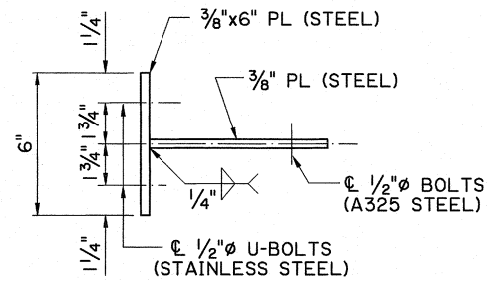
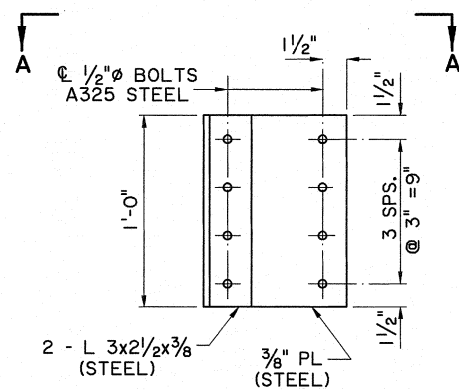


SIGN SUPPORT DETAIL

2 - 1/2"Ø STAINLESS STEEL U-BOLTS (CLASS 1 OR 2) WITH LOCK WASHERS & HEX NUTS (TYP.)

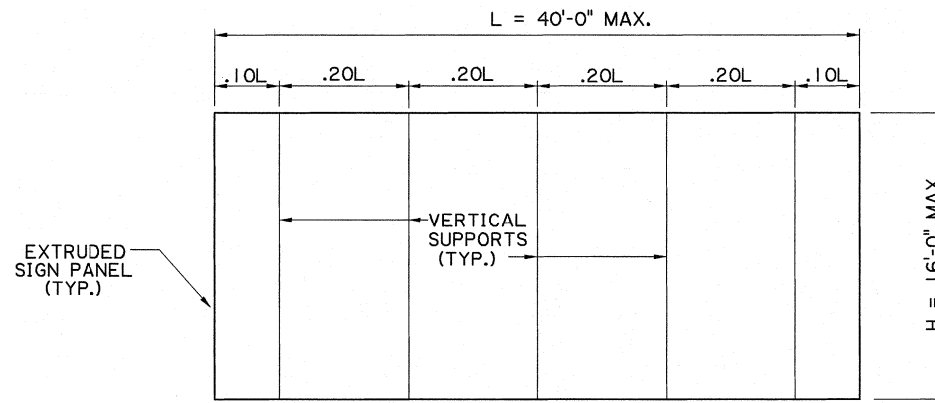


ALT. SECTION A-A

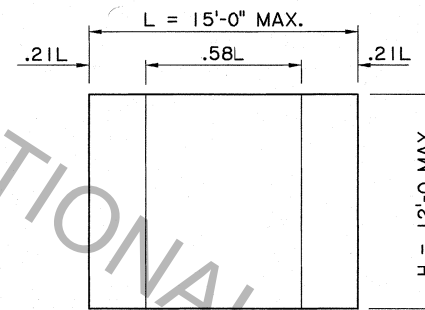


BRACKET DETAILS

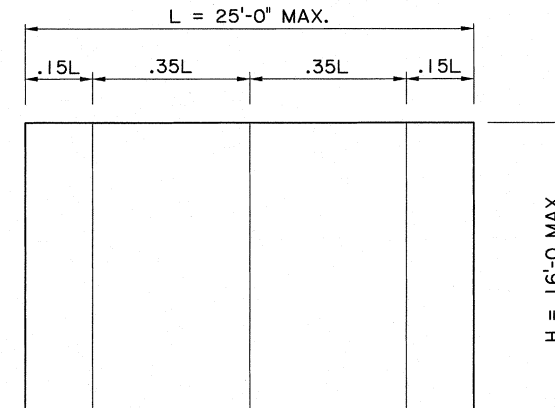
NOTE: ALL STRUCTURAL STEEL SHALL BE GALVANIZED



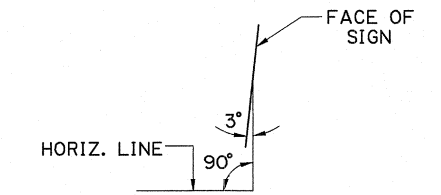
5 SUPPORTS



2 SUPPORTS



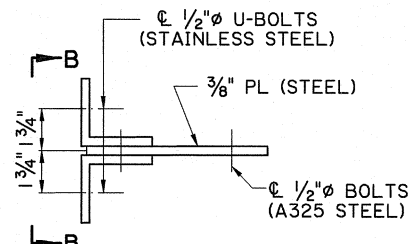
3 SUPPORTS



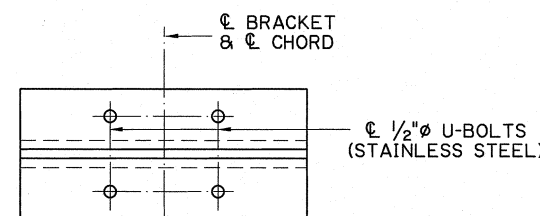
FINAL SIGN PANEL ORIENTATION

SPACING OF VERTICAL SUPPORTS FOR OVERHEAD SIGN AND FASCIA SIGN INSTALLATIONS

FOR INFORMATIONAL PURPOSES ONLY



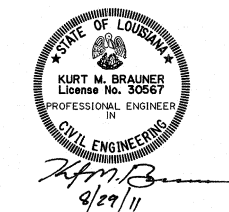
SECTION A-A



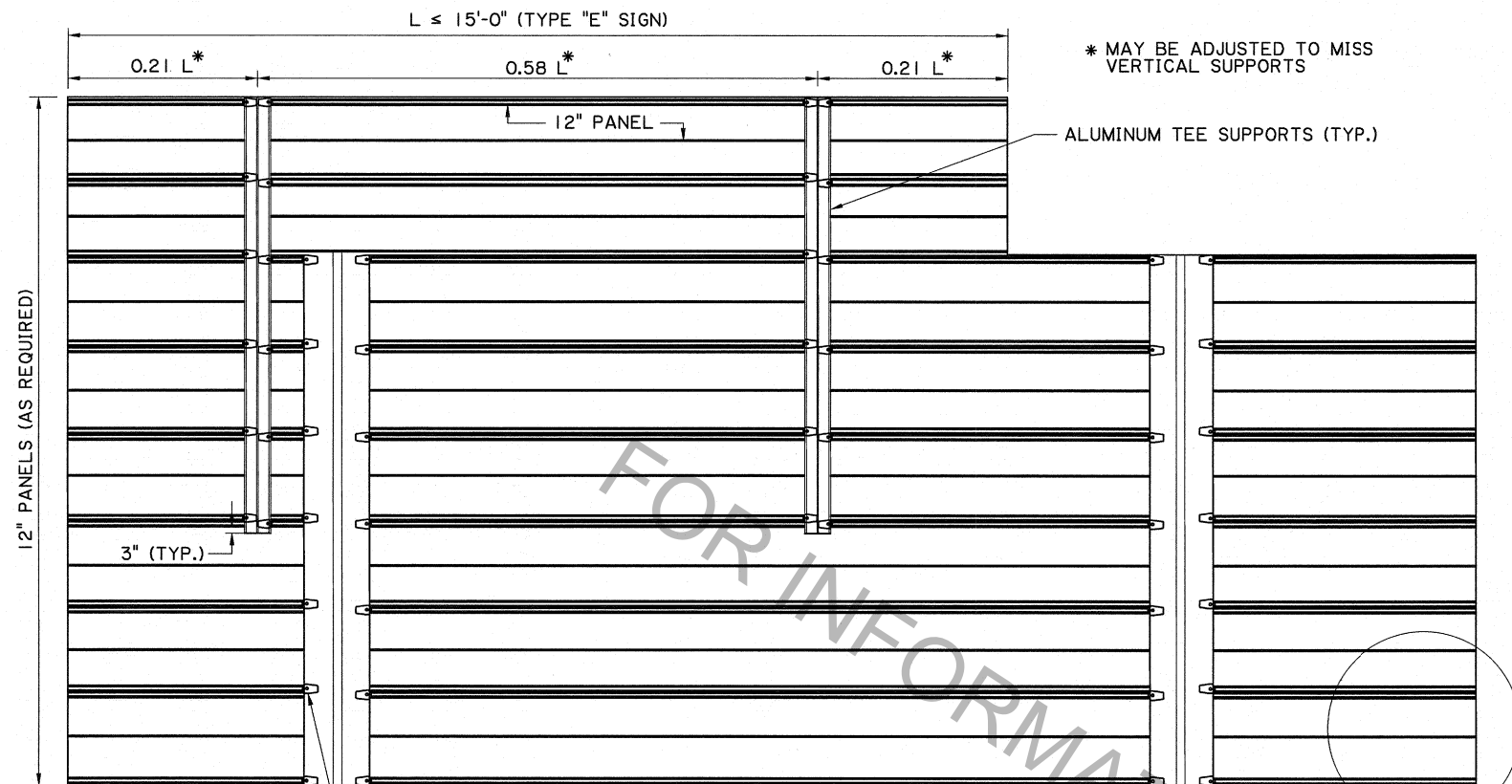
SECTION B-B

NOTES:

- VERTICAL SUPPORTS FOR OVERHEAD SIGNS SHALL BE 4x3x3/8 ALUMINUM ANGLE. TWO (2) ANGLES ARE REQUIRED FOR EACH VERTICAL SUPPORT.
- FOR NEW OVERHEAD SIGN PANELS (INCLUDING FASCIA MOUNTED) INCORPORATING EXISTING STRUCTURE SUPPORTS (SIGN TRUSS, SIGN CANTILEVER, AND FASCIA), THE CONTRACTOR WILL PLACE NEW VERTICAL SUPPORT ANGLES WITHOUT SPLICES THAT EXTEND THE FULL HEIGHT OF THE PRIMARY SIGN PANEL. THESE SUPPORTS AND ALL OTHER MATERIALS REQUIRED TO CONNECT TO AN EXISTING MOUNT SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.



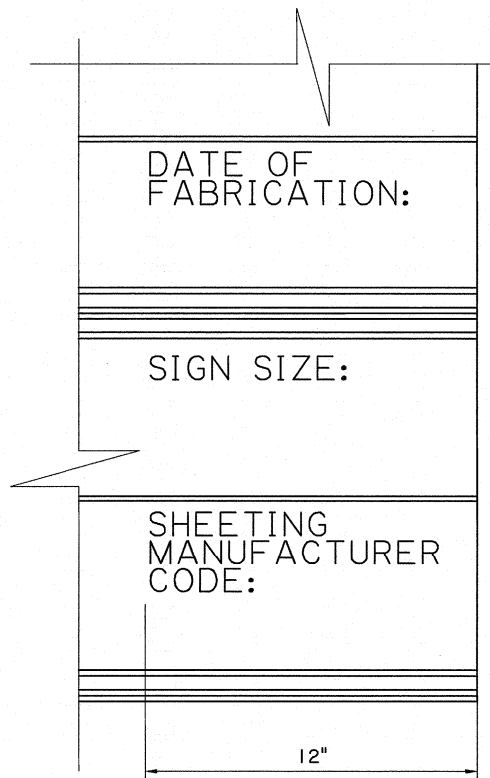
SHEET NUMBER	
DESIGNED	K. BRAUNER
CHECKED	P. FOSSIER
DETAILER	I. KOURILOVA
CHECKED	K. BRAUNER
DATE	JAN. 2011
SHEET	2 OF 16
PARISH	
FEDERAL PROJECT	
STATE PROJECT	
REVISION DESCRIPTION	
NO.	
DATE	
BY	
SIGN PANEL DETAILS	
BD.2.7.1.0.2 - OVERHEAD TRAFFIC SIGNS	
BRIDGE AND STRUCTURAL DESIGN	



POST CLIPS AND 3/8" BOLTS (TYP.)
INSTALL TWO (2) POST CLIPS AT EACH JUNCTION
OF EXTRUSION AND VERTICAL SUPPORT, ONE (1)
ON UPPER EXTRUSION AND ONE (1) ON LOWER
EXTRUSION WHERE EXTRUSIONS JOIN ONE ANOTHER.

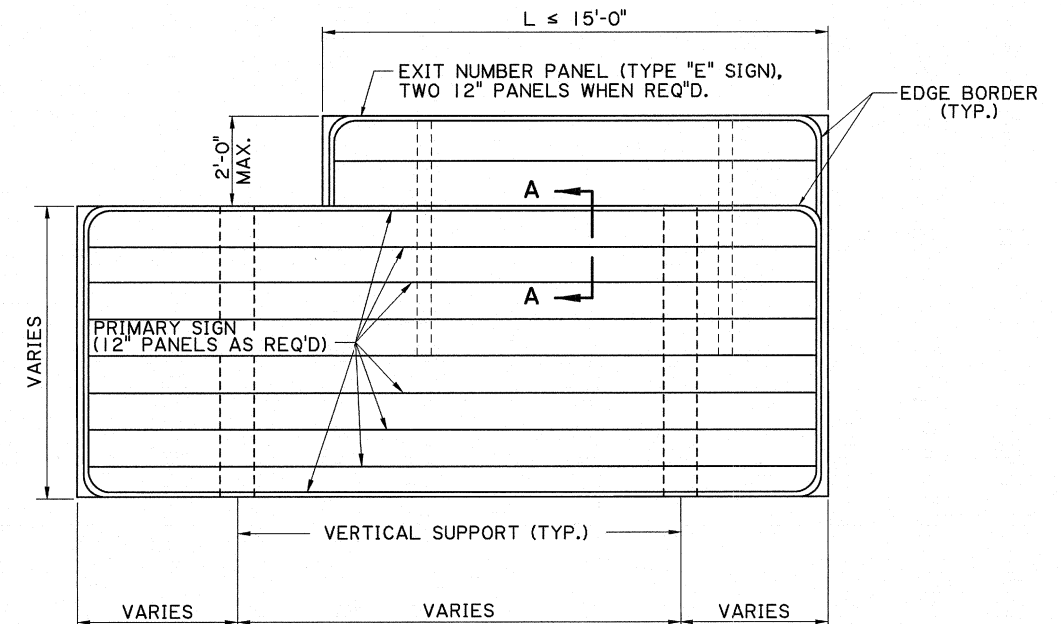
A PAIR OF VERTICAL
SUPPORT ANGLES (FOR
OVERHEAD MOUNTED OR
FASCIA MOUNTED SIGNS)
(TYP.)

BACK ELEVATION



DETAIL "A"

2" LETTERING IN LAST 12" OF SIGN, SEE MISCELLANEOUS
NOTE ON GENERAL NOTE SHEET.



FRONT ELEVATION ☒
(SEE SHEET NO. 4 OF 16 FOR SECTION VIEW)

NOTES:

ALL 12" EXTRUDED ALUMINUM PANELS SHALL BE ALUMINUM ALLOY 6063-T6.
ALL POST CLIPS SHALL BE ALUMINUM ALLOY 356-T6.
ALL EXTRUDED PANEL BOLTS AND POST CLIP BOLTS SHALL BE ALUMINUM.
ALL HEX LOCK NUTS SHALL BE ALUMINUM ALLOY 2017-T4.
ALL POST CLIP BOLTS SHALL BE TORQUED TO A MINIMUM OF 175 IN.-LBS.
ALL POST CLIP BOLTS, SHALL HAVE HEADS DESIGNED TO FIT THE BOLT SLOTS IN THE PANELS.

TYPE "E" SIGNS SHALL BE ATTACHED TO PRIMARY SIGNS WITH ALUMINUM TEE SUPPORTS,
[DOUBLE THE HEIGHT OF THE TYPE "E" SIGN PLUS ONE (1) FOOT, ONE (1) INCH FOR LENGTH
OF TEE], POST CLIPS, POST CLIP BOLTS, AND HEX LOCK NUTS.

FOR NEW OVERHEAD SIGNS (INCLUDING FASCIA MOUNTED) INCORPORATING EXISTING MOUNTS, THE
CONTRACTOR WILL PLACE VERTICAL SUPPORT ANGLES WITHOUT SPLICES THAT EXTEND THE FULL
HEIGHT OF THE EXTRUDED PRIMARY SIGN PANEL.

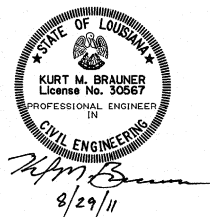
FOR NEW TYPE "D" SIGNS INCORPORATING EXISTING MOUNTS, THE EXISTING POST MAY BE REUSED
IF THE NEW SIGN PANEL DOES NOT EXTEND OVER 2'-0" ABOVE THE EXISTING POST. SUCH NEW
SIGNS WILL BE MOUNTED TO ALUMINUM TEE SUPPORTS BEGINNING AT THE TOP OF THE SIGN AND
EXTENDING DOWNWARD FROM THE TOP OF THE POST THE DISTANCE THE NEW SIGN IS ABOVE THE
EXISTING POST PLUS 1'-0". ONE TEE IS REQUIRED ADJACENT TO EACH EXISTING POST AND
ATTACHED WITH POST CLIPS AS SHOWN FOR NEW TYPE "E" SIGNS. IF THE NEW SIGN EXTENDS
OVER 2'-0" ABOVE THE EXISTING POST, THE CONTRACTOR IS TO REPLACE THE EXISTING POST
AND MEET DETAILS FOR NEW CONSTRUCTION.

REFLECTIVE SHEETING FOR EXTRUDED PANELS: ONLY SPLICES THAT OCCUR AS PART OF THE
MANUFACTURING PROCESS SHALL BE PERMITTED. A MAXIMUM OF TWO VERTICAL SPLICES ON ANY
ONE SIGN FABRICATED USING EXTRUDED PANELS, WITH ONE SPLICE PER EXTRUDED PANELS SHALL
BE ALLOWED. ALL "EXIT ONLY" PANELS THAT ARE DETAILED WITH THE TOP AND/OR BOTTOM EDGE
NOT AT AN EXTRUDED PANEL EDGE SHALL BE FABRICATED FROM .080" ALUMINUM AND ATTACHED
AS AN OVERLAY. ALL OTHER "EXIT ONLY" PANELS SHALL BE FABRICATED BY APPLYING THE
YELLOW REFLECTIVE SHEETING ON THE EXTRUDED PANELS. THE REFLECTIVE SHEETING APPLIED
TO EXTRUDED PANELS SHALL EXTEND APPROXIMATELY 1/4" OVER EACH SIDE AND SHALL BE ADHERED
TO THE SIDE OF THE PANEL.

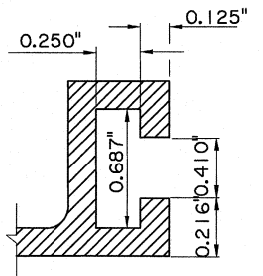
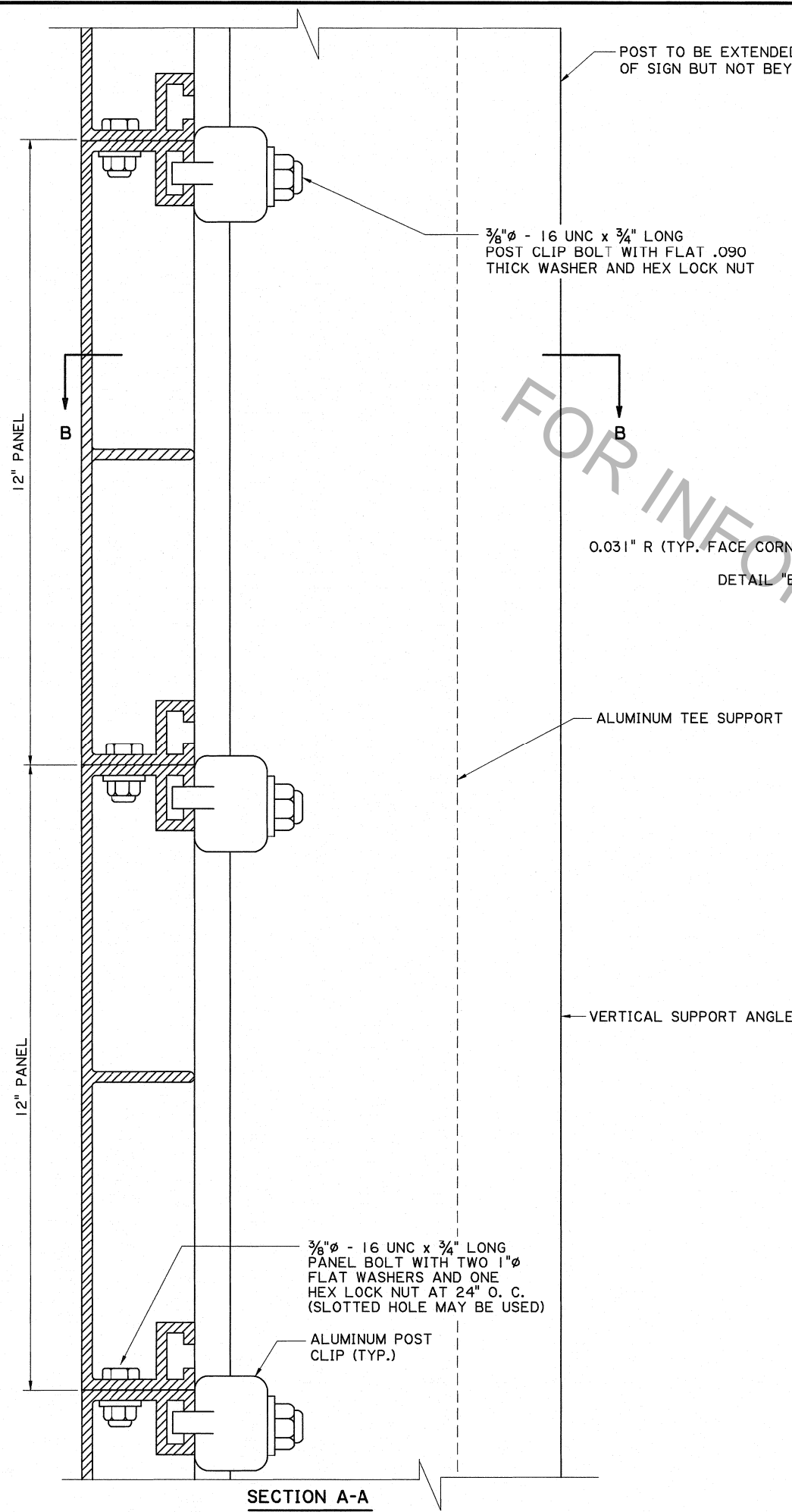
THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTES SHEET.

☒ POSSIBLE LOWER MOUNTED TYPE "E" SIGN NOT SHOWN. WHEN LOWER MOUNT IS
REQUIRED, IT SHALL BE CENTERED BETWEEN THE EDGES OF THE MAIN SIGN.

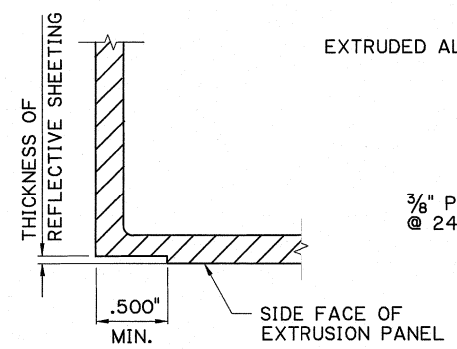
⊖ SPACING AND NUMBER OF SUPPORTS VARIES. (SEE SHT. NO. 2 OF 16)



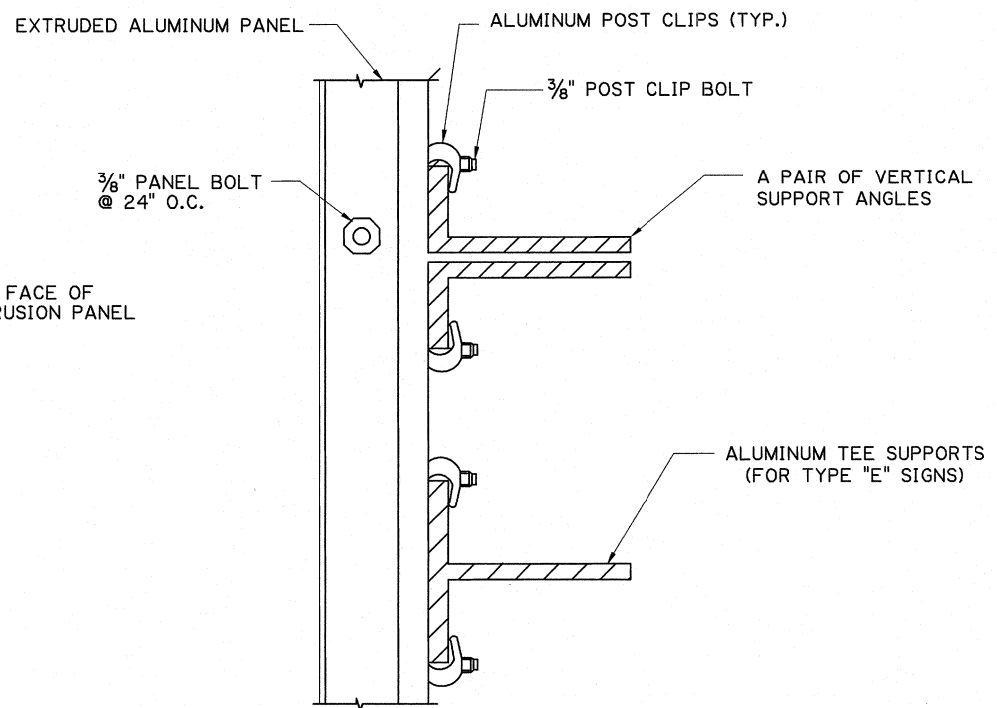
SHEET NUMBER		PARISH		FEDERAL PROJECT		STATE PROJECT	
DESIGNED	K. BRAUNER	CHECKED	P. FOSSIER	DATE	JAN. 2011	SHEET	3 OF 16
RETAILED	I. KOURILOVA	CHECKED	K. BRAUNER	DATE		SHEET	
REVISION DESCRIPTION							
NO.							
DATE							
BY							
EXTRUDED ALUMINUM PANELS							
BD.2.7.1.0.3 - OVERHEAD TRAFFIC SIGNS							
BRIDGE AND STRUCTURAL DESIGN							



DETAIL "A"

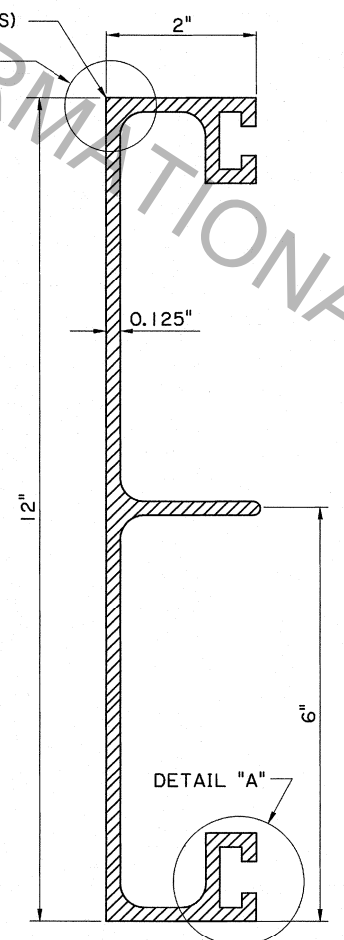


DETAIL "B"



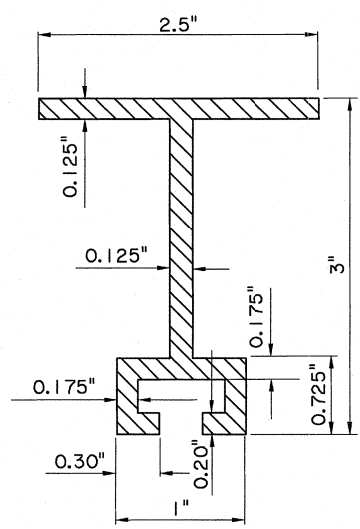
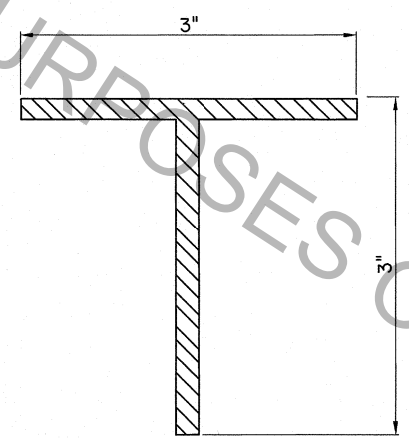
0.031" R (TYP. FACE CORNERS)

DETAIL "B"

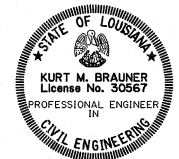


12" PANEL

MINIMUM WALL THICKNESS IS 0.080" UNLESS OTHERWISE SPECIFIED

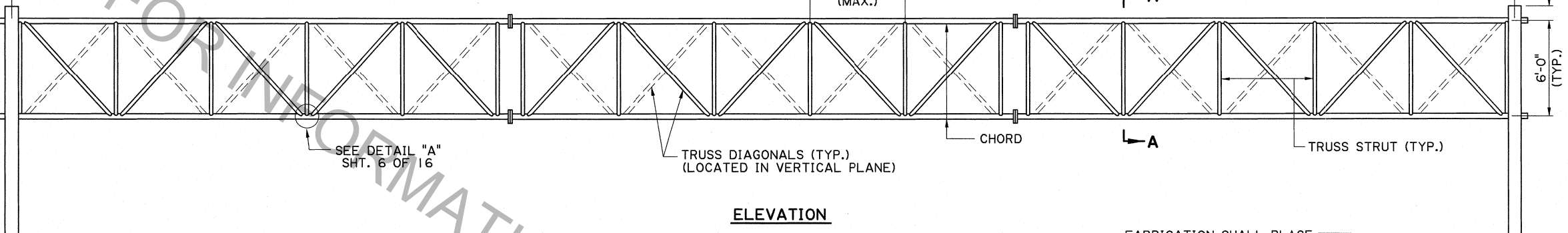
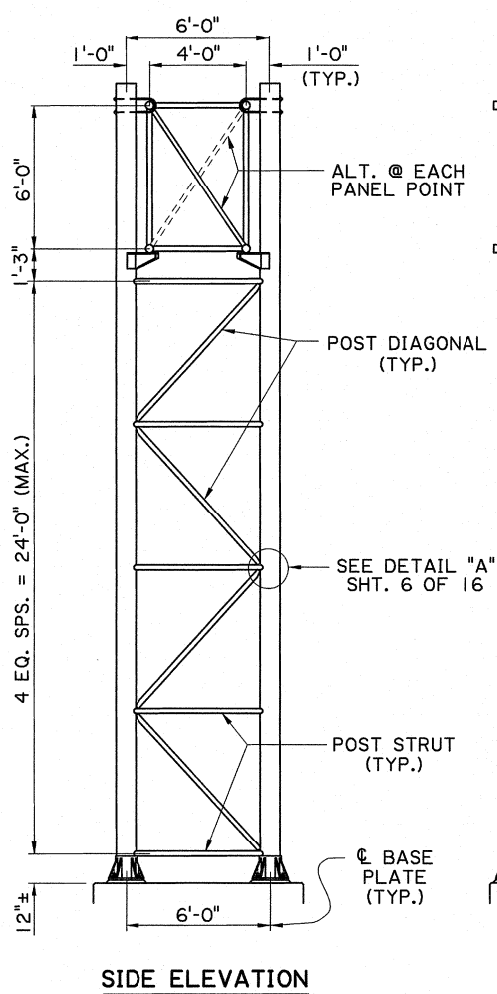
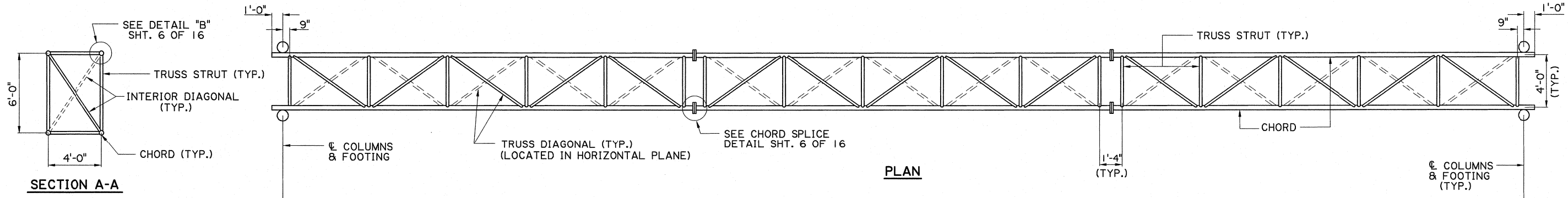


ALUMINUM TEE SUPPORTS (FOR TYPE "E" SIGNS)



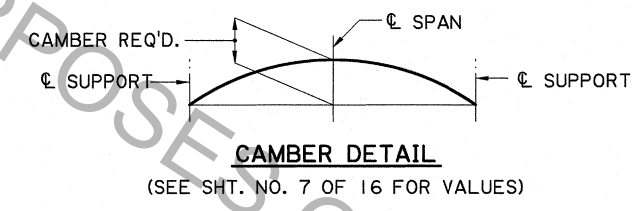
Signature and date: 8/29/11

SHEET NUMBER		PARISH		DESIGNED	
		K. BRAUNER		K. BRAUNER	
		P. FOSSIER		I. KORILOVA	
		K. BRAUNER		K. BRAUNER	
		JAN. 2011		JAN. 2011	
		4 OF 16		4 OF 16	
		STATE		STATE	
		PROJECT		PROJECT	
		REVISION DESCRIPTION		REVISION DESCRIPTION	
		DATE		DATE	
		BY		BY	
		NO.		NO.	
		DATE		DATE	
		EXTRUDED ALUMINUM PANELS		EXTRUDED ALUMINUM PANELS	
		BD.2.7.1.0.4 - OVERHEAD TRAFFIC SIGNS		BD.2.7.1.0.4 - OVERHEAD TRAFFIC SIGNS	
		DOTA		DOTA	
		BRIDGE AND STRUCTURAL DESIGN		BRIDGE AND STRUCTURAL DESIGN	

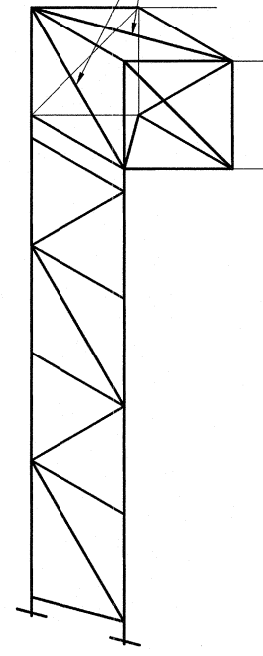


ARRANGEMENT OF TRUSS SECTIONS

SPAN LENGTH UP TO	TRUSS SECTIONS & NO. OF PANELS	ALTERNATE METHOD
60'-0"	2 @ 5	1 @ 10
66'-0"	1 @ 4 & 1 @ 7	1 @ 5 & 1 @ 6
72'-0"	3 @ 4	
78'-0"	2 @ 4 & 1 @ 5	
84'-0"	2 @ 5 & 1 @ 4	2 @ 4 & 1 @ 6
90'-0"	3 @ 5	2 @ 4 & 1 @ 7
96'-0"	2 @ 5 & 1 @ 6	
102'-0"	2 @ 5 & 1 @ 7	
108'-0"	3 @ 6	2 @ 7 & 1 @ 4
114'-0"	2 @ 6 & 1 @ 7	2 @ 7 & 1 @ 5
120'-0"	2 @ 7 & 1 @ 6	2 @ 6 & 1 @ 8



FABRICATION SHALL PLACE THESE TWO DIAGONALS TOWARD THE SAME CORNER



NOTES:

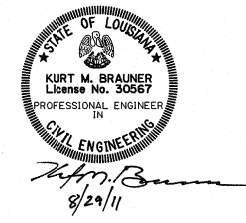
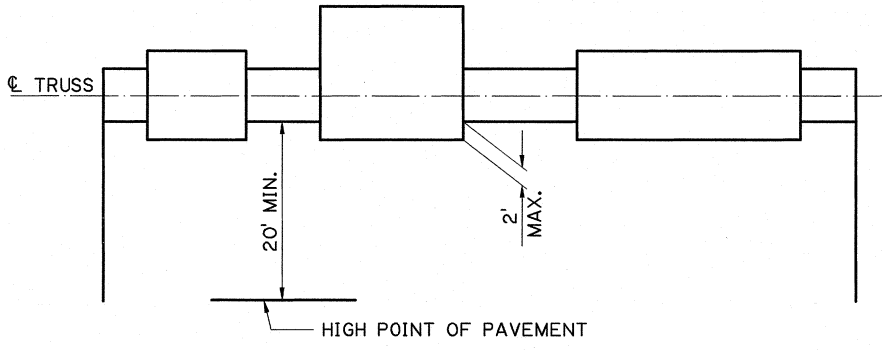
ALL TRUSS AND POST MEMBERS SHALL BE STEEL AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123. STEEL FOR ANCHOR BOLTS SHALL HAVE MIN. Fy = 55 ksi AND SHALL BE GALVANIZED. ALL MISCELLANEOUS STEEL SHALL BE A-36 AND GALVANIZED AS PER ASTM A-123. ALL EXPOSED ENDS OF PIPE SHALL BE SEALED WITH EITHER A 1/4" PLATE, (MINIMUM THICKNESS WELDED AND GROUND SMOOTH) OR A FRICTION CAP. (SEE SHT. NO. 6 OF 16 FOR DETAILS).

GRINDING OF WELD ON SEAMED PIPE WILL NOT BE REQUIRED, HOWEVER, GOOD SHOP PRACTICES WILL BE FOLLOWED IN THE APPEARANCE OF THE WELD. FOR TRUSS MEMBER SIZES NOT SHOWN, SEE TRUSS DESIGN AND FOOTING DETAIL SHEET.

METHOD OF TRANSPORTATION OF TRUSS FROM POINT OF FABRICATION TO ERECTION LOCATION SHALL SUPPORT THE TRUSS AND NOT UTILIZE THE TRUSS TO CARRY LOAD.

THIS SHEET TO BE USED WITH THE OVERHEAD TRUSS DESIGN TABLES AND THE WIND LOAD MAP AND GENERAL NOTES SHEET.

* SIGN POSTS TO BE PROTECTED WITH GUARD RAIL OR BARRIER SYSTEM AS PER LADOTD GUARD RAIL STANDARD PLANS. GUARD RAIL LAYOUT DETAILS ARE TO BE INCLUDED IN THE PLANS.



SHEET NUMBER

DESIGNED BY: PORTER C. BRAUNER
CHECKED BY: K. BRAUNER
DATE: JAN. 2011

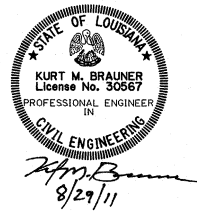
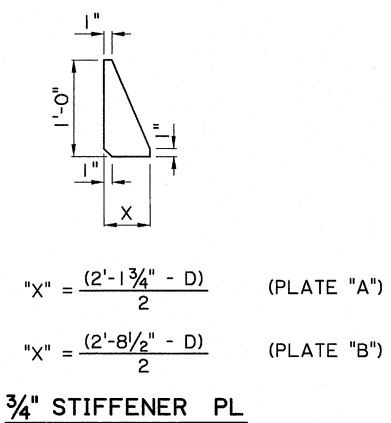
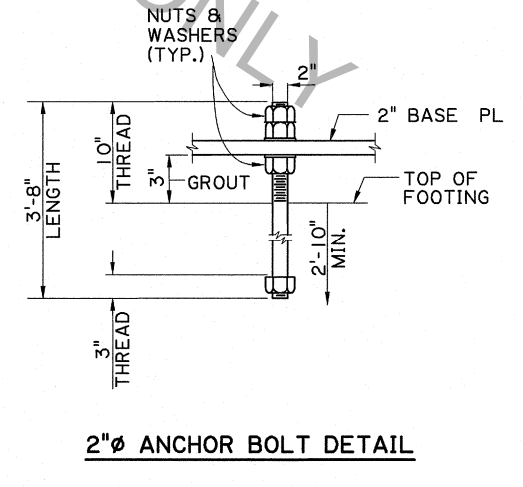
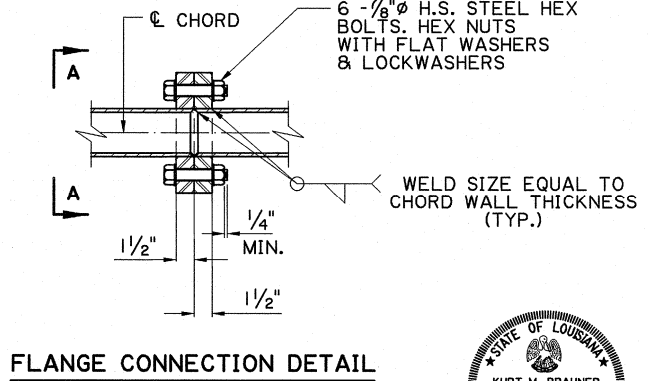
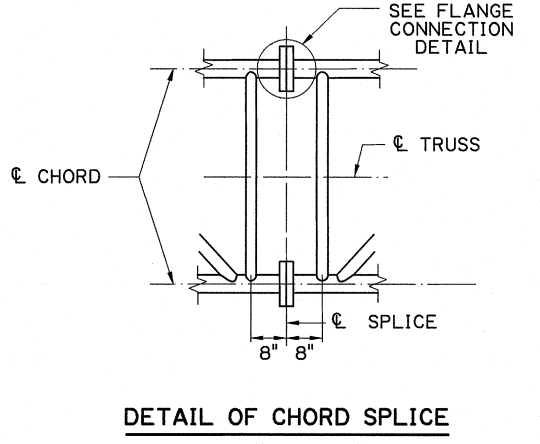
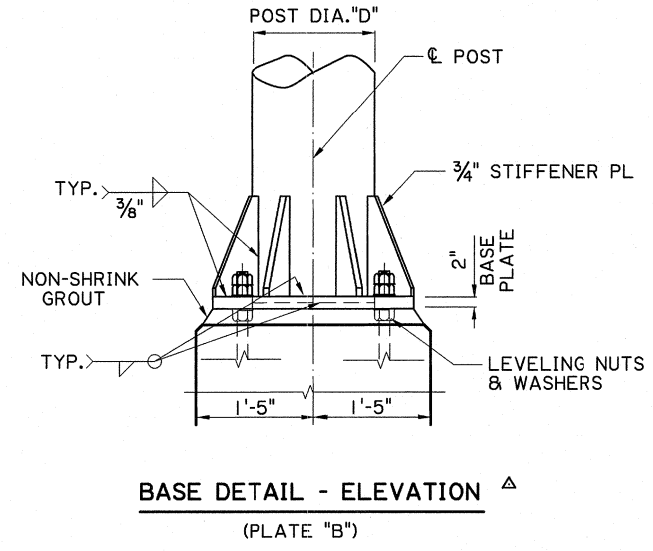
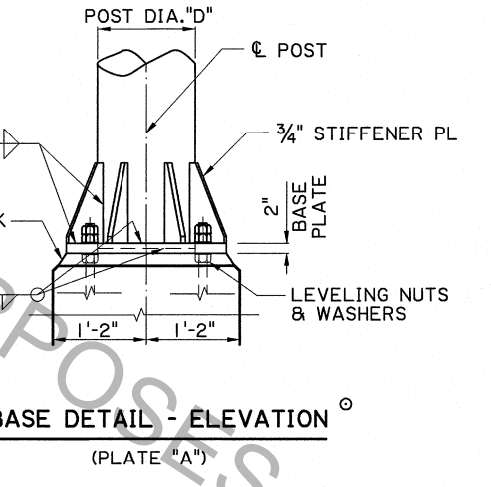
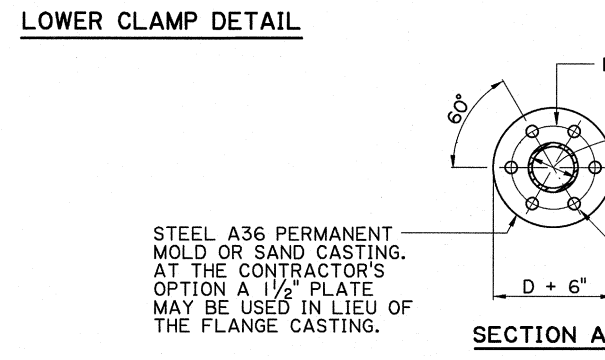
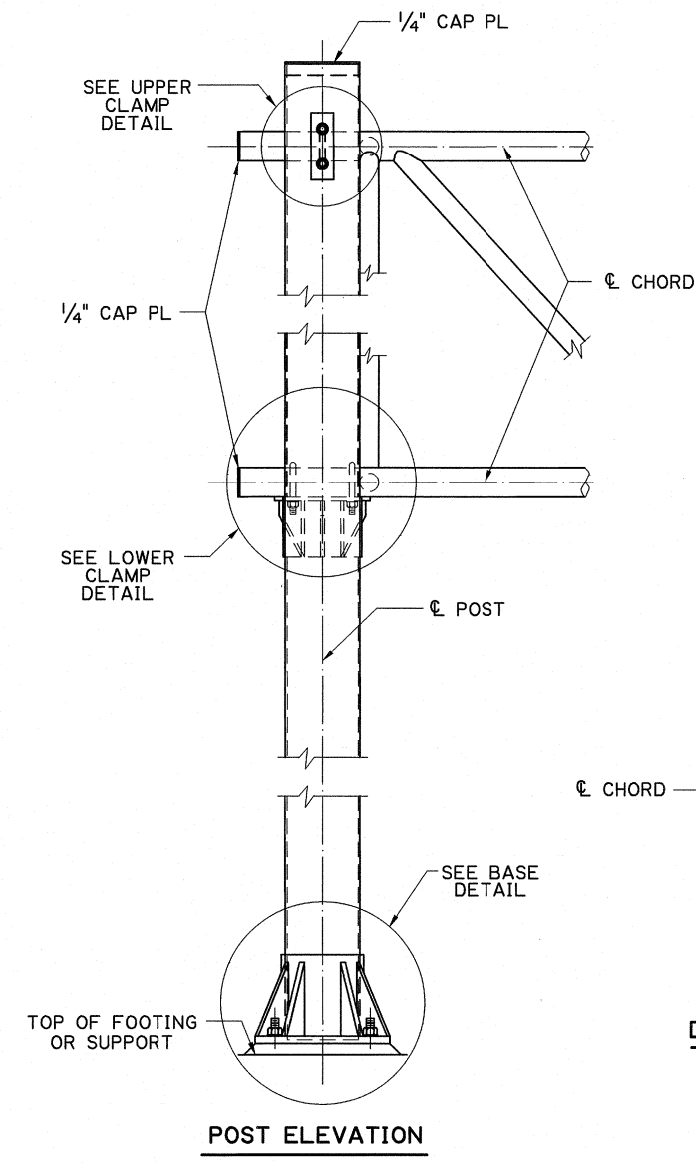
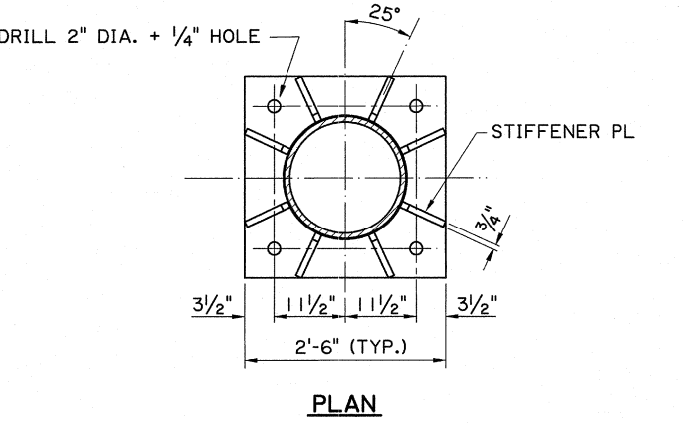
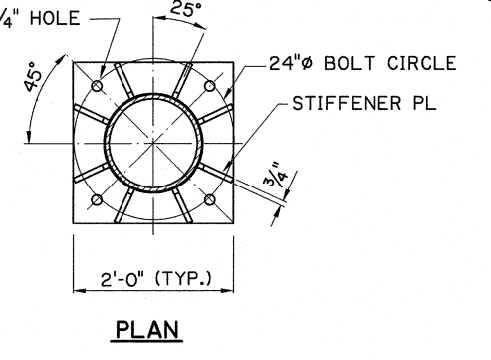
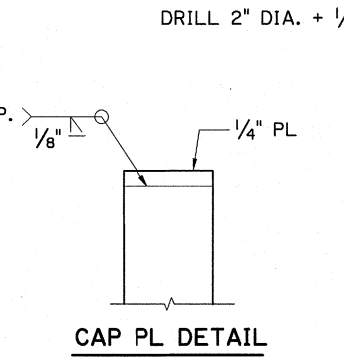
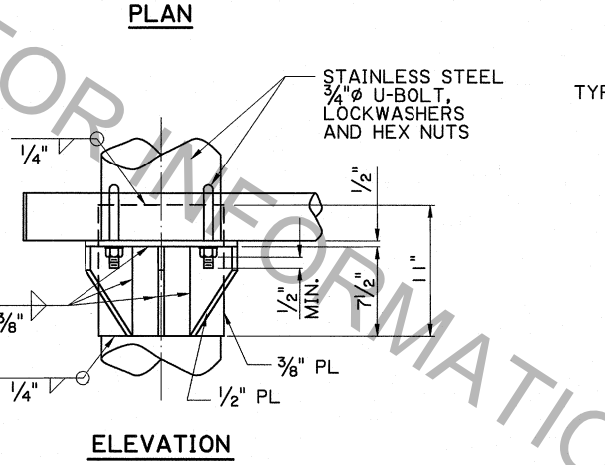
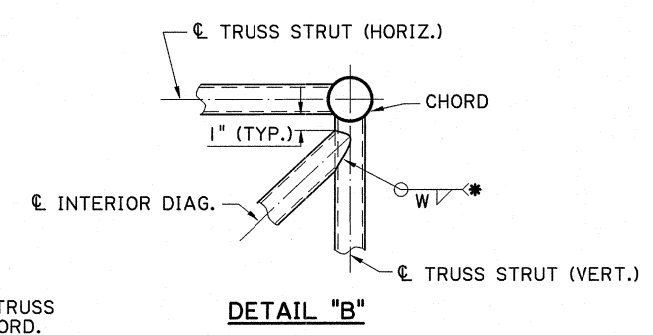
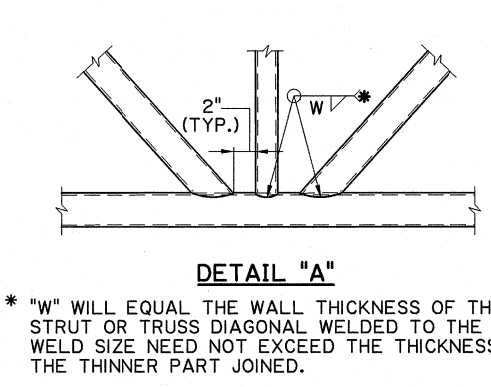
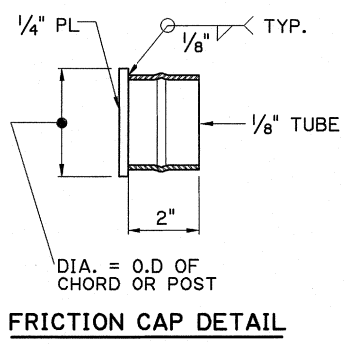
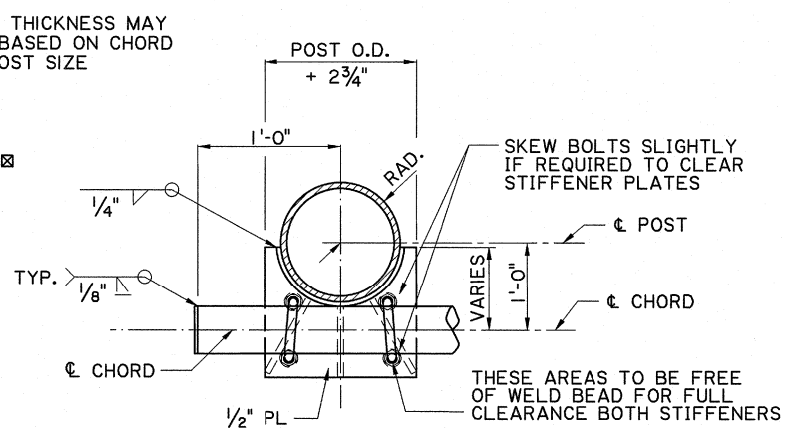
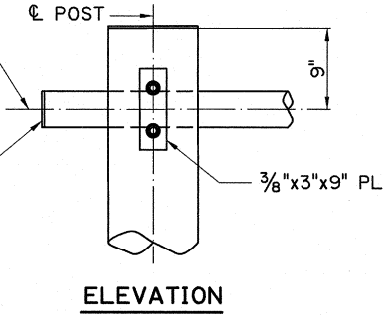
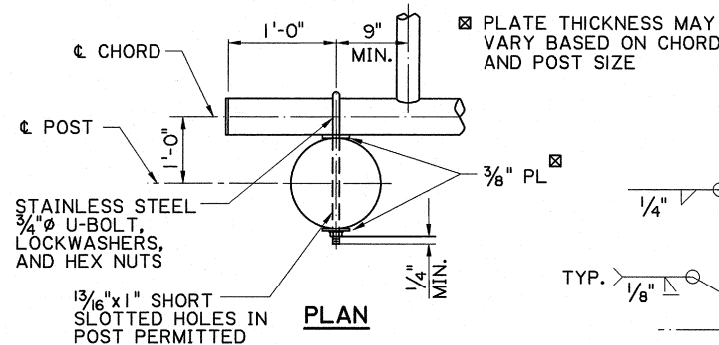
REVISION DESCRIPTION

NO. DATE

STATE OF LOUISIANA PROFESSIONAL ENGINEER SEAL

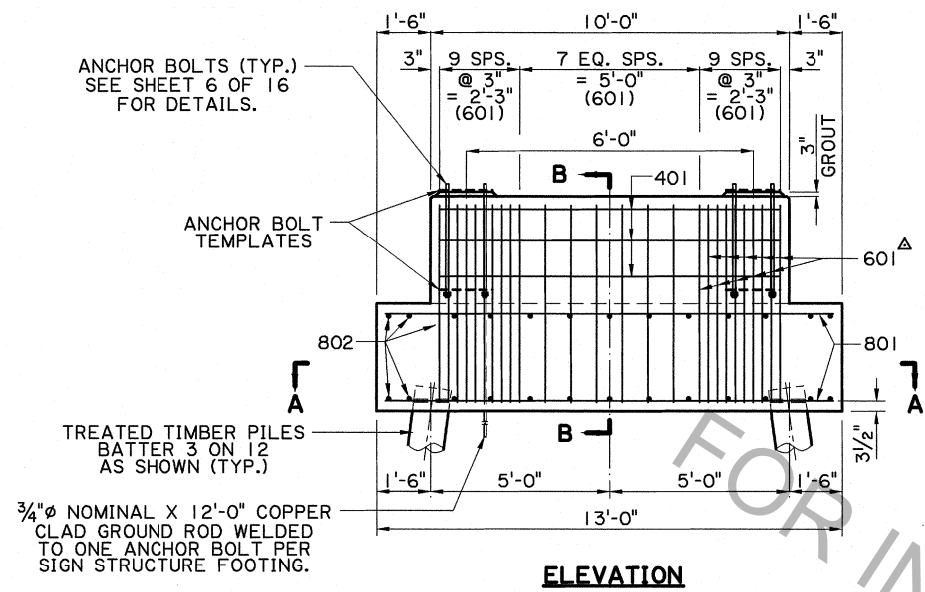
OVERHEAD SIGN TRUSS (STEEL)

BRIDGE AND STRUCTURAL DESIGN

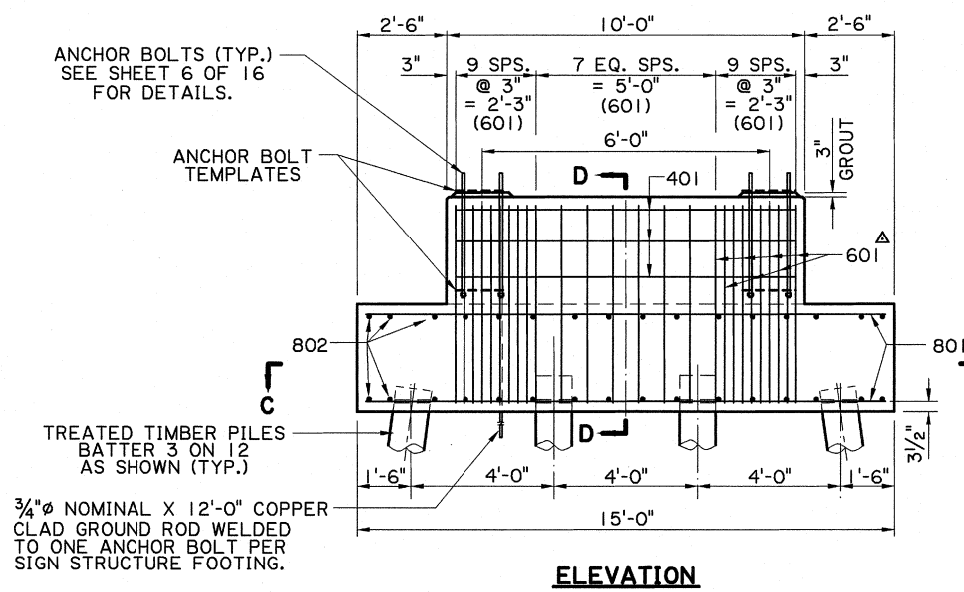


○ TO BE USED WITH FOOTING "A" ONLY. (SEE SHT. NO. 8 OF 16)
 ▲ TO BE USED WITH FOOTING "B" ONLY. (SEE SHT. NO. 8 OF 16)

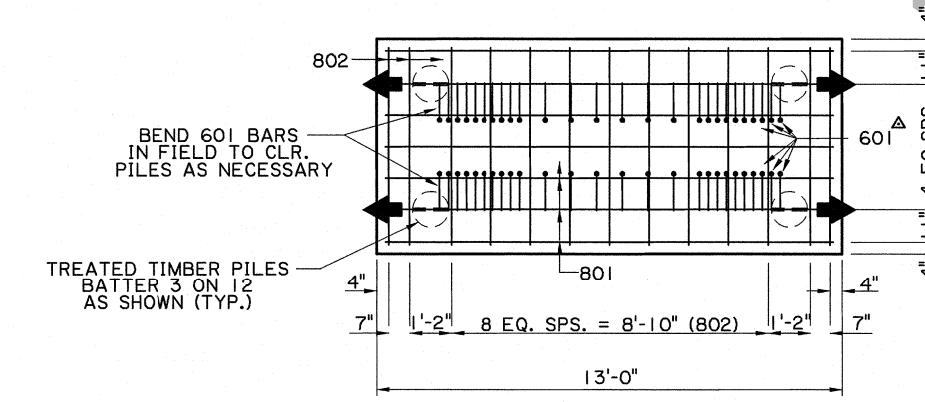
SHEET NUMBER	PARISH	FEDERAL PROJECT	STATE PROJECT
DESIGNED K. BRAUNER	CHECKED C. PORTER	DATE JAN. 2011	BY
REVISION DESCRIPTION	NO.	DATE	BY
MISCELLANEOUS DETAILS (STEEL)			
BD.2.7.1.0.6 - OVERHEAD TRAFFIC SIGNS			
BRIDGE AND STRUCTURAL DESIGN			



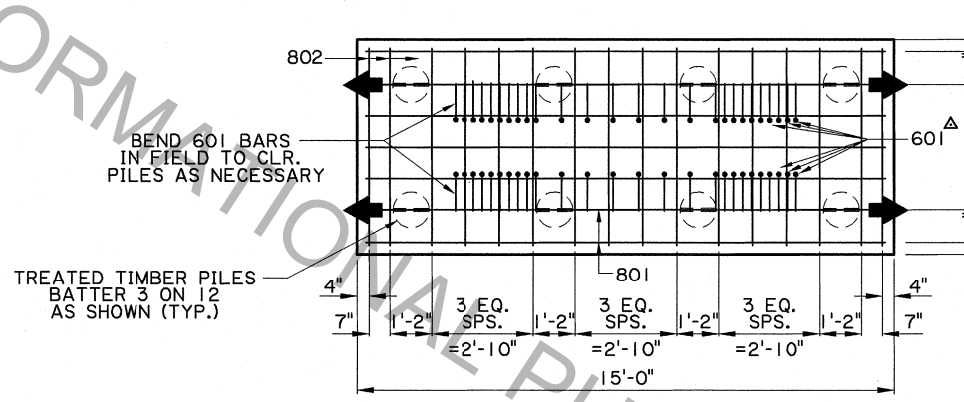
ELEVATION



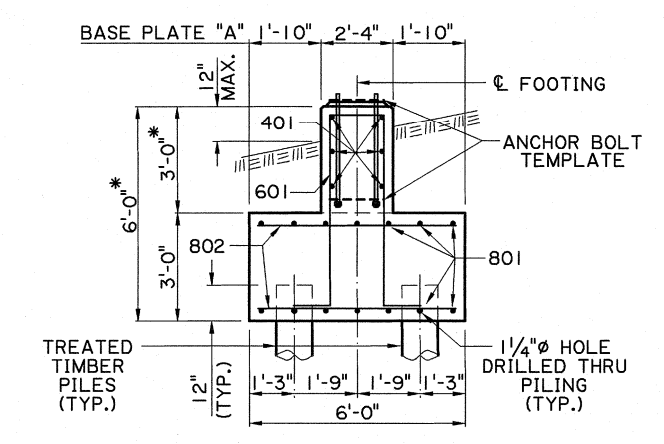
ELEVATION



SECTION A-A

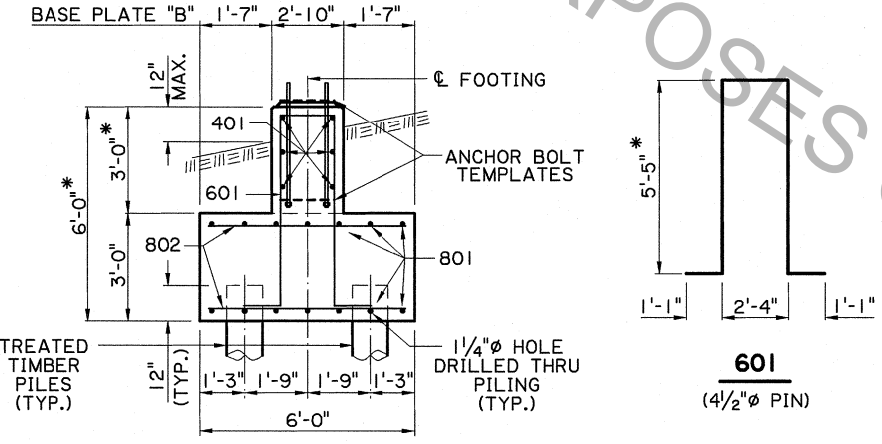


SECTION C-C



SECTION B-B

FOOTING "A"



SECTION D-D

FOOTING "B"

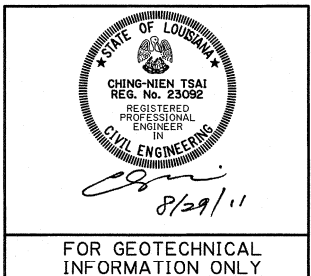
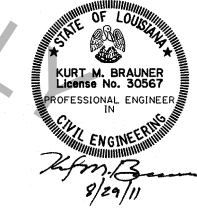
WIND ZONE	FOOTING TYPE	PILE SIZE (IN.)		PILE LENGTH (FT.)
		BUTT	TIP	
1	A	12.4	8	55
	B	11.9	8	50
2	A	12.7	8	60
	B	11.9	8	50
3	A	13.9	8	75
	B	13.9	8	75

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	14	12'-6"	175'-0"	FOOTING
802	26	5'-6"	143'-0"	FOOTING
TOTAL NO. 8 BARS = 318'-0"				= 849 LBS.
601	26	14'-10"	385'-8"	STIRRUPS IN FOOTING & PED
TOTAL NO. 6 BARS = 385'-8"				= 579 LBS.
401	6	9'-6"	57'-0"	PEDESTAL
TOTAL NO. 4 BARS = 57'-0"				= 38 LBS.
TOTAL DEFORMED REINFORCING STEEL				= 1466 LBS.
TOTAL CLASS A1 CONCRETE				= 11.14 CU.YDS.
STRUCTURAL EXCAVATION				= 40.0 CU.YDS.
STRUCTURAL STEEL				= (SEE A.B. DETAILS)
TREATED TIMBER PILES				= 240 LIN. FT.

WIND ZONE 2 ASSUMED FOR PILE QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE FOOTING PILE DATA TABLE.

BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	14	14'-6"	203'-0"	FOOTING
802	32	5'-6"	176'-0"	FOOTING
TOTAL NO. 8 BARS = 379'-0"				= 1012 LBS.
601	26	15'-4"	398'-8"	STIRRUPS IN FOOTING & PED
TOTAL NO. 6 BARS = 398'-8"				= 599 LBS.
401	6	9'-6"	57'-0"	PEDESTAL
TOTAL NO. 4 BARS = 57'-0"				= 38 LBS.
TOTAL DEFORMED REINFORCING STEEL				= 1649 LBS.
TOTAL CLASS A1 CONCRETE				= 12.92 CU.YDS.
STRUCTURAL EXCAVATION				= 45.0 CU.YDS.
STRUCTURAL STEEL				= (SEE A.B. DETAILS)
TREATED TIMBER PILES				= 400 LIN. FT.

WIND ZONE 2 ASSUMED FOR PILE QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE FOOTING PILE DATA TABLE.



NOTES:

THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTES SHEET. MAXIMUM PILE DESIGN LOAD IS 30 TONS PER PILE.

ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

FOR BASE PLATE DETAILS, SEE SHT. NO. 6 OF 16.

* THESE DIMENSIONS MAY BE VARIED ± ONE FOOT TO ADJUST ELEVATION FOR SITE CONDITIONS. ADJUST BARS 401 & 601 ACCORDINGLY.

△ NO. 601 BARS MAY BE MOVED TO CLEAR TRUSS ANCHOR BOLTS.

☒ DRILLED SHAFT ALTERNATE ALLOWED. SEE SHT. NOS. 13 & 14 OF 16.

SHEET NUMBER

DESIGNED BY: C. BRAUNER
CHECKED BY: K. BRAUNER

DRAWN BY: K. KOURILOVA
CHECKED BY: K. BRAUNER

DATE: JAN. 2011
SHEET: 8 OF 16

PARISH PROJECT: PORTER
STATE PROJECT: FEDERAL PROJECT

REVISION DESCRIPTION: UPDATED FOR 2016 SPECIFICATIONS
DATE: 02-13-17
BY: K.M.B.

STATE OF LOUISIANA
KURT M. BRAUNER
LICENSE NO. 30567
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING

STATE OF LOUISIANA
CHING-NIEN TSAI
REG. NO. 23092
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING

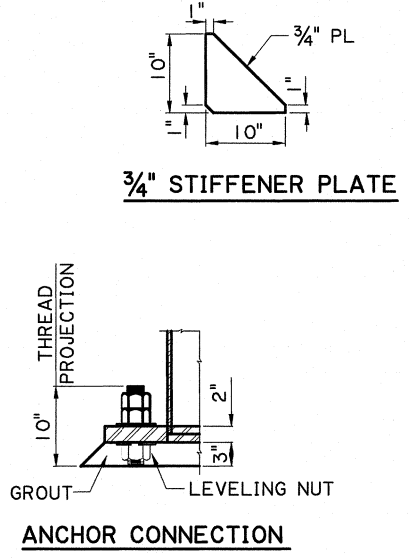
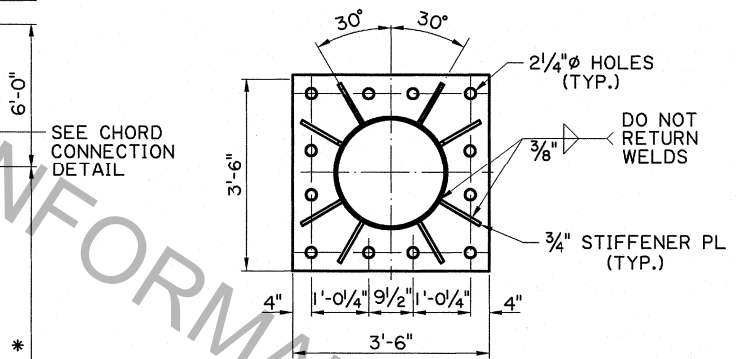
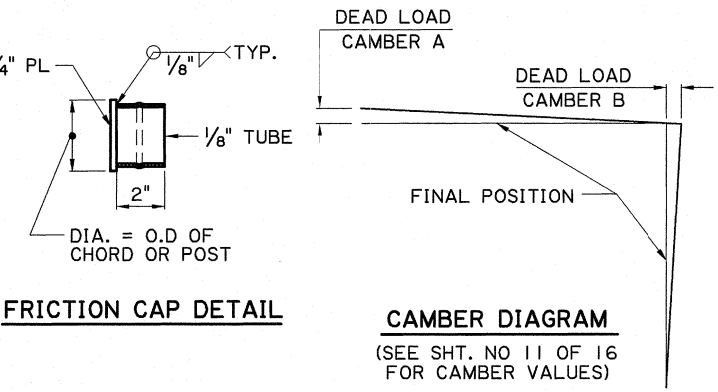
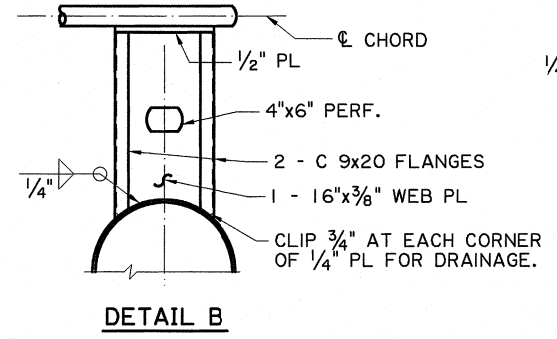
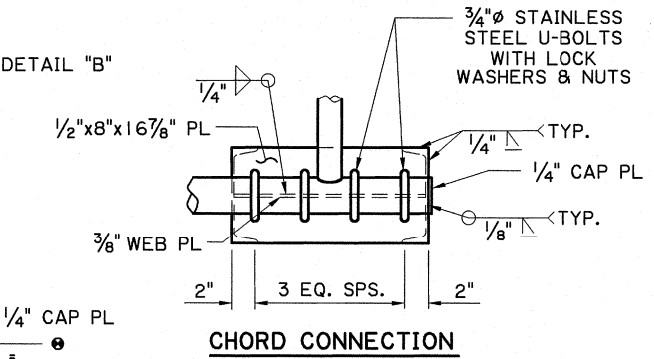
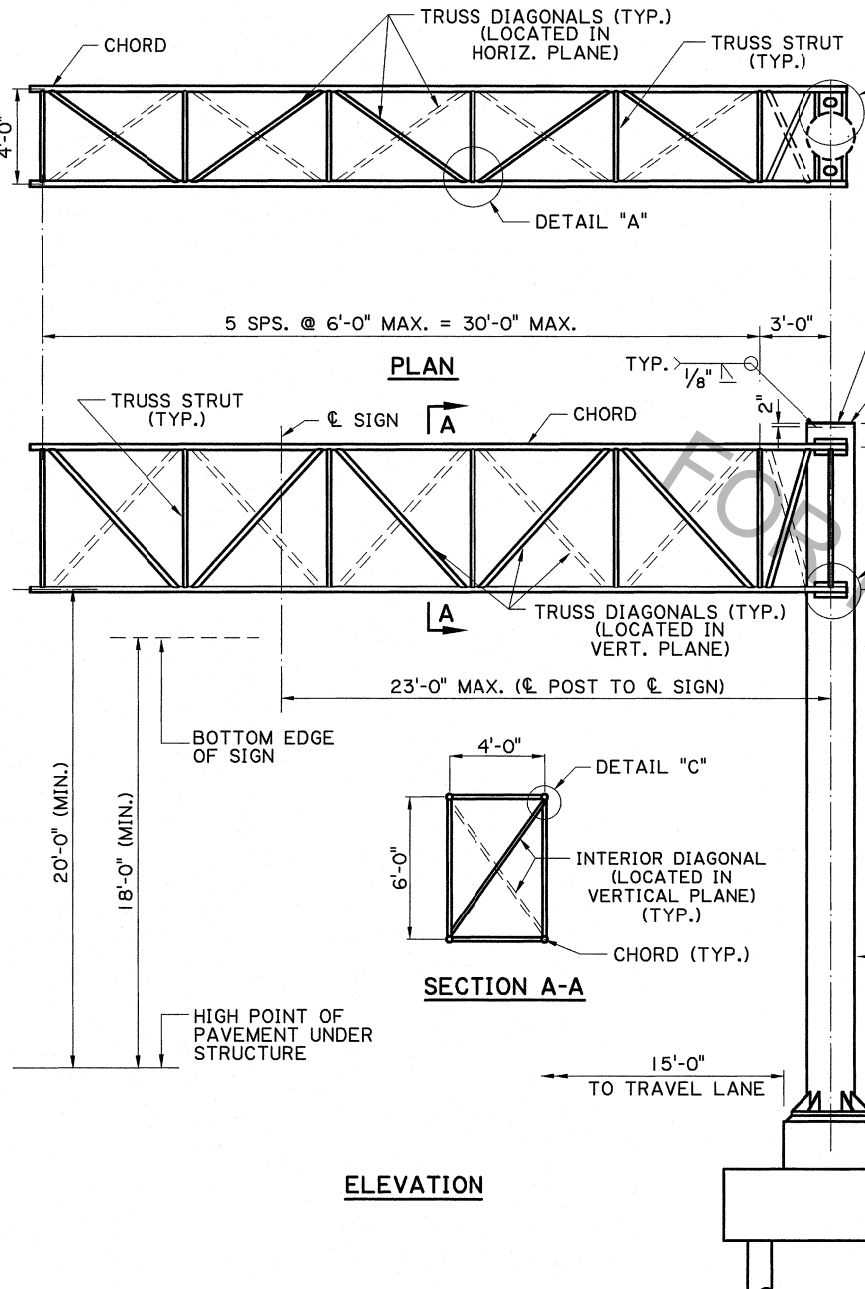
FOR GEOTECHNICAL INFORMATION ONLY

8/29/11

PILE FOOTING DETAILS

BD.2.7.1.0.8 - OVERHEAD TRAFFIC SIGNS

DOTA
BRIDGE AND STRUCTURAL DESIGN

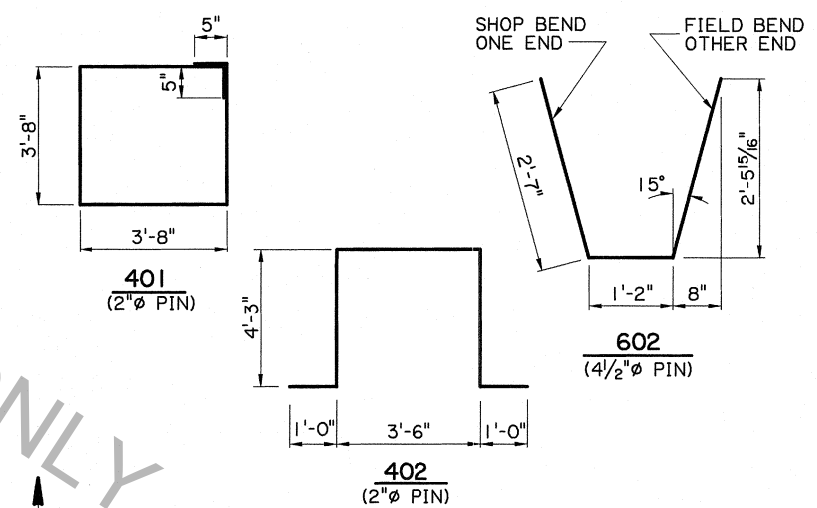


ESTIMATED QUANTITIES (ONE FOOTING)

BAR NO.	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	72	7'-8"	552'-0"	FOOTING
602	8	6'-4"	50'-8"	FOOTING
TOTAL NO. 6 BARS = 602'-8"				905 LBS.
401	4	15'-6"	62'-0"	STIRRUPS IN FOOTING
402	6	14'-0"	84'-0"	STIRRUPS IN FOOTING
TOTAL NO. 4 BARS = 146'-0"				98 LBS.
TOTAL DEFORMED REINFORCING STEEL =				1003 LBS.
TOTAL CLASS A1 CONCRETE =				10.17 CU.YDS.
STRUCTURAL EXCAVATION =				34.7 CU.YDS.
STRUCTURAL STEEL (ANCHOR BOLTS) =				578 LBS.
TREATED TIMBER PILES =				200 LIN.FT.

FOOTING PILE DATA TABLE

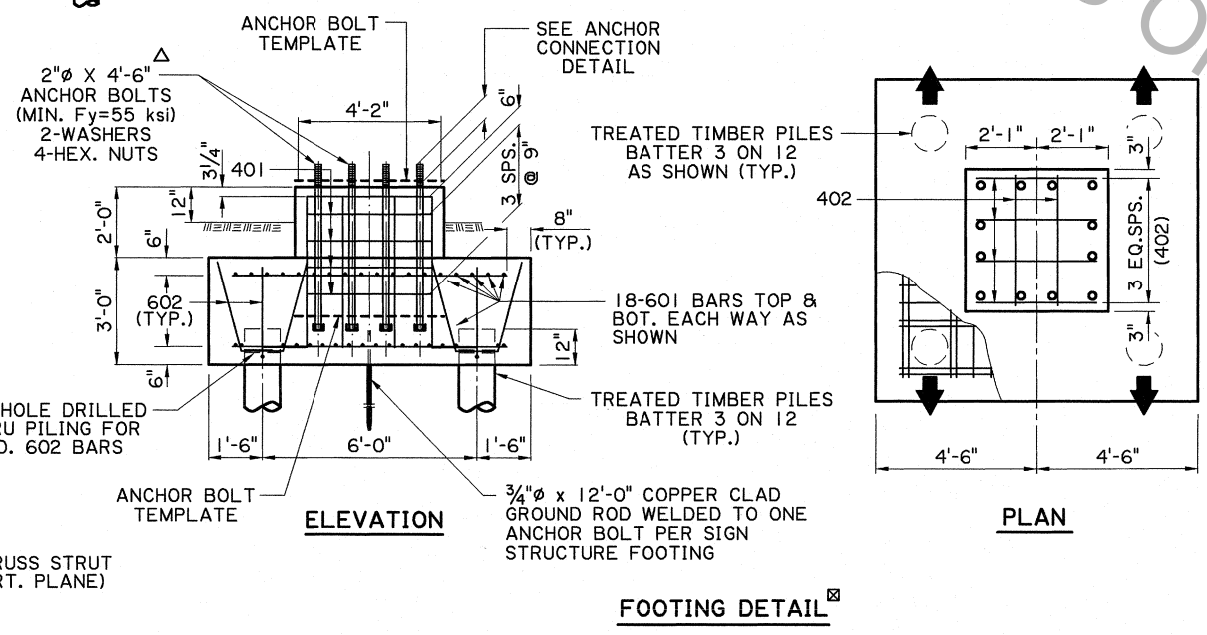
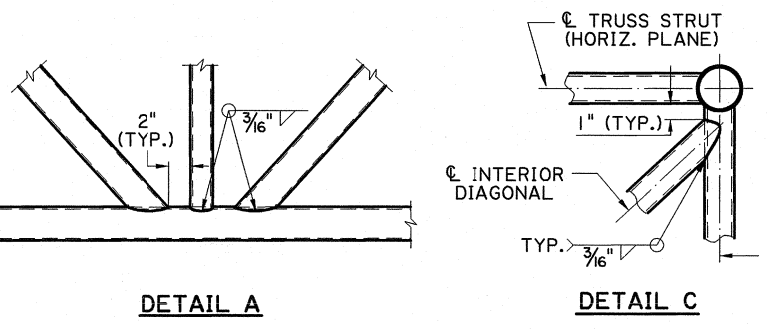
WIND ZONE	PILE SIZE (IN.)		PILE LENGTH (FT.)
	BUTT	TIP	
1	11.6	8	45
2	11.9	8	50
3	13.9	8	75



* IN SPECIAL CASES, WITH PRIOR APPROVAL FROM THE D.O.T.D. BRIDGE DESIGN ENGINEER, THIS DIMENSION MAY BE EXCEEDED.

△ ANCHOR BOLTS TO BE TIGHTENED ACCORDING TO SPECIAL PROVISIONS. ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

● ALTERNATE CAP: FRICTION WATER TIGHT CAP MAY BE USED ON EXPOSED ENDS OF ALL PIPES. SEE DETAILS.



NOTES:

ALL TRUSS AND POST MEMBERS SHALL BE STEEL AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123.

THIS SHEET TO BE USED WITH THE CANTILEVER DESIGN TABLES AND THE GENERAL NOTES SHEET.

THE MAXIMUM PILE DESIGN LOAD IS 30 TONS PER PILE.

☒ DRILLED SHAFT ALTERNATE ALLOWED. SEE SHT. NO. 13 OF 16.

SHEET NUMBER		DESIGNED	K. BRAUNER	CHECKED	C. PORTER	PARISH	STATE	PROJECT
		DRAWN	K. BRAUNER	DATE	JAN. 2011	FEDERAL PROJECT		
		CHECKED	K. BRAUNER	DATE	JAN. 2011	STATE PROJECT		
		DATE		DATE		PROJECT		
		BY	K.M.B.	DATE				
02-13-17 UPDATED FOR 2016 SPECIFICATIONS								
REVISION DESCRIPTION								
NO.								

GROUND MOUNTED CANTILEVER (STEEL)

BD.2.7.1.0.9 - OVERHEAD TRAFFIC SIGNS

GROUND MOUNTED [⊕] CANTILEVER DESIGN TABLE				
WIND SPEED	GROUP NO.	CAMBER A	CAMBER B	MAX. SIGN AREA
90 MPH	1	2 1/8"	3/4"	300 SQ.FT.
110 MPH	2	1 7/8"	5/8"	300 SQ.FT.
130 MPH	3	1 13/16"	5/8"	300 SQ.FT.

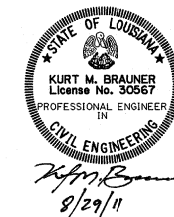
GROUND MOUNTED CANTILEVER MEMBER SIZES					
MEMBER DIAMETER (IN.) X MEMBER THICKNESS (IN.)					
GROUP NO.	POSTS	CHORDS	TRUSS STRUTS	TRUSS DIAGONALS	INTERIOR DIAGONALS
1	24.0 X 0.375	2.875 X 0.203	2.875 X 0.203	2.875 X 0.203	2.375 X 0.154
2	24.0 X 0.50	3.5 X 0.216	2.875 X 0.203	2.875 X 0.203	2.375 X 0.154
3	24.0 X 0.562	4.5 X 0.237	2.875 X 0.203	2.875 X 0.203	2.375 X 0.154

STRUCTURE MOUNTED [⊠] CANTILEVER DESIGN TABLE				
WIND SPEED	GROUP NO.	CAMBER A	CAMBER B	MAX. SIGN AREA
90 MPH	1	6"	3 3/4"	250 SQ.FT.
110 MPH	2	6"	3 3/4"	250 SQ.FT.
130 MPH	3	6"	3 3/4"	200 SQ.FT.

STRUCTURE MOUNTED CANTILEVER MEMBER SIZES							
MEMBER DIAMETER (IN.) X MEMBER THICKNESS (IN.)							
GROUP NO.	POSTS	CHORDS	TRUSS STRUTS	TRUSS DIAGONALS	INTERIOR DIAGONALS	POST STRUTS	POST DIAGONALS
1	12.75 X 0.375	5.563 X 0.258	2.875 X 0.203	2.875 X 0.203	2.375 X 0.154	6.625 X 0.280	6.625 X 0.280
2	14.00 X 0.50	5.563 X 0.375	2.875 X 0.203	2.875 X 0.203	2.875 X 0.203	6.625 X 0.432	6.625 X 0.432
3	14.00 X 0.50	5.563 X 0.375	2.875 X 0.203	2.875 X 0.203	2.875 X 0.203	6.625 X 0.562	6.625 X 0.562

HOW TO USE TABLES:

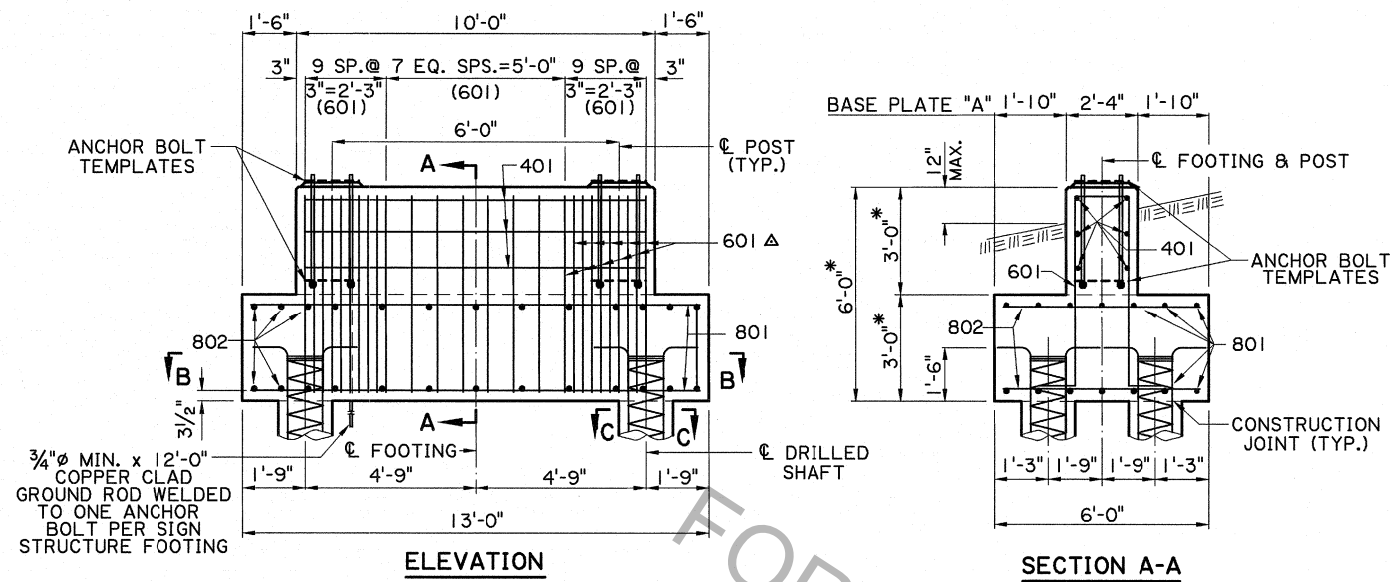
1. DETERMINE IF CANTILEVER IS GROUND MOUNTED OR STRUCTURE MOUNTED.
2. FIND WIND VELOCITY USING WIND MAP ON GENERAL NOTES SHEET (SHT. NO. 1 OF 16) AND CHOOSE APPROPRIATE ROW IN TABLE.
3. VERIFY THAT THE PROPOSED SIGN AREA DOES NOT EXCEED THE MAXIMUM ALLOWABLE AREA.
4. FIND CORRESPONDING GROUP NUMBER IN THE APPROPRIATE "CANTILEVER MEMBER SIZES" TABLE AND APPLY MEMBER SIZES ACCORDINGLY. FILL IN THE "CANTILEVER DATA TABLE" WITH THE APPROPRIATE DESIGN INFORMATION. (SHT NO. 12 OF 16)



NOTES:

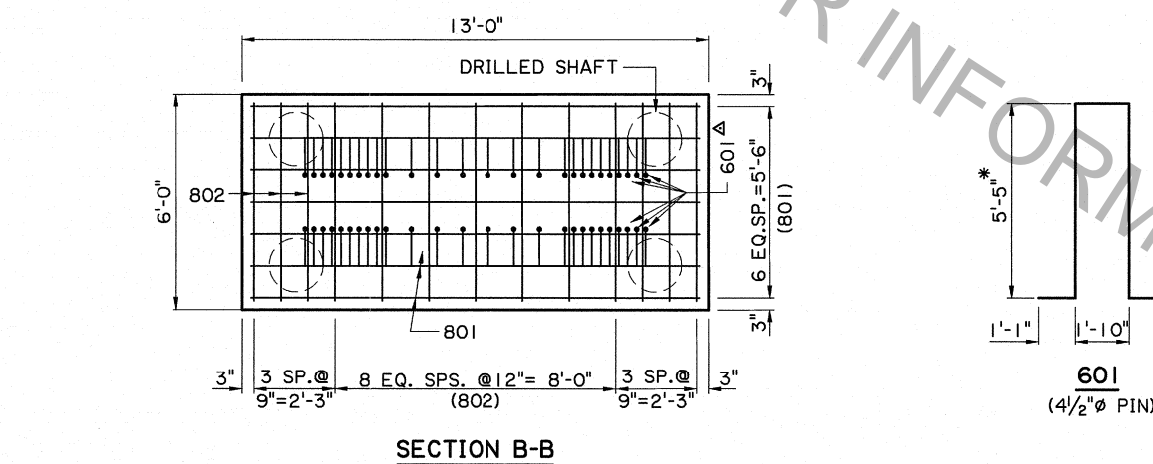
- ALL MEMBERS LISTED IN THE CANTILEVER MEMBER SIZES TABLE SHALL BE STEEL PIPE OR TUBE AND SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 42 KSI.
- TUBE OR A.N.S.I. PIPE SECTIONS PROVIDING EQUAL OR GREATER STRENGTH THAN ANY MEMBER DESIGNATED IN THE TABLE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ALL DESIGNS MUST BE CONFIRMED ON THE FABRICATION DRAWINGS AND APPROVED BY LA DOTD BEFORE FABRICATION IS INITIATED.
- THE CAMBER VALUES LISTED IN THE TABLES ARE THEORETICAL VALUES ONLY. THE CONTRACTOR SHALL ENSURE THAT AFTER ERECTION OF THE SIGN TRUSS AND INSTALLATION OF THE SIGN PANELS, THE TRUSS SPAN DOES NOT DEFLECT BELOW HORIZONTAL.
- ⊕ A DESIGN REQUEST MUST BE SUBMITTED FOR ALL GROUND MOUNTED CANTILEVERS USED ON EMBANKMENTS ≥ 10 FT. HIGH.
- ⊠ A DESIGN REQUEST MUST BE SUBMITTED FOR ALL STRUCTURE MOUNTED CANTILEVERS WHOSE SIGN CENTERS ARE MORE THAN 50 FT. ABOVE THE SURROUNDING GROUNDLINE.

SHEET NUMBER	
DESIGNED	K. BRAUNER
CHECKED	C. PORTER
DATE	JAN. 2011
SHEET	11 OF 16
PARISH	
FEDERAL PROJECT	
STATE PROJECT	
REVISION DESCRIPTION	
NO.	
DATE	
BY	
CANTILEVER DESIGN TABLES (STEEL)	
BD.2.7.1.0.11 - OVERHEAD TRAFFIC SIGNS	
BRIDGE AND STRUCTURAL DESIGN	



ELEVATION

SECTION A-A

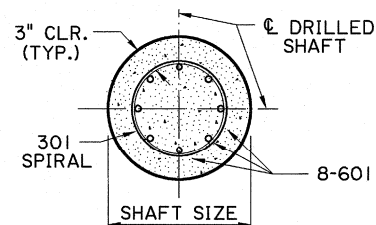


SECTION B-B

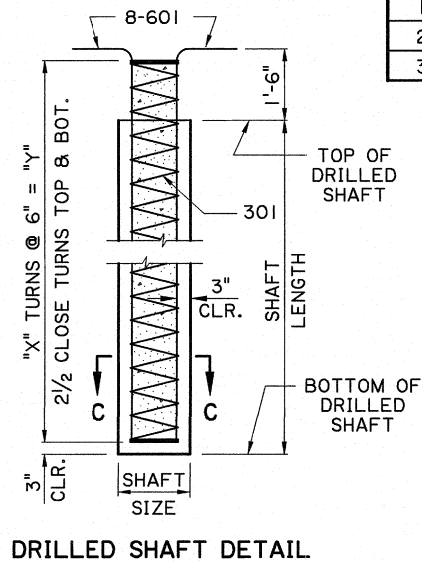
SECTION C-C

DRILLED SHAFT FOOTING "A"
(OVERHEAD SIGN TRUSS)

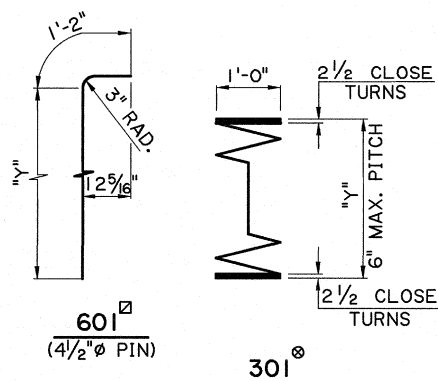
DRILLED SHAFT DATA TABLE (FOOTING "A")				
WIND ZONE	SHAFT SIZE (IN.)	SHAFT LENGTH (FT.)	X	Y (FT.)
1	18	30	62	31
2	18	35	72	36
3	18	60	122	61



SECTION C-C



DRILLED SHAFT DETAIL



601
(4 1/2" Ø PIN)

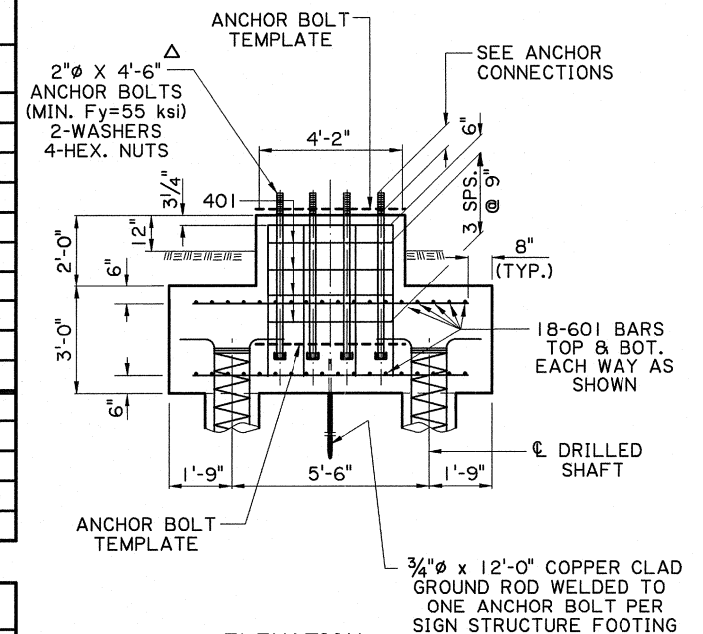
NOTES:

- THIS DRILLED SHAFT ALTERNATE IS ALLOWED IN LIEU OF TIMBER PILES AND IS A SUPPLEMENT TO PLAN SHEET NO. 8 OF 16.
- FOR ANCHOR BOLT DETAILS, SEE TYPE II TRUSS & CANTILEVER DETAILS AND THE GENERAL NOTES.
- ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)
- * THESE DIMENSIONS MAY VARY ± ONE FOOT TO ADJUST ELEVATION FOR SITE ADJUST 401 & 601 BARS ACCORDINGLY.
- ▲ NO. 601 BARS MAY BE MOVED TO CLEAR TRUSS ANCHOR BOLTS.
- ⊖ WIND ZONE 2 ASSUMED FOR SHAFT QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE DRILLED SHAFT DATA TABLES.
- ⊘ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 2'-9".
- ⊙ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 1 1/2 TURNS.

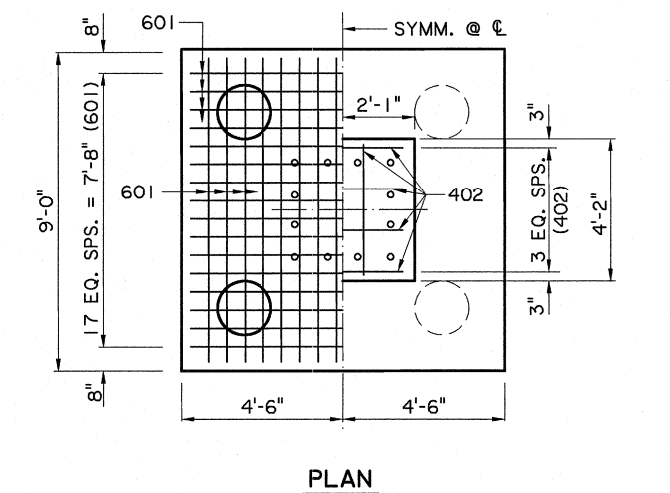
ESTIMATED QUANTITIES (DRILLED SHAFT FOOTING "A")				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	14	12'-6"	175'-0"	FOOTING
802	26	5'-6"	143'-0"	FOOTING
TOTAL NO. 8 BARS = 318'-0"			=	849 LBS.
601	26	14'-10"	385'-8"	STIRRUPS IN FOOTING & PED.
TOTAL NO. 6 BARS = 385'-8"			=	579 LBS.
401	6	9'-6"	57'-0"	PEDESTAL
TOTAL NO. 4 BARS = 57'-0"			=	38 LBS.
TOTAL DEFORMED REINFORCING STEEL =				1466 LBS.
TOTAL CLASS A1 CONCRETE =				11.26 CU.YDS.
STRUCTURAL EXCAVATION =				40.0 CU.YDS.
STRUCTURAL STEEL =				(SEE ANCHOR BOLT DETAILS)
DRILLED SHAFT =				140 LIN. FT.

ESTIMATED QUANTITIES (CANTILEVER SIGN TRUSS ; ONE FOOTING)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	72	7'-8"	552'-0"	FOOTING
TOTAL NO. 6 BARS = 552'-0"			=	829 LBS.
401	4	15'-6"	62'-0"	STIRRUPS IN FOOTING & PED.
402	6	14'-0"	84'-0"	STIRRUPS IN FOOTING & PED.
TOTAL NO. 4 BARS = 146'-0"			=	98 LBS.
TOTAL DEFORMED REINFORCING STEEL =				927 LBS.
TOTAL CLASS A1 CONCRETE =				10.29 CU.YDS.
STRUCTURAL EXCAVATION =				34.7 CU.YDS.
STRUCTURAL STEEL =				(SEE ANCHOR BOLT DETAILS)
DRILLED SHAFT =				120 LIN.FT.

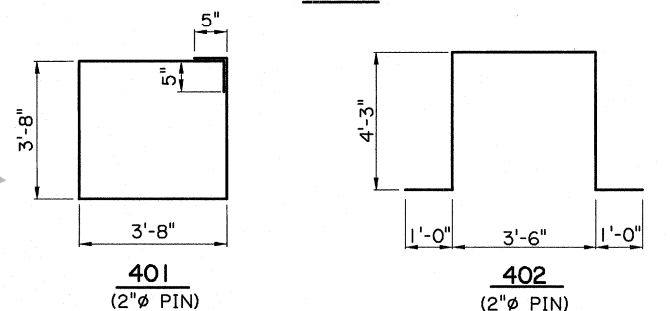
ESTIMATED QUANTITIES (ONE DRILLED SHAFT ; L = 35'-0")				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	8	37'-2"	297'-4"	DRILLED SHAFT
TOTAL NO. 6 BARS = 297'-4"			=	447 LBS.
301	1	237'-3"	237'-3"	SPIRAL
TOTAL NO. 3 BARS = 237'-3"			=	89 LBS.
TOTAL DEFORMED REINFORCING STEEL =				536 LBS.
TOTAL CLASS S CONCRETE =				2.29 CU.YDS.



ELEVATION



PLAN

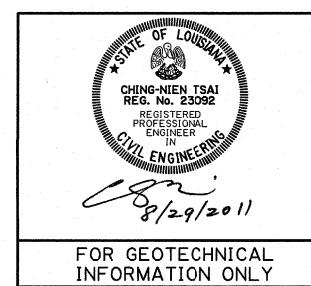


401
(2" Ø PIN)

402
(2" Ø PIN)

DRILLED SHAFT CANTILEVER FOOTING

DRILLED SHAFT DATA TABLE (CANTILEVER FOOTING)				
WIND ZONE	SHAFT SIZE (IN.)	SHAFT LENGTH (FT.)	X	Y (FT.)
1	18	30	62	31
2	18	30	62	31
3	18	60	122	61



SHEET NUMBER: []

DESIGNED BY: K. BRAUNER
CHECKED BY: C. PORTER

DATE: JAN. 2011

PROJECT: 02-13-17 UPDATED FOR 2016 SPECIFICATIONS

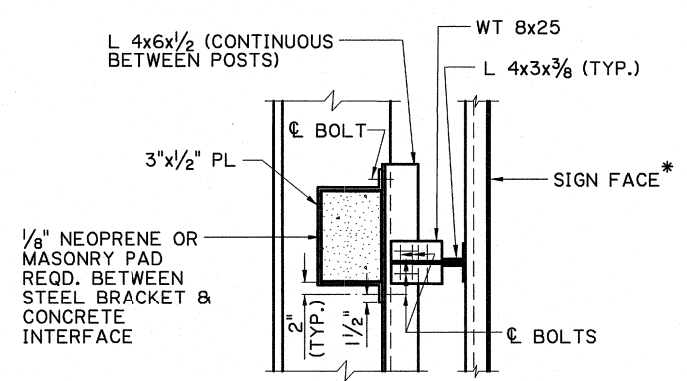
REVISION DESCRIPTION: []

BY: K.M.B.

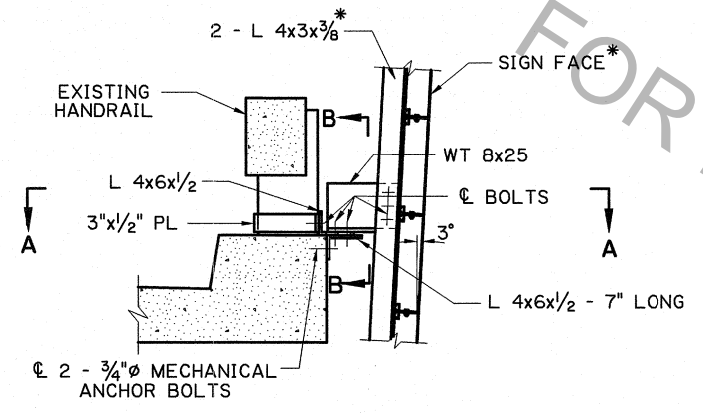
DRILLED SHAFT FOOTING ALT.

BRIDGE AND STRUCTURAL DESIGN

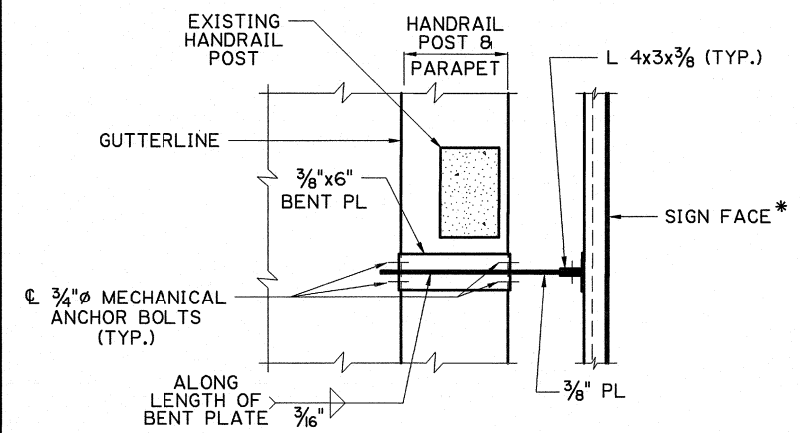
SHEET NUMBER	15 OF 16
DESIGNED BY	K. BRAUNER
CHECKED BY	P. FOSSIER
DATE	JAN. 2011
PROJECT	STATE PROJECT
REVISION DESCRIPTION	UPDATED FOR 2016 SPECIFICATIONS
DATE	02-13-17
NO.	0
BY	K.M.B.
PROJECT	BD-2.7.1.0.15 - OVERHEAD TRAFFIC SIGNS
PROJECT	FASCIA MOUNTED BRACKETS (STEEL)
PROJECT	BRIDGE AND STRUCTURAL DESIGN



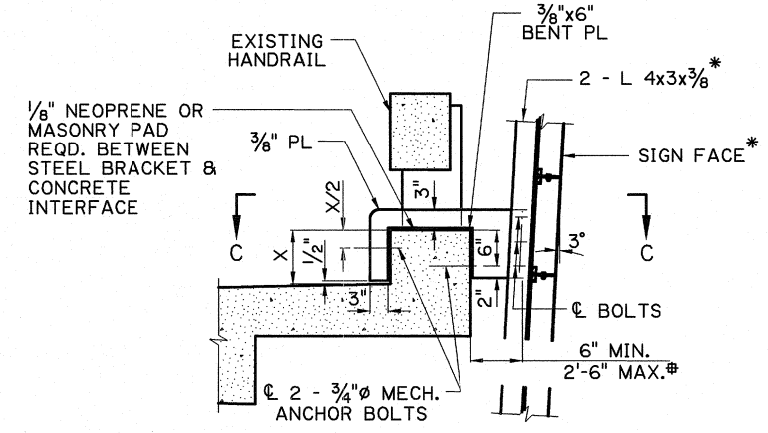
SECTION A-A



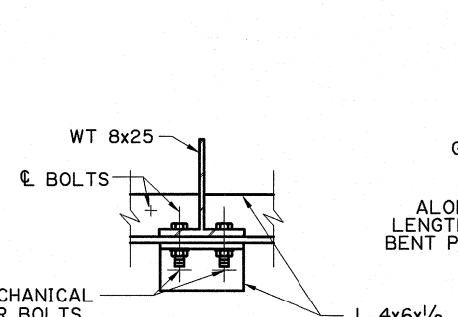
POST BRACKET



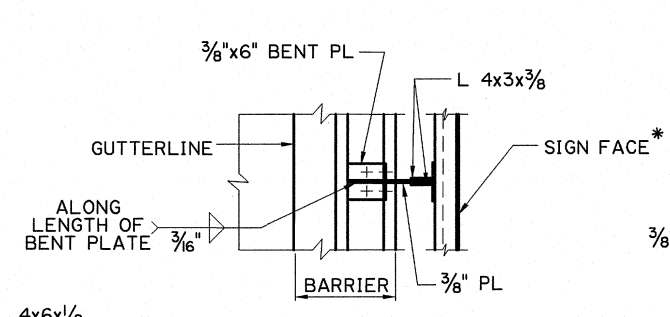
SECTION C-C



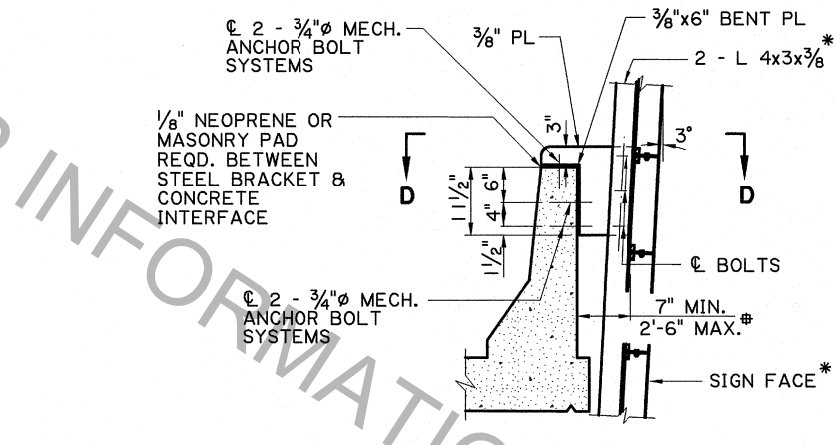
SIDEWALK BRACKET



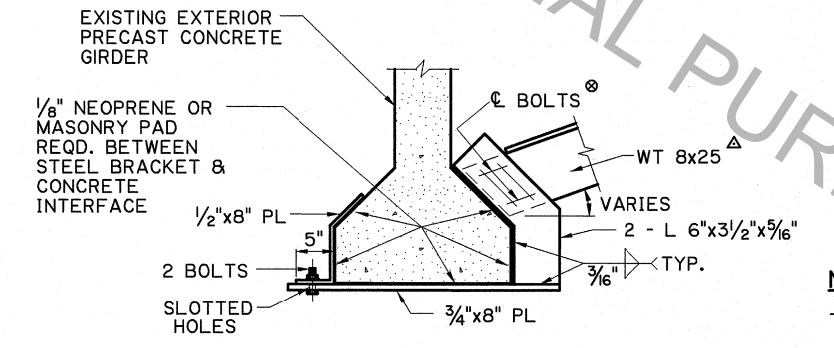
SECTION B-B



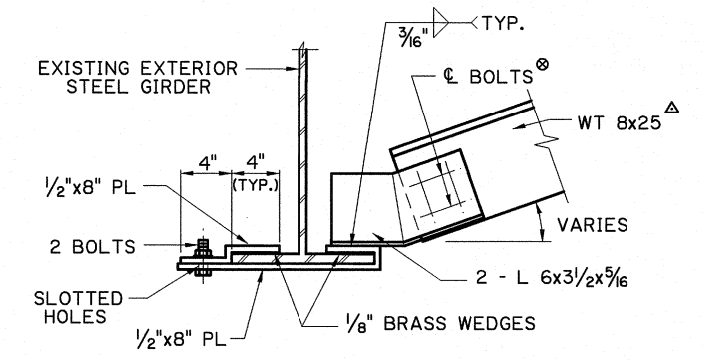
SECTION D-D



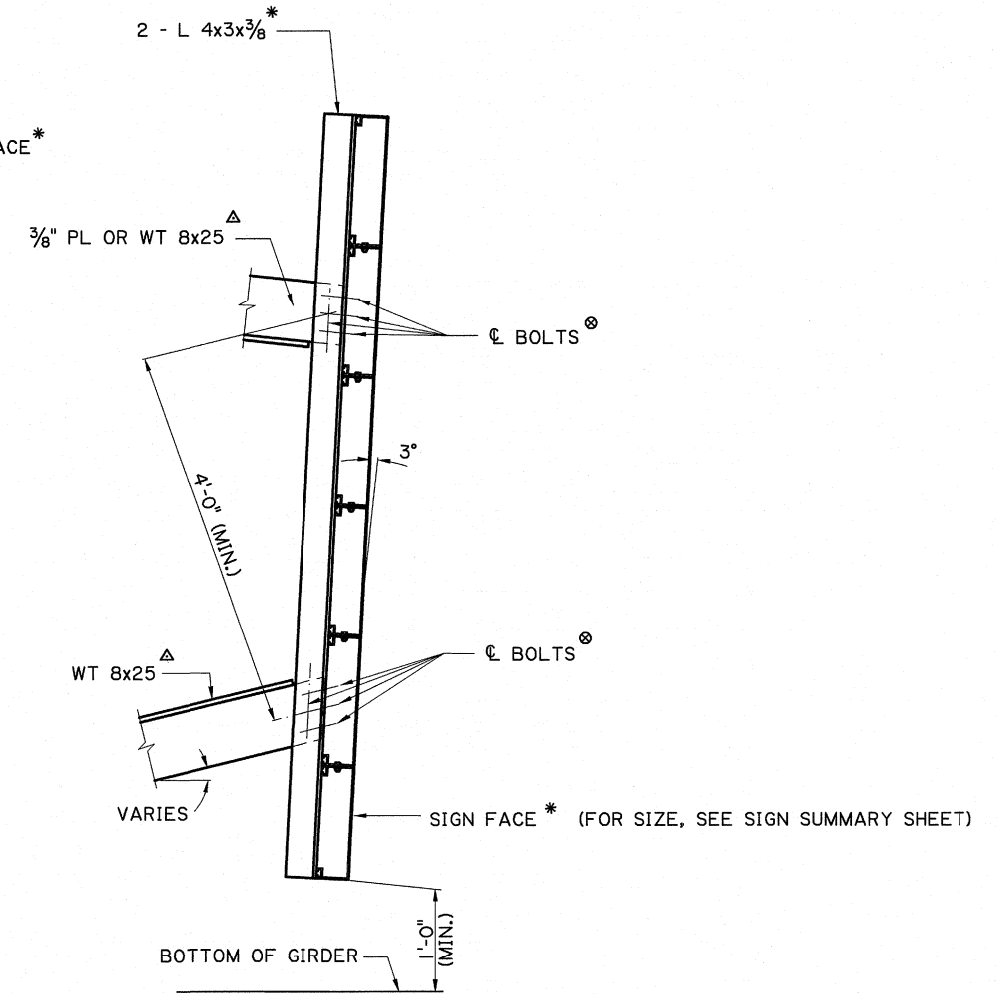
BARRIER RAIL BRACKET



PRESTRESSED CONCRETE GIRDER BRACKET

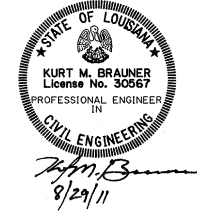


STEEL GIRDER BRACKET



ELEVATION

SIGN CONNECTION DETAIL



NOTES:

- THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTES
- ALL BRACKET MEMBERS SHALL BE STEEL (A-36), UNLESS OTHERWISE NOTED, BOLTS TO BE 3/4" ASTM A-325 AND BE GALVANIZED. BOLTS SHALL HAVE TWO (2) FLAT WASHERS, ONE (1) LOCK WASHER & ONE (1) HEX NUT, ALL GALVANIZED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH STA. SPECS. SUBSECTION 811.08.
- DIMENSIONS OF EXISTING BRIDGE MEMBERS TO BE OBTAINED IN FIELD PRIOR TO FABRICATION OF MOUNTING BRACKET BY THE CONTRACTOR AND ADJUSTED AS DIRECTED BY THE PROJECT ENGINEER.
- NUMBER OF POST, CURB OR GIRDER BRACKETS REQUIRED SHALL BE DETERMINED IN THE FIELD (WITH TWO (2) EACH MIN.) FOR EACH SIGN LOCATION, AS DIRECTED BY THE PROJECT ENGINEER.
- UNLESS OTHERWISE NOTED, PAYMENT SHALL BE MADE UNDER ITEM 729-13-00100 "MOUNTING (BRIDGE FASCIA MOUNTED)" PER EACH.
- MECHANICAL ANCHOR SYSTEM SHALL BE FROM THE APPROVED MATERIALS LIST AND SHALL BE GALVANIZED.
- * PAYMENT TO BE UNDER ITEM 729-06-00100.
- ⊗ SLOT ONE HOLE AND FIELD DRILL THE OTHERS
- △ LENGTH VARIES.
- ⊕ WHEN DIMENSIONS EXCEED 2'-6", SEE SIDEWALK BARRIER RAIL BRACKET DETAIL, SHEET 16 OF 16.

