

STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

MID-BARATARIA  
SEDIMENT DIVERSION PROJECT

STATE PROJECT NO. BA-153  
PLAQUEMINES PARISH, LOUISIANA



VOLUME 2  
DIVERSION STRUCTURE

PRELIMINARY DOCUMENTS

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2

COVER SHEET

DATE: JULY 2014

DWG 2-20G001 SHT 1

**DRAWING INDEX LIST**

DWG NO.	SHEET TITLE
<b>GENERAL</b>	
2-20G001	COVER SHEET
2-20G002	INDEX LIST
2-20S001	GENERAL NOTES
2-20S002	NOT USED
2-20S003	NOT USED
2-20S004	NOT USED
2-20S005	NOT USED
2-20S006	NOT USED
2-20S007	NOT USED
2-20S008	NOT USED
2-20S009	TYPICAL REINFORCING DETAILS
2-20S010	NOT USED
2-20S011	TYPICAL METAL WORKS 2
2-20S012	TYPICAL METAL WORKS 3
<b>DIVERSION STRUCTURE</b>	
2-20S101	KEY PLAN
2-22S101	REVETMENT INLET CHANNEL- PLAN AND SECTIONS
2-22S102	NOT USED
2-22S103	NOT USED
2-22S301	NOT USED
2-22S501	REVETMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAILS
2-22S502	REVETMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAILS
2-22S503	REVETMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAILS
2-22S504	REVETMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAIL
2-22S505	NOT USED
2-22S506	NOT USED
2-23S101	APPROACH CHANNEL - PLAN AND SECTION
2-23S501	APPROACH CHANNEL - CONC SLAB AND WALL REINF DETAILS
2-23S502	NOT USED
2-24S101	GATES - PLAN AND SECTION
2-24S501	CONTROL STRUCTURE - CONC SLAB AND WALL REINF DETAILS
2-24S502	CONTROL STRUCTURE - CONC SLAB AND WALL REINF DETAILS
2-24S503	NOT USED
2-24S504	CONTROL STRUCTURE - CONC SLAB AND WALL REINF DETAIL
2-24S505	CONTROL STRUCTURE - CONC SLAB AND WALL REINF DETAILS
2-24S506	CONTROL STRUCTURE - PILE SCHEDULE AND DETAILS

<b>DIVERSION STRUCTURE (CONT)</b>	
2-25S301	GATE - GATE PLAN AND ISOMETRIC
2-25S302	GATES - ELEVATION
2-25S303	GATES - SECTION 1
2-25S304	GATES - SECTION 2
2-25S305	GATES - SECTION 3
2-25S501	MISCELLANEOUS GATE DETAILS
2-25S502	MISCELLANEOUS GATE DETAILS
2-25S503	STOPLOGS - PLAN SECTION AND DETAILS
2-26S101	OUTLET CHANNEL - PLAN AND SECTION
2-26S501	OUTLET CHANNEL - CONC SLAB AND WALL REINF DETAILS
2-27S101	TRANSITION STRUCTURE - PLAN AND SECTION
2-27S501	TRANSITION STRUCTURE - CONC SLAB AND WALL REINF DETAILS
2-27S502	TRANSITION STRUCTURE - CONC SLAB AND WALL REINF DETAILS
2-28S101	M&E BUILDING - PLAN AND SECTION
2-28S201	NOT USED
<b>MECHANICAL</b>	
2-24M101	INTAKE GATE GENERAL MACHINERY PLAN
2-24M501	INTAKE GATE MACHINERY LAYOUT
2-24M502	NOT USED
<b>ELECTRICAL</b>	
2-28E101	SITE - ELECTRICAL PLAN
2-28E601	SINGLE LINE DIAGRAM

**AREA LEGEND:**

GENERAL	- 20
KEY PLAN	- 20
REVETMENT INLET CHANNEL	- 22
APPROACH CHANNEL	- 23
CONTROL STRUCTURE	- 24
GATES	- 25
OUTLET CHANNEL	- 26
TRANSITION STRUCTURE	- 27
M&E BUILDING	- 28

NOTE:  
SEE KEY PLAN, DWG 2-20S101

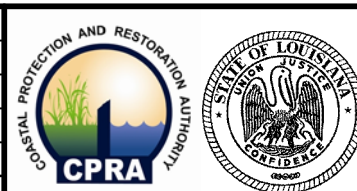
**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2

INDEX LIST

DATE: JULY 2014

DWG 2-20G002 SHEET 2



**GENERAL STRUCTURAL NOTES (GSN)**

**GENERAL**

- G1 SCOPE**  
THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR TO CONSTRUCTION.
- G2 APPLICABLE SPECIFICATIONS AND CODES**  
A. IBC 2009, WITH APPLICABLE EDITIONS OF CODE REFERENCED STANDARDS. CODE REFERENCED STANDARDS.  
B. ASCE7-05  
C. ACI-318-05  
D. ACI-350-06  
E. LOCAL JURISDICTION AMENDMENTS
- G3 DESIGN CRITERIA**  
1. APPLIES TO ALL STRUCTURES (UNO)  
A. DEAD LOAD:  
1. ACTUAL TRIBUTARY STRUCTURE WEIGHT  
2. SUPERIMPOSED DEAD LOAD: ACTUAL WT. OF ANY MECHANICAL EQUIPMENT.  
B. LIVE LOADS:  
1. SLAB ON GRADE: 250 PSF  
2. PROCESS EQUIPMENT AREAS: 300 PSF  
3. ELECTRICAL EQUIPMENT ROOMS: 250 PSF  
4. ROOF ACCESS PROCESS EQUIPMENT AREAS: 250 PSF  
5. STORAGE, SHOP, MAINTENANCE: 200 PSF  
6. CHEMICAL FEED ROOMS: 150 PSF  
7. CORRIDORS, WALKWAYS, STAIRWAYS: 100 PSF  
8. OFFICES, LABS, LUNCHROOMS: 100 PSF  
9. ROOF: 20 PSF (NOT REDUCIBLE)  
C. WIND: V=150 MPH  
1. BASIC WIND SPEED:  
2. EXPOSURE: D  
3. IMPORTANCE FACTOR: I=1.15  
4. TOPOGRAPHIC FACTOR: K<sub>zt</sub> =1.0  
5. ADJUSTMENT FACTOR: λ =1.55  
6. ALL STRUCTURES ARE ENCLOSED  
D. SEISMIC:  
1. ABOVE GRADE, NON WATER BEARING STRUCTURES:  
a. OCCUPANCY CATEGORY: IV  
b. IMPORTANCE FACTOR: 1.50  
c. SPECTRAL RESPONSE ACCELERATION, S<sub>g</sub>: 0.1  
d. SPECTRAL RESPONSE ACCELERATION, S<sub>f</sub>: 0.04  
e. SITE CLASS: D  
f. SEISMIC DESIGN CATEGORY: A  
g. SPECTRAL RESPONSE COEFFICIENT, SD<sub>g</sub>: 0.108  
h. SPECTRAL RESPONSE COEFFICIENT, SD<sub>f</sub>: 0.071  
i. BASIC SEISMIC FORCE RESISTING SYSTEM SEE TABLE BELOW.  
j. ANALYSIS PROCEDURE AND EQUIVALENT LATERAL FORCE ANALYSIS.  
k. DESIGN BASIC SHEAR: SEE TABLE BELOW.  
l. SEISMIC RESPONSE COEFFICIENT: SEE TABLE BELOW  
m. RESPONSE MODIFICATION FACTOR: SEE TABLE BELOW.

STRUCTURE	i. BASIC SEISMIC FORCE RESISTING SYSTEM:	k. DESIGN BASE SHEAR	l. SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> )	m. RESPONSE MODIFICATION FACTOR "R"
DIVERSION STRUCTURE	SPECIAL REINFORCED CONCRETE SHEAR WALLS	$V = C_s W$ W IS THE EFFECTIVE SEISMIC WEIGHT	0.01	5

- G4 SAFETY:**  
SAFETY AND STRUCTURE STABILITY DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LIVE LOADS ONLY AS A COMPLETED STRUCTURE.
- G5 OPENINGS:**  
OPENINGS FOR PIPES, DUCTS, CONDUITS, ETC. ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND PROVIDE OPENINGS AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

- G6 DEMOLITION** SEE C04 FOR GENERAL DEMOLITION NOTES.
- G7 SPECIAL INSPECTIONS**  
SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS. PAYMENT FOR THESE INSPECTIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN HIS CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS. SEE DRAWING S02 FOR SPECIAL INSPECTION REQUIREMENTS.
- G8 STANDARD DETAILS**  
THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.
- G9 THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION AS REQUIRED TO COORDINATE NEW CONSTRUCTION. SUBMIT REQUIRED CHANGES FOR APPROVAL.**
- G10 CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT SIZES, OPERATING WEIGHTS, VIBRATION FORCES, SUPPORT LOCATIONS, ALONG WITH ANY FLOOR OPENINGS, NOTCHES, AND RECESSES REQUIRED BY SUCH EQUIPMENT. CONCRETE SUPPORT PADS AND/OR FRAMING REQUIRED TO SUPPORT SAID EQUIPMENT SHALL NOT BE FABRICATED AND PLACED UNTIL THE CONCRETE SUPPORT PADS AND/OR FRAMING IS APPROVED TO SUPPORT THE EQUIPMENT.**
- CONCRETE:**  
C1 DESIGN STRENGTHS:  
f<sub>c</sub> = 4000 PSI  
f<sub>y</sub> = 60,000 PSI  
C2 CONCRETE COVER  
UNLESS OTHERWISE NOTED, PROVIDE CONCRETE COVER FOR REINFORCING PER DRAWINGS.  
C3 SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS.  
C4 REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION FOR EMBEDDED ITEMS AND PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS. AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.  
C5 PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES AND 1/2" CHAMFERS AT JOINTS AS SHOWN. NOT ALL CHAMFERS MAY BE SHOWN ON DRAWINGS.  
C6 FIELD ADJUST REINFORCING AT OPENINGS AND EMBEDDED ITEMS AS INDICATED.  
C7 ANCHOR BOLTS NOT SPECIFIED BY ENGINEER SHALL BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE PROJECT AND CODE REQUIREMENTS. SUBMIT AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER. COORDINATE LOCATION, SIZE AND EMBEDMENT PRIOR TO CASTING CONCRETE.  
C8 CONTINUOUS WATERSTOP SHALL BE INSTALLED IN JOINTS SUBJECT TO STATIC WATER PRESSURE. WHERE SHOWN IN SECTION OR NOT.  
C9 UNLESS SPECIFICALLY AUTHORIZED BY ENGINEER IN WRITING, NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER.  
C10 CONTRACTOR SHALL SUBMIT A CONCRETE PLACEMENT PLAN PER SPECIFICATION 03311 IDENTIFYING JOINT TYPES, JOINT LOCATIONS AND CONCRETE PLACEMENT SEQUENCE.  
C11 ALL CAST IN PLACE AND POST-INSTALLED ANCHORS INDICATED IN THE STRUCTURAL DOCUMENTS SHALL COMPLY WITH APPENDIX D OF ACI 318 AND CHAPTER 19 OF THE CBC. ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SHOWING EQUIVALENT LOAD CAPACITY. SUBMIT AND INSTALL PER THE ICC EVALUATION REPORT.

- C12 UNLESS OTHERWISE NOTED, ALL WALL REINFORCING BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS, AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED ELSEWHERE ON THIS SHEET OR ON THE DRAWINGS. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF OR FLOOR SLABS AND LAPPED WITH TOP SLAB REINFORCEMENT. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF ITS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY STANDARD DETAILS 5/S11 AND 7/S11.**
- C13 UNLESS OTHERWISE NOTED, WALL VERTICAL REINFORCING LAYER SHALL BE CLOSEST TO WALL SURFACE, AND WALL HORIZONTAL REINFORCING LAYERS SHALL BE PLACED ATTACHED TO AND BETWEEN VERTICAL LAYERS.**
- ALUMINUM:**  
A1 DESIGN STRENGTHS  
STRUCTURAL ALUMINUM: F<sub>y</sub>=35 KSI  
STRUCTURAL ALUMINUM IS ALLOY 6061-T6 UNO  
A2 DIMENSIONS:  
TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNO.  
A3 ELEVATIONS:  
TOP OF ALUMINUM REFERS TO TOP SURFACE OR FLANGE OF MEMBER UNO.  
A4 WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE FOR THE MATERIAL THICKNESS IN ACCORDANCE WITH THE LATEST EDITION OF THE "ALUMINUM DESIGN MANUAL" BY THE ALUMINUM ASSOCIATION.  
A5 ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS, CONCRETE OR MASONRY: CONTACT SURFACES SHALL BE PROVIDED WITH GALVANIC SEPARATION PER SPECIFICATIONS.  
**STEEL:**  
S1 DESIGN STRENGTHS:  
WIDE FLANGE AND TEES: F<sub>y</sub>=50 KSI  
PIPES: F<sub>y</sub>=35 KSI  
STAINLESS STEEL: F<sub>y</sub>=33 KSI  
HSS SECTIONS: F<sub>y</sub>=46 KSI  
ALL OTHER PLATES AND SHAPES: F<sub>y</sub>=36 KSI  
S2 DIMENSIONS:  
TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNO.  
S3 ELEVATIONS:  
TOP OF STEEL REFERS TO TOP SURFACE OF MEMBER OR FLANGE UNLESS NOTED OTHERWISE.  
S4 WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE BASED ON MATERIAL THICKNESS IN ACCORDANCE WITH AISC SPECIFICATIONS.  
S5 ALL BOLTED STRUCTURAL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS OTHERWISE SPECIFIED TO BE SLIP-CRITICAL. PROVIDE LOAD INDICATING WASHERS AT SLIP-CRITICAL CONNECTIONS.  
S6 CONFORM TO AISC 360, STEEL CONSTRUCTION MANUAL AND AISC 341, SEISMIC DESIGN MANUAL.  
S7 ALL STEEL BEAMS SHALL RECEIVE STANDARD CAMBER PER THE SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLANS. BEAMS REQUIRING SPECIAL CAMBER ARE DENOTED ON THE BEAMS SHOWN ON THE FRAMING PLANS. EXAMPLE: (+1/2") INDICATES 1/2".  
S8 ENCASED STEEL:  
STANDARD SHAPE STRUCTURAL STEEL COMPLETELY ENCASED IN CONCRETE OR GROUT SHALL NOT BE GALVANIZED OR PAINTED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE OR GROUT WHEN IT IS PLACED.

- S9 PAINTING:**  
STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS.
- S10 STAINLESS STEEL:**  
STAINLESS STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI SPECIFICATIONS. UNLESS OTHERWISE NOTED, STEEL IN CONTACT WITH SEWAGE SHALL BE AISI TYPE 316 STAINLESS STEEL. ALL STEEL WITHIN ONE FOOT HORIZONTALLY OR VERTICALLY OF SEWAGE SHALL BE STAINLESS STEEL. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS OR IN ABOVE NOTE, STAINLESS STEEL SHALL BE AISI TYPE 304.



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.  
GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

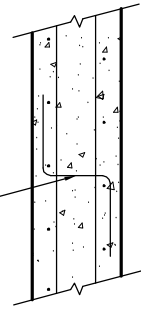
**MID-BARATARIA SEDIMENT  
DIVERSION**  
STATE PROJECT NUMBER: BA-153  
FEDERAL PROJECT NUMBER: BA-153  
APPROVED BY:

**VOLUME 2  
GENERAL NOTES**  
DATE: JULY 2014  
DWG 2-20S001 SHEET 3

REV.	DATE	DESCRIPTION	BY

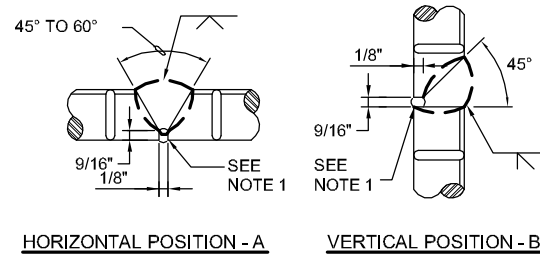
DRAWN BY: R. PRASAD  
DESIGNED BY:

Z-BAR SPACERS @ 8 FT OC EACH DIRECTION. MINIMUM ONE ROW. FABRICATE FROM #2 OR HEAVIER BARS. TIE TO OUTSIDE LAYER OF REINFORCING



**SPACER FOR WALL REINFORCEMENT**

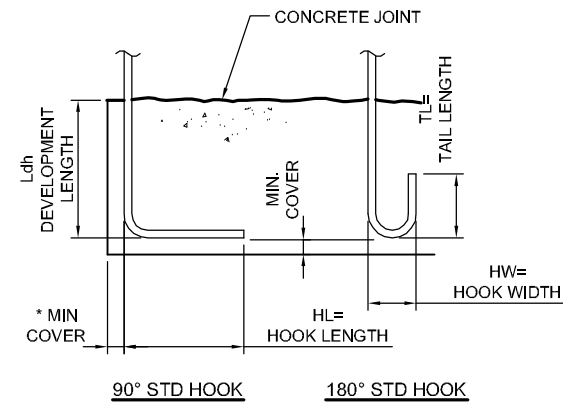
NTS 1 VAR



HORIZONTAL POSITION - A VERTICAL POSITION - B

LOCATION	* COVER
UNFORMED SURFACES ADJACENT TO EARTH	3"
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH:	2"
OTHER LOCATIONS: BARS IN BEAMS OR GIRDERS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES SLABS, WALLS AND JOINTS #9 AND LARGER #8 AND SMALLER	1 1/2"
	BAR DIA + 1/4" 1 1/2"

\* COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN THE COVER GIVEN ABOVE (NO MINUS TOLERANCE), AND SHALL NOT EXCEED THE COVER BY MORE THAN 1/4 INCH WHERE THE CONCRETE THICKNESS IS 24" OR LESS, OR MORE THAN 1/2 INCH WHERE THE CONCRETE THICKNESS IS MORE THAN 24 INCHES.



90° STD HOOK 180° STD HOOK

BAR SIZE GRADE 60	f'c=4000 psi				f'c=5000 psi
	Ldh *	HL	HW	TL	Ldh *
#3	6"	6"	3"	3"	6"
#4	7"	8"	4"	4 1/2"	6"
#5	9"	10"	5"	5"	8"
#6	10"	1'-0"	6"	6"	9"
#7	1'-0"	1'-2"	7"	7"	11"
#8	1'-2"	1'-4"	8"	8"	1'-0"
#9	1'-3"	1'-7"	11 3/4"	10 1/2"	1'-2"
#10	1'-5"	1'-10"	1'-1 1/4"	11 1/2"	1'-3"
#11	1'-7"	2'-0"	1'-2 3/4"	1'-1"	1'-5"

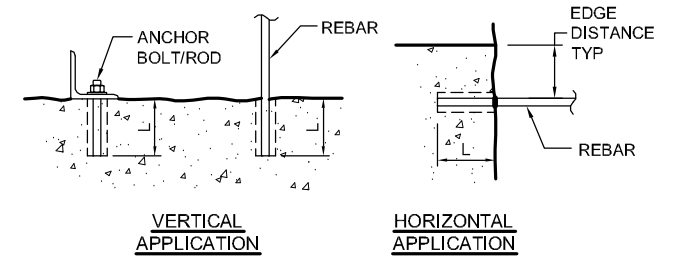
\* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF ACI 318, 12.5.3.2. OTHERWISE Ldh MUST BE RE-CALCULATED.

**REINFORCING HOOK SCHEDULE**

NTS 5 VAR

BAR SIZE	f'c = 5.0 ksi		fy = 60.0 ksi	
	LAP LENGTH (IN)		EMBEDMENT LENGTH (IN)	
	TOP	OTHER	TOP	OTHER
#3	21	16	16	12
#4	28	22	22	16
#5	35	27	27	21
#6	43	33	33	25
#7	62	48	48	37
#8	71	55	55	42
#9	80	62	62	47
#10	91	70	70	53
#11	101	77	77	59

- NOTES:
- LAP LENGTHS SHOWN ARE FOR CLASS "B" TENSION SPLICES.
  - LAP LENGTHS AND EMBEDMENTS SHOWN ARE FOR BARS SPACED LATERALLY @ > FIVE TIMES THE BAR DIAMETER AND FOR MINIMUM COVER IN ACCORDANCE WITH ACI 318-05.
  - IF SPACING IS < 5 TIMES BAR DIAMETER, INCREASE LAP LENGTH AND EMBEDMENT SHOWN BY 25%.
  - TOP REINFORCING IS HORIZONTAL STEEL SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING.



VERTICAL APPLICATION HORIZONTAL APPLICATION

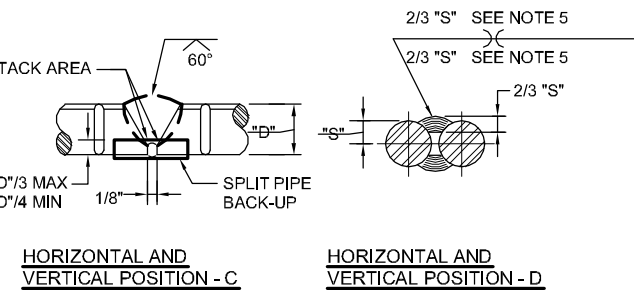
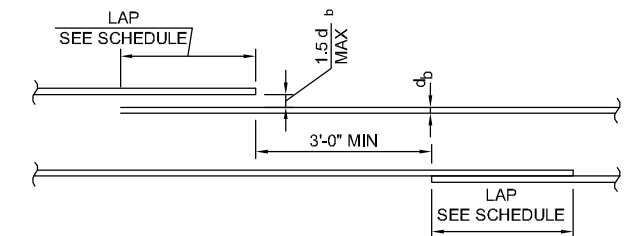
ADHESIVE ANCHOR SCHEDULE				
REINFORCING BARS		ANCHOR BOLTS/RODS		
BAR SIZE	EMBED LENGTH (L)	DIA (IN)	EMBED LENGTH (L)	MIN EDGE DISTANCE
#3	4"	3/8"	5"	2"
#4	5"	1/2"	6"	2 1/2"
#5	6"	5/8"	7"	3 1/8"
#6	7"	3/4"	8"	3 3/4"
#7	8"	7/8"	9"	4 3/8"
#8	9"	1"	10"	5"
#9	10"			5 5/8"
#10	12"			

- NOTES:
- EMBEDMENT LENGTHS SHOWN ARE MINIMUM. PROVIDE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
  - ALL ADHESIVE ANCHORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. INDICATE EDGE OF DISTANCE AND SPACING IN SUBMITTAL. USE OF THIS TABLE ALONE IS NOT PERMITTED

**ADHESIVE ANCHOR DETAILS & SCHEDULE**

NTS 6 VAR

BAR SIZE	f'c = 4.0 ksi		fy = 60.0 ksi	
	LAP LENGTH (IN)		EMBEDMENT LENGTH (IN)	
	TOP	OTHER	TOP	OTHER
#3	24	18	18	15
#4	33	24	24	19
#5	40	31	31	24
#6	48	38	37	29
#7	70	55	54	42
#8	81	62	62	48
#9	91	70	70	54
#10	103	79	79	61
#11	113	87	87	67



HORIZONTAL AND VERTICAL POSITION - C HORIZONTAL AND VERTICAL POSITION - D

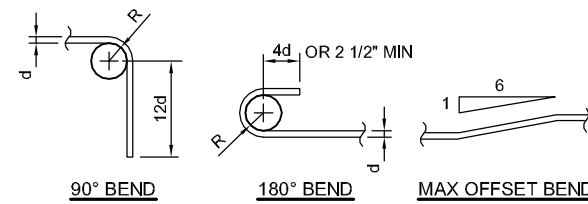
- NOTES:
- CHIP, GRIND, OR GOUGE TO SOUND METAL BEFORE WELDING OTHER SIDE.
  - USE DETAIL A & B FOR #9 & LARGER BARS. USE DETAIL C FOR #8 & SMALLER BARS. USE DETAIL D FOR #6 & SMALLER BARS.
  - E 90 ELECTRODE FOR GRADE 60.
  - SEE AWS D1.4 FOR WELDING PROCESS, PREHEAT REQUIREMENTS, AND OTHER DETAILS. SUBMIT WELDING PROCEDURE PER AWS.
  - 1 1/2" FOR #3 AND #4 BARS; 2" FOR #5 BARS; AND 2 1/2" FOR #6 BARS.

**WELDED SPLICE OF REINFORCING BARS**

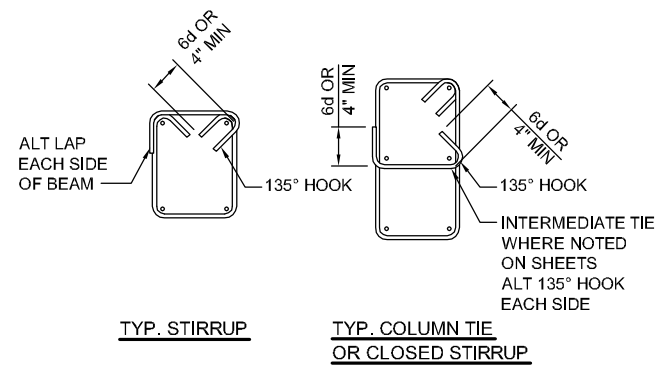
NTS 3 VAR

**REINFORCEMENT CONCRETE COVER**

NTS 2 VAR



90° BEND 180° BEND MAX OFFSET BEND



TYP. STIRRUP TYP. COLUMN TIE OR CLOSED STIRRUP

BAR SIZE	R
#3 TIES & STIRRUPS	2d
#3-#8	3d
#9-#11	4d
#14-#18	5d

**STIRRUPS & TIES**

NTS 4 VAR

**REINFORCING LAP SCHEDULE**

NTS 7 VAR

**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

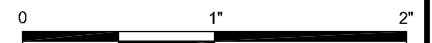
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

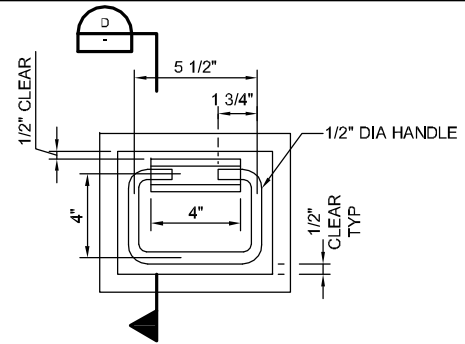
**VOLUME 2  
TYPICAL REINFORCING  
DETAILS**

DATE: JULY 2014

DWG 2-20S009 SHEET 4



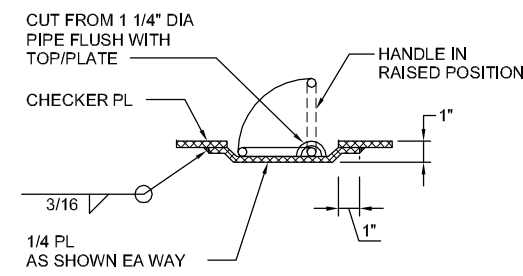
Date: Jul 03, 2014 Time: 10:24am File Name: C:\working\ba153\20140703\20140703.dwg Plotted By: rprasad



NOTE:  
HANDLE MATERIAL TO  
MATCH CHECKER PLATE.

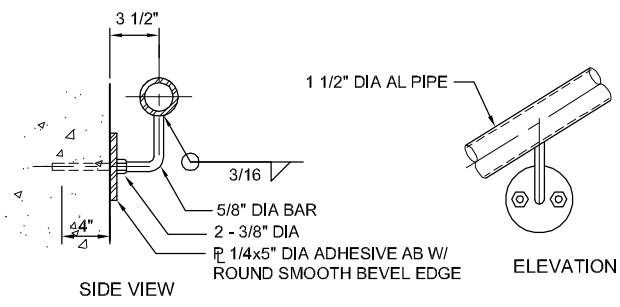
**HANDLE DETAIL**

NTS 10 VAR



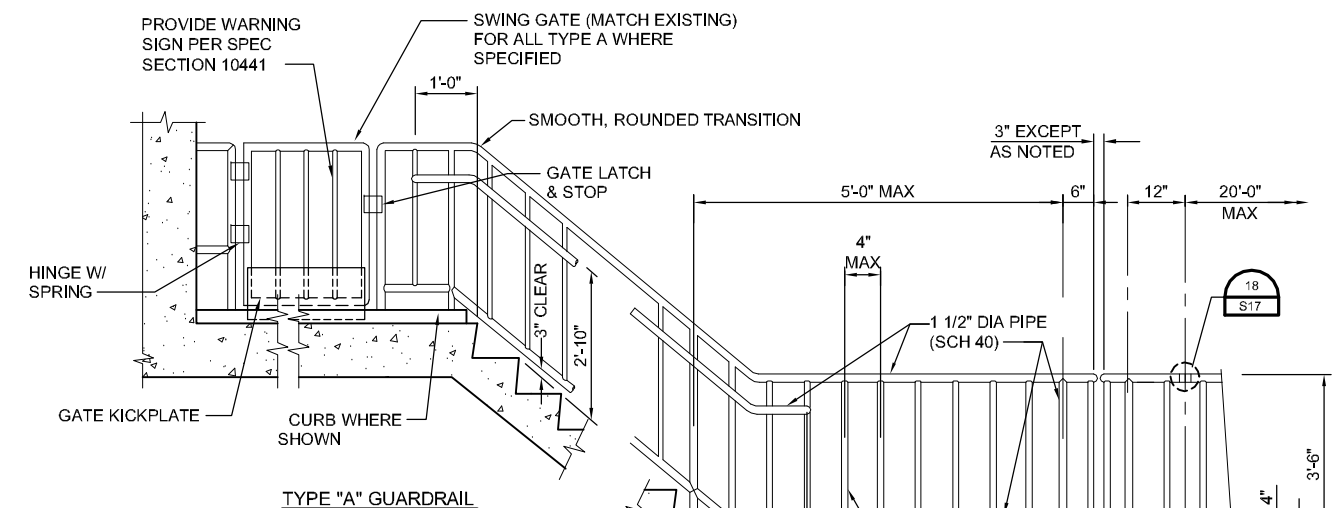
**SECTION**

NTS 11 VAR

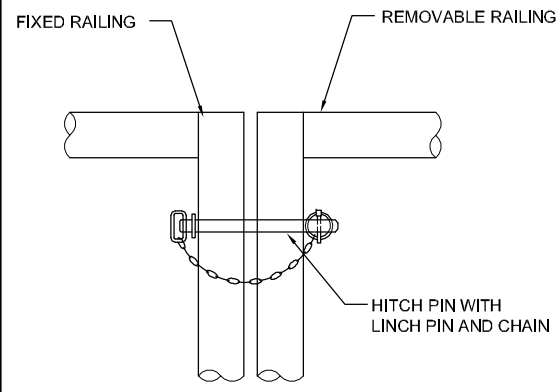


**WALL MOUNTING  
HANDRAIL**

NTS 11 VAR

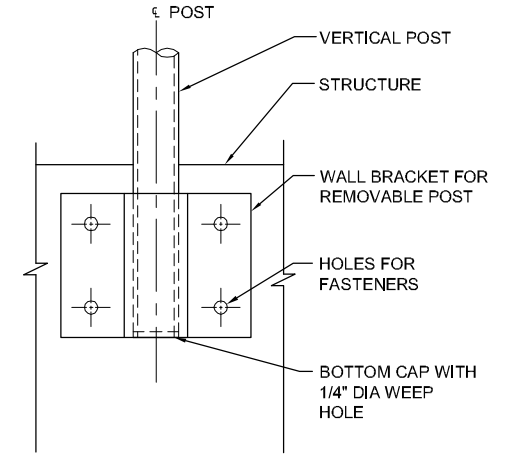


**TYPE "A" GUARDRAIL**



**REMOVABLE  
RAILING POST PIN**

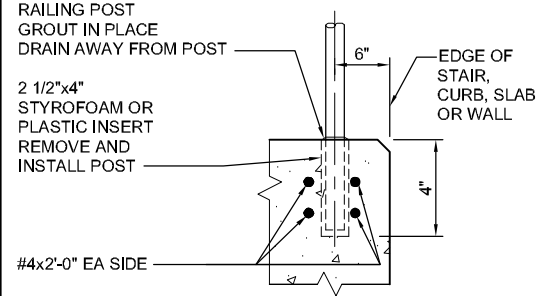
NTS 25 VAR



**REMOVABLE  
GUARDRAIL POST WALL MOUNTING**

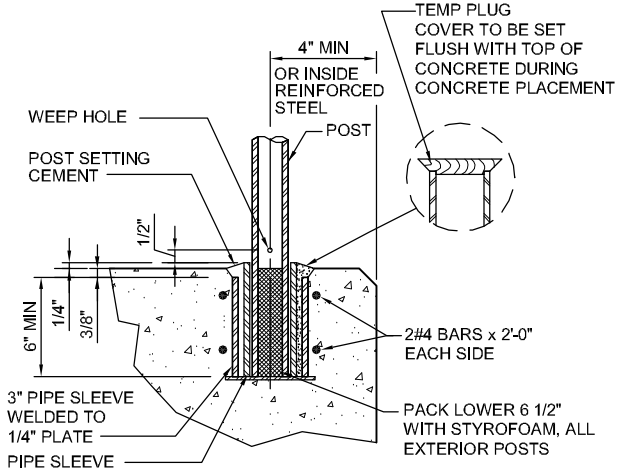
NTS 26 VAR

- RAILING NOTES:**
- ALL RAILING SHALL BE ALUMINUM, UNLESS OTHERWISE SPECIFIED.
  - TYPE A RAILING SHALL BE PROVIDED UNLESS OTHERWISE SHOWN ON DRAWINGS.
  - ALL FASTENERS SHALL BE STAINLESS STEEL.
  - RAILING SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH ANY PIPING, EQUIPMENT OR EASE-OUT AIR PIPING ASSEMBLY. CONTRACTOR TO COORDINATE.
  - RAILING POST LOCATIONS SHALL BE FIELD MEASURED AND RAILING FABRICATED TO FIT. NO FIELD CUTTING OR WELDING WILL BE PERMITTED. RAILING WHICH DOES NOT FIT MOUNTING PREVIOUSLY SET IN CONCRETE WILL BE REJECTED.
  - WHERE NO CURB, PROVIDE TOE BOARD UNLESS SPECIFICALLY CALLOUT AS NO TOE PLATE REQUIRED.
  - SPACING OF EXPANSION JOINT IN RAIL AND TOEBOARD SHALL NOT EXCEED 20 FEET.
  - RAILING POST TO BE EVENLY SPACED.



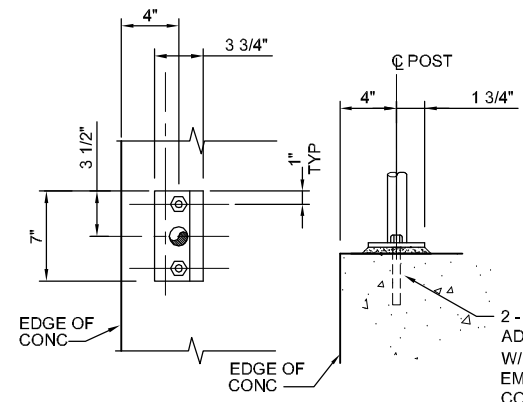
**RAILING  
POST MOUNTING**

NTS 12 VAR



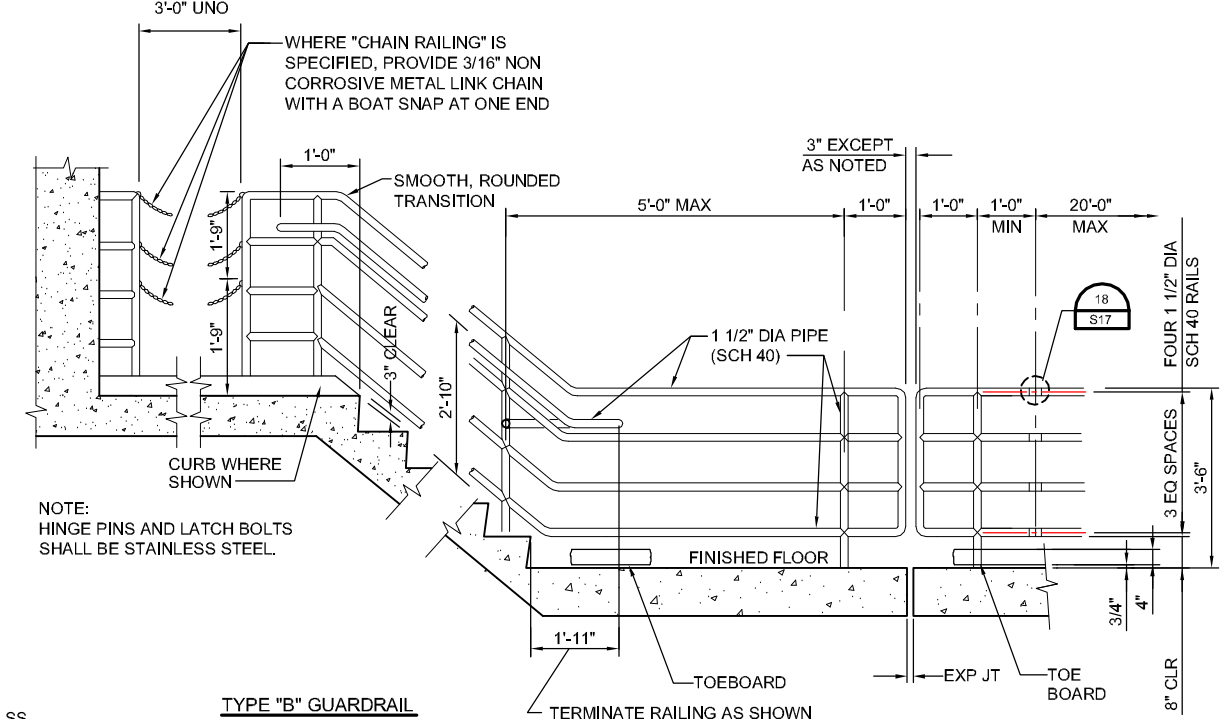
**REMOVABLE GUARDRAIL  
POST SETTING**

NTS 13 VAR



**POST MOUNTING -  
RECTANGULAR BASE**

NTS 14 VAR



**TYPE "B" GUARDRAIL**

**TYPICAL GUARDRAILS**

NTS 15 VAR



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

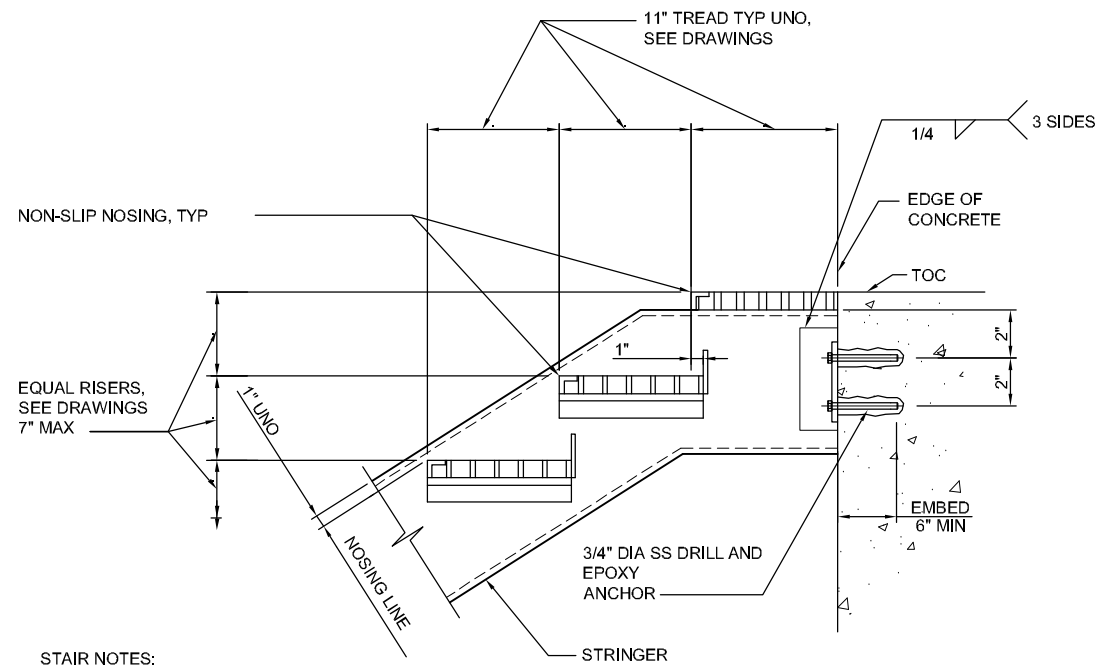
DRAWN BY: R. PRASAD      DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**  
STATE PROJECT NUMBER: BA-153  
FEDERAL PROJECT NUMBER: BA-153  
APPROVED BY:

**VOLUME 2  
TYPICAL METAL WORKS 2**  
DATE: JULY 2014  
DWG 2-20S011      SHEET 5

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\01\051652\20S011.dwg Plotted By: rprasad

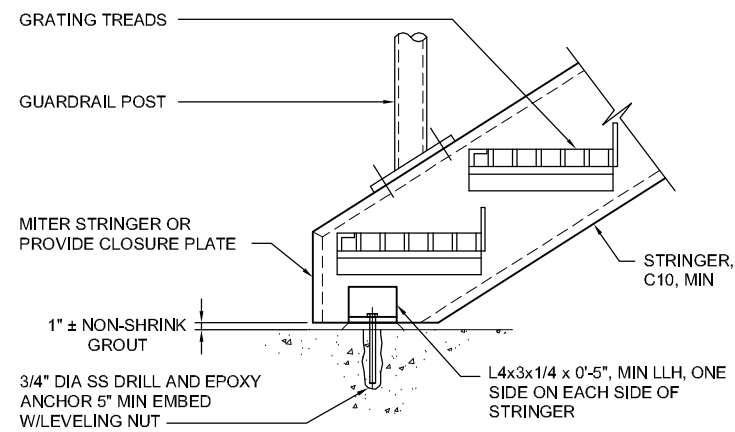




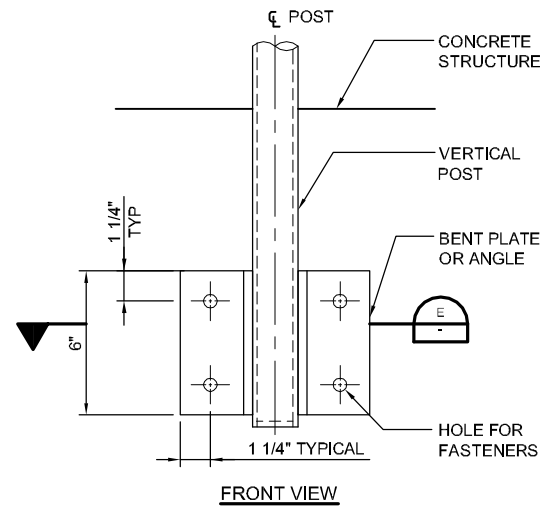
**STAIR NOTES:**

- ALL STAIRS AND APPURTENANT ITEMS SHOWN ON DRAWINGS SHALL BE ALUMINUM, UNLESS SHOWN AS CONCRETE STAIRS ON DRAWINGS. ALL FASTENERS SHALL BE STAINLESS STEEL TYPE 316.
- STAIR TREADS, STRINGERS, RAILING AND CONNECTION DESIGN BY MANUFACTURER. SEE SPECIFICATION SECTION 05505.

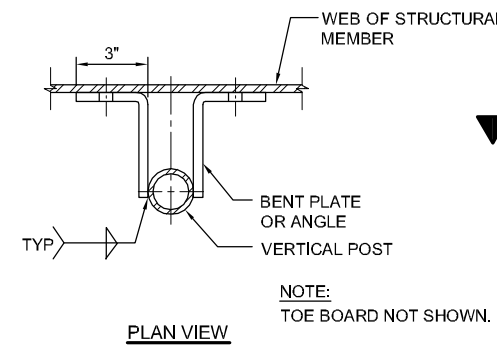
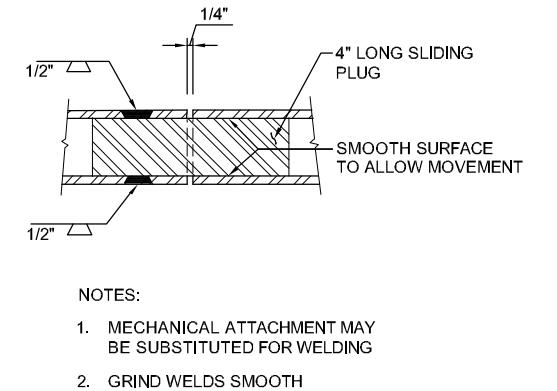
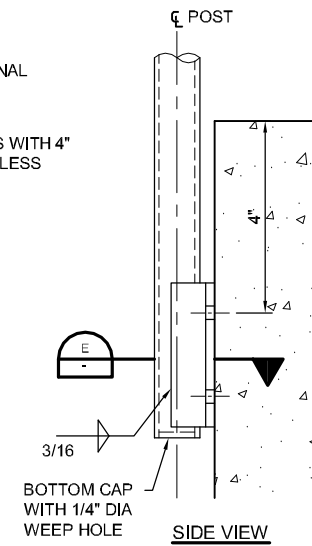
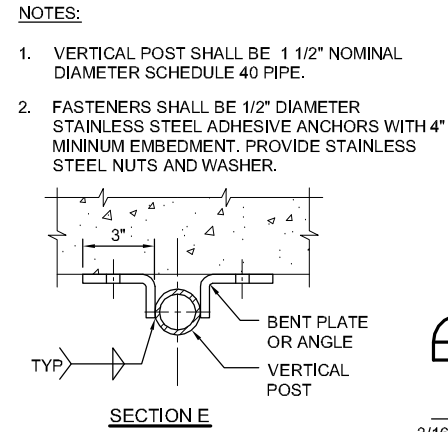
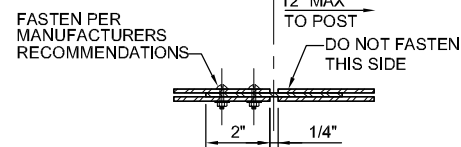
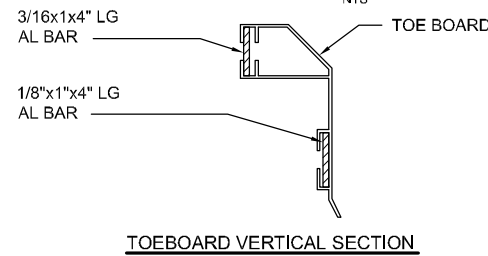
**ALUMINUM STAIR AT TOP** 16 VAR NTS



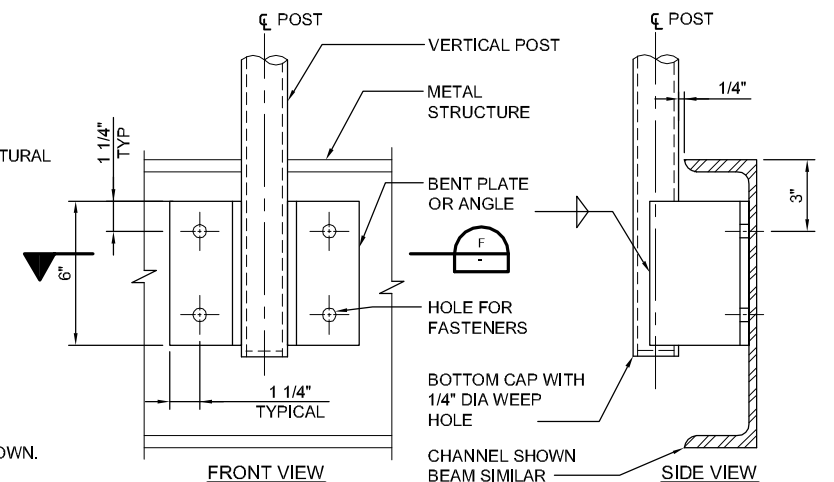
**ALUMINUM STAIR AT BOTTOM** 21 VAR NTS



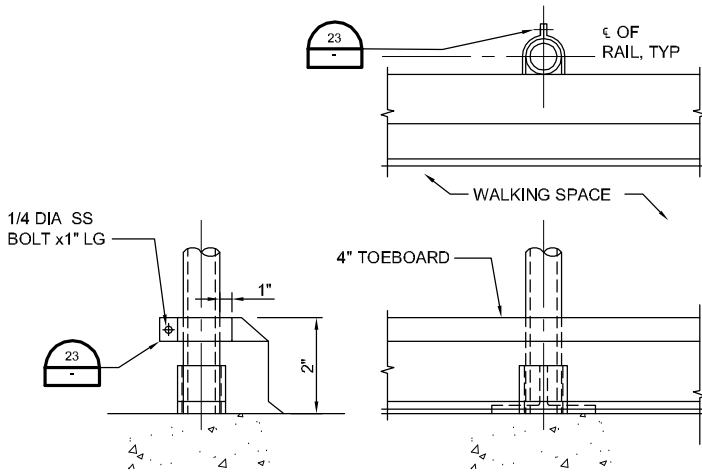
**GUARDRAIL POST ANCHORAGE DETAIL AT CONCRETE** 17 VAR NTS



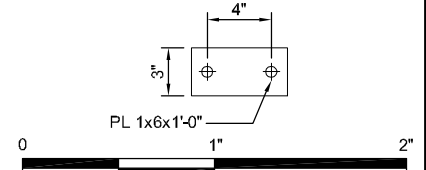
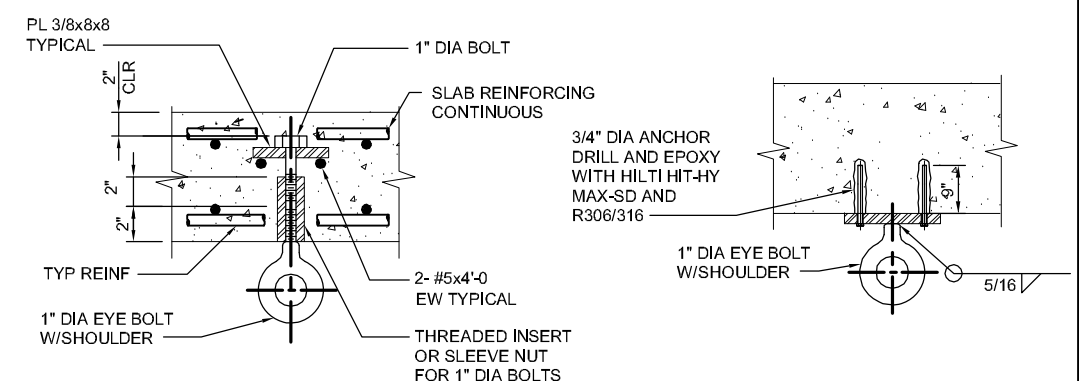
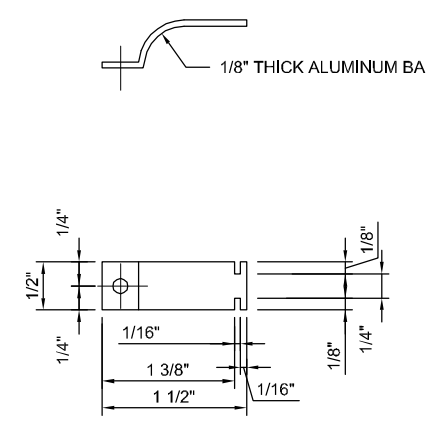
**SECTION** F NTS



**RAILING POST ANCHORAGE DETAIL AT METAL** 20 VAR NTS



NOTE: TOE BOARD TO MATCH EXISTING



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT DIVERSION**

STATE PROJECT NUMBER: BA-153

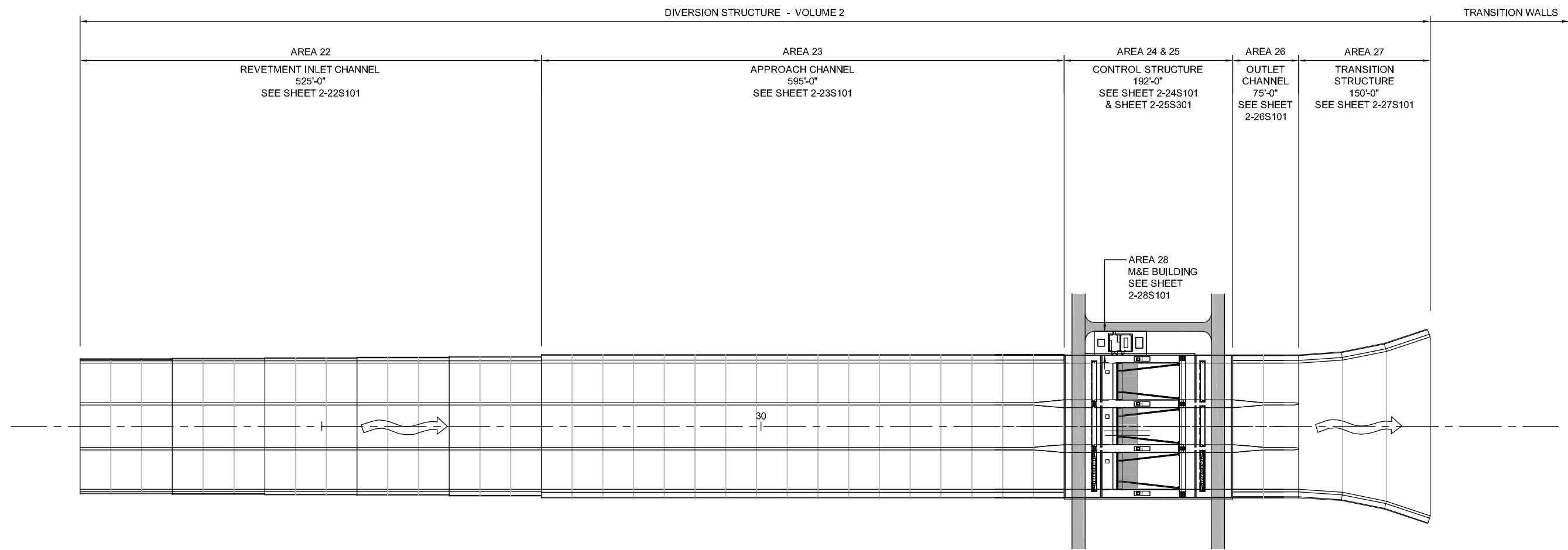
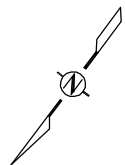
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

**VOLUME 2 TYPICAL METAL WORKS 3**

DATE: JULY 2014

DWG 2-20S012 SHEET 6



**KEY PLAN - DIVERSION STRUCTURE**  
1/128" = 1'-0"

**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

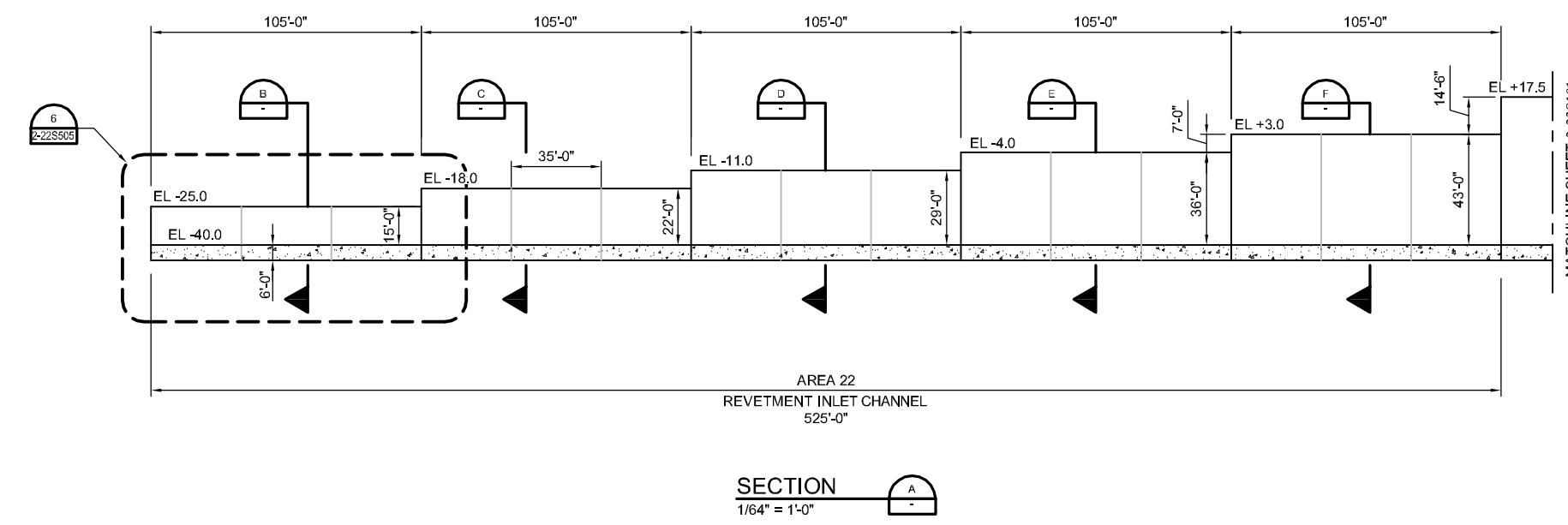
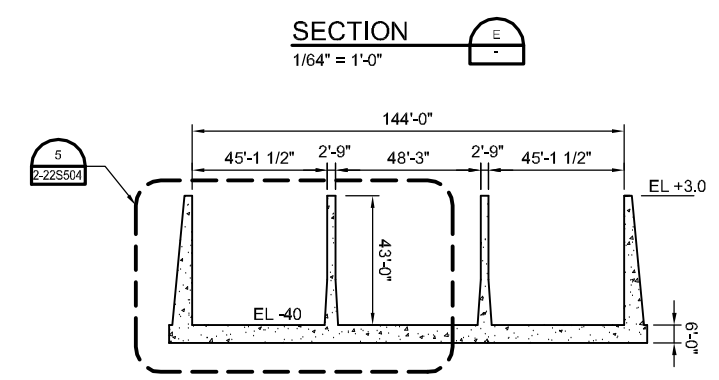
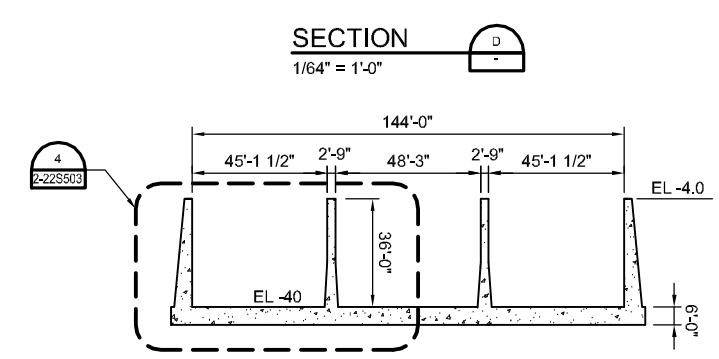
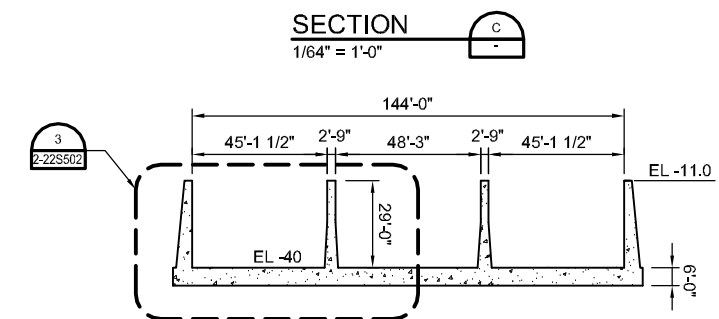
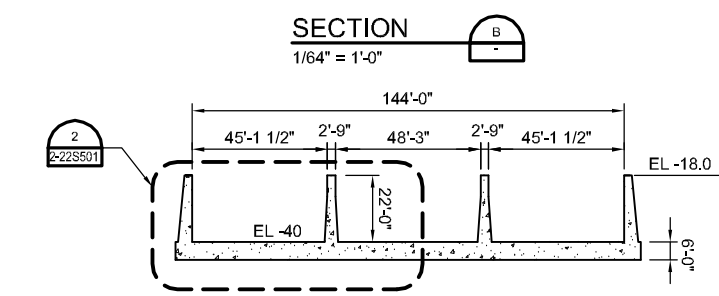
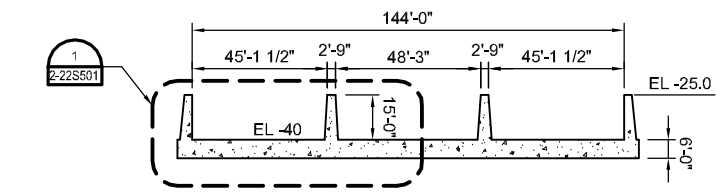
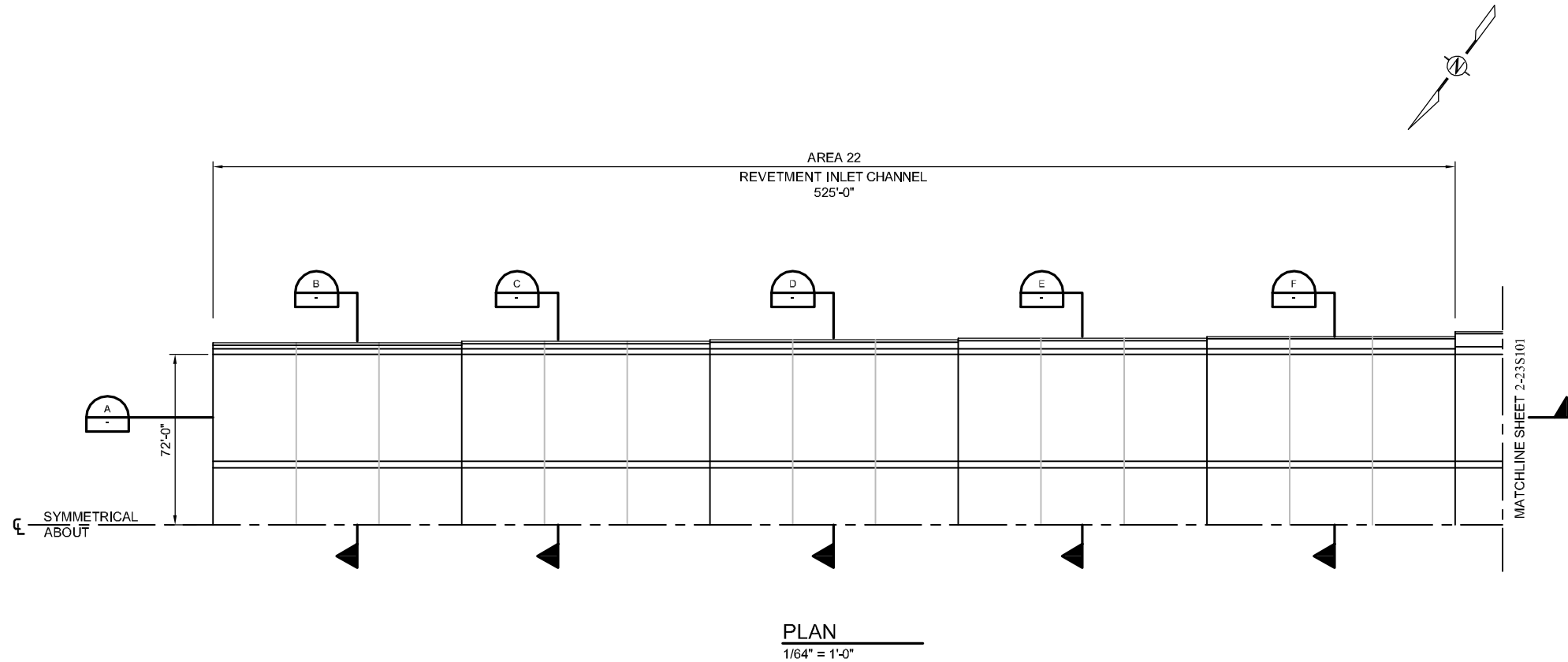
APPROVED BY:

VOLUME 2  
KEY PLAN

DATE: JULY 2014

DWG 2-20S101 SHEET 7

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\14051052\20S101.dwg Plotted By: rprasad



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931

ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

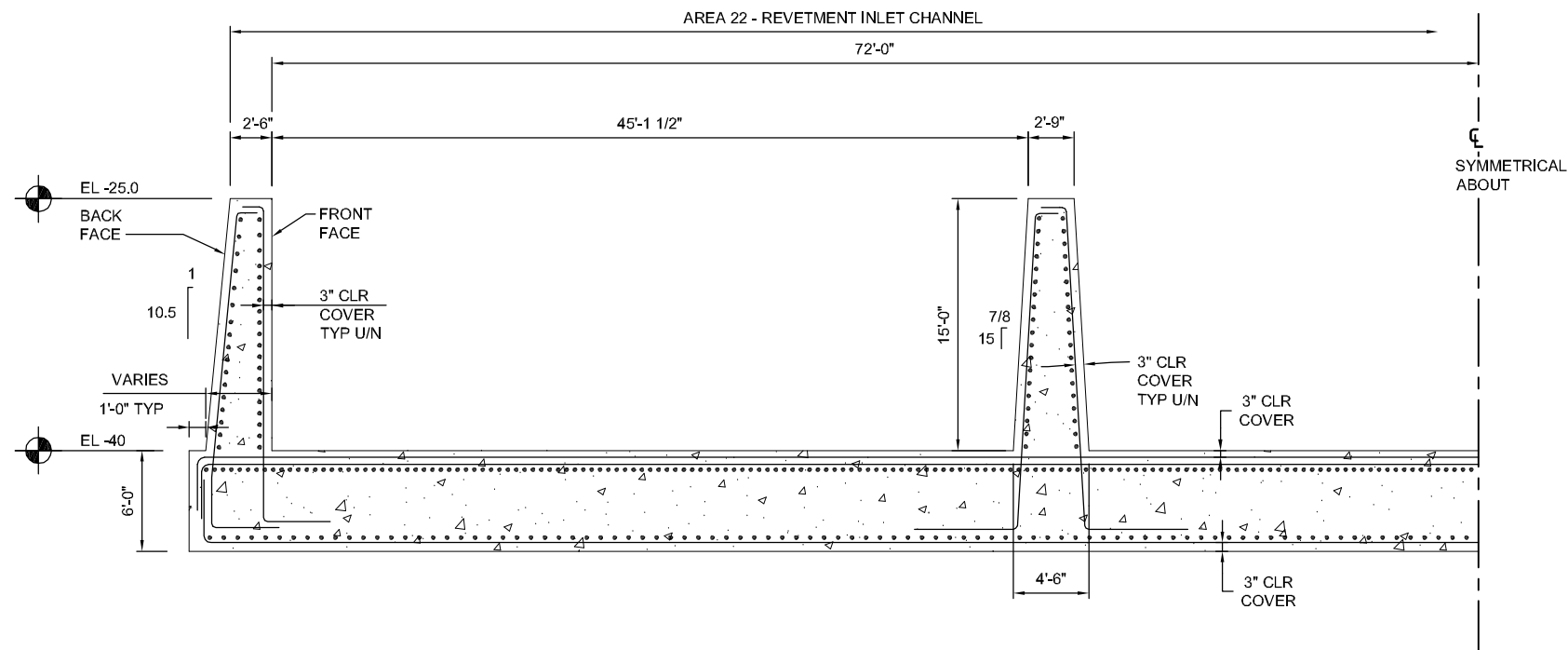
APPROVED BY:

**VOLUME 2  
REVETMENT INLET  
CHANNEL- PLAN AND  
SECTIONS**

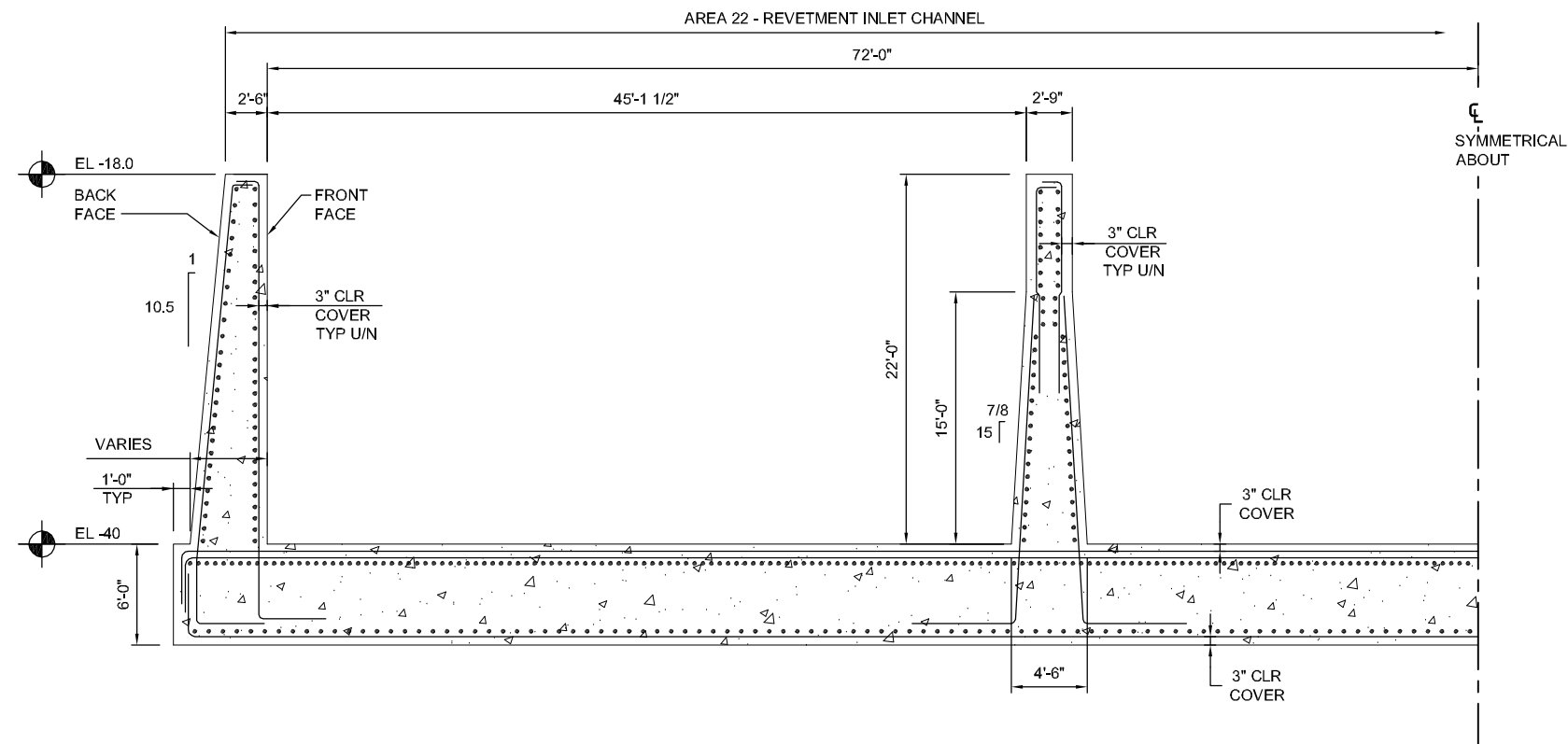
DATE: JULY 2014

DWG 2-22S101 SHEET 8

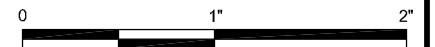




DETAIL 1  
3/32" = 1'-0"



DETAIL 2  
3/32" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

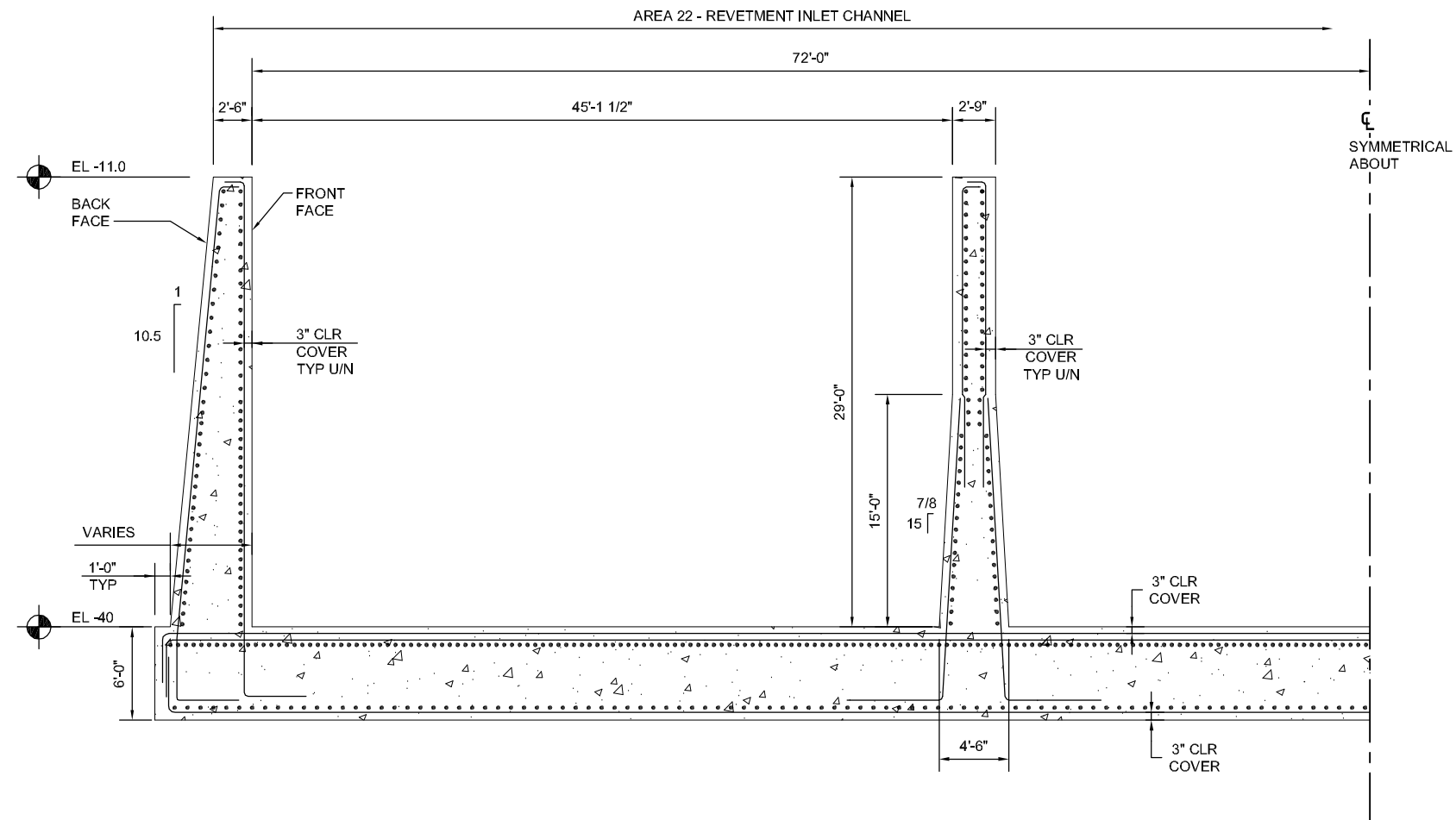
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2  
REVTMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAILS

DATE: JULY 2014

DWG 2-22S501 SHEET 9



DETAIL  
3/32" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

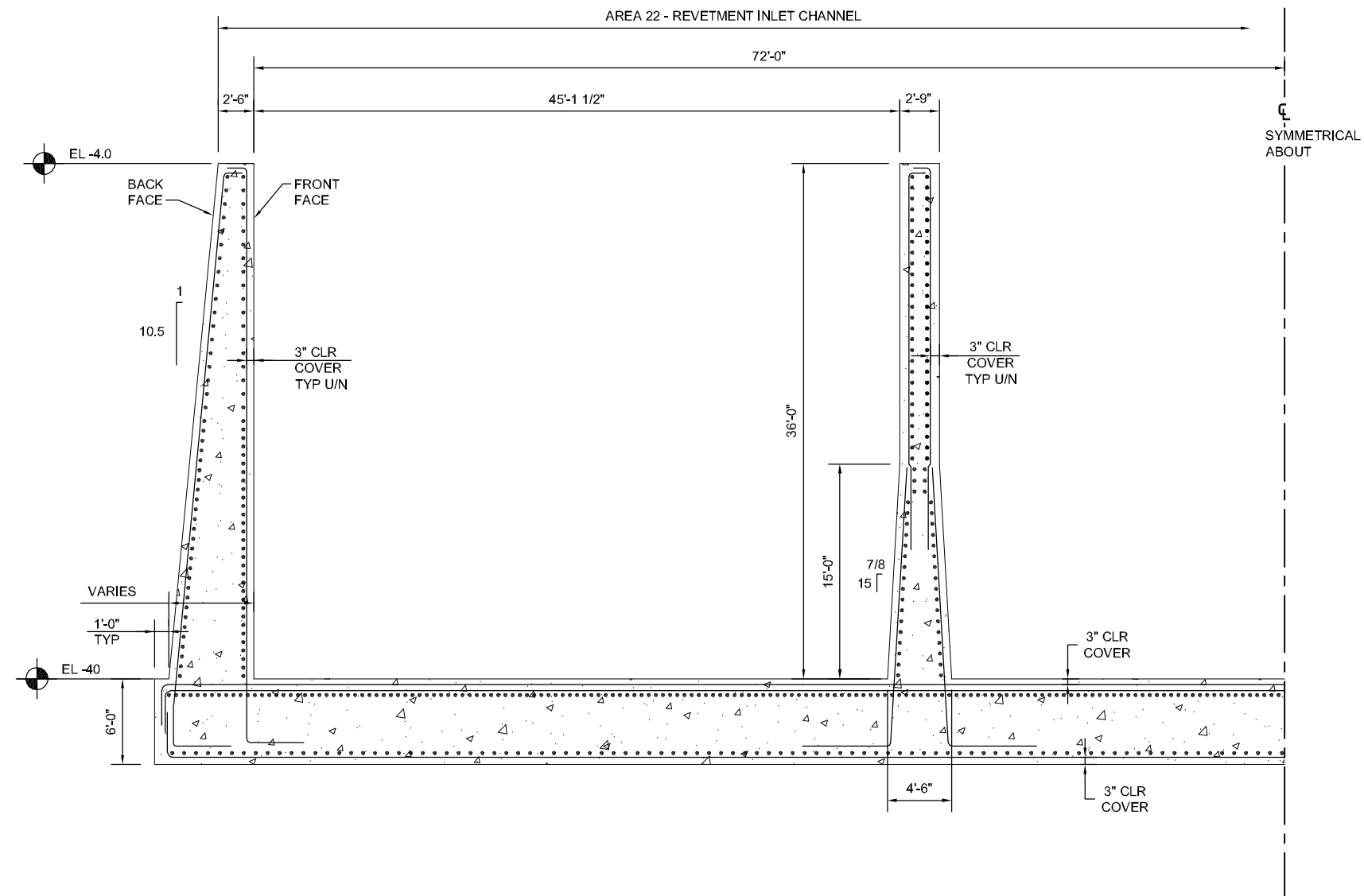
APPROVED BY:

**VOLUME 2  
REVTMENT INLET  
CHANNEL- CONC SLAB AND  
WALL REINF DETAILS**

DATE: JULY 2014

DWG 2-22S502 SHEET 10

Date: Jul 03, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\plotters\2-22S502.dwg Plotted By: rprasad



DETAIL 4  
3/32" = 1'-0" 2-22S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

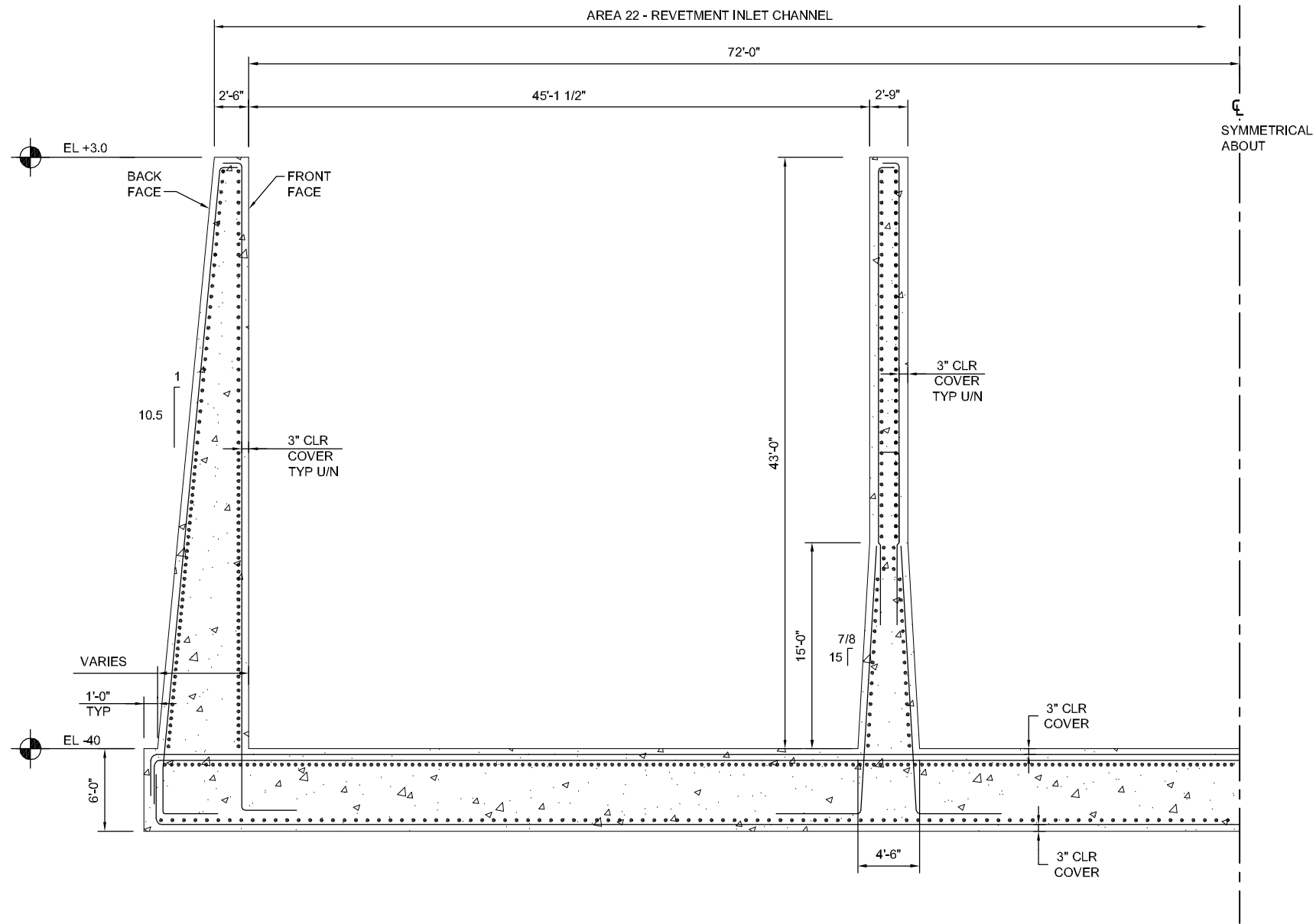
VOLUME 2  
REVETMENT INLET CHANNEL- CONC SLAB AND WALL REINF DETAILS

DATE: JULY 2014

DWG 2-22S503 SHEET 11

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\2-22S503.dwg Plotted By: rprasad





DETAIL 5  
3/32" = 1'-0" 2-22S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

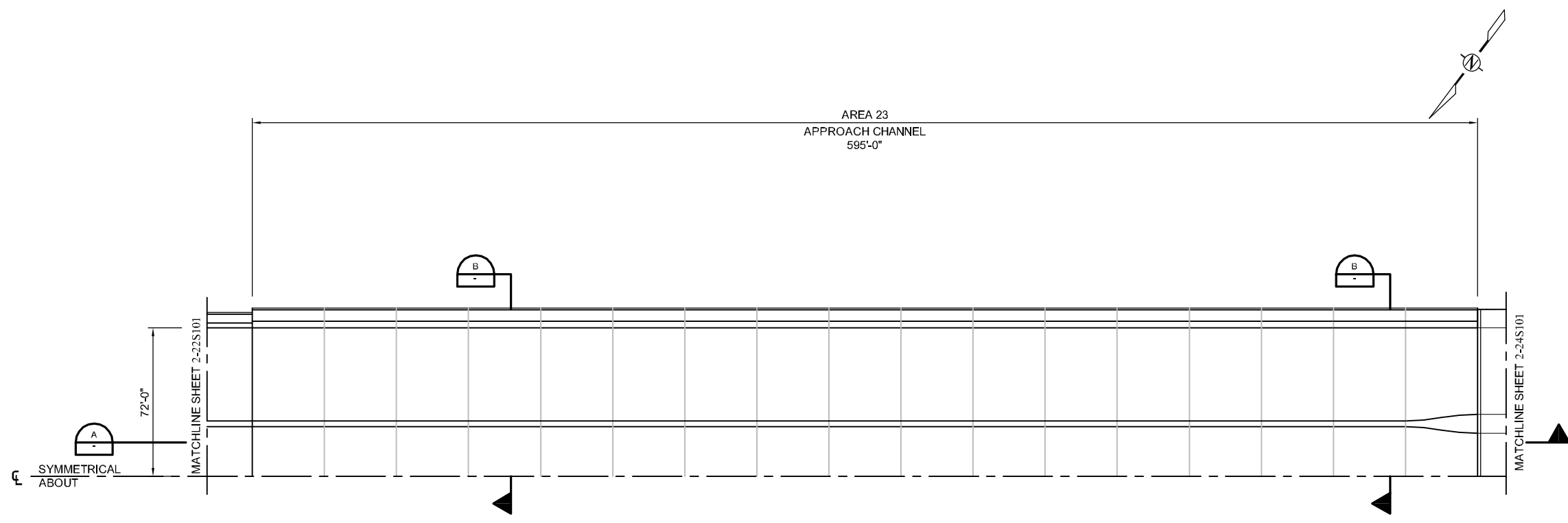
APPROVED BY:

**VOLUME 2  
REVTMENT INLET  
CHANNEL- CONC SLAB AND  
WALL REINF DETAIL**

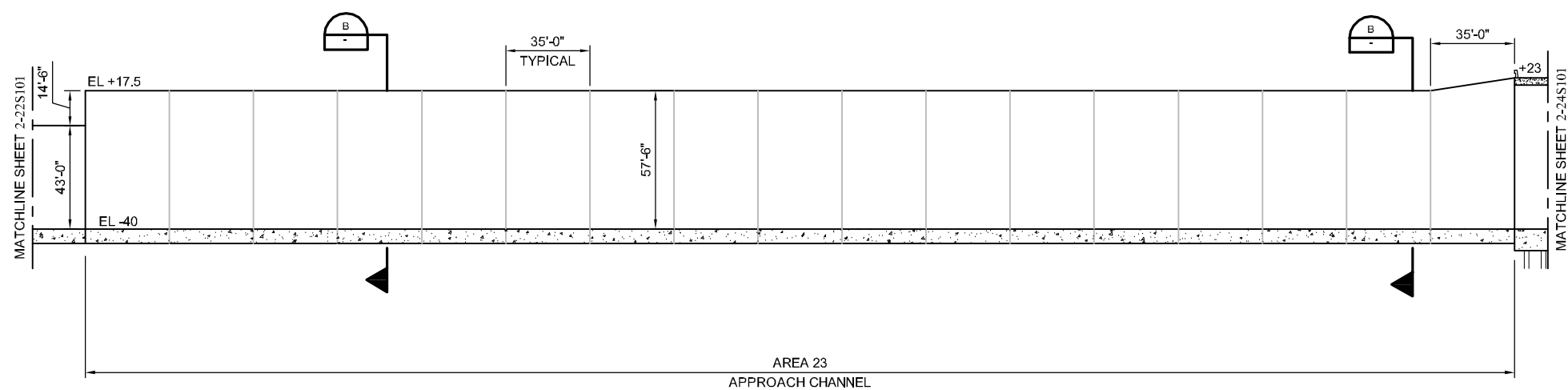
DATE: JULY 2014

DWG 2-22S04 SHEET 12

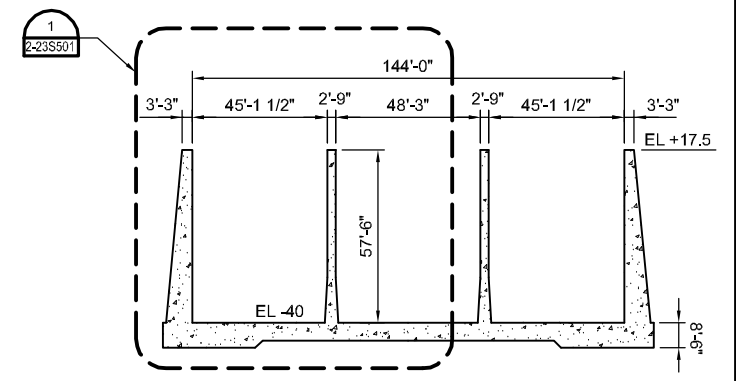
Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\2-22S04.dwg Plotted By: rprasad



**PLAN**  
1/64" = 1'-0"



**SECTION**  
1/64" = 1'-0"



**SECTION (BUILT IN THE DRY)**  
1/64" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931

ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
**ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

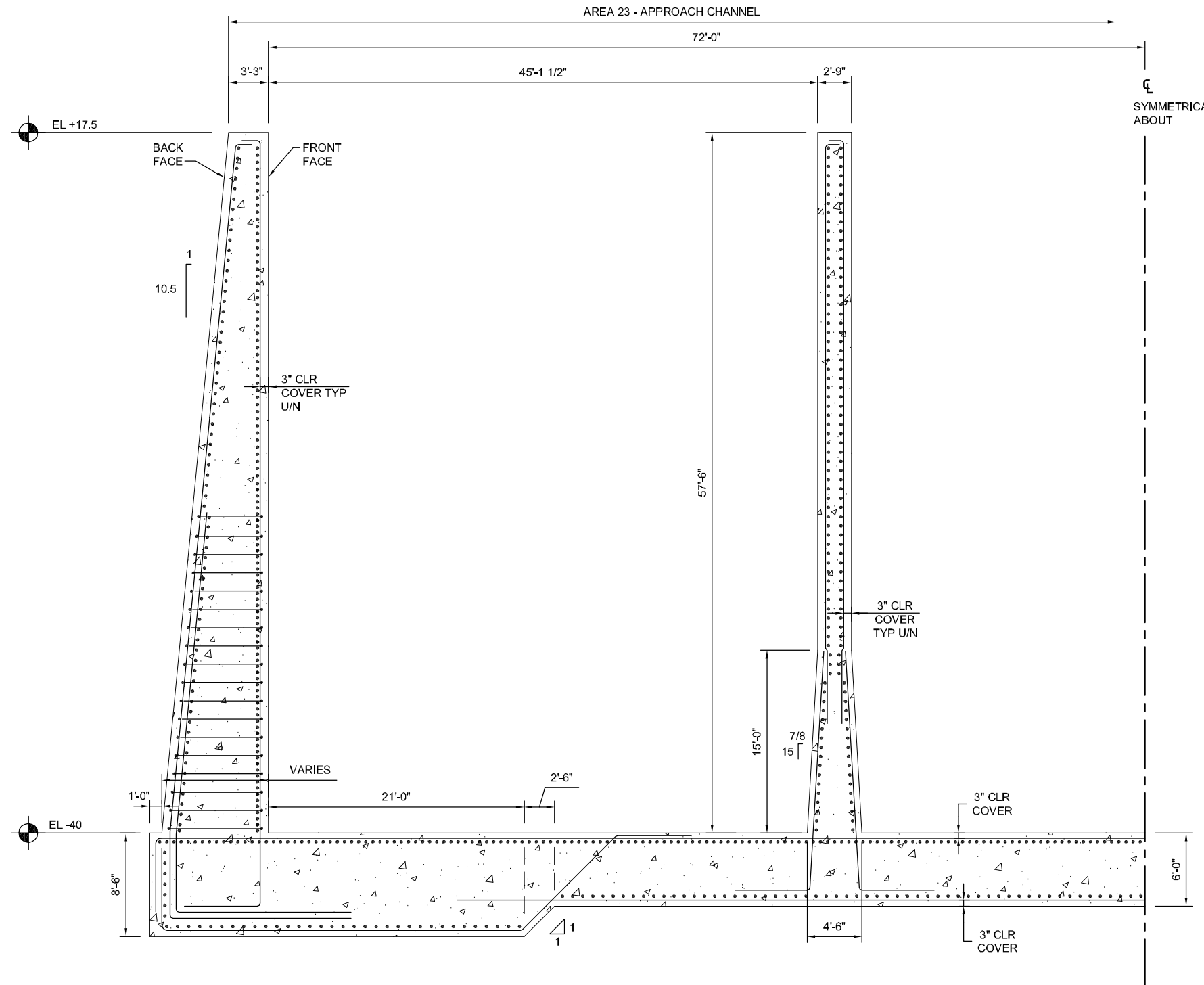
APPROVED BY:

VOLUME 2  
APPROACH CHANNEL - PLAN  
AND SECTION

DATE: JULY 2014

DWG 2-23S101 SHEET 13

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jprasad\2-23S101.dwg Plotted By: rprasad



DETAIL  
3/32" = 1'-0"  
2-23S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

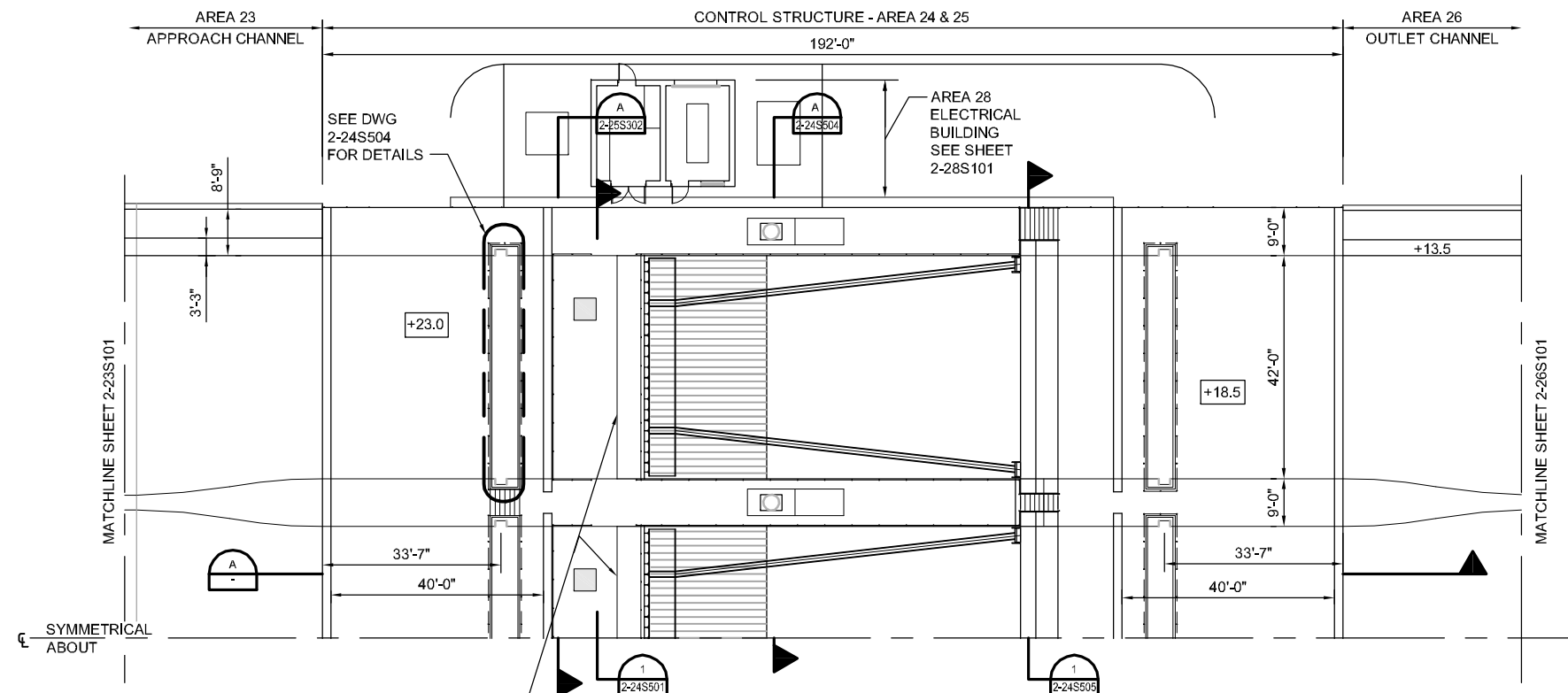
VOLUME 2  
APPROACH CHANNEL -  
CONC SLAB AND WALL  
REINF DETAILS

DATE: JULY 2014

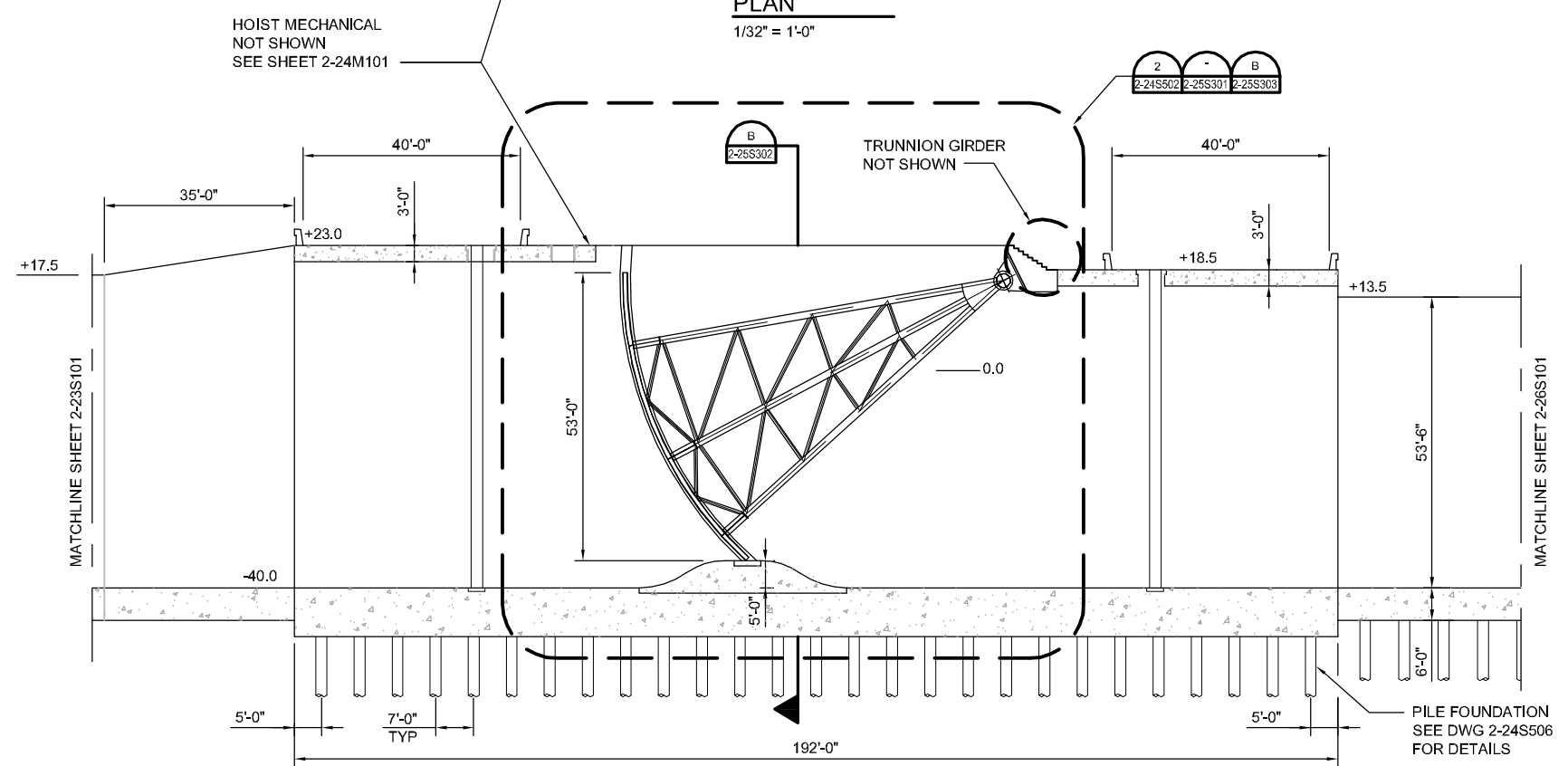
DWG 2-23S501 SHEET 14

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\2351\2351.dwg Plotted By: rprasad

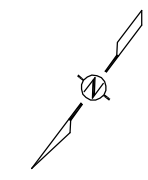




PLAN  
1/32" = 1'-0"



SECTION  
1/32" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

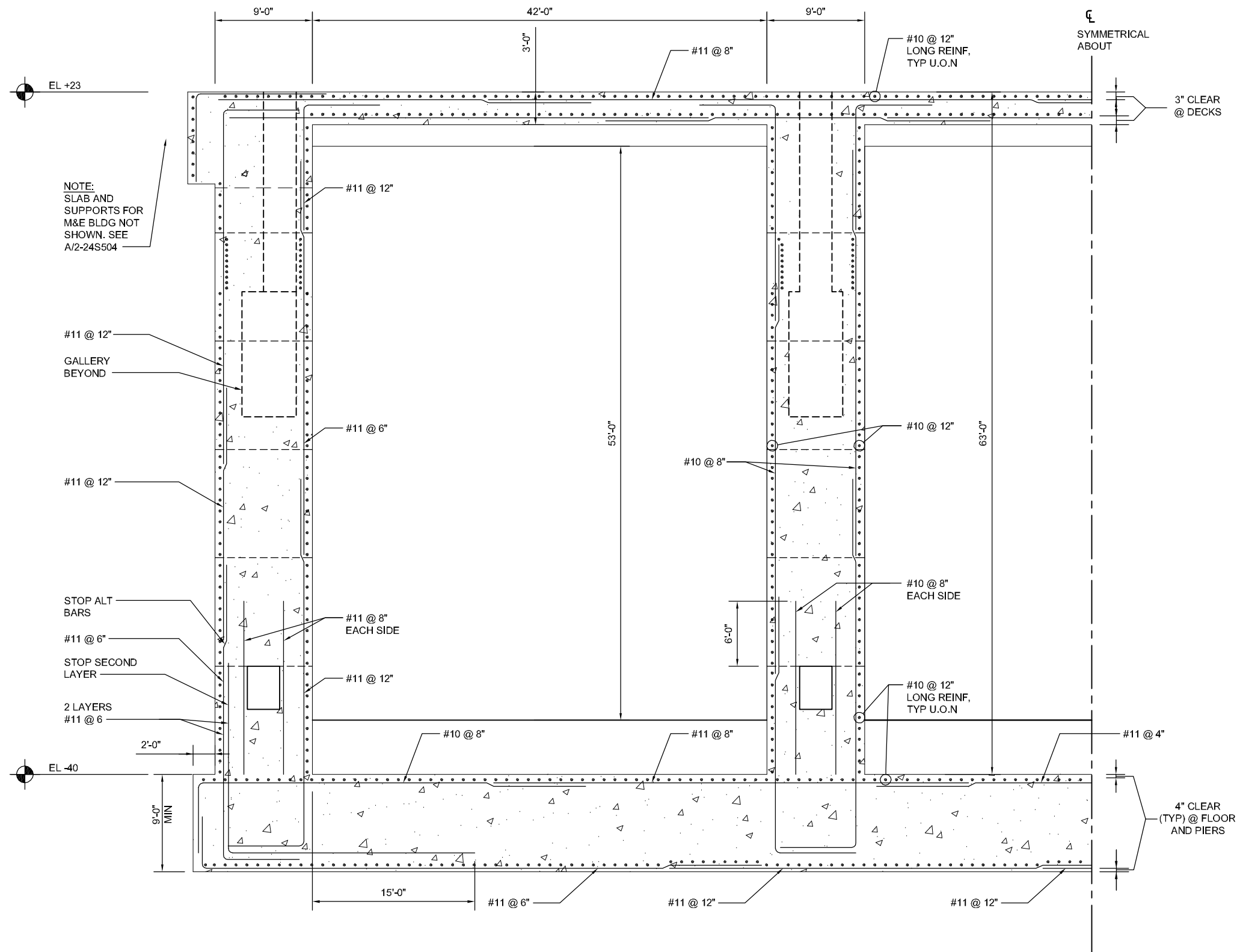
**VOLUME 2**

**GATES - PLAN AND SECTION**

DATE: JULY 2014

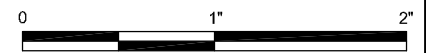
DWG 2-24S101 SHEET 15

Date: Jul 03, 2014 Time: 10:24am File Name: C:\working\jpr\0510523\24S101.dwg Plotted By: rprasad



NOTE:  
FILE FOUNDATION NOT  
SHOWN FOR CLARITY

DETAIL  
3/32" = 1'-0"  
1  
2-24S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

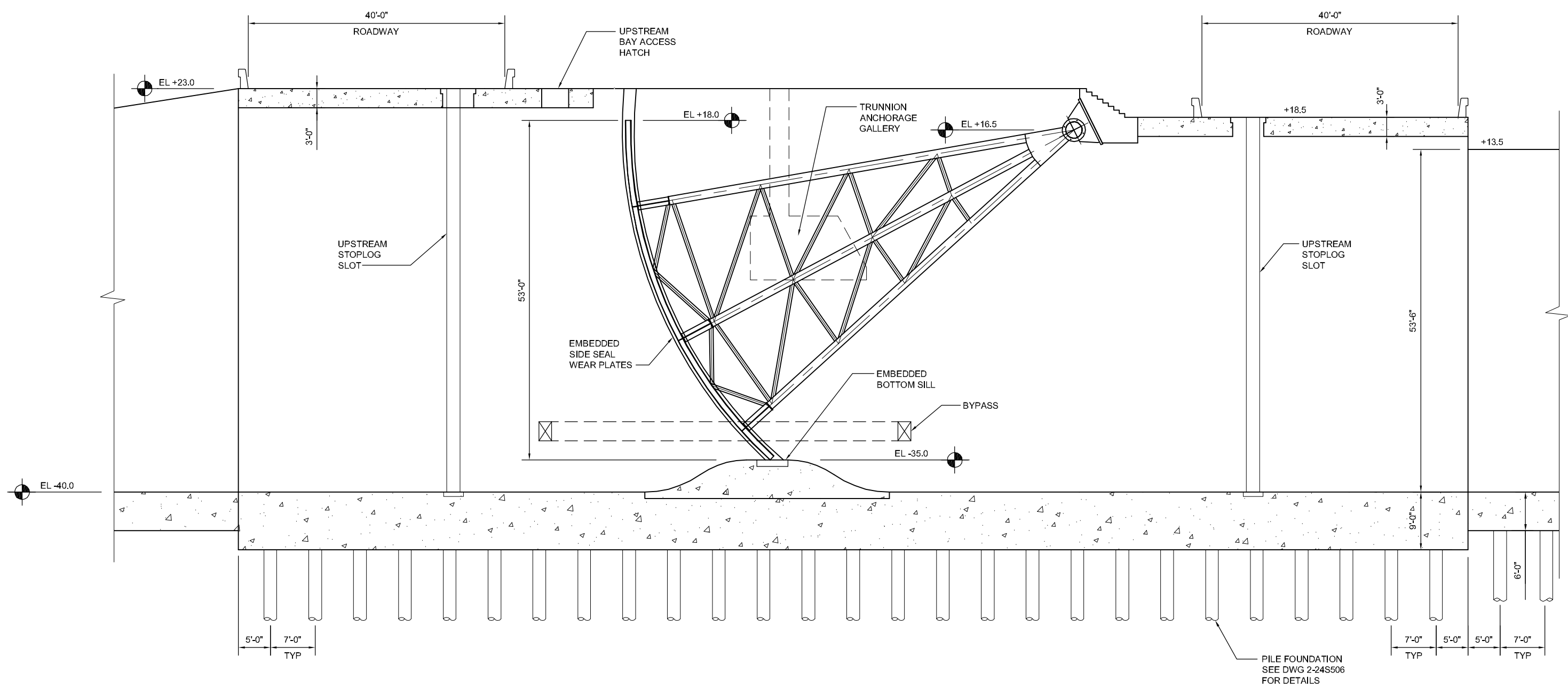
APPROVED BY:

VOLUME 2  
CONTROL STRUCTURE -  
CONC SLAB AND WALL  
REINF DETAILS

DATE: JULY 2014

DWG 2-24S501 SHEET 16

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\24S101.dwg Plotted By: rprasad



DETAIL 2  
 3/32" = 1'-0"



PRELIMINARY DOCUMENTS

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
 ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
 ENGINEERING DIVISION

450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

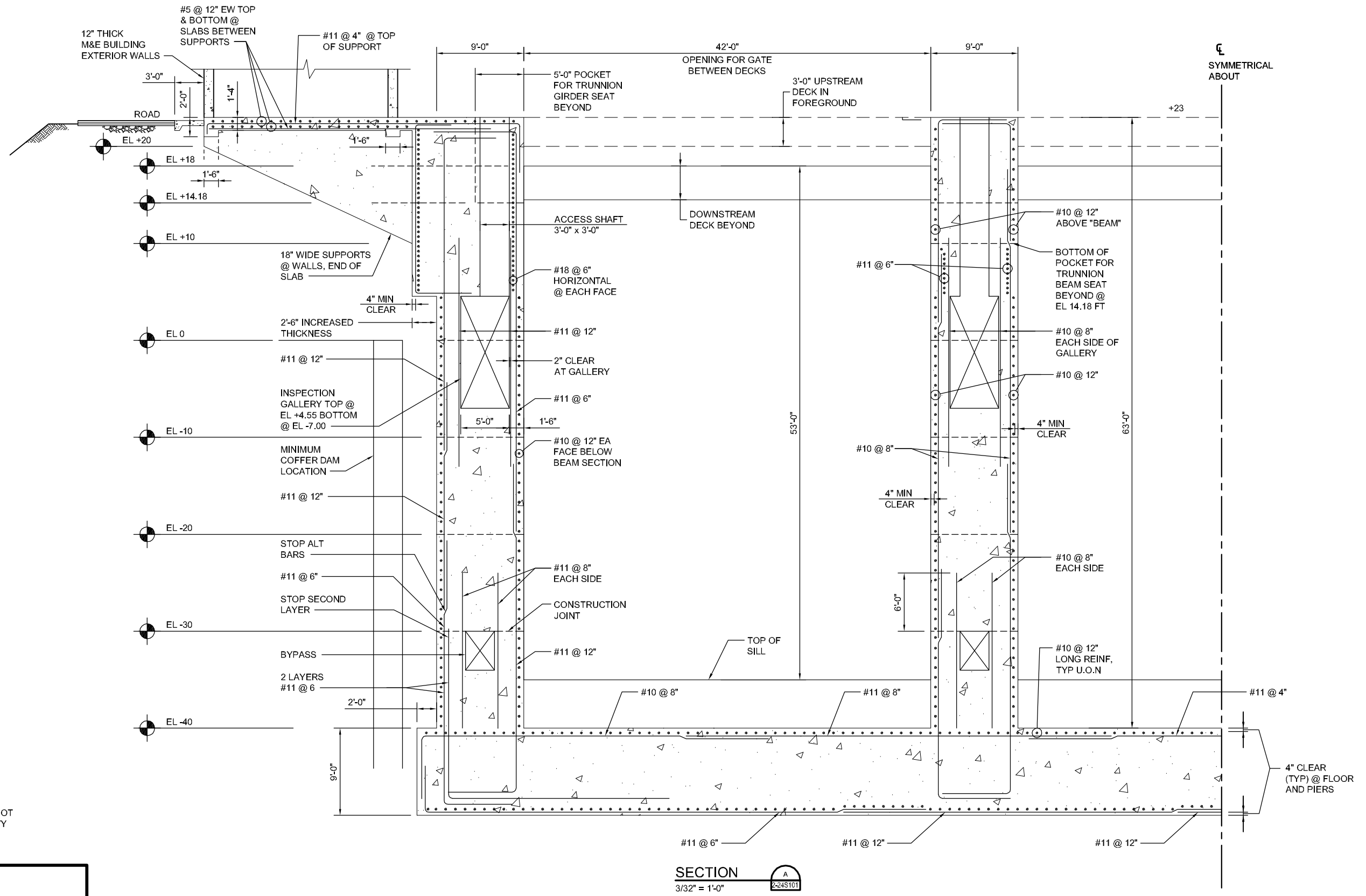
VOLUME 2  
CONTROL STRUCTURE -  
CONC SLAB AND WALL  
REINF DETAILS

DATE: JULY 2014

DWG 2-24S502 SHEET 17

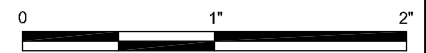
Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\0510523\24S502.dwg Plotted By: rprasad





NOTE:  
FILE FOUNDATION NOT  
SHOWN FOR CLARITY

SECTION A  
3/32" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

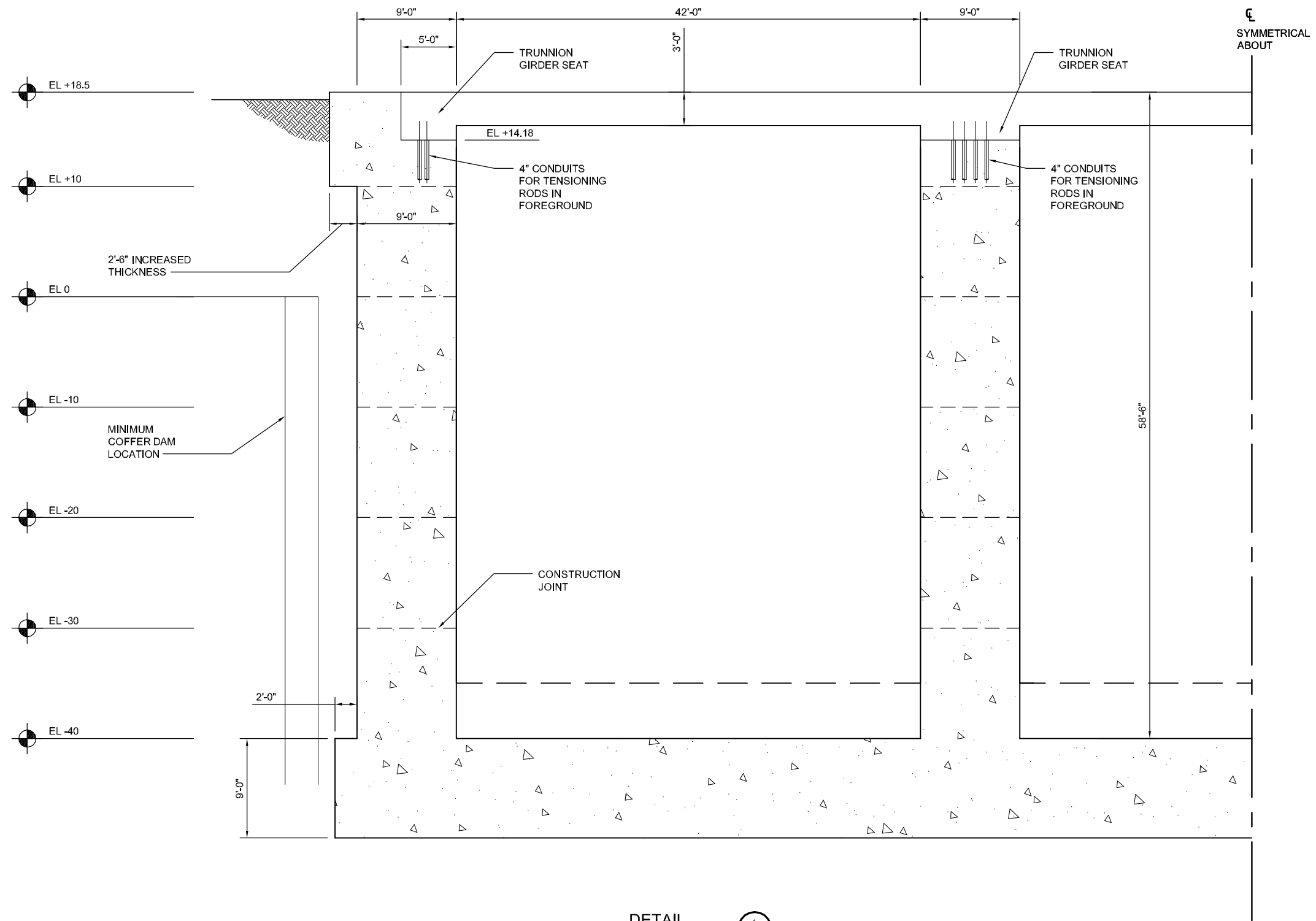
APPROVED BY:

VOLUME 2  
CONTROL STRUCTURE -  
CONC SLAB AND WALL  
REINF DETAIL

DATE: JULY 2014

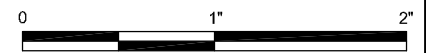
DWG 2-24S04 SHEET 18

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\24S\24S04.dwg Plotted By: rprasad



NOTE:  
PILE FOUNDATION NOT  
SHOWN FOR CLARITY

DETAIL 1  
3/32" = 1'-0" 2-24S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

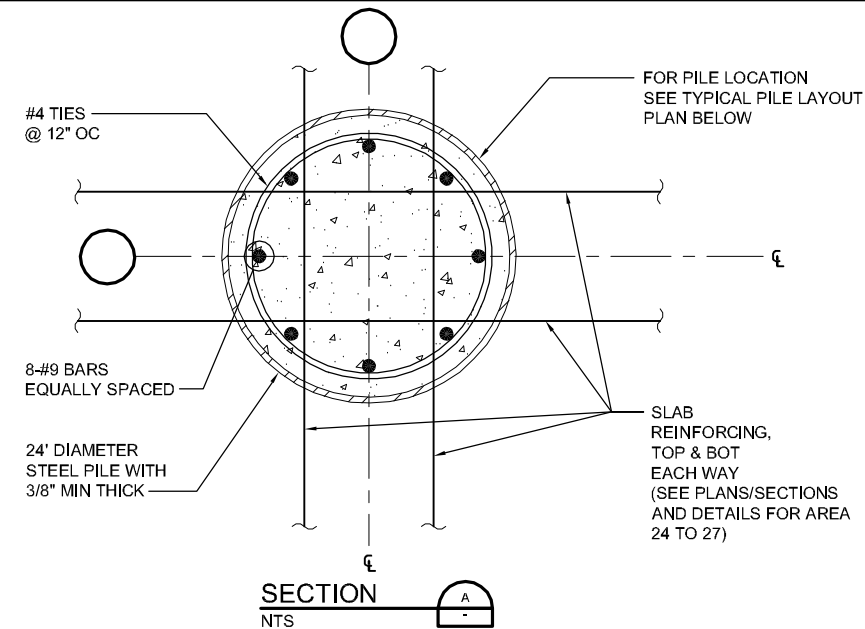
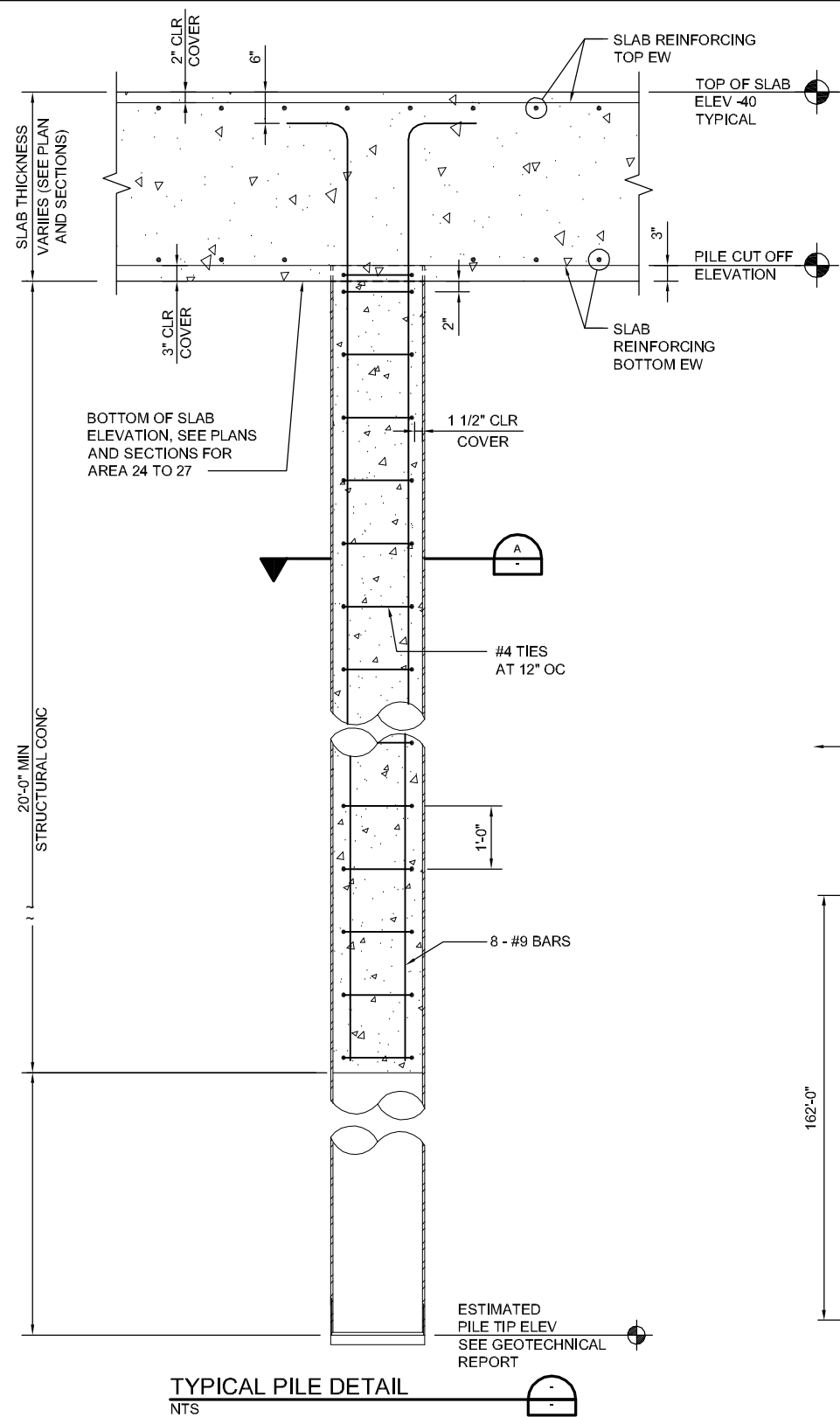
APPROVED BY:

VOLUME 2  
CONTROL STRUCTURE -  
CONC SLAB AND WALL  
REINF DETAILS

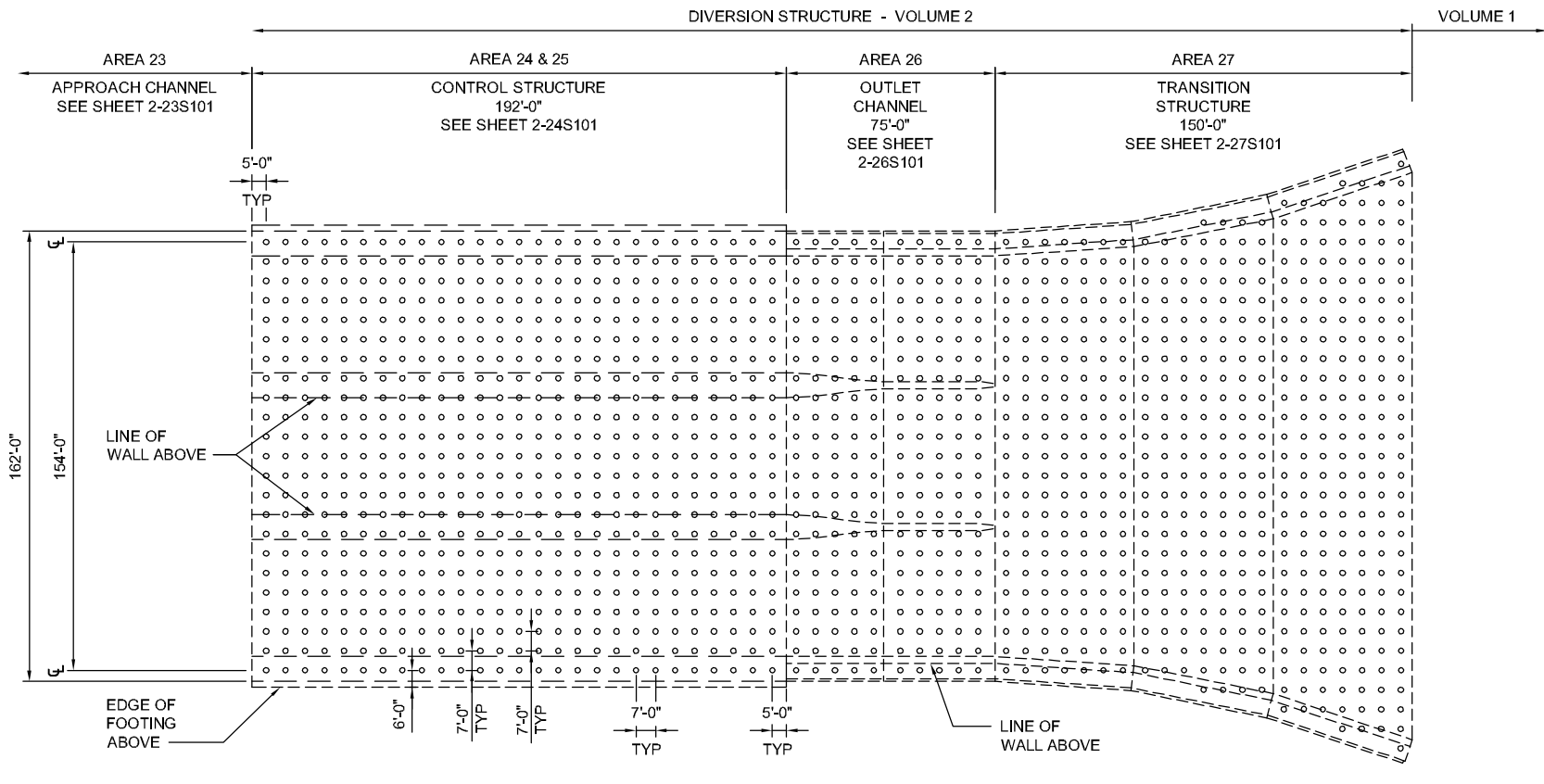
DATE: JULY 2014

DWG 2-24S505 SHEET 19

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\241051052\24S505.dwg Plotted By: rprasad



- NOTES:
1. ALL PIPE PILES ARE NOTED THUS P-X ON FOUNDATION PLANS.
  2. PILES SHALL BE ASTM A 252 GRADE 2 OR API 5L B.
  3. PILES SHALL BE DRIVEN INTO AN ULTIMATE AXIAL CAPACITY OF XXX USING DRIVING CRITERIA BASED ON THE FHWA GATES EQUATION WITH A FACTOR OF 3.0.
  4. MINIMUM DELIVERED LENGTH OF PILES SHALL BE DETERMINED BY THE CONTRACTOR BASED GEOTECHNICAL INFORMATION.
  5. PILE CUT-OFF ELEVATION SHALL ALL 3\"/>



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

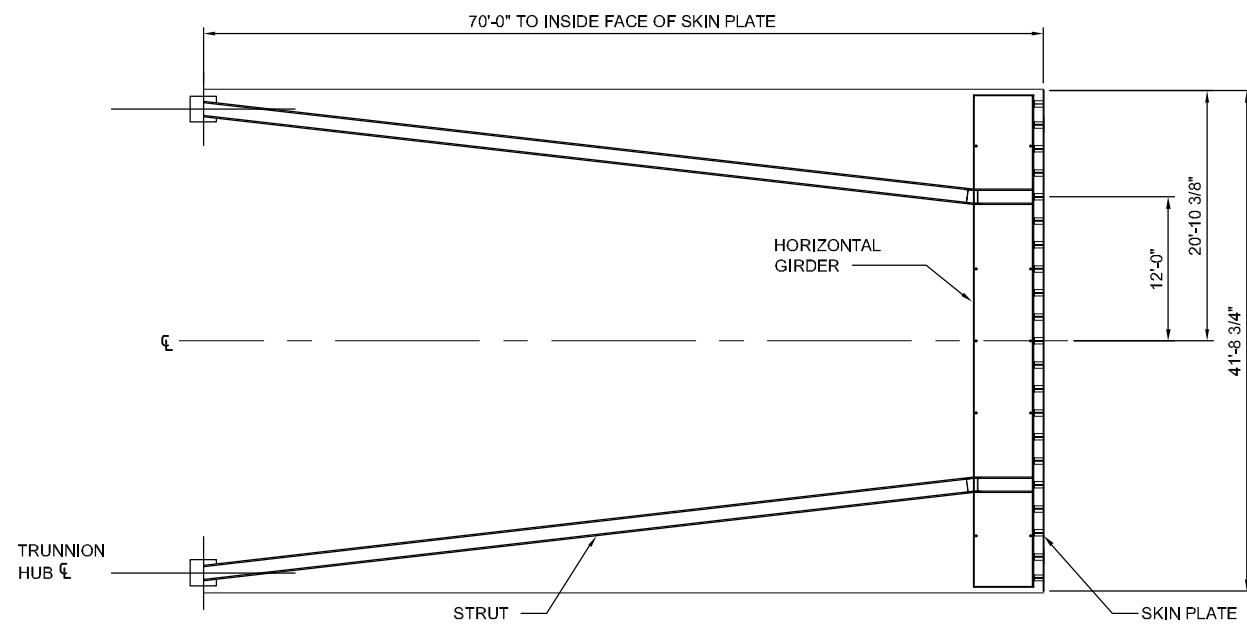
VOLUME 2  
CONTROL STRUCTURE - PILE SCHEDULE AND DETAILS

DATE: JULY 2014

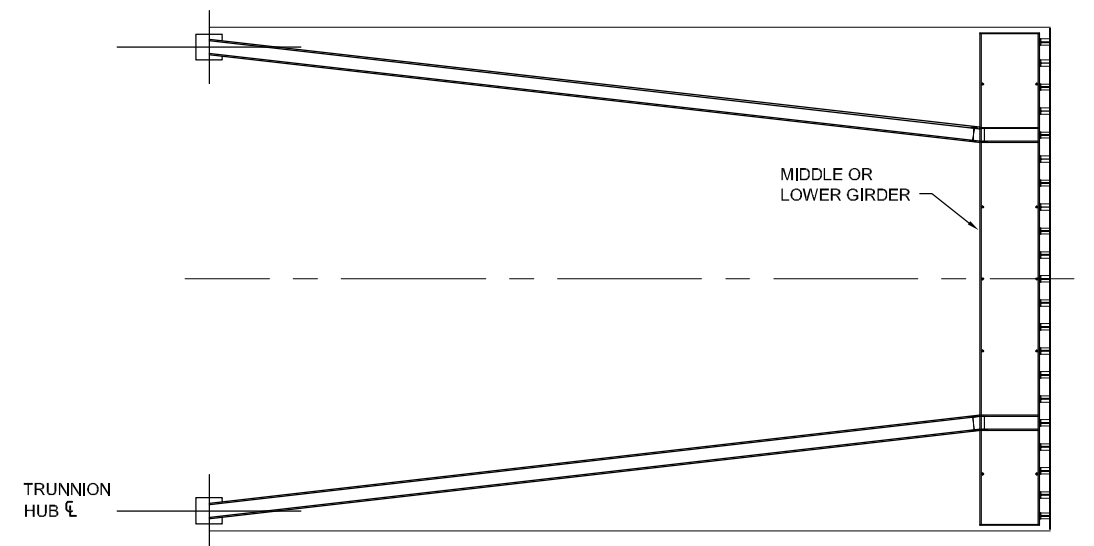
DWG 2-24S06 SHEET 20



Date: Jul 03, 2014 Time: 10:29am File Name: C:\working\p\150223\24S06.dwg Plotted By: rprasad

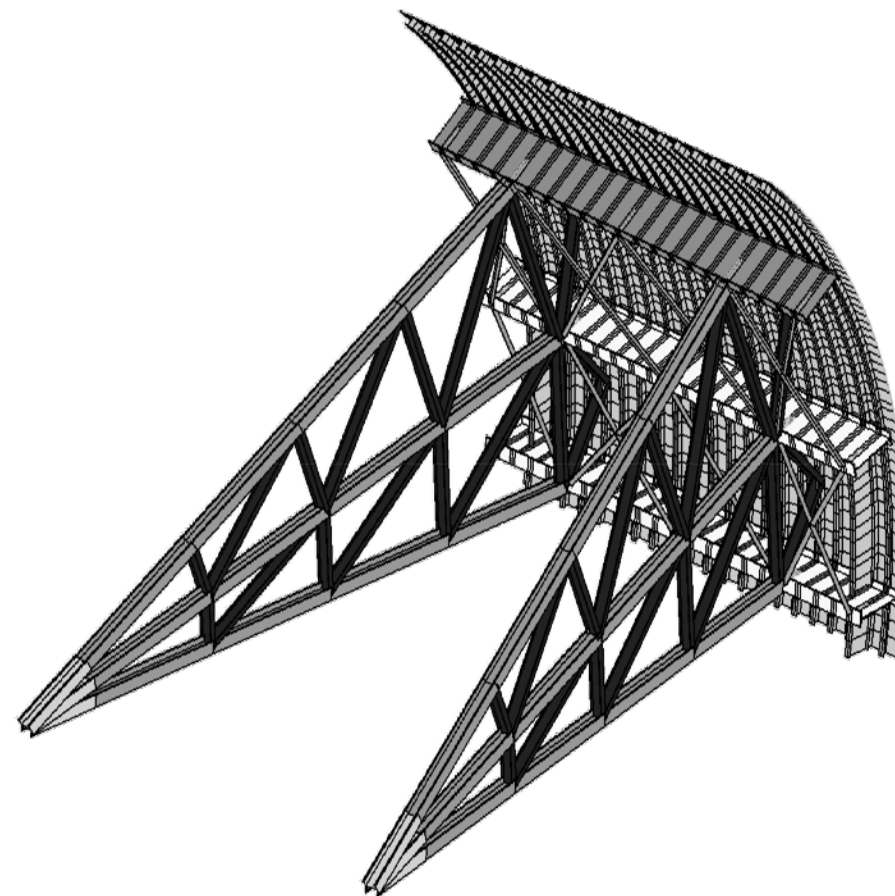


SECTION A  
1/16" = 1'-0"

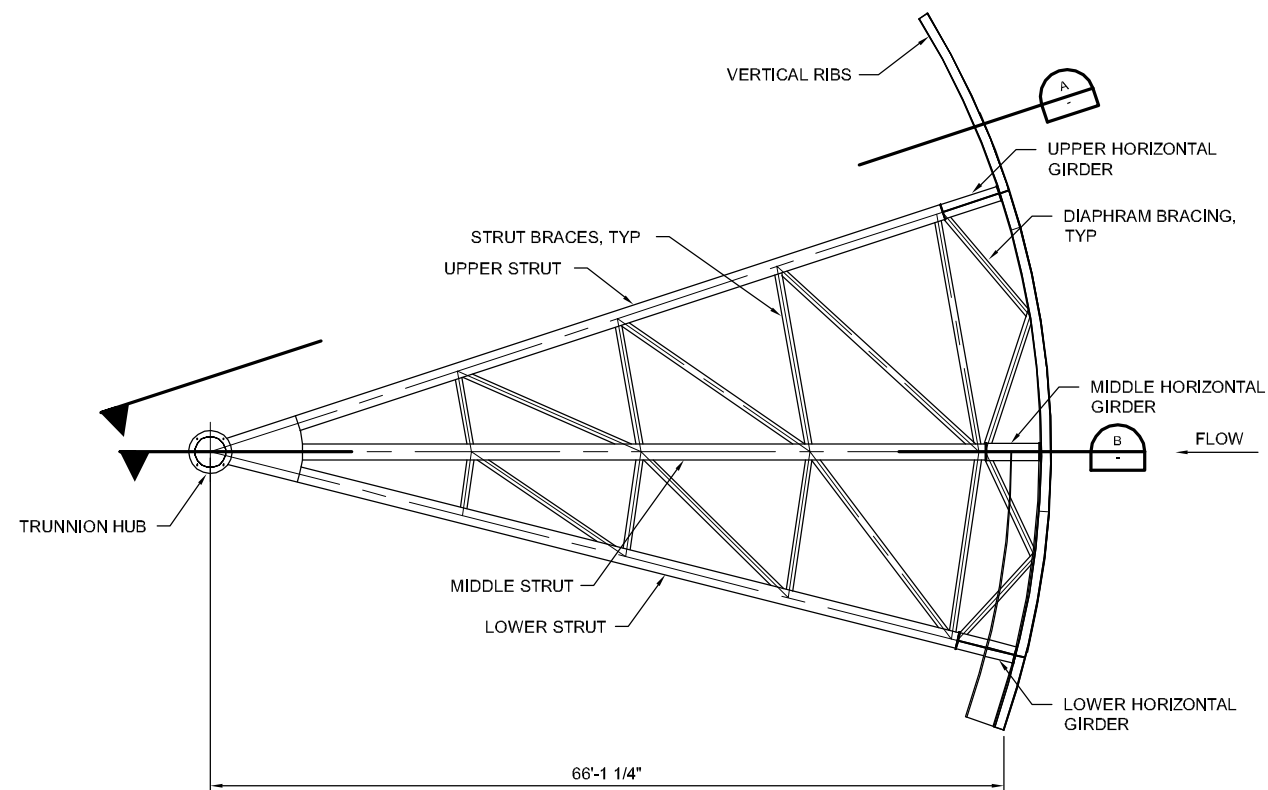


NOTE: MIDDLE GIRDER SHOWN. LOWER GIRDER SIMILAR.

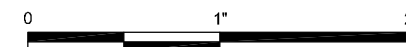
SECTION B  
1/16" = 1'-0"



GATE ISOMETRIC VIEW  
NTS



GATE ELEVATION  
1/16" = 1'-0"



PRELIMINARY DOCUMENTS

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

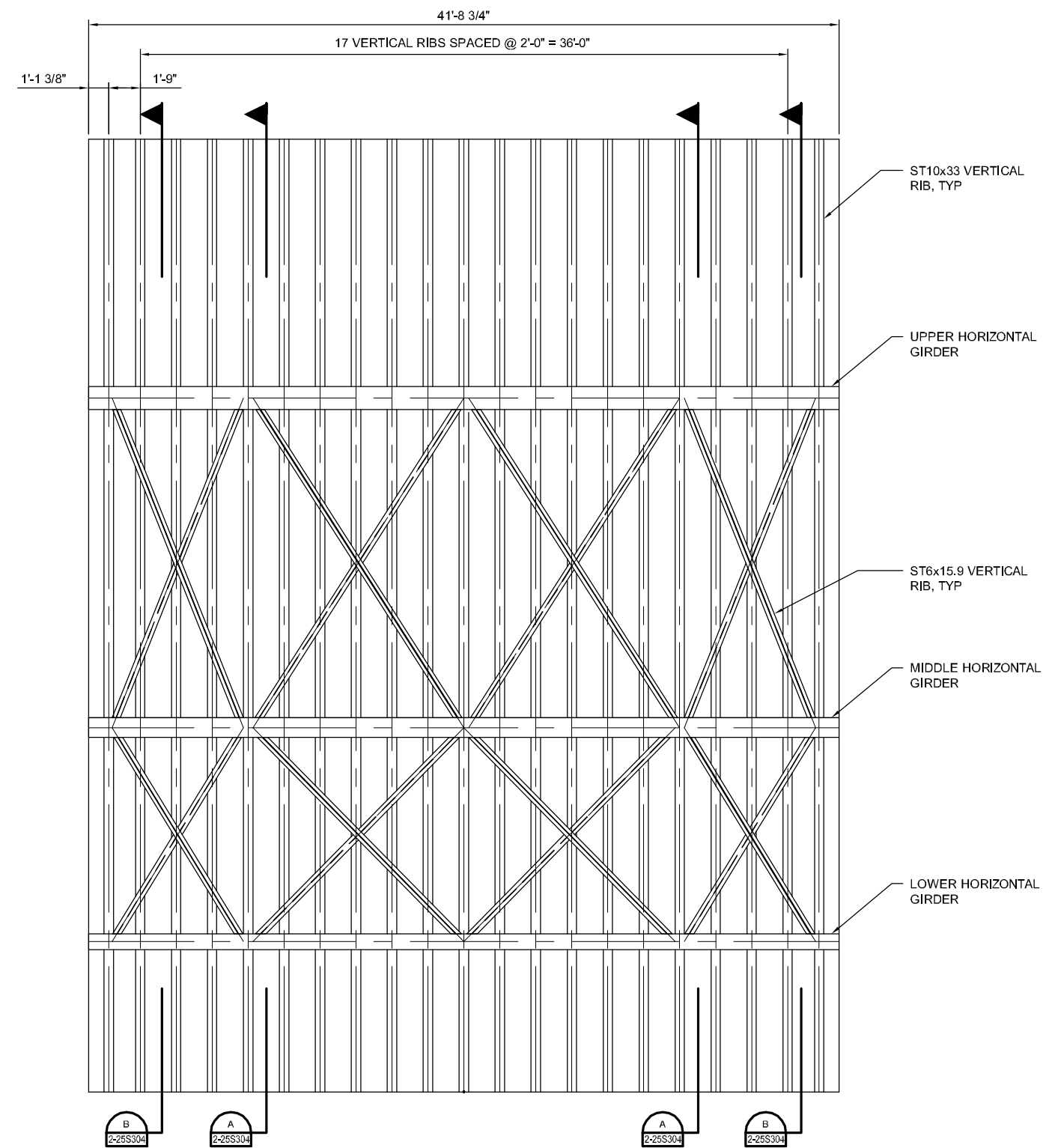
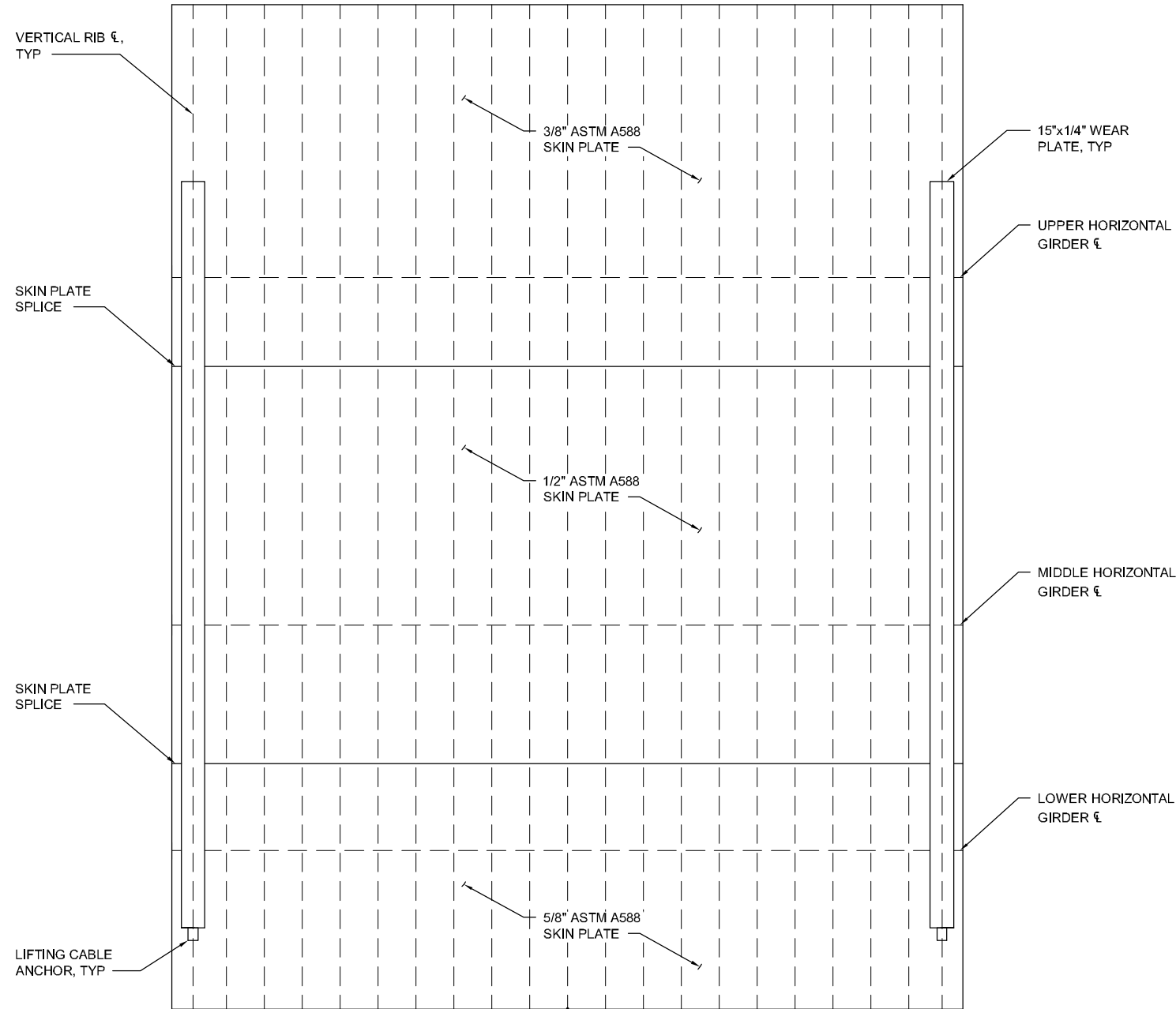
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2  
GATE - GATE PLAN AND  
ISOMETRIC

DATE: JULY 2014

DWG 2-25S301 SHEET 21



UPSTREAM  
GATE ELEVATION  
1/8" = 1'-0"

DOWNSTREAM  
GATE ELEVATION  
1/8" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2

GATES - ELEVATION

DATE: JULY 2014

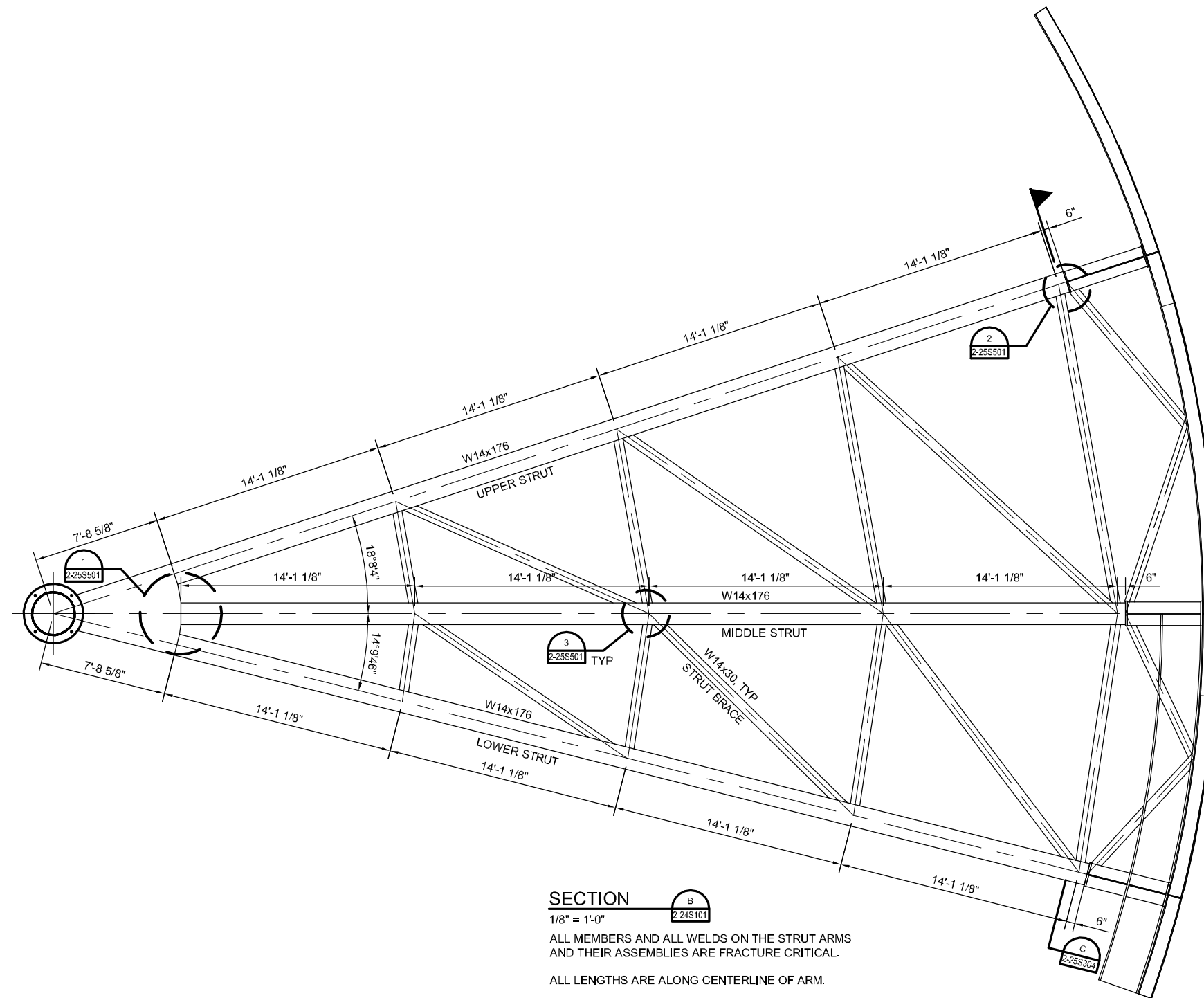
DWG 2-25S302 SHEET 22

Date: Jul 03, 2014 Time: 10:24am File Name: C:\working\04\051652\2-25S302.dwg Plotted By: rprasad



**NOTES:**

1. ALL WELD ACCESS HOLES TO BE 2" RADIUS UNLESS OTHERWISE NOTED.
2. DOG EAR END OF STRUT 2.5 HORIZONTAL TO 1.0 VERTICAL TO ALLOW 1/2" CLEARANCE TO END OF GIRDER FLANGE.
3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO WORK.

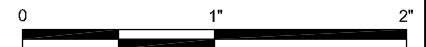


**SECTION**

1/8" = 1'-0"

ALL MEMBERS AND ALL WELDS ON THE STRUT ARMS AND THEIR ASSEMBLIES ARE FRACTURE CRITICAL.

ALL LENGTHS ARE ALONG CENTERLINE OF ARM.



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

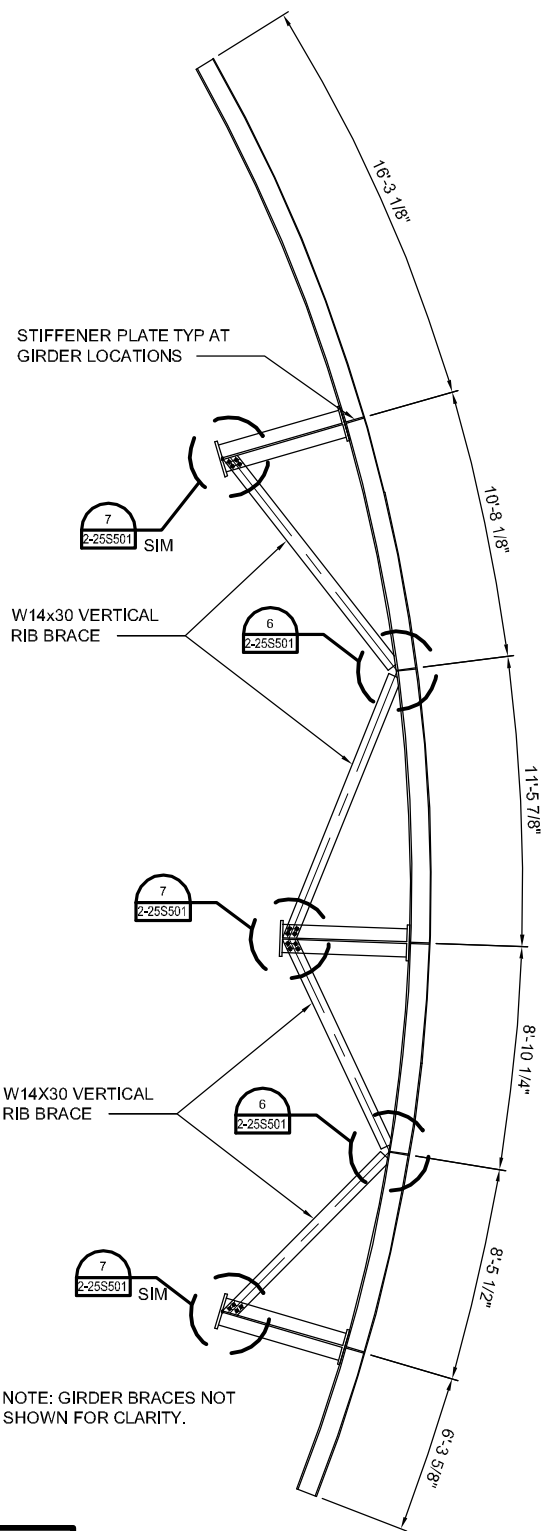
VOLUME 2

GATES - SECTION 1

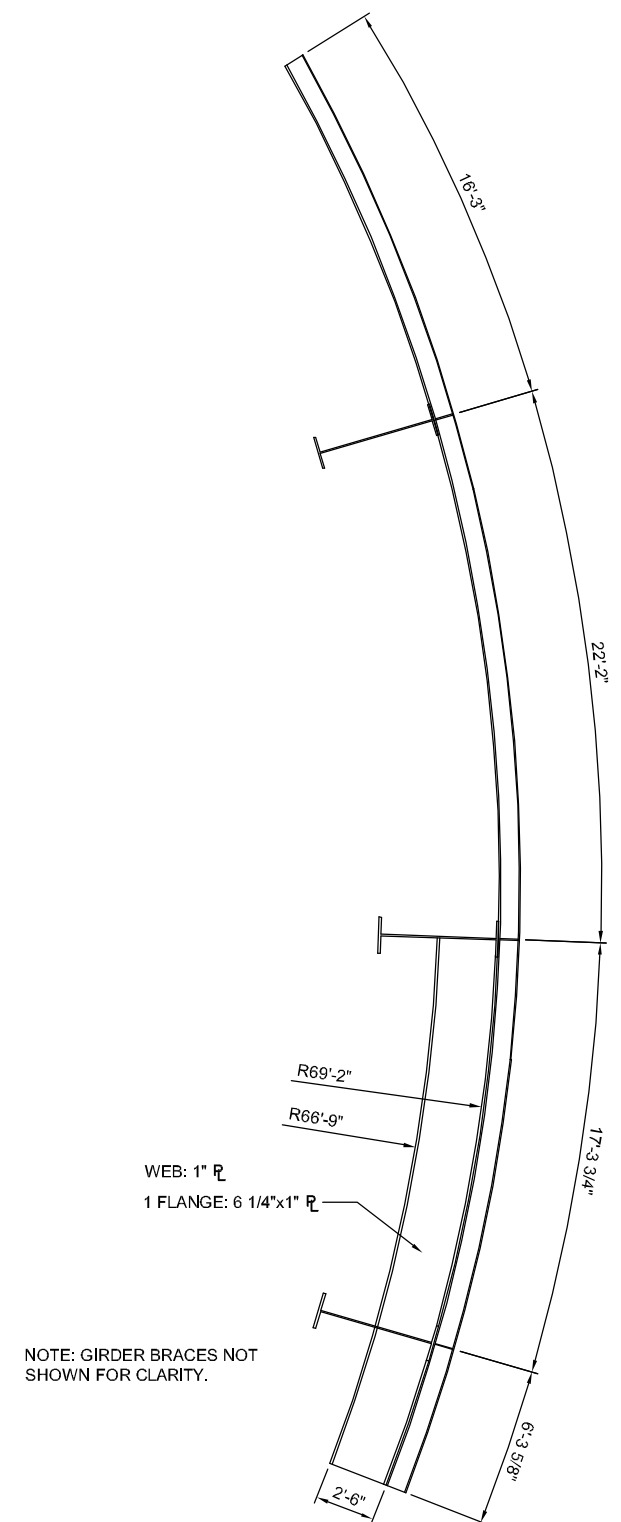
DATE: JULY 2014

DWG 2-25S303 SHEET 23

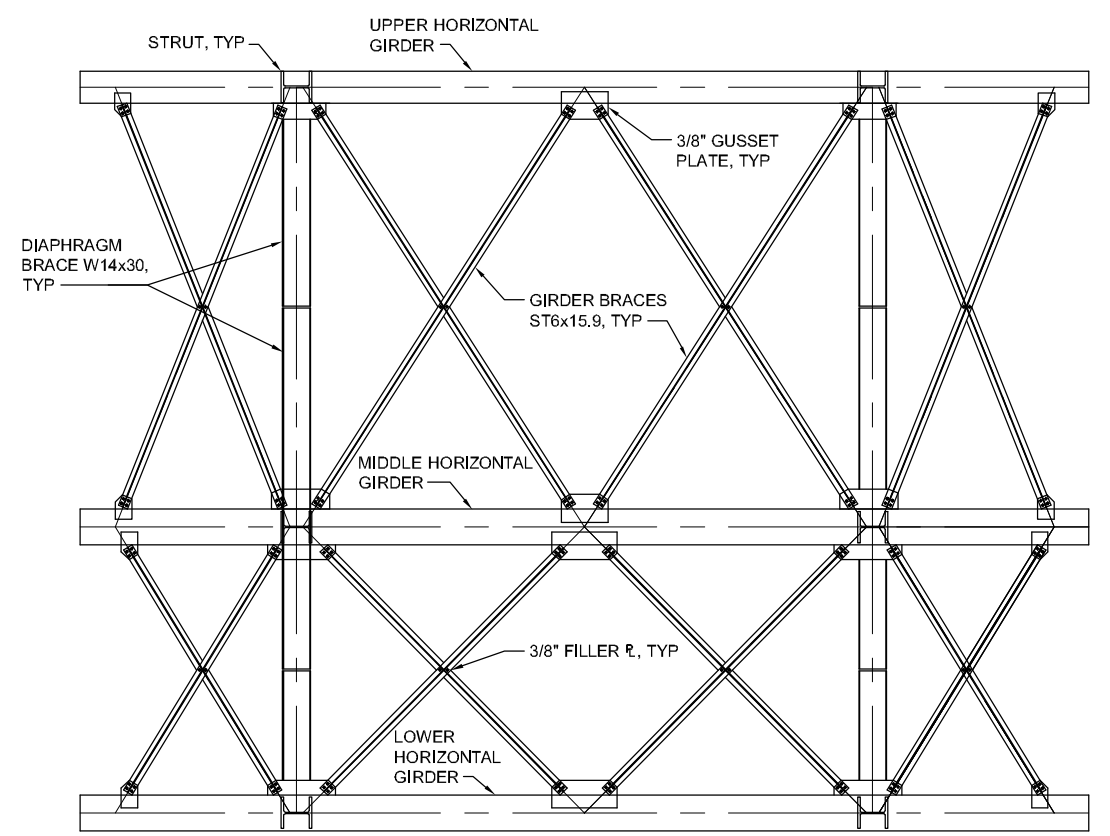
Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\251052\25S303.dwg Plotted By: rprasad



**SECTION A**  
1/8" = 1'-0"  
2-25S302



**SECTION B**  
1/8" = 1'-0"  
2-25S302



**SECTION C**  
1/8" = 1'-0"  
2-25S303

NOTE: GIRDER BRACES NOT SHOWN FOR CLARITY.

NOTE: GIRDER BRACES NOT SHOWN FOR CLARITY.



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

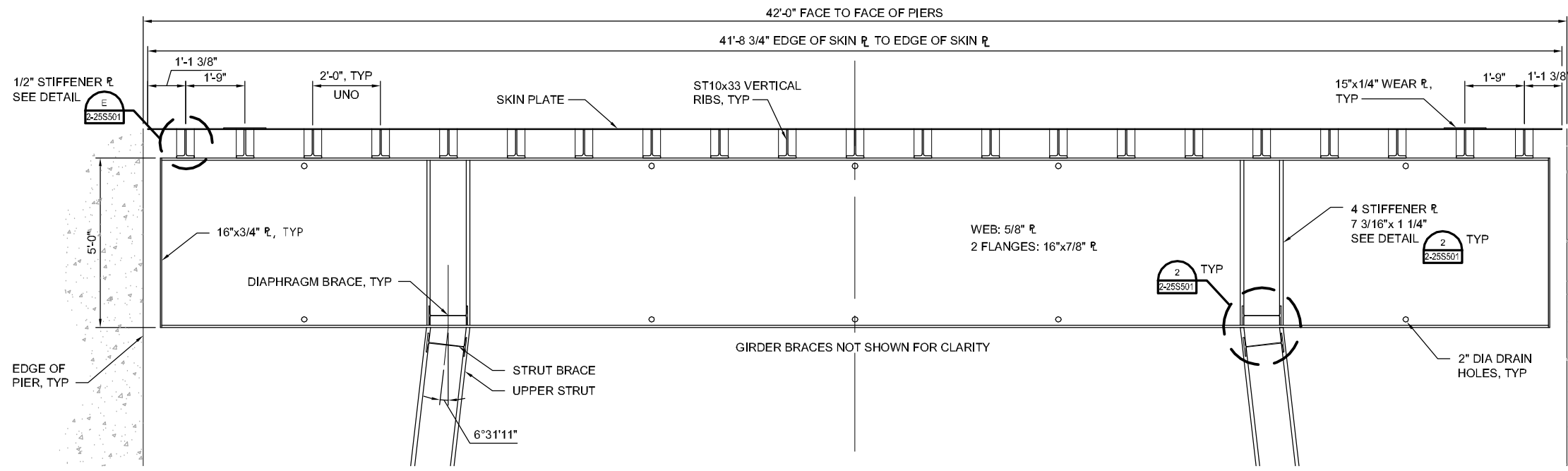
DRAWN BY: R. PRASAD

DESIGNED BY:

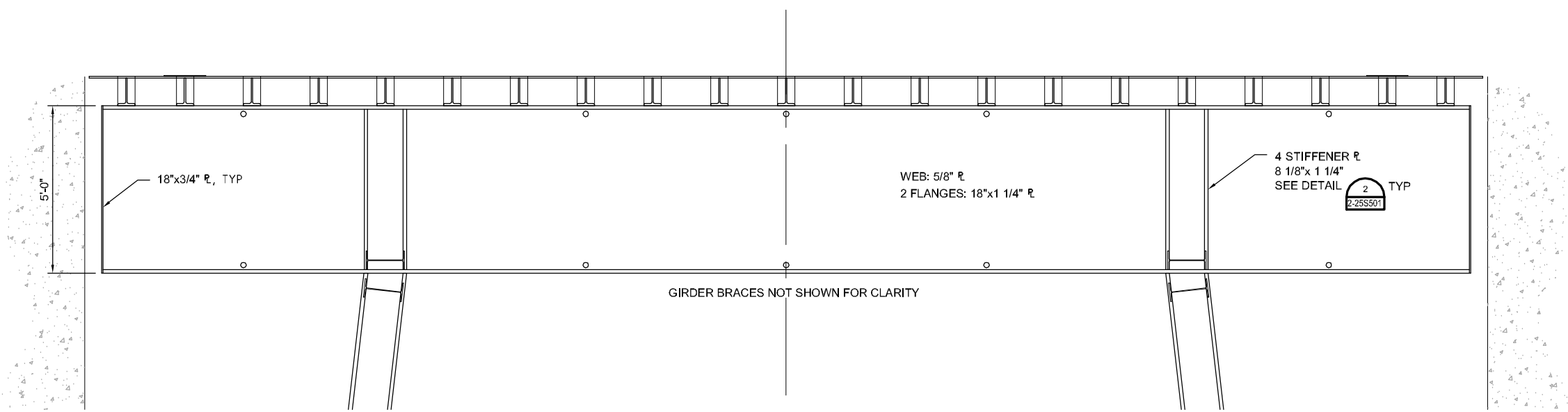
**MID-BARATARIA SEDIMENT  
DIVERSION**  
STATE PROJECT NUMBER: BA-153  
FEDERAL PROJECT NUMBER: BA-153  
APPROVED BY:

**VOLUME 2  
GATES - SECTION 2**  
DATE: JULY 2014  
DWG 2-25S304 SHEET 24

Date: Jul 03, 2014 Time: 10:24am File Name: C:\working\jg\251052\25S304.dwg Plotted By: rprasad



**UPPER GIRDER**  
1/4" = 1'-0"



**MIDDLE/LOWER GIRDER**  
1/4" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.  
GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

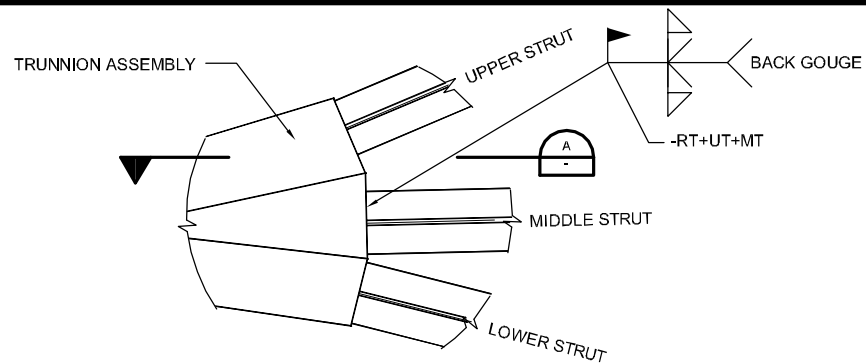
DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**  
STATE PROJECT NUMBER: BA-153  
FEDERAL PROJECT NUMBER: BA-153  
APPROVED BY:

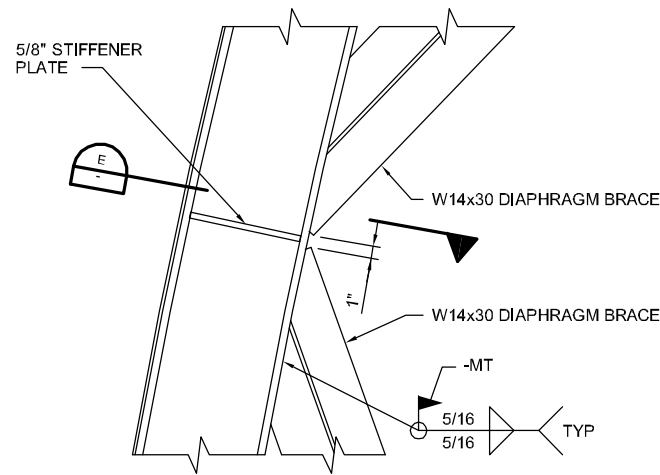
**VOLUME 2  
GATES - SECTION 3**  
DATE: JULY 2014  
DWG 2-25S305 SHEET 25

Date: Jul 03, 2014 Time: 10:28am File Name: C:\working\jpr\251052303\25S305.dwg Plotted By: rprasad



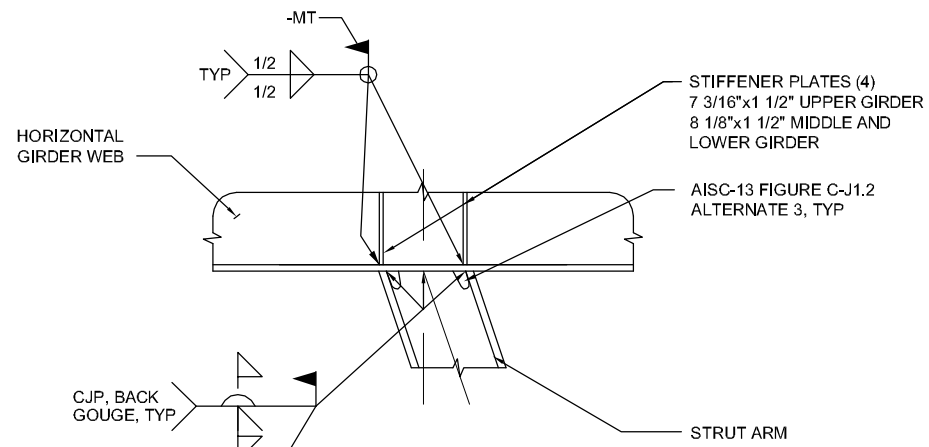
**TRUNNION ASSEMBLY TO STRUT ARM TYPICAL CONNECTION DETAIL**

1/4" = 1'-0"  
ALL WELDS IN THIS DETAIL ARE FRACTURE CRITICAL.



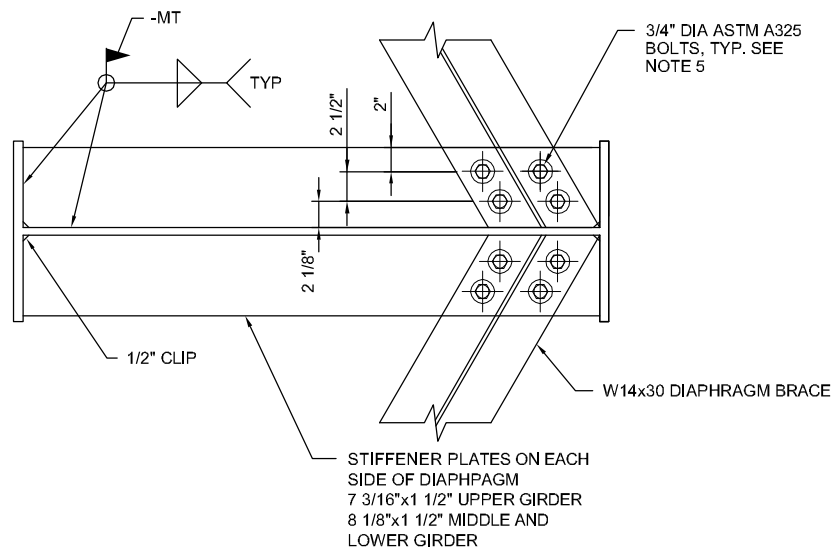
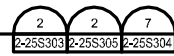
**DETAIL**

3/4" = 1'-0"



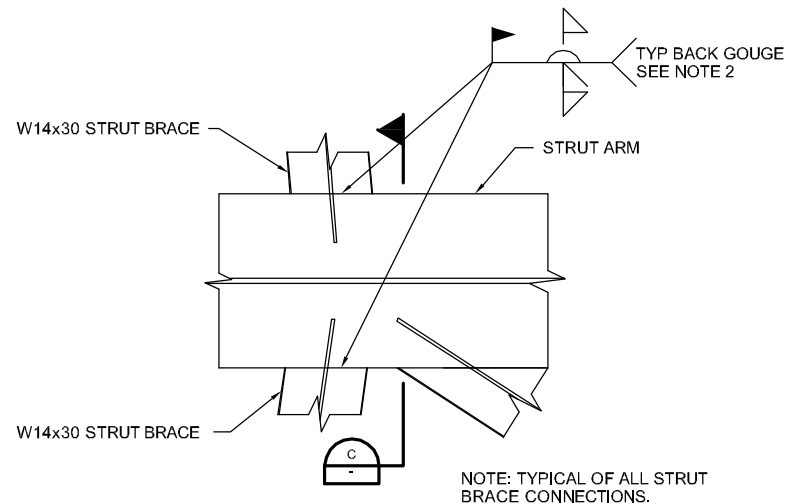
**DETAIL**

3/8" = 1'-0"



**DETAIL**

3/4" = 1'-0"

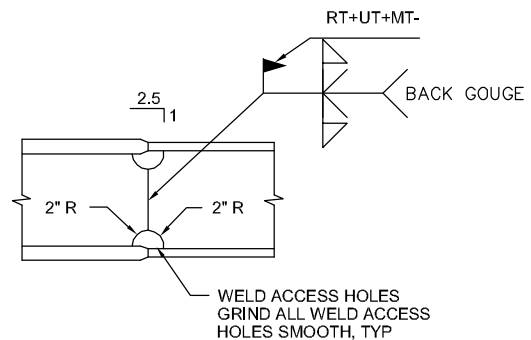


**DETAIL**

3/4" = 1'-0"



ALL WELDS IN THIS DETAIL ARE FRACTURE CRITICAL.

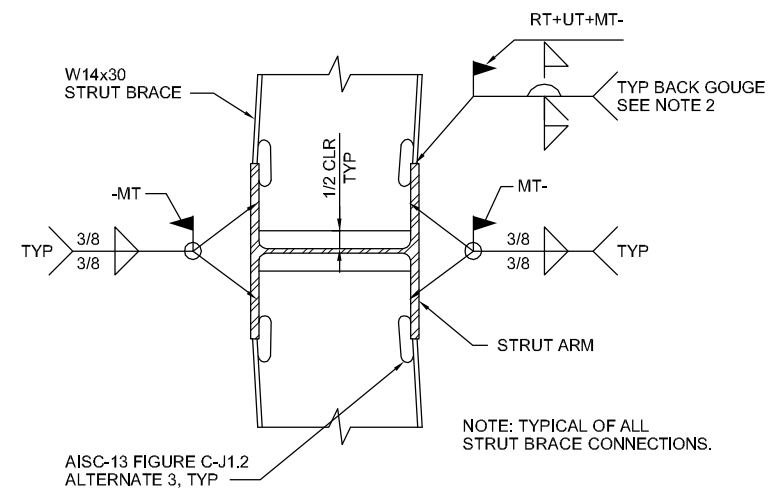


**SECTION**

1/2" = 1'-0"



ALL WELDS IN THIS DETAIL ARE FRACTURE CRITICAL.

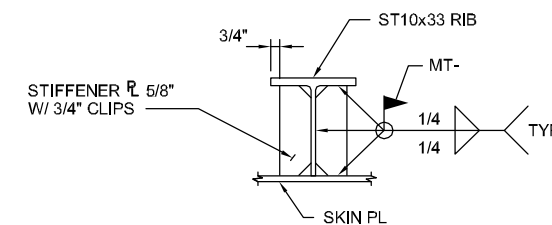


**SECTION**

3/4" = 1'-0"



ALL WELDS IN THIS DETAIL ARE FRACTURE CRITICAL.



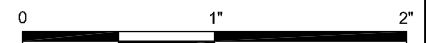
**SECTION**

3/4" = 1'-0"



**NOTES:**

1. ALL WELDS SHOWN ARE FRACTURE CRITICAL.
2. ALL REINFORCING WELDS SHALL BE 3/8" UNLESS THE CONFIGURATION DOES NOT ALLOW FOR IT. IN THESE CASES PLACE THE LARGEST PERMISSIBLE FILLET WELD. IF SURFACES ARE FLUSH NO REINFORCING WELD IS REQUIRED.
3. GRIND ALL WELD ACCESS HOLES SMOOTH.
4. ALL WELD ACCESS HOLES TO BE AISC-13 FIGURE C-J1.2 ALTERNATE 1 TYPE WELD ACCESS HOLES, UNLESS OTHERWISE NOTED.
5. ALL BOLTS ARE TO BE SLIP CRITICAL. SEE SPEC SECTION XXXX.



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

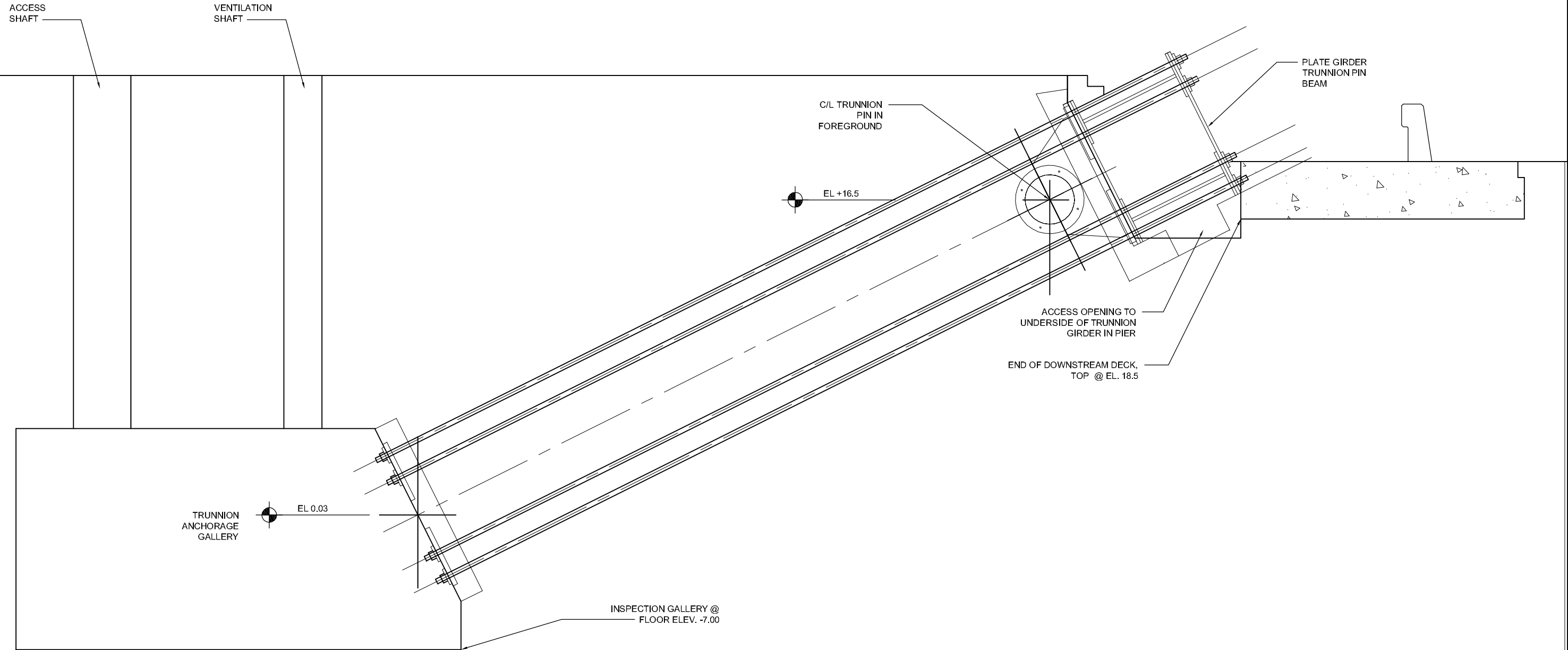
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

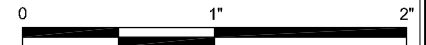
**VOLUME 2  
MISCELLANEOUS GATE  
DETAILS**

DATE: JULY 2014

DWG 2-25S501 SHEET 26



TRUNNION ANCHOR ASSEMBLY  
3/16" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

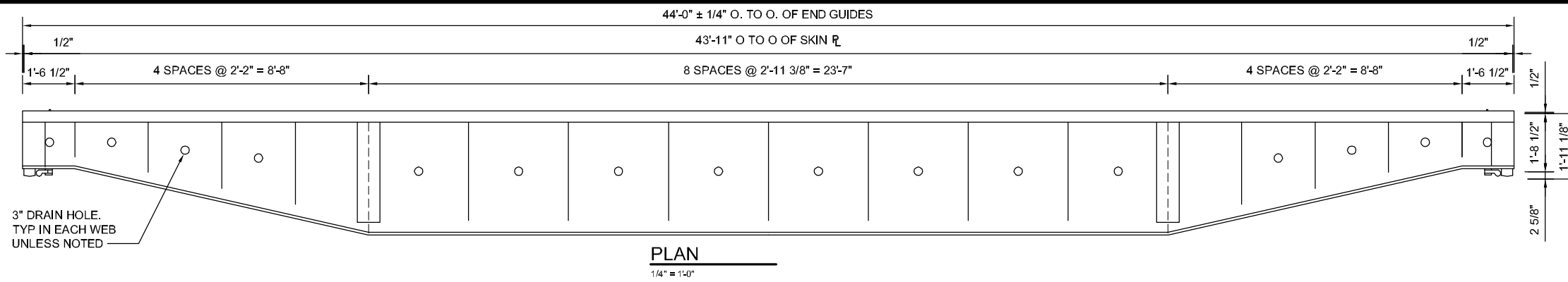
VOLUME 2  
MISCELLANEOUS GATE  
DETAILS

DATE: JULY 2014

DWG 2-25S502 SHEET 27

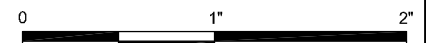
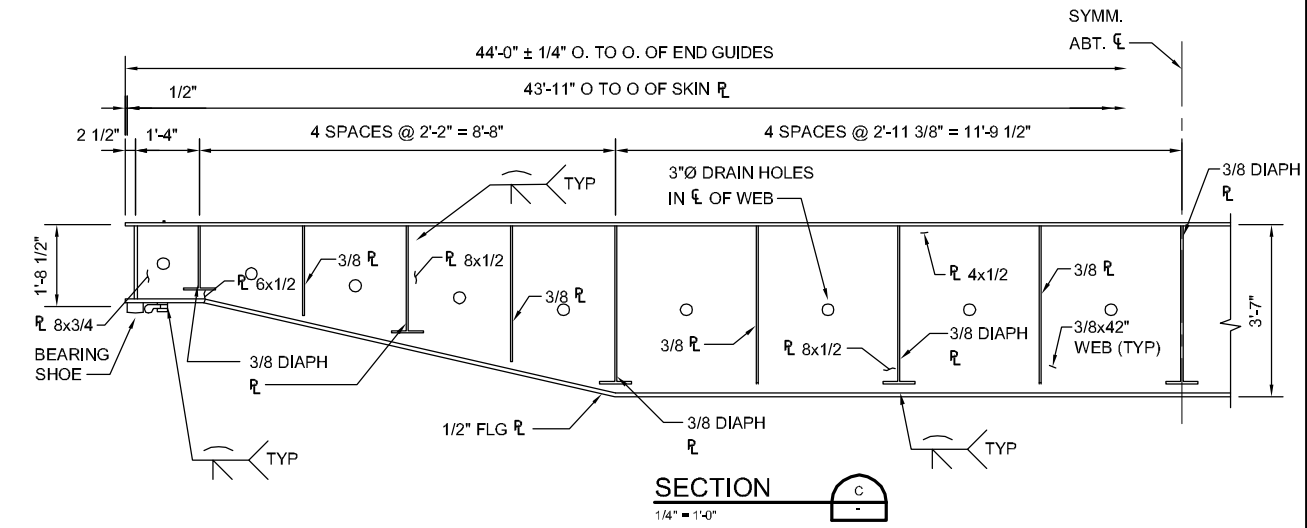
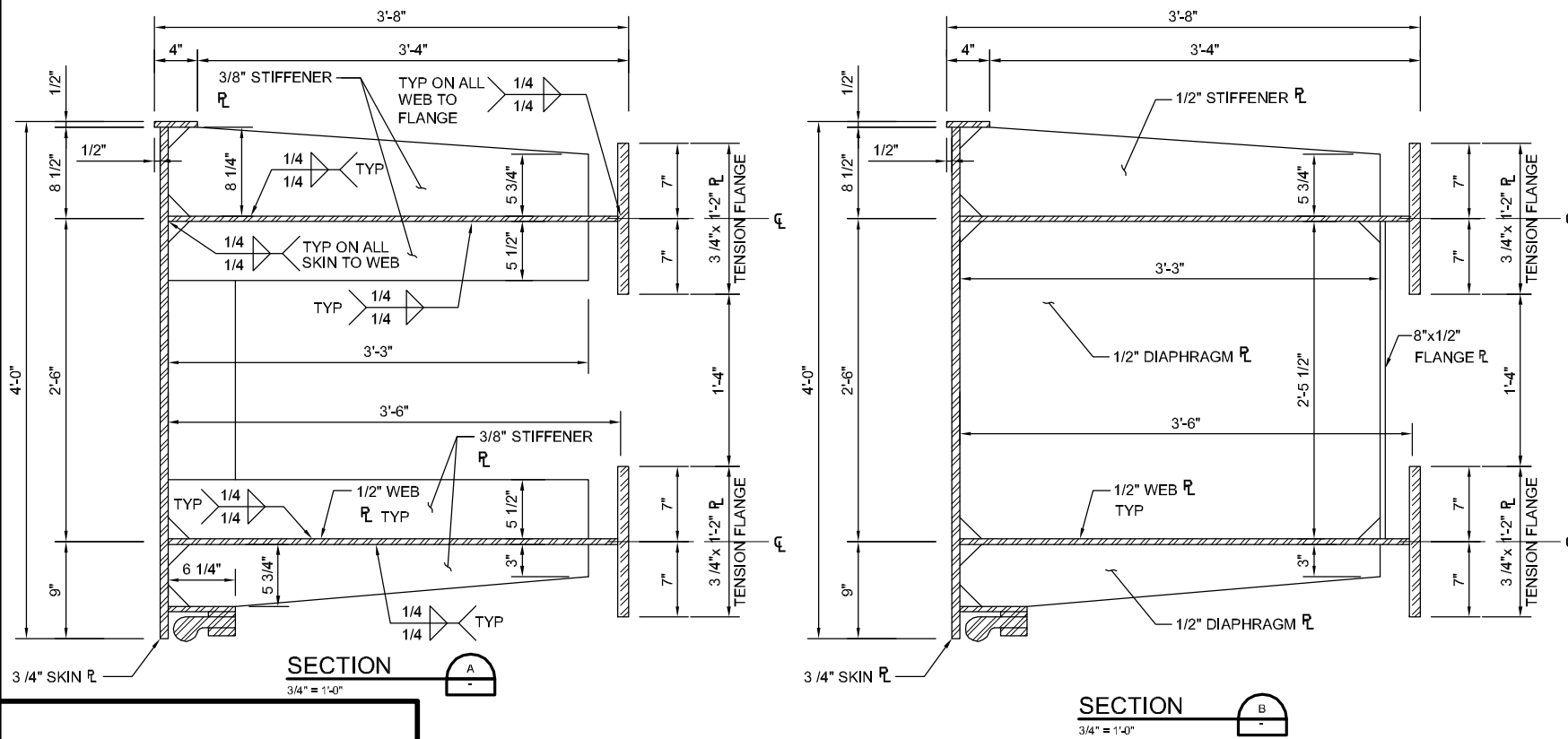
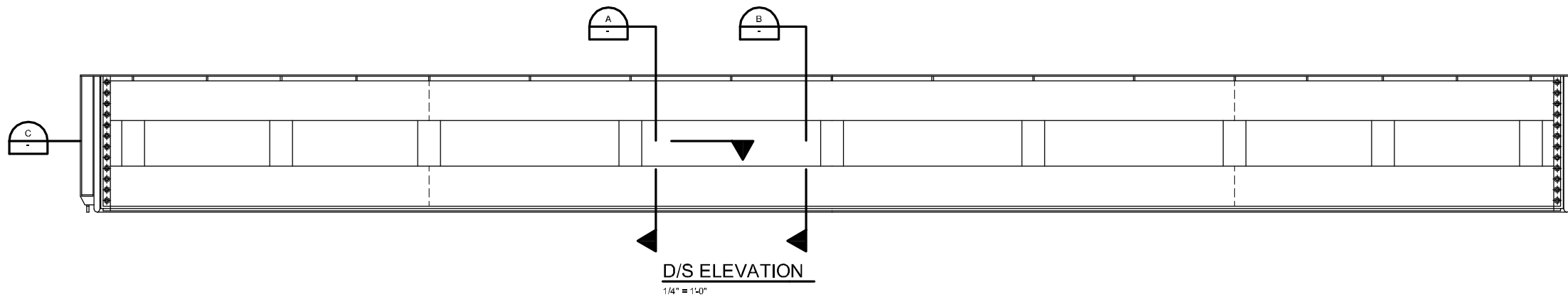
Date: Jul 02, 2014 Time: 3:02pm File Name: C:\pwork\hgt\jtd\1515152525502.dwg Plotted By: rprasad





**NOTES:**

1. ALL STEEL TO BE ASTM A709 GRADE 50 UNLESS NOTED OTHERWISE.
2. ALL FLANGES AND WEBS SHALL BE ASTM A709 GRADE 50 TYPE "F" AND ARE CONSIDERED FRACTURE CRITICAL FOR ENTIRE LENGTH.
3. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.5. SEE SPECIFICATIONS.
4. NO SPLICES PERMITTED.
5. ALL WEB AND TENSION FLANGE SPLICES ARE CONSIDERED FRACTURE CRITICAL.
6. ESTIMATED STOPLOG WEIGHT APPROXIMATELY 20,000 LBS EACH.
7. IN ACCORDANCE WITH FCP THE CONTRACTOR SHALL ENSURE HE/SHE IS ABLE TO ROTATE THE STOPLOG INTO THE NECESSARY ORIENTATION REQUIRED FOR EACH WELD TO COMPLY WITH FRACTURE CRITICAL WELD PROCEDURES.
8. ALL WELDS SHALL BE MADE WITH 70KSI ELECTRODES.
9. A TOTAL OF 45 STOPLOGS WILL BE FABRICATED UNDER THIS CONTRACT.
10. OVERALL TOLERANCES = 1/8" FOR TOTAL LENGTH.
11. GRIND ALL EDGES TO 1/16" RADIUS.
12. GRIND PLATE EDGES TO REMOVE HARDNESS FOR PAINT SURFACE PROFILE.



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

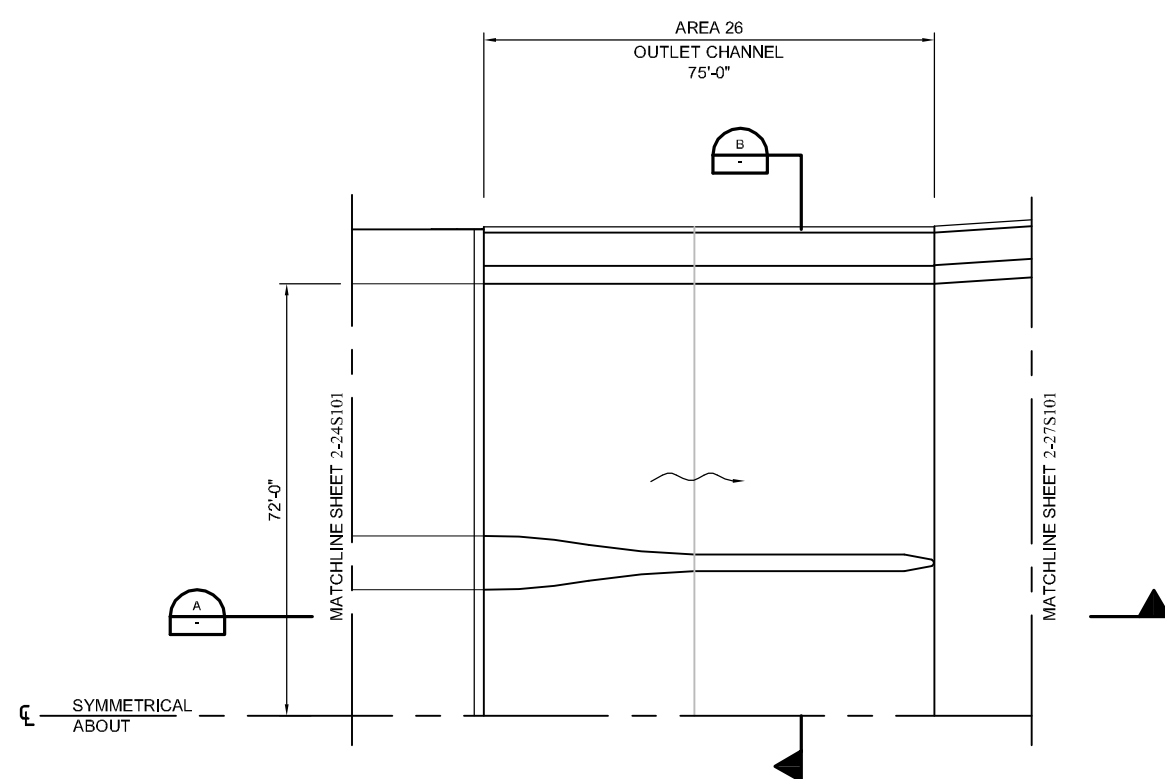
APPROVED BY:

**VOLUME 2  
STOPLOGS - PLAN SECTION  
AND DETAILS**

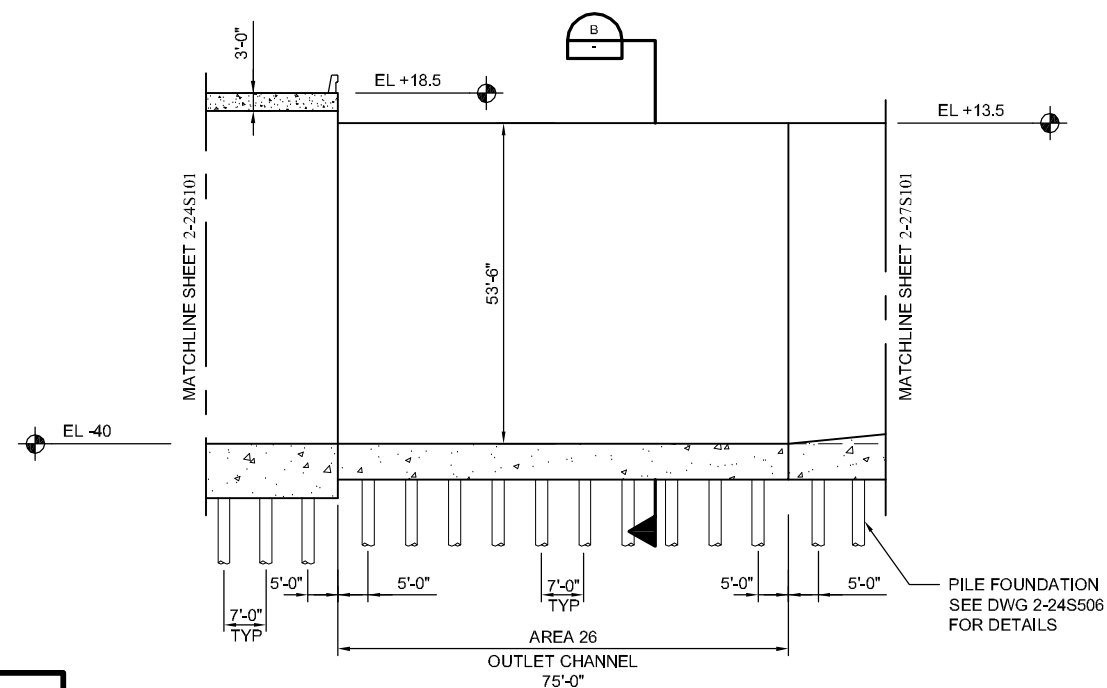
DATE: JULY 2014

DWG 2-25S503 SHEET 28

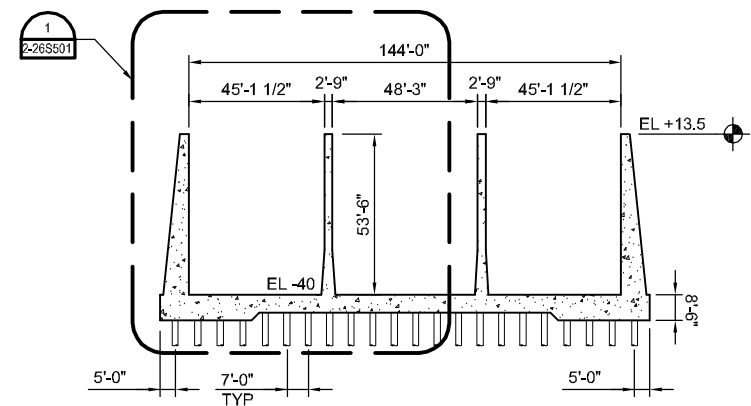
Date: Jul 03, 2014 Time: 3:03pm File Name: C:\pwworking\hd\plotters\25S503.dwg Plotted By: rprasad



PLAN  
1/32" = 1'-0"



SECTION  
1/32" = 1'-0"



SECTION  
1/64" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

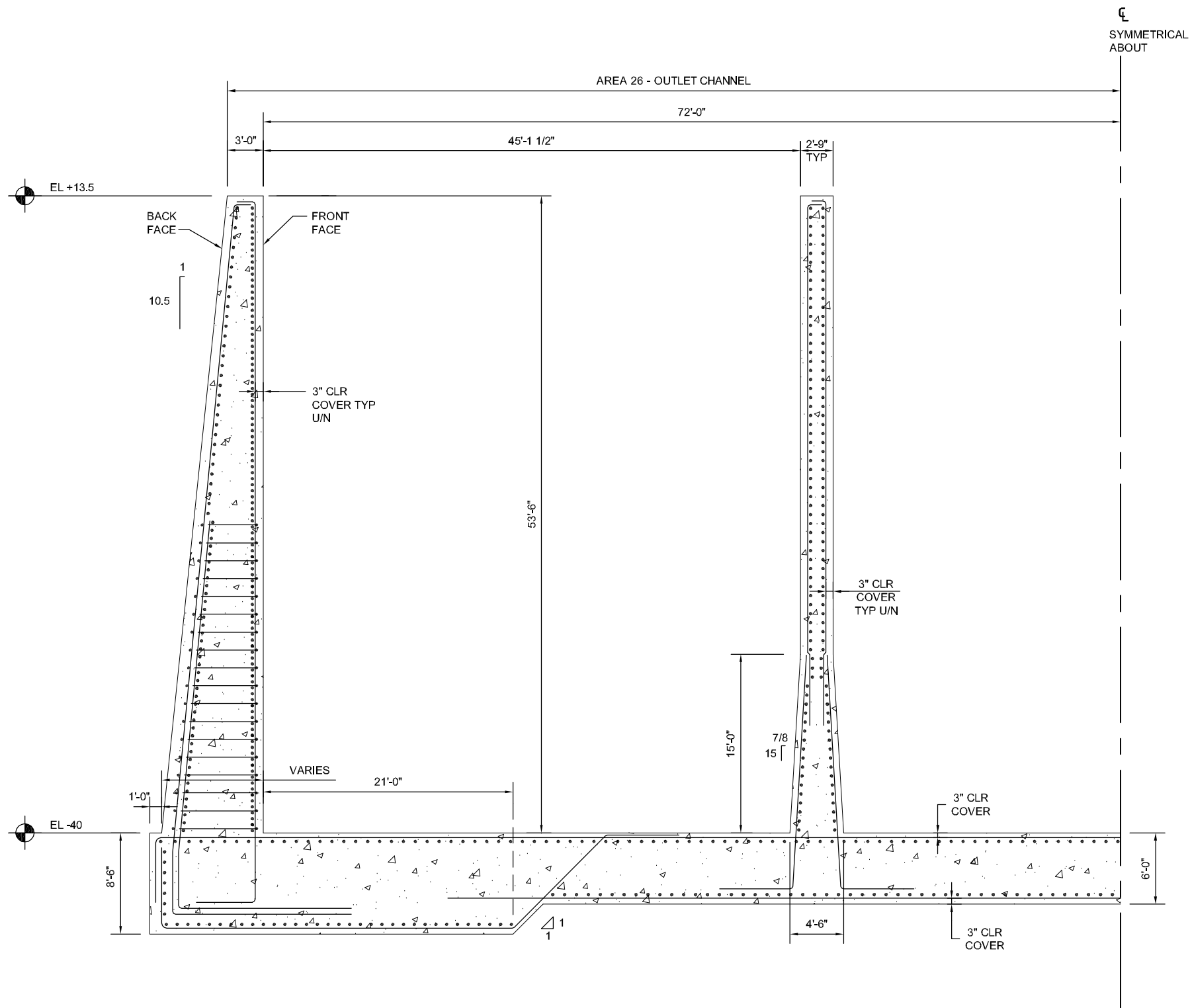
APPROVED BY:

VOLUME 2  
OUTLET CHANNEL - PLAN AND SECTION

DATE: JULY 2014

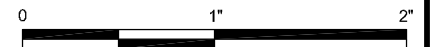
DWG 2-26S101 SHEET 29

Date: Jul 02, 2014 Time: 3:00pm File Name: C:\pwworking\hdr\pl\150226S101.dwg Plotted By: rprasad



NOTE:  
PILE FOUNDATION NOT  
SHOWN FOR CLARITY

DETAIL 1  
3/32" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
RECORDATION, CONVEYANCE, SALES, OR AS THE  
BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

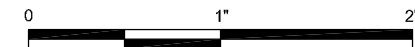
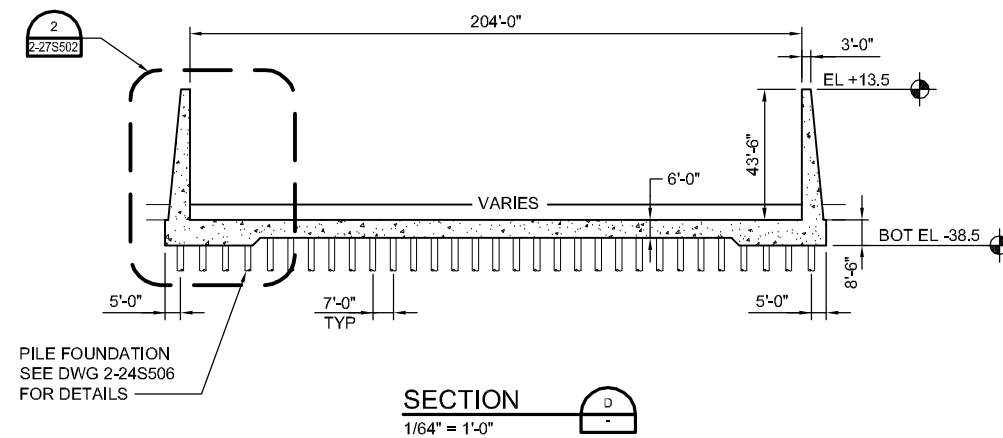
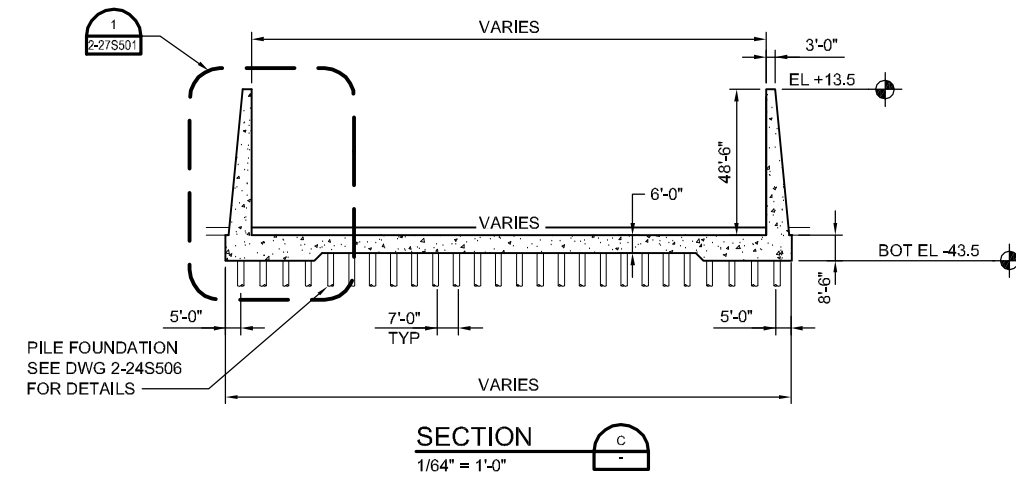
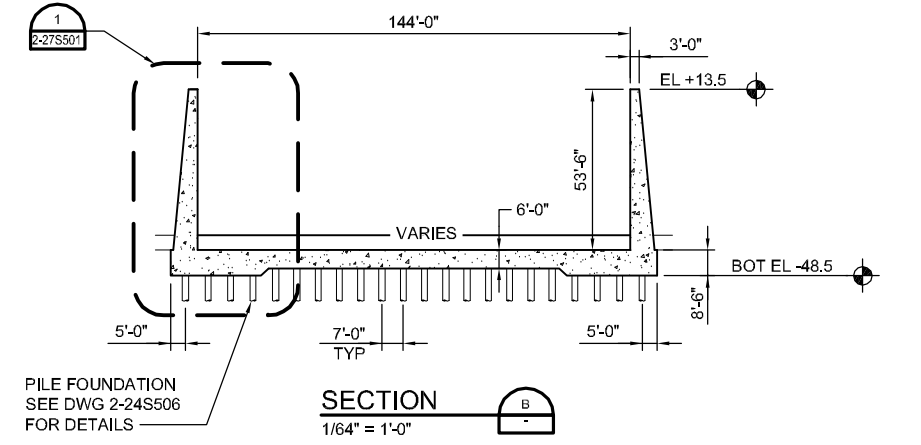
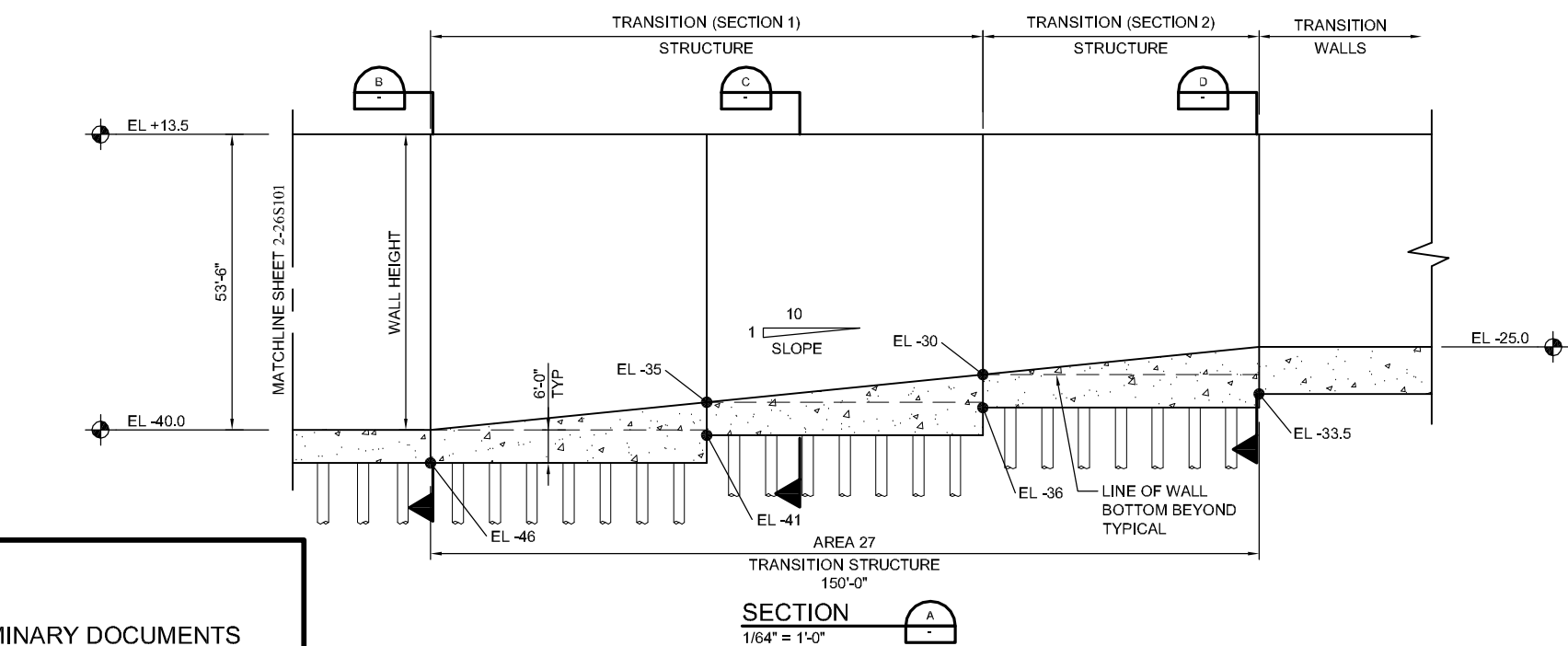
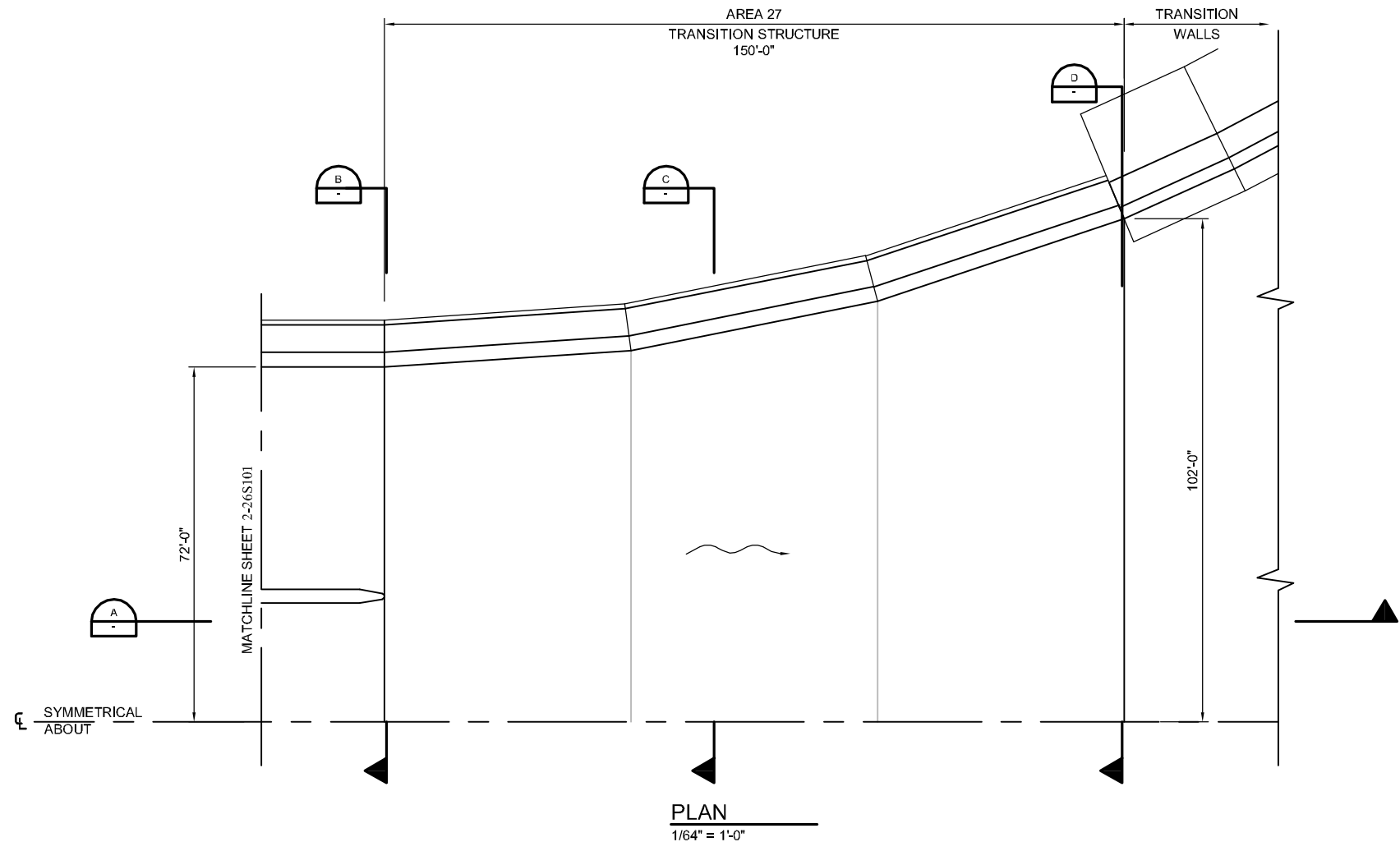
APPROVED BY:

VOLUME 2  
OUTLET CHANNEL - CONC  
SLAB AND WALL REINF  
DETAILS

DATE: JULY 2014

DWG 2-26S501 SHEET 30

Date: Jul 03, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\plotters\2-26S501.dwg Plotted By: rprasad



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931

ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

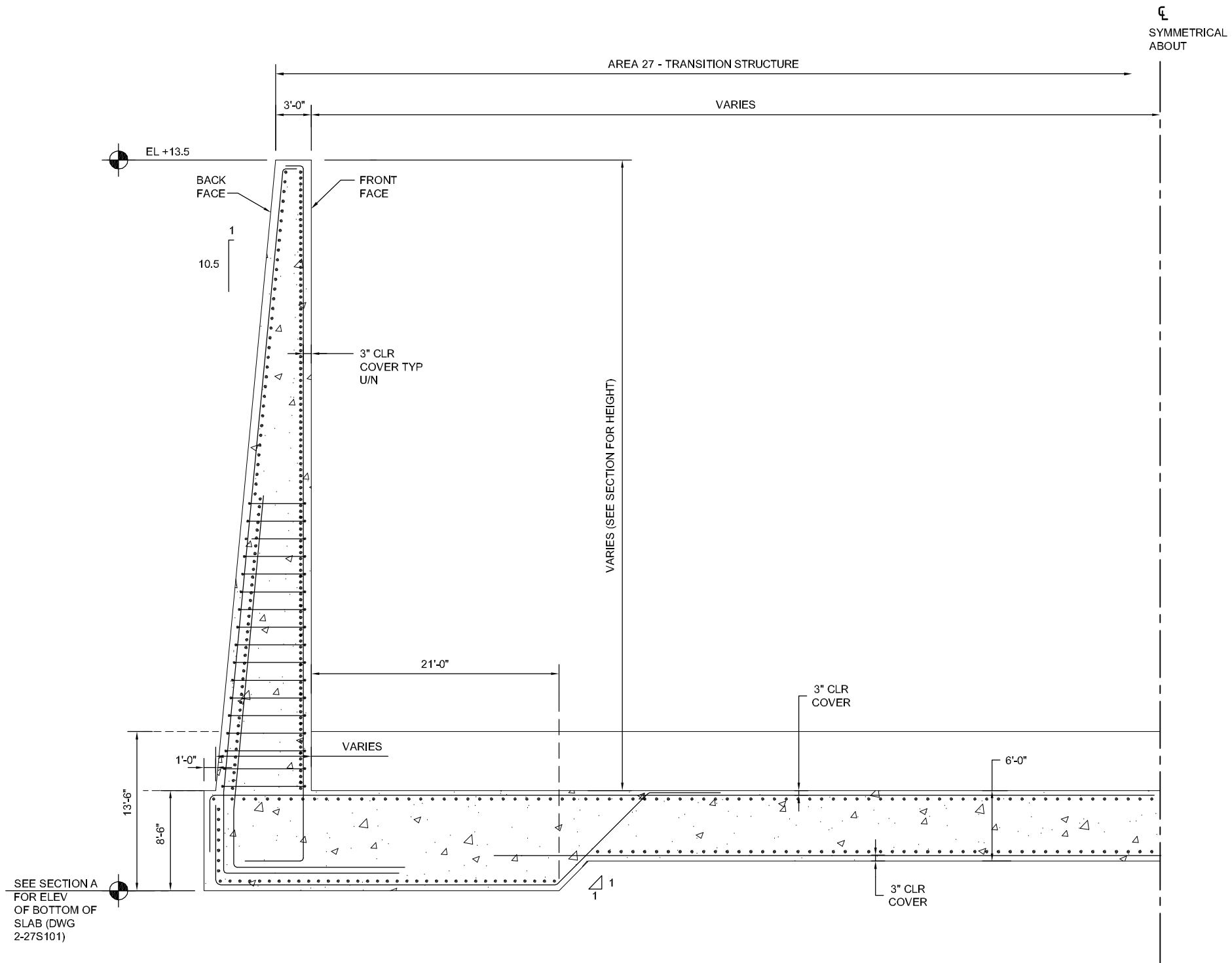
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

**VOLUME 2  
TRANSITION STRUCTURE -  
PLAN AND SECTION**

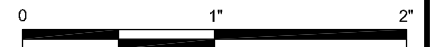
DATE: JULY 2014

DWG 2-27S101 SHEET 31



NOTE:  
PILE FOUNDATION NOT SHOWN FOR CLARITY

DETAIL  
3/32" = 1'-0" 1 2-27S101



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

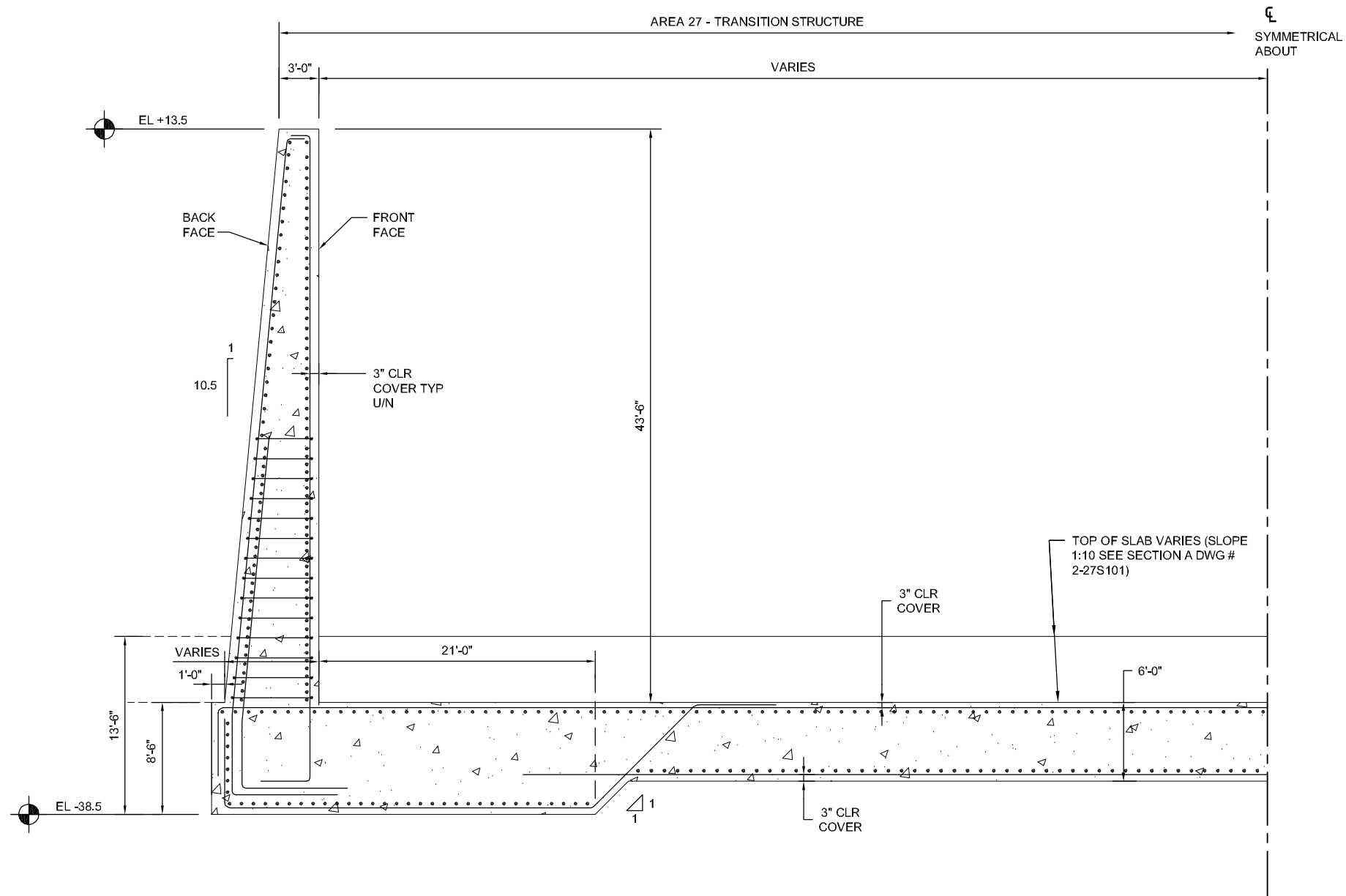
VOLUME 2  
TRANSITION STRUCTURE -  
CONC SLAB AND WALL  
REINF DETAILS

DATE: JULY 2014

DWG 2-27S501 SHEET 32

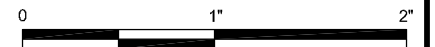
Date: Jul 02, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\plotters\2-27S501.dwg Plotted By: rprasad





DETAIL 2  
 3/32" = 1'-0" 2-27S101

NOTE:  
 FILE FOUNDATION NOT  
 SHOWN FOR CLARITY



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
 RECORDATION, CONVEYANCE, SALES, OR AS THE  
 BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
 ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
 ENGINEERING DIVISION**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
 DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

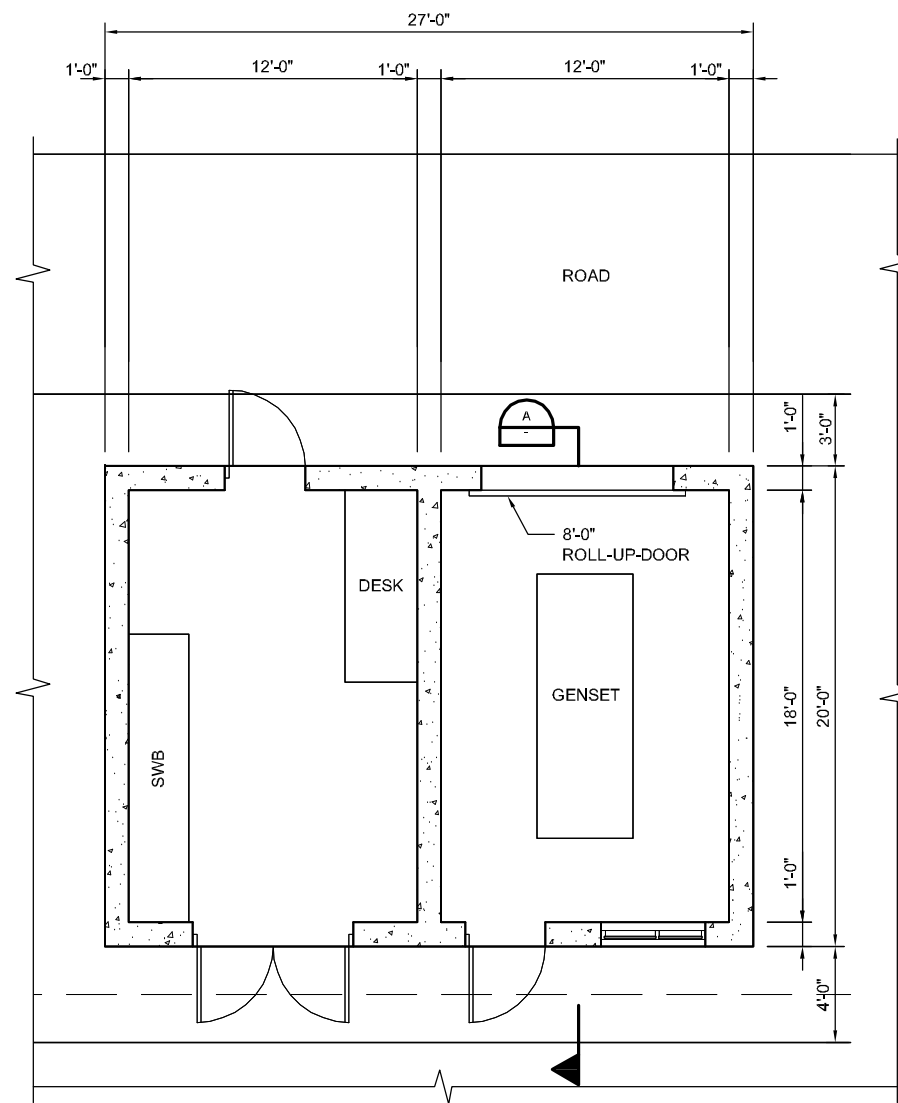
APPROVED BY:

**VOLUME 2  
 TRANSITION STRUCTURE -  
 CONC SLAB AND WALL  
 REINF DETAILS**

DATE: JULY 2014

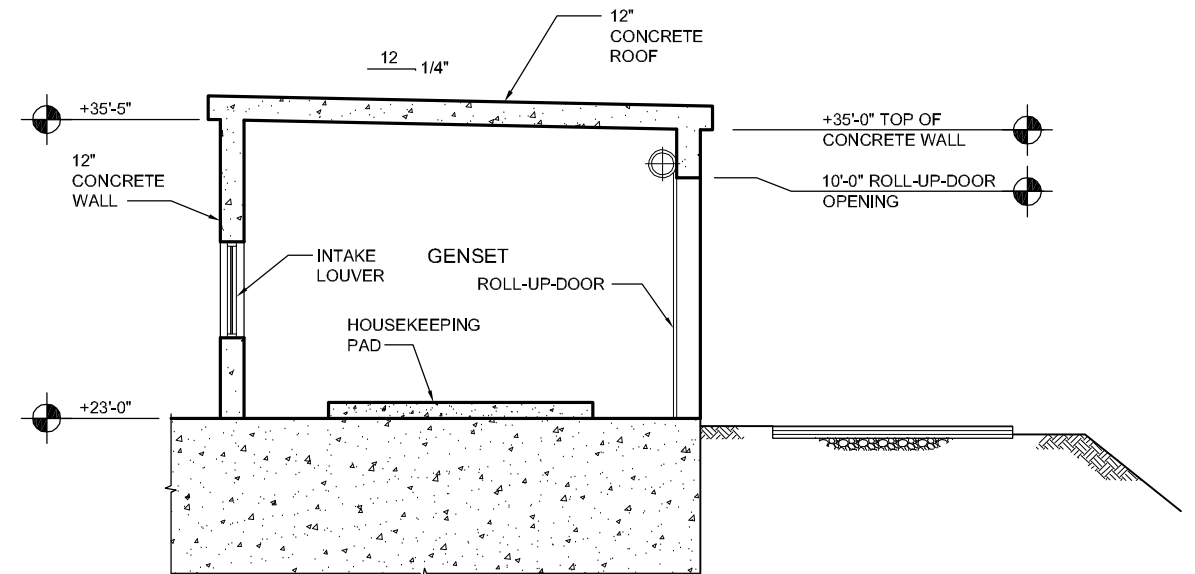
DWG 2-27S502 SHEET 33

Date: Jul 03, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\plotters\27S502.dwg Plotted By: rprasad



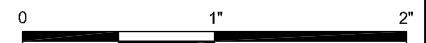
PLAN

1/8" = 1'-0"



SECTION

1/8" = 1'-0"



PRELIMINARY DOCUMENTS

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931

ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
DIVERSION

STATE PROJECT NUMBER: BA-153

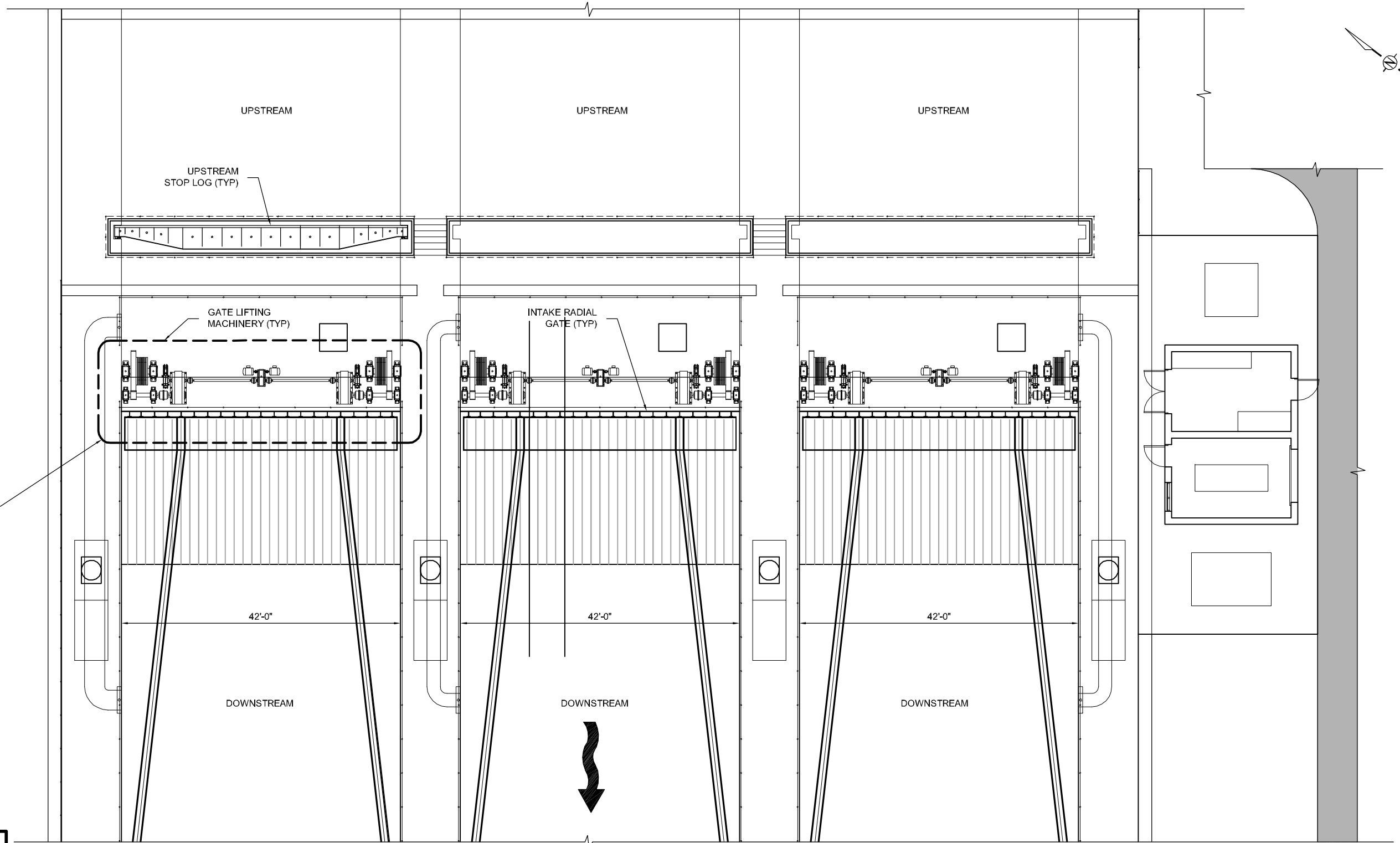
FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2  
M&E BUILDING - PLAN  
AND SECTION

DATE: JULY 2014

DWG 2-28S101 SHEET 34



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

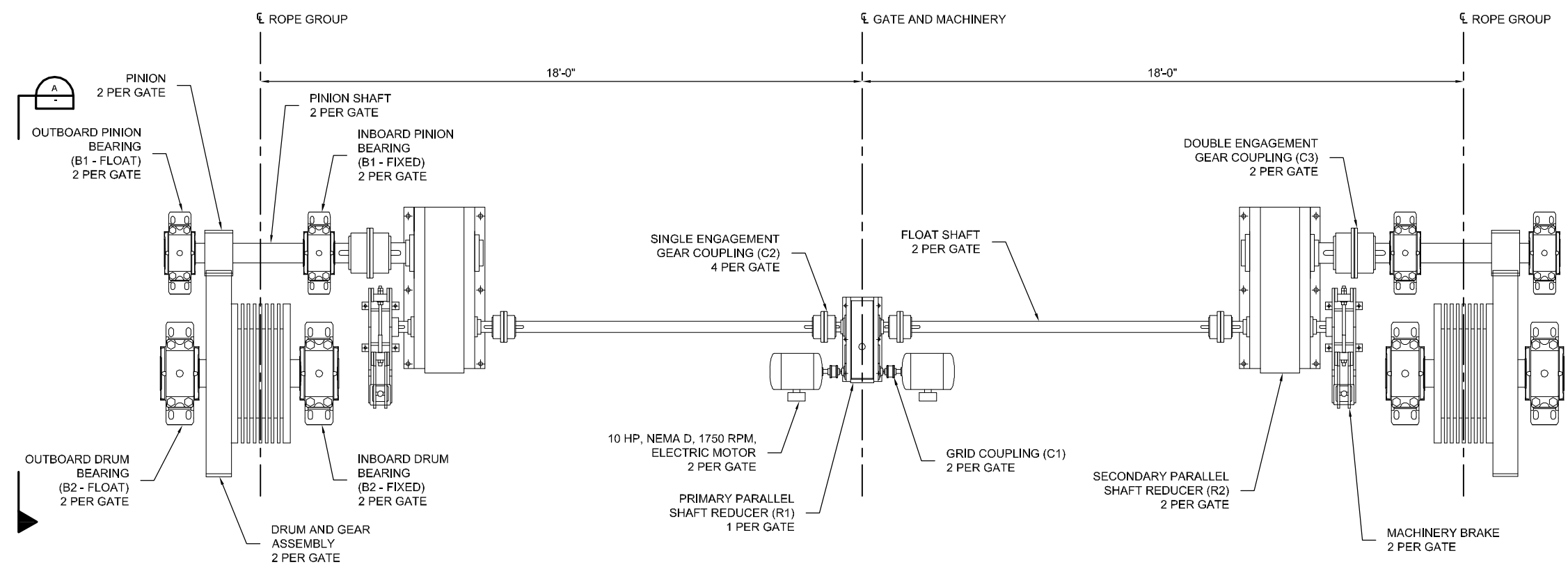
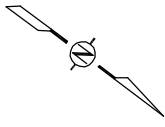
APPROVED BY:

VOLUME 2  
INTAKE GATE GENERAL  
MACHINERY PLAN

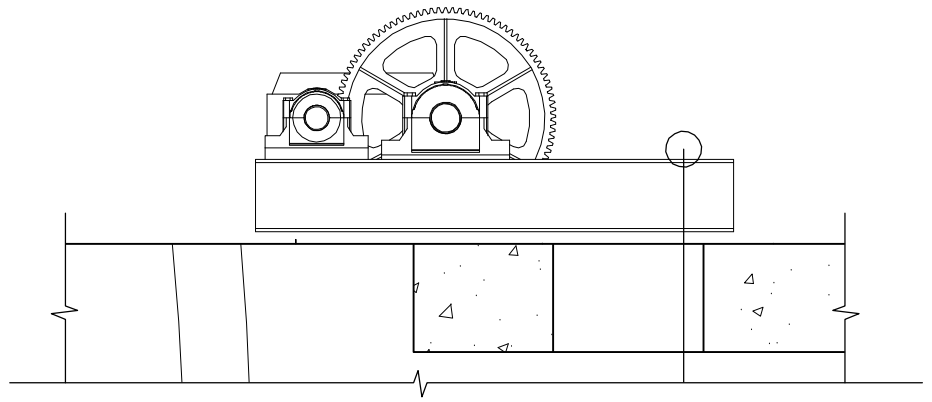
DATE: JULY 2014

DWG 2-24M101 SHEET 35

Date: Jul 03, 2014 Time: 3:08pm File Name: C:\pwworking\hdr\plotters\2-24M101.dwg Plotter: Bk, rpsaad



**PLAN**  
1/16" = 1'-0"



**SECTION**  
3/16" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.  
GARLAND P. PENNISON, LA20931  
ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



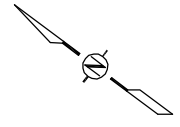
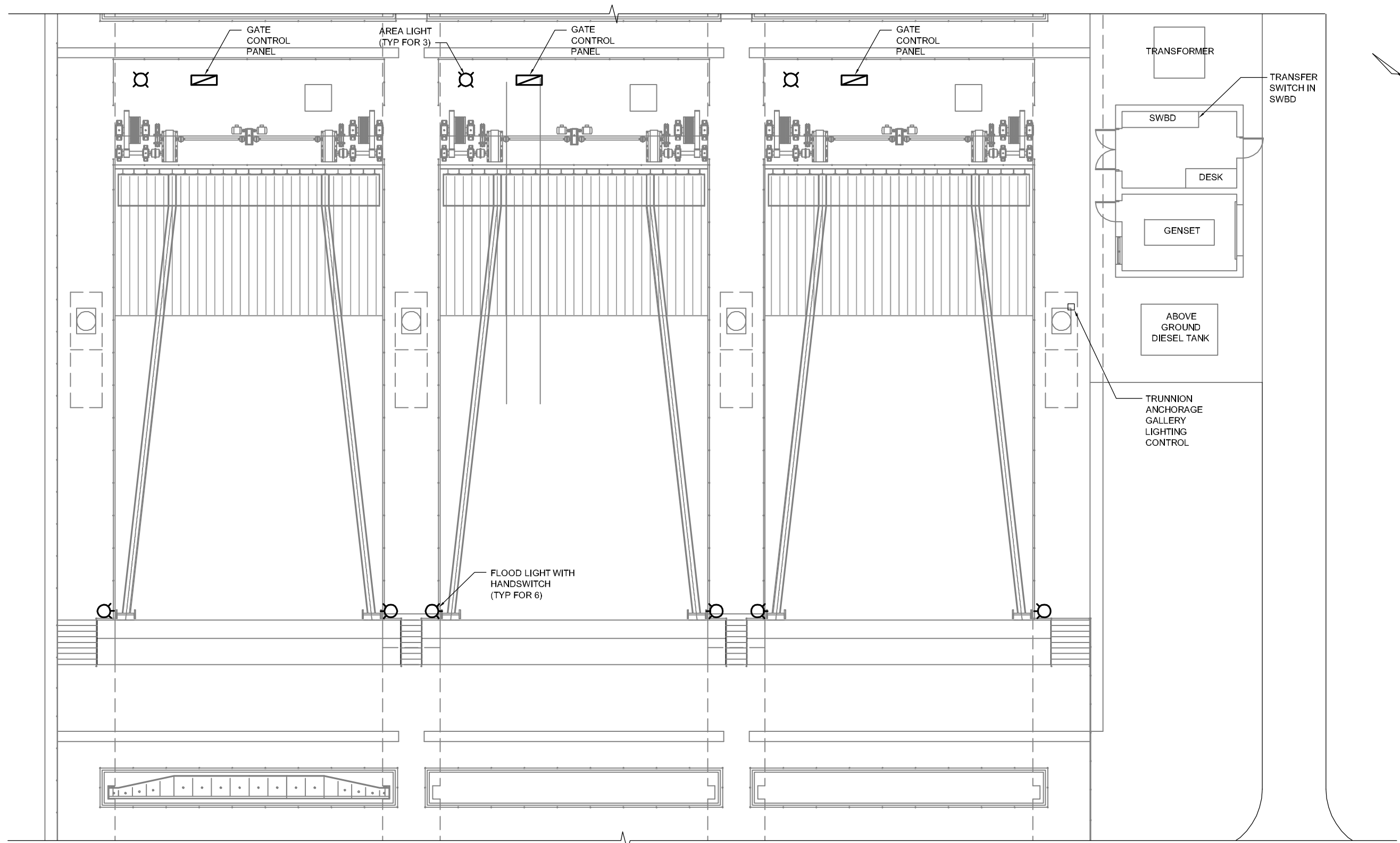
**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD      DESIGNED BY:

**MID-BARATARIA SEDIMENT DIVERSION**  
STATE PROJECT NUMBER: BA-153  
FEDERAL PROJECT NUMBER: BA-153  
APPROVED BY:

**VOLUME 2  
INTAKE GATE MACHINERY LAYOUT**  
DATE: JULY 2014  
DWG 2-24M501 SHEET 36

Date: Jul 03, 2014 Time: 3:08pm File Name: C:\pwworking\jprad\plott\24M501.dwg Plotter: Bk, rpsaad



**ELECTRICAL PLAN**

1/16" = 1'-0"



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES, OR AS THE BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931

ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



**COASTAL PROTECTION & RESTORATION AUTHORITY  
ENGINEERING DIVISION**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

**MID-BARATARIA SEDIMENT  
DIVERSION**

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2

SITE  
ELECTRICAL PLAN

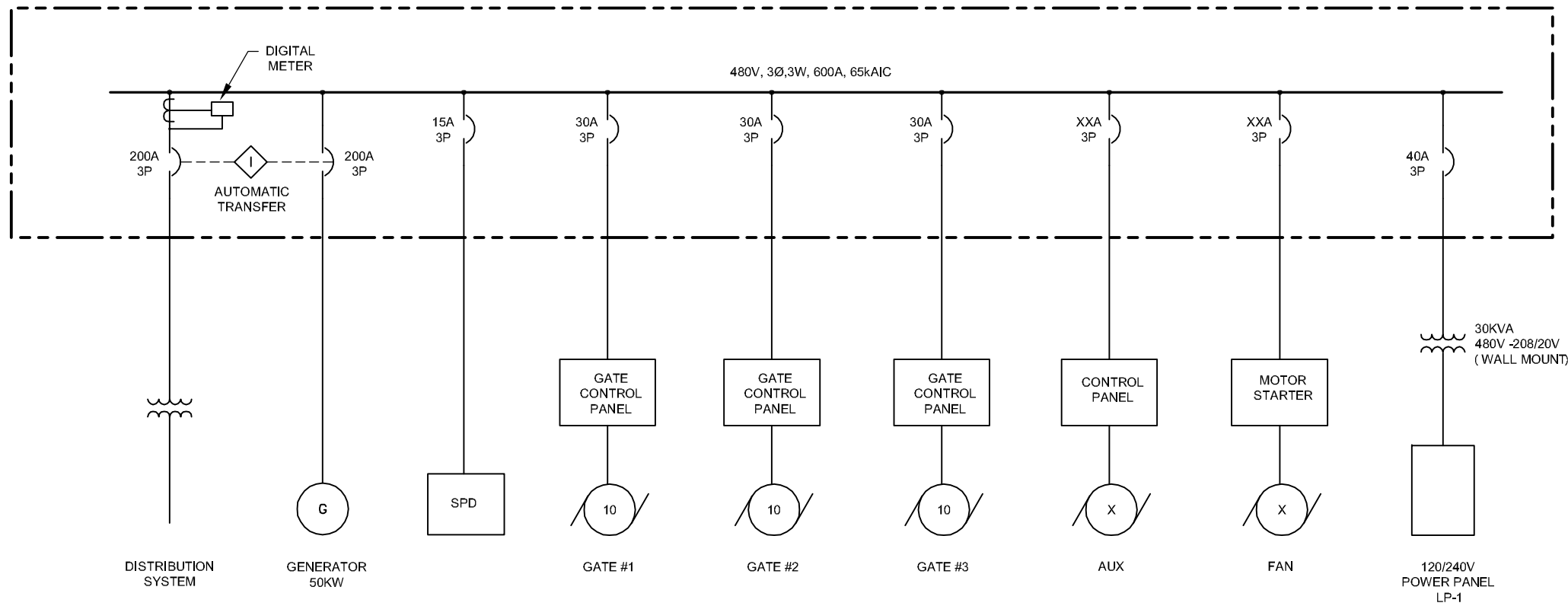
DATE: JULY 2014

DWG 2-28E101 SHEET 37

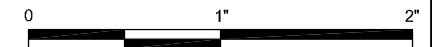
Date: Jul 03, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\44515929\2-28E101.dwg Plotted By: rprasad



NOTE: LIGHTING FED FROM LP-1.



SWITCHBOARD MSB-1  
 MID-BARATARIA DIVERSION STRUCTURE  
 NOT TO SCALE



**PRELIMINARY DOCUMENTS**

NOT TO BE USED FOR CONSTRUCTION, BIDDING,  
 RECORDATION, CONVEYANCE, SALES, OR AS THE  
 BASIS FOR PERMIT ISSUANCE.

GARLAND P. PENNISON, LA20931  
 ROBERT J. BEDUHN, LA38502



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION & RESTORATION AUTHORITY  
**ENGINEERING DIVISION**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: R. PRASAD

DESIGNED BY:

MID-BARATARIA SEDIMENT  
 DIVERSION

STATE PROJECT NUMBER: BA-153

FEDERAL PROJECT NUMBER: BA-153

APPROVED BY:

VOLUME 2  
 SINGLE LINE DIAGRAM

DATE: JULY 2014

DWG 2-28E601 SHEET 38

Date: Jul 03, 2014 Time: 3:04pm File Name: C:\pwworking\hdr\plotters\2-28E601.dwg Plotted By: rprasad