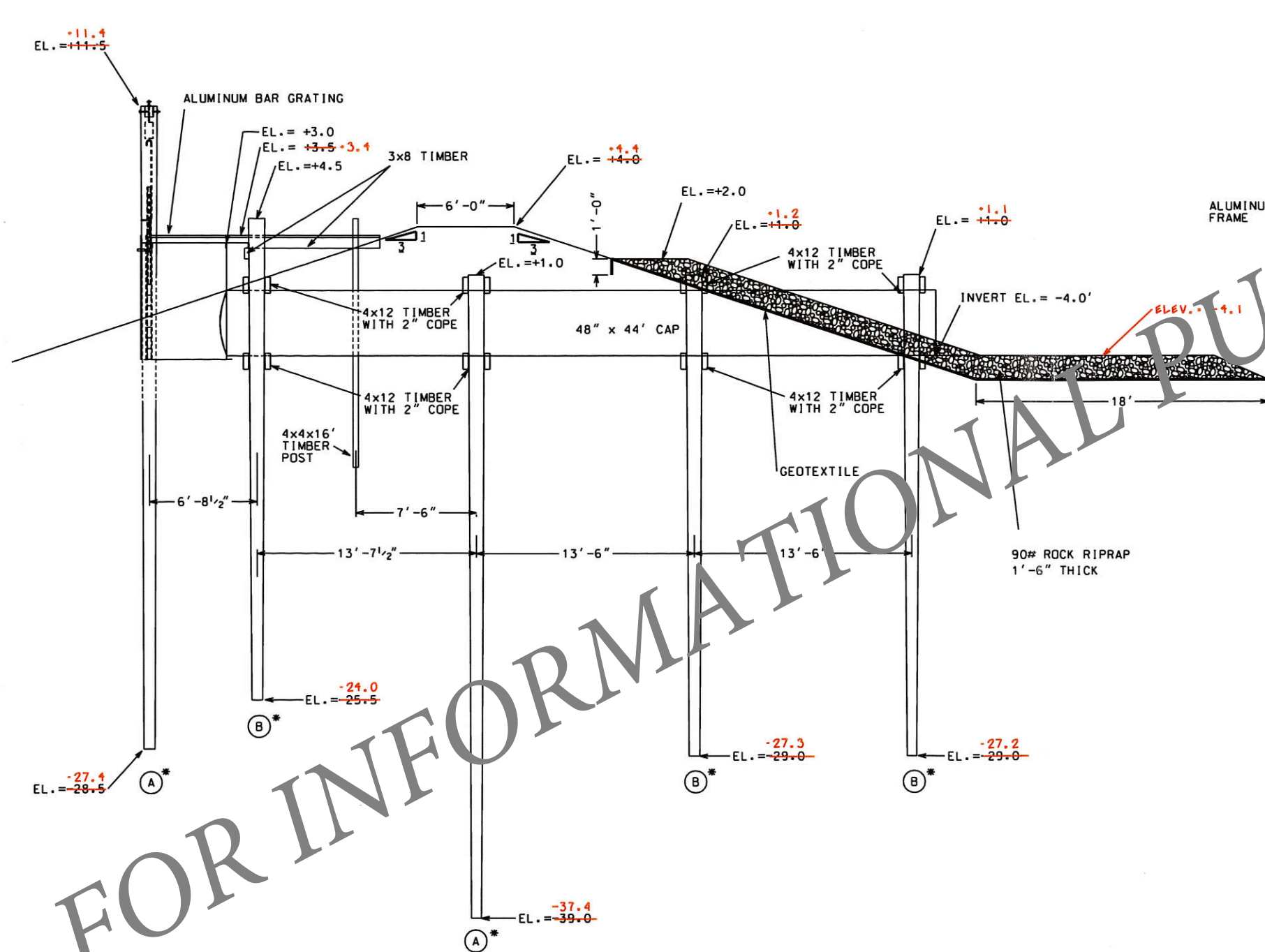
	Date
Designed	J. CHUA 05/99
Drawn	D.J. WILLMORE 05/99
Traced	
Checked	J. MOORE 05/99

SITE PLAN - WATER CONTROL STR.  
BARATARIA BAY WATERWAY-WEST BANK  
PROJECT #PBA-12A  
JEFFERSON PARISH, LOUISIANA  
NATURAL RESOURCES CONSERVATION SERVICE

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

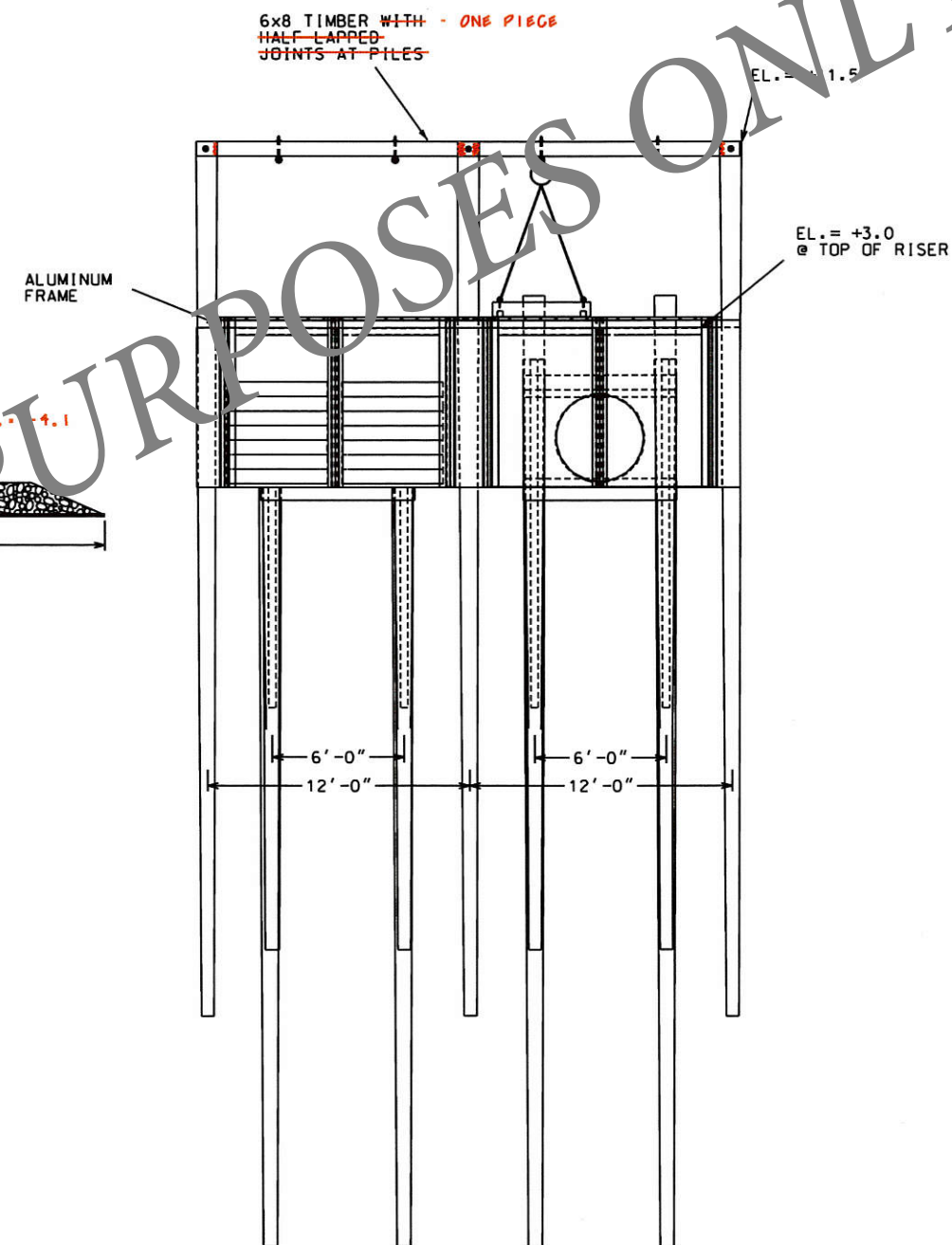
REVISIONS		U.S. DEPARTMENT OF AGRICULTURE
DATE	TITLE	
CAD FILENAME LA28604.DGN		U.S. DEPARTMENT OF AGRICULTURE
PROJECT NO. LA286		
SHEET NO. 4 OF 16		





**NOTE:**  
ALL ELEVATIONS NAVD 88 DATUM

## "AS-BUILT"



LONGITUDINAL SECTION  
BUTT ELEVATIONS AS SHOWN

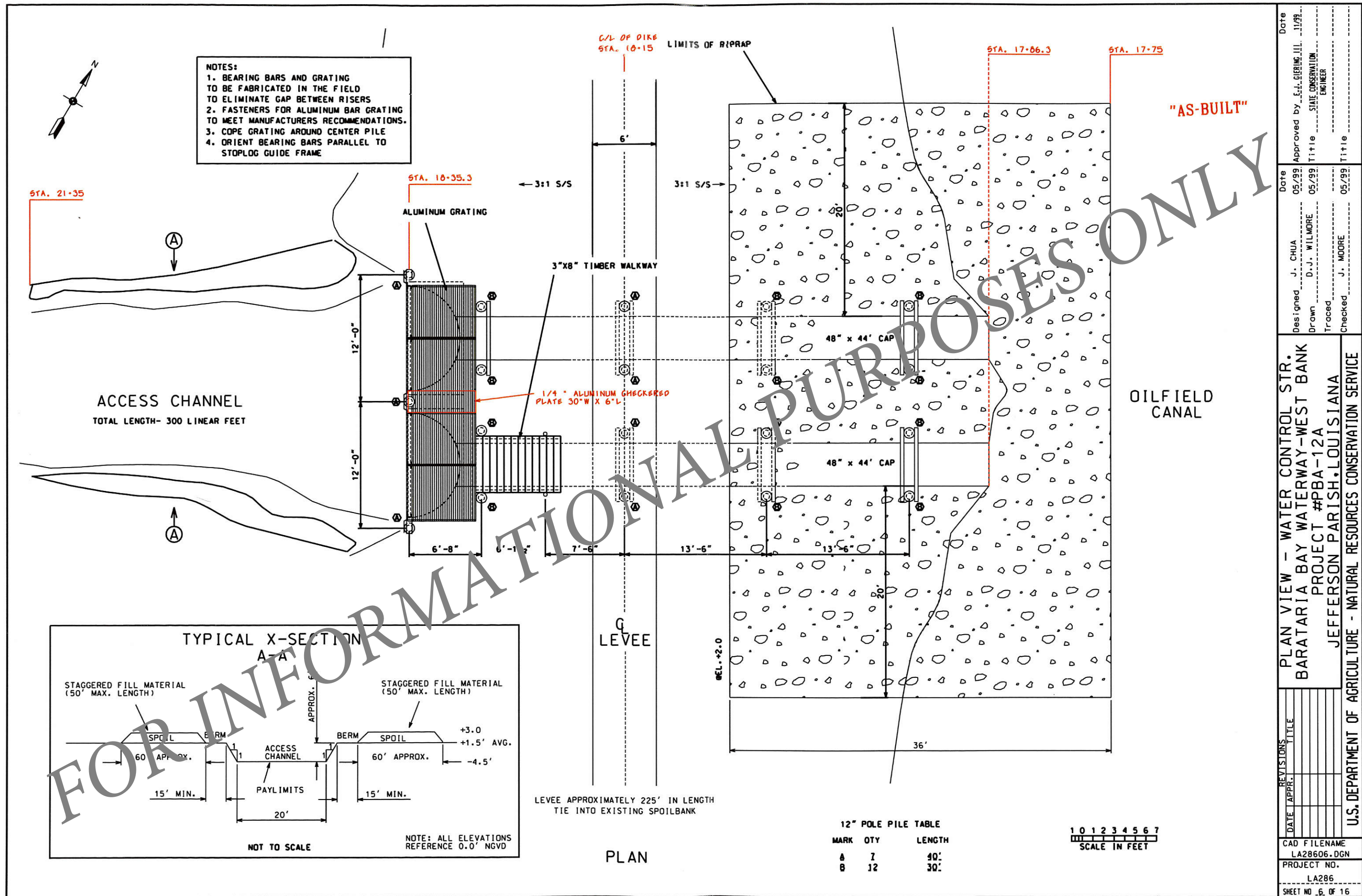
FRONT VIEW

\*-SEE SHEET 6 FOR PILING TABLE

[illegible]

Designed	Date	Approved by	Date
J. CHUA	05/99	E.J.GIERING, III	11/99
Drawn	05/99	Title	STATE CONSERVATION ENGINEER
Traced	05/99	Title	
Checked	05/99	Title	





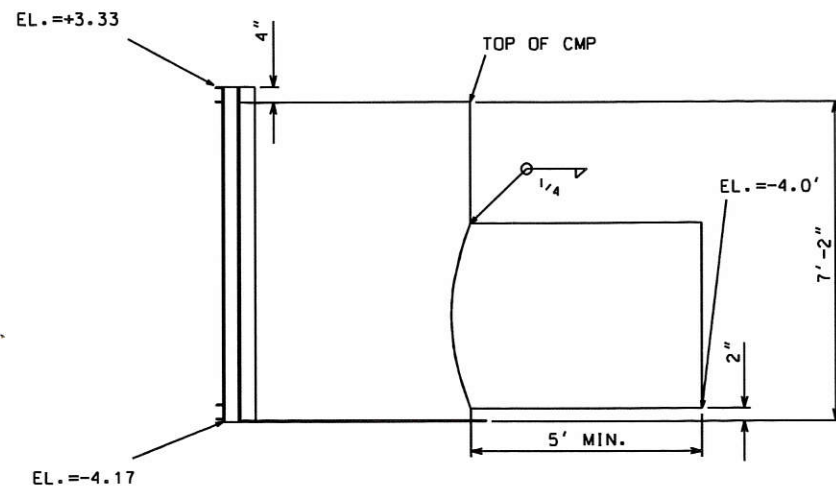
PLAN VIEW - WATER CONTROL STR. BARATARIA BAY WATERWAY-WEST BANK PROJECT #PBA-12A JEFFERSON PARISH, LOUISIANA				DESIGNED J. CHUA DRAWN D. J. WILMORE TRACED CHECKED J. MOORE		DATE 05/99 DATE 05/99 DATE 05/99 DATE 05/99	
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE				APPROVED BY E.J. GIERING, III		DATE 11/99	
				TITLE STATE CONSERVATION ENGINEER			

CAD FILENAME LA28606.DGN	
PROJECT NO. LA286	
SHEET NO. 6 OF 16	

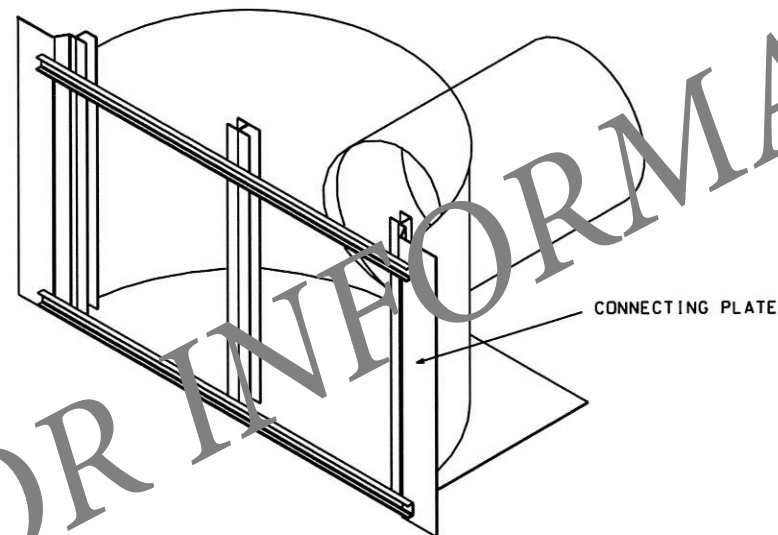




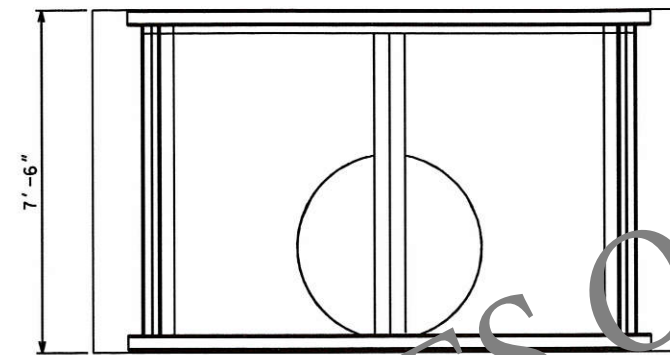




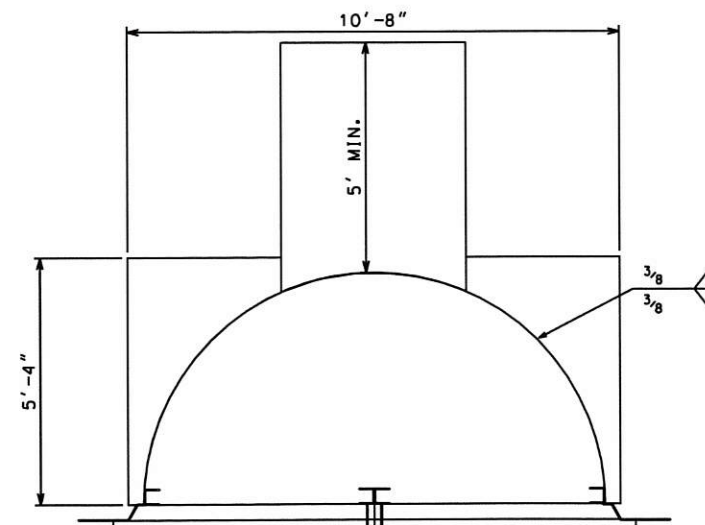
SIDE VIEW  
HALF-ROUND STRUCTURE



ISOMETRIC VIEW  
HALF-ROUND STRUCTURE



FRONT VIEW  
HALF-ROUND STRUCTURE

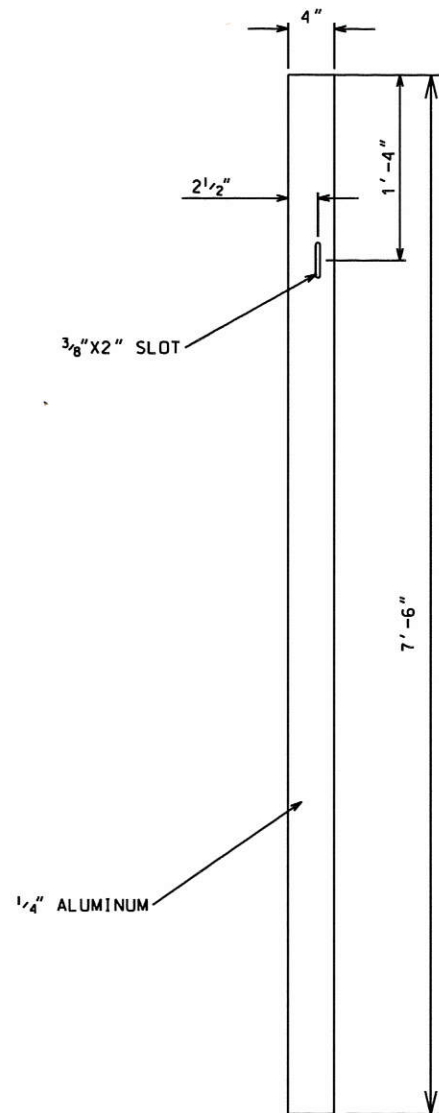


PLAN VIEW  
HALF-ROUND STRUCTURE

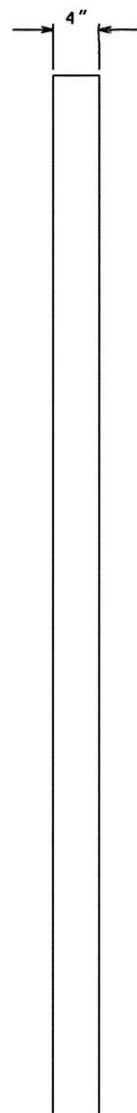
"AS-BUILT"

DESIGNED J. CHUA DRAWN H. MOORE TRACED J. MOORE CHECKED J. MOORE		DATE 05/99 DATE 05/98 DATE 05/99	APPROVED BY E.J. GIERING, III TITLE STATE CONSERVATION ENGINEER
HALF-ROUND CONTROL STRUCTURE BARATARIA BAY WATERWAY-WEST BANK PROJECT #PBA-12A JEFFERSON PARISH, LOUISIANA		U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE	
CAD FILENAME LA28608.DGN		PROJECT NO. LA286	
SHEET NO. 8 OF 16		REVISIONS DATE APPR. TITLE	

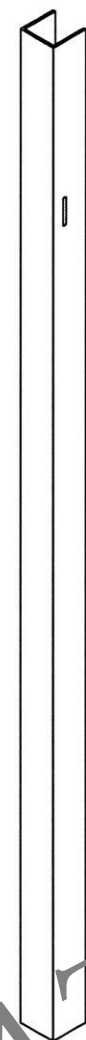




SIDE

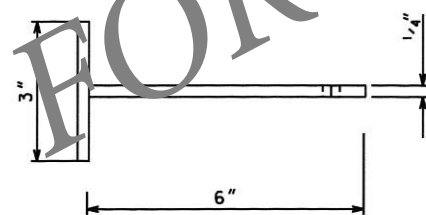


FRONT

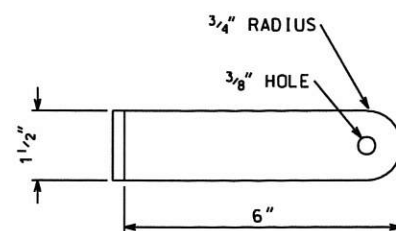


ISOMETRIC

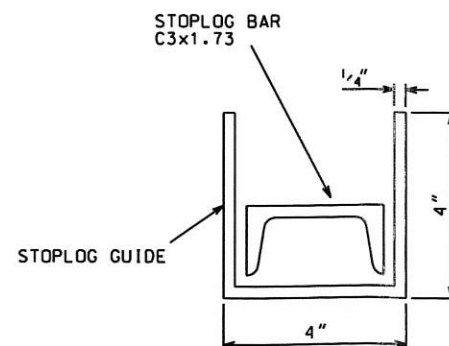
STOP LOG GUIDE  
(NOT TO SCALE)



LOCKPIN



FRONT VIEW  
LOCKPIN



PLAN  
STOP LOG GUIDE  
& LOCK BAR W/MASTERLOCK

ISOMETRIC  
OF STOP LOGS  
AND LOCKBARS  
(NOT TO SCALE)

STOP LOG GUIDE, LOCKPIN, AND C3x1.73 LOCKBAR  
TO BE OF ALUMINUM.

FOUR C3x1.73 PER RISER TO HAVE EIGHT 3/8" x 3" SLOTS  
AT 5 3/4" O.C. BEGINNING 6 3/4" FROM TOP  
ON EACH LEG

"AS-BUILT"

LOCKBAR

LOCKPIN-END

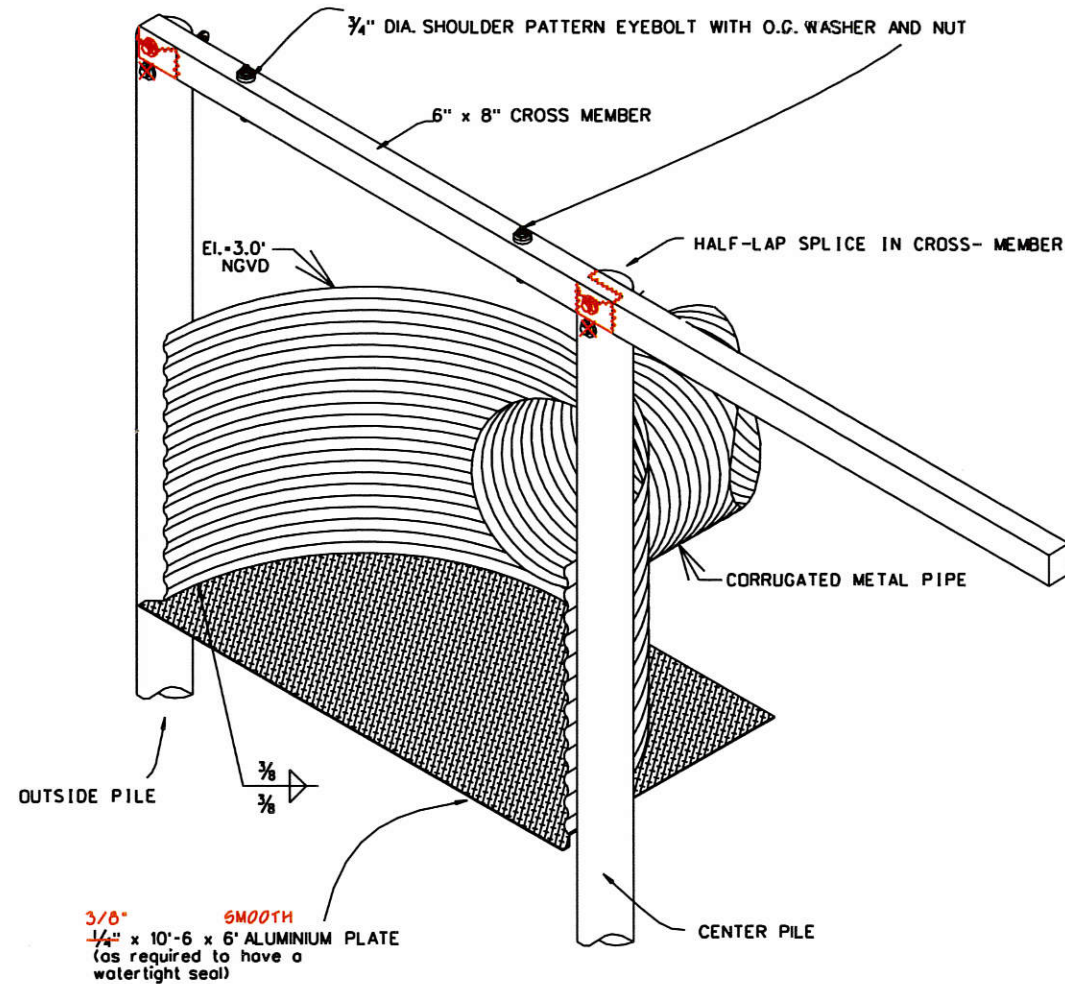
Date	11/99
Approved by	EJ.GIERING, III
Title	STATE CONSERVATION ENGINEER
Date	05/99
Designed	J. CHUA
Drawn	H. MOORE
Traced	J. MOORE
Checked	J. MOORE
Date	08/97
Title	
Date	05/99
Title	

STOP LOG GUIDE & LOCKBAR  
BARATARIA BAY WATERWAY-WEST BANK  
PROJECT #PBA-12A  
JEFFERSON PARISH, LOUISIANA

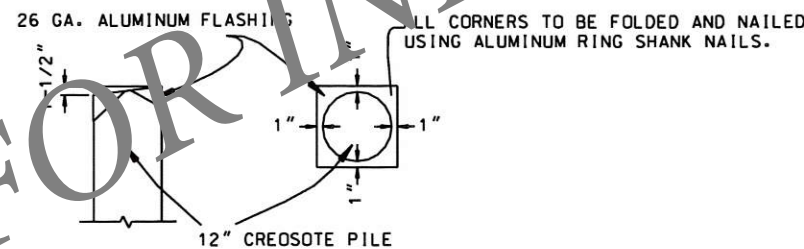
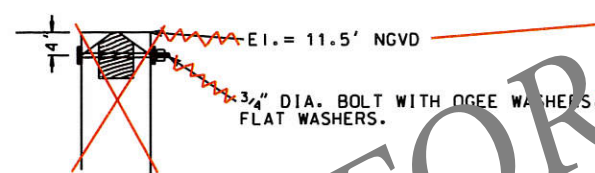
REVISIONS	TITLE
DATE	APPR.
CAD FILENAME	LA28609.DGN
PROJECT NO.	LA286
SHEET NO	9 OF 16

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



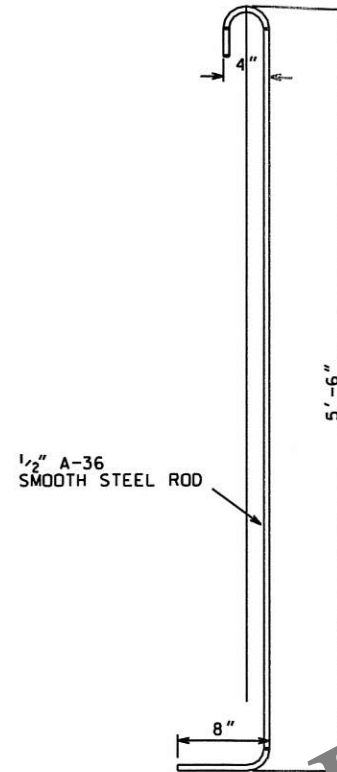


( SHOWN WITHOUT STOPLOG GUIDES AND GRATE FRAME )

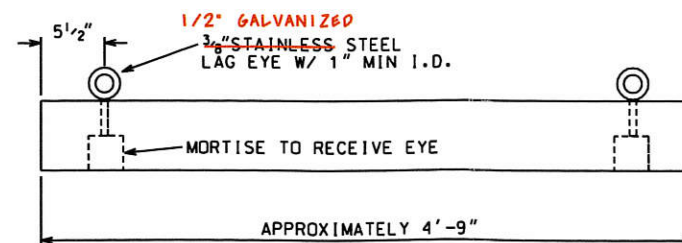
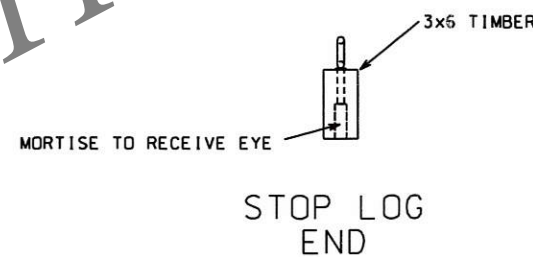


DETAILS OF SHEET METAL FLASHING  
( ALL PILES )

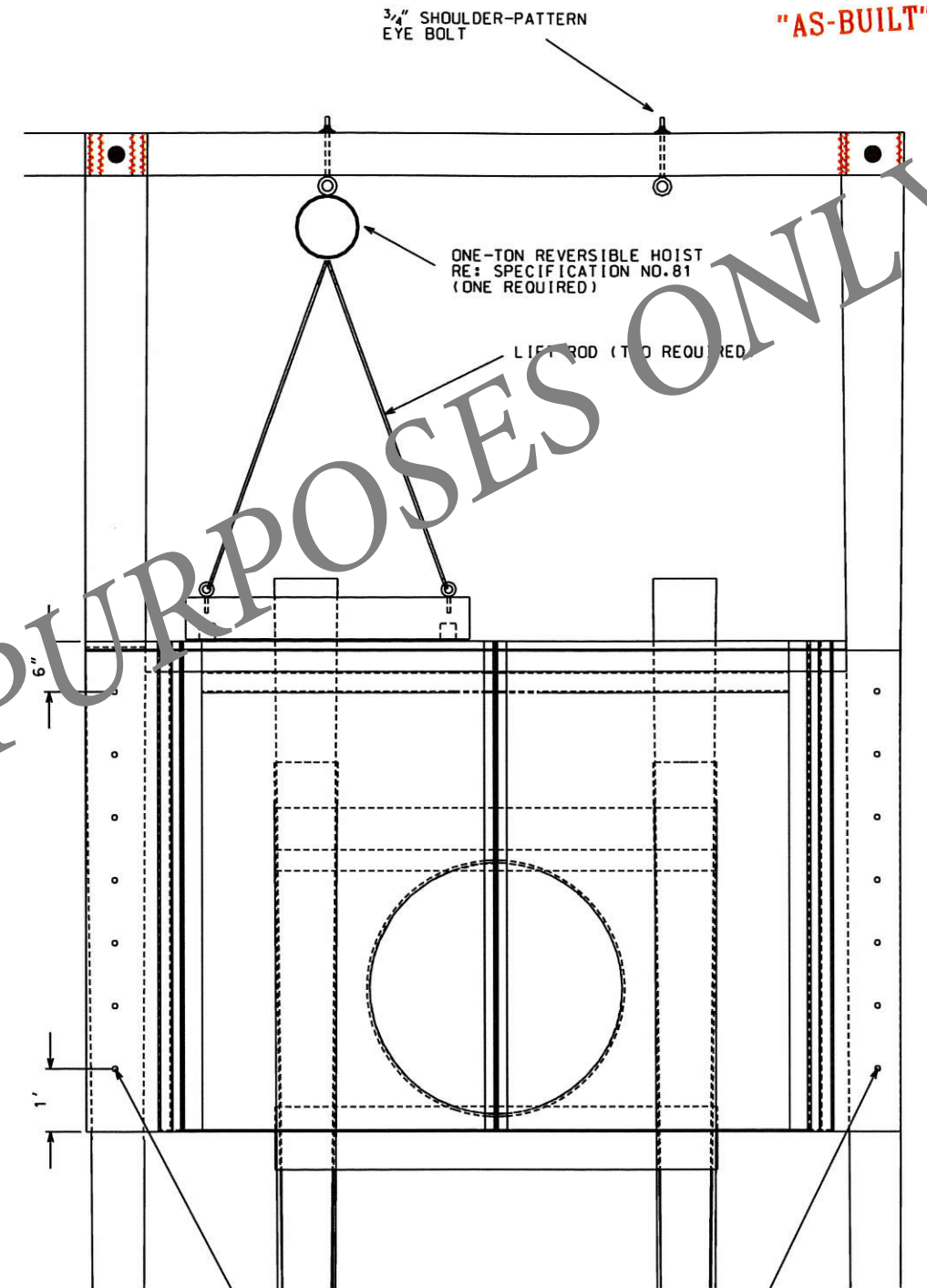
( FLASHING TO BE TWO ( 2 ) INCHES LARGER  
THAN TOP OF PILE )



LIFT ROD  
( 2 REQUIRED )



STOP LOG  
FRONT  
( 14 REQUIRED PER RISER )

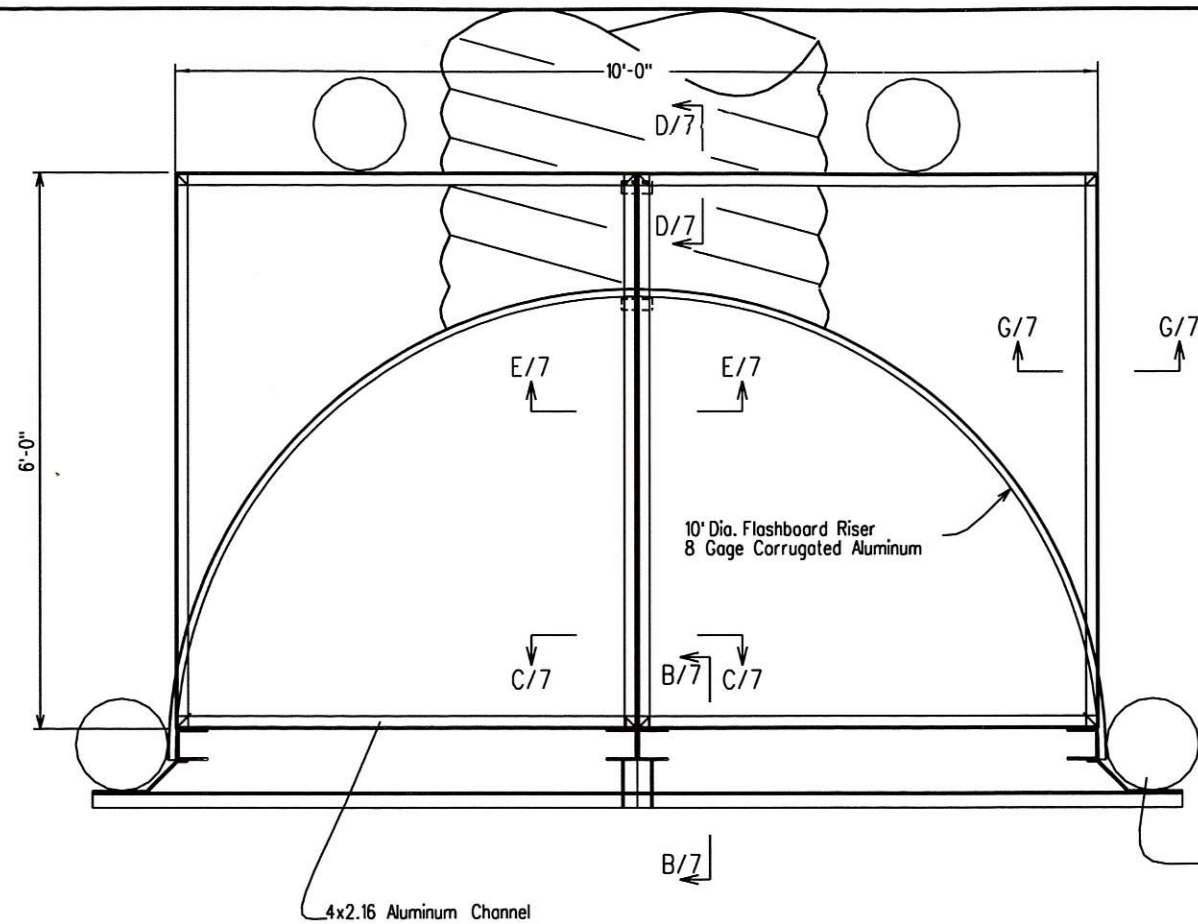


- NOTES:
1. STOP LOGS SHALL BE CUT TO FIT IN FIELD
  2. FOR EYE BOLTS WITH NON-CONTINUOUS EYE, GAP SHALL BE CLOSED BY WELDING
  3. ATTACHMENT BOLT HOLES TO BE FIELD DRILLED

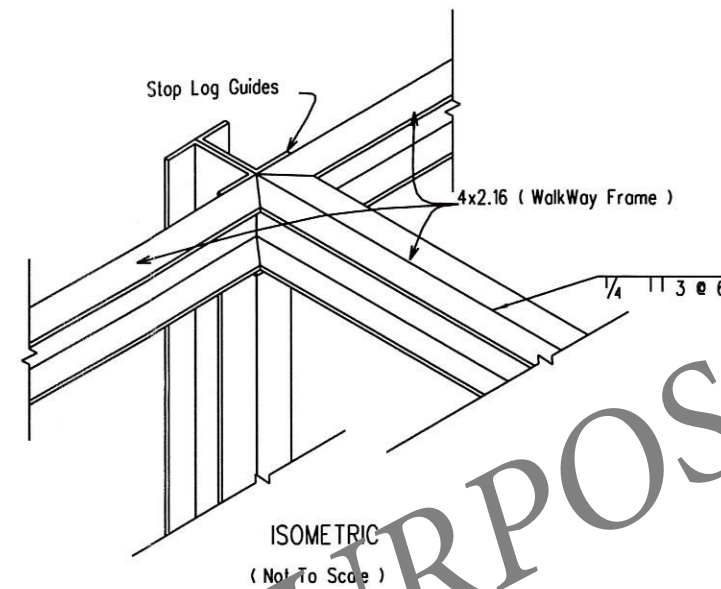
NOT TO SCALE

Date		11/99
Approved by	E. J. GIERING, III	
Title	STATE CONSERVATION ENGINEER	
Date		05/99
Designed	J. CHUA	
Drawn	H. MOORE	
Traced	J. MOORE	
Checked	J. MOORE	
STOP LOG HOIST		
BARATARIA BAY WATERWAY - WEST BANK		
PROJECT #PBA-12A		
JEFFERSON PARISH, LOUISIANA		
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE		
REVISIONS	DATE	TITLE
1		
2		
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CAD FILENAME	LA28610.DGN	
PROJECT NO.	LA286	
SHEET NO	10 OF 16	

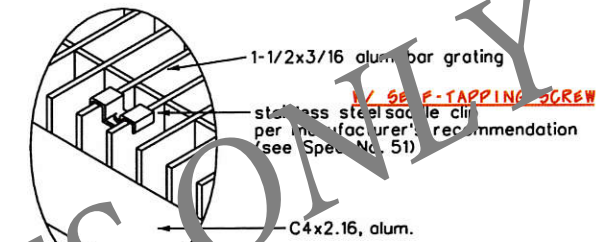




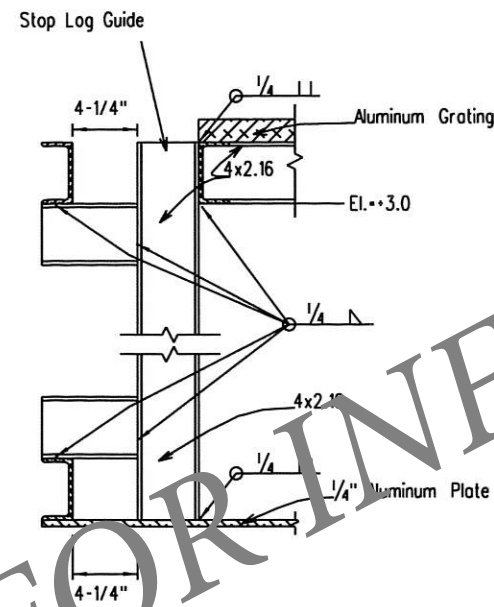
PLAN - WALKWAY PLATFORM



"AS-BUILT"

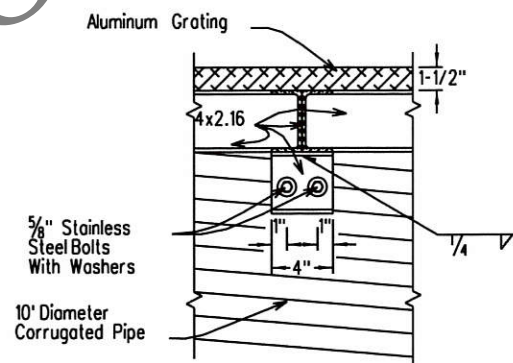


TYPICAL FASTENING METHOD

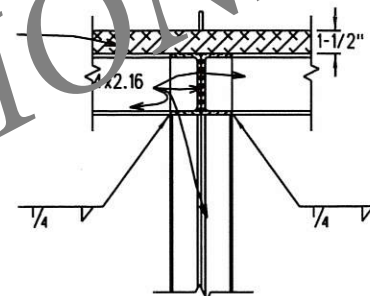


SECTION "B-B/7"  
(Not To Scale)

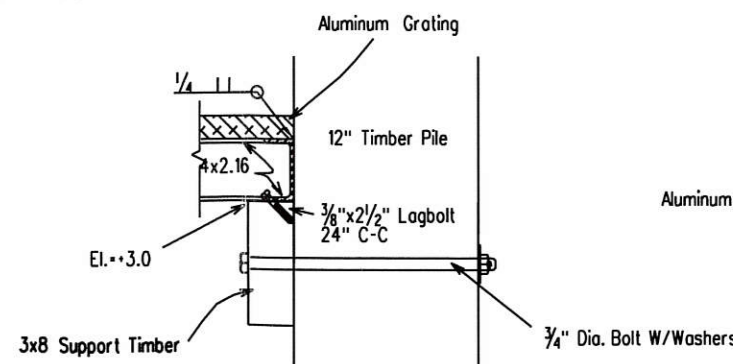
All Aluminum Channels Shall Be 4x2 x 1/4 (6061-T6). (With 4" Slot) And Are Designated On This Sheet As 4x2.16



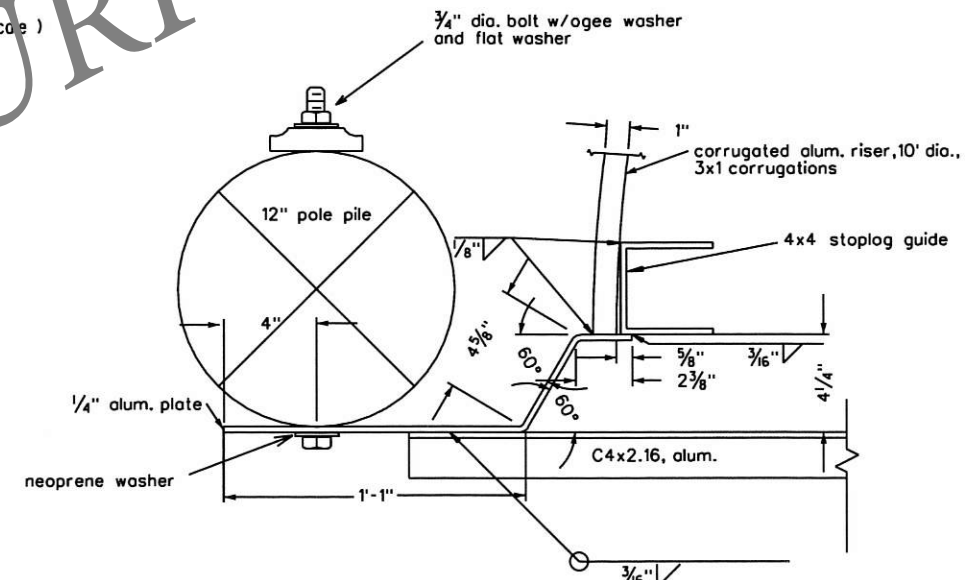
SECTION "E-E/7"  
(Not To Scale)



SECTION "C-C/7"  
(Not To Scale)

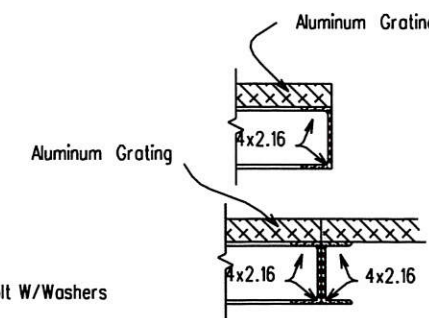


SECTION "D-D/7"  
(Not To Scale)



PILE, PLATE & RISER CONNECTION DETAIL

NOTE:  
Cross Member And 1/4" Aluminum Plate Not Shown For Clarity



SECTION "G-G/7"  
INSIDE TO INSIDE  
(Not To Scale)

SECTION "G-G/7"  
OUTSIDE  
(Not To Scale)

Date		11/99	Approved by	J. CHUA	11/99	Approved by	J. CHUA	11/99	Approved by	J. CHUA	11/99
Title		STATE CONSERVATION ENGINEER	Title		STATE CONSERVATION ENGINEER	Title		STATE CONSERVATION ENGINEER	Title		STATE CONSERVATION ENGINEER
Date		05/99	Date		05/99	Date		05/99	Date		05/99
Designed		J. CHUA	Designed		J. CHUA	Designed		J. CHUA	Designed		J. CHUA
Drawn		D. J. WILMORE	Drawn		D. J. WILMORE	Drawn		D. J. WILMORE	Drawn		D. J. WILMORE
Traced		J. MOORE	Traced		J. MOORE	Traced		J. MOORE	Traced		J. MOORE
Checked		J. MOORE	Checked		J. MOORE	Checked		J. MOORE	Checked		J. MOORE

RISER PLATFORM DETAILS  
BARATARIA BAY WATERWAY - WEST BANK  
PROJECT #PBA-12A  
JEFFERSON PARISH, LOUISIANA  
U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

REVISIONS	DATE	APPR.	TITLE
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CAD FILENAME  
LA28611.DGN  
PROJECT NO.  
LA286  
SHEET NO. 11 OF 16