



J-81

PH & RESISTIVITY								
PROJECT NO.: H.000506								
SAMPLE	CSLM	LOCATION	CLASS	LL	PI	%silt	PH	RESTIST.
SPRD-1	3.518	25' RT.	A-4 (0)	00	NP	38	6.7	10036
SPRD-2	3.924	25' LT.	A-4 (0)	00	NP	37	7.4	12498

 DISTRICT 62 DESIGN	PH & RESISTIVITY		NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY	DESIGNED CHECKED MDM BAT	PARTN ST. TAMMANY	SHEET NUMBER 78
	LA 22 (DALWILL DR - US 190)		DETAIL CHECKED MDM BAT	CONTROL SECTION 261-06, 013-12	STATE PROJECT H.000506				

SHEET NUMBER 11	STATE PROJECT	H.000506	REVISION OR CHANGE ORDER DESCRIPTION	NO.	DATE	LA 22 DALWILL DR - US 190	BORINGS	DISTRICT 62 DESIGN DOTD
	CONTROL SECTION	261-06.013-12	DETAILED CHECKED					
	PAYON	ST. TAMMANY	DETAILED CHECKED					

ROADWAY DESIGN INFORMATION

Project No. (H.000506) Total Length: 576 Route: LA 22

CSLM	DIST/SIDE	PAVEMENT	BASE (1)	SUBBASE (2)	SUBBASE (3)	SHOULDER (1)	SHLDR BASE (1)	SHOULDER (3)	SHOULDER (4)
		DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
		WIDTH	WIDTH	WIDTH	WIDTH	WIDTH	WIDTH	WIDTH	WIDTH
		TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
3.81	CL	HMAC	0.00'-	48'	CONC	8.5'-	S-1	14.5'-	CURB
			8.5'			14.5'			
			12'-			12'-			
3.89	10' LT.	HMAC	0.00'-	40'	S-1	12'-			CURB
			12.00'			24'			
3.97	15' RT.	HMAC	0.00'-	48'	S-1	7.5'-	0.5'	8'	S-1
			7.5'			24'			24'

S-1 SLTY SHL LM

NOTE: Existing concrete rdwy is 20' wide with an exception of one section that runs from CSIM 3.77-3.84. This section was found to be approximately 30' in width.

DISTRICT LABORATORY ENGINEER
CLAY GOTTSCHALK
LICENSE NO. 32481
PROFESSIONAL ENGINEER
DATE 2-14-2018

J-82

CHECK PRINTS

R:\Project Folders\261-06 H.000506 LA 22 (Dalwill DR. - US 190) (TURNLANE WIDENING)\Design LA 22 (Dalwill Dr - US 190)\078 BD.2.7.2.01\Roadside Traffic

GENERAL NOTES - ROADSIDE TRAFFIC SIGNS

CONSTRUCTION SPECIFICATIONS: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: ASHTR TO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 1994 AND INTERIM SPECIFICATIONS.

STEEL: STEEL SHALL CONFORM TO A.S.T.M. A-709 GRADE 36, STEEL TUBING SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF A.S.T.M. DESIGNATION A-53 OR HOT-FORMED TUBING (A-501) OR PIPE (A-500) TYPE "B" OR "C", GRADE "B" OR COLD-FORMED TUBING (A-500) GRADE "B" OR "C", UNLESS OTHERWISE NOTED.

ALUMINUM: ALL ALUMINUM EXCEPT SIGN PANELS SHALL CONFORM TO ASTM B-621, B-309, OR B-429 ALLOY 6061-T6 UNLESS OTHERWISE NOTED. SIGN PANELS SHALL BE .080" THICK ALUMINUM CONFORMING TO ASTM B-209 ALLOY 5052-H36 OR 6061-T6.

CONCRETE AND REINFORCING STEEL: CONCRETE SHALL BE CLASS "M", UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL FABRICATION ARE OUT TO OUT OF BAR UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE CENTER TO CENTER OF BAR OR FACE OF CONCRETE TO CENTERLINE OF BAR. REINFORCING STEEL SHALL HAVE A MINIMUM COVERING OF 2" EXCEPT WHEN CONCRETE IS CAST AGAINST THE EARTH THEN THE COVERING WILL BE 3". ALL REINFORCING STEEL SHALL BE GRADE 60. THE FIRST DIMENSION OF REINFORCING BAR NUMBER INDICATES THE BAR SIZE. THE TOP EDGES OF THE FOOTING SHALL BE CHAMFERED 1/4".

CONCRETE FINISH: ALL PORTIONS OF THE FOOTINGS FOR CANTILEVERS AND TRUSSES ABOVE GROUNDLINE SHALL HAVE A FINISH IN ACCORDANCE WITH LOUISIANA SPECIFICATION 805.08.3.

WELDING: ALL WELDING SHALL CONFORM TO THE LA. STANDARD SPECIFICATIONS-SECTION 800 AND SUPPLEMENTAL SPECIFICATIONS.

GALVANIZING: ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-153. DAMAGE TO GALVANIZED SURFACES THAT ARE NOT TO BE ENCASED IN CONCRETE SHALL BE REPAIRED IN ACCORDANCE WITH LA. STANDARD SPECIFICATIONS SUBSECTION 811.08. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-153. ALL FIELD HOLES IN GALVANIZED MATERIAL SHALL BE TREATED WITH A COLD GALVANIZING COMPOUND FROM THE A.M.I.

BOLTS: UNLESS NOTED, ALL THREADED CONNECTIONS SHALL INCORPORATE A LOCKING DEVICE AND HAVE A MINIMUM OF 3 THREADS BEYOND THE NUT. ALL BOLTS SHALL BE HIGH STRENGTH BOLTS, A.S.T.M. A-325, UNLESS OTHERWISE NOTED. ANCHOR BOLTS SHALL CONFORM TO AASHTO M314, GRADE 85 (OR APPROVED EQUAL) AND BE HOT DIP GALVANIZED TO A.S.T.M. A-153. STAINLESS STEEL FOR BOLTS SHALL CONFORM TO A.S.T.M. DESIGNATION A-307 OR CLASS E TYPE 304 OR A-193 OR CLASS 2 TYPE 304 UNLESS OTHERWISE NOTED. STAINLESS STEEL NUTS SHALL CONFORM TO A.S.T.M. DESIGNATION A-194, GRADE 6, TYPE 304. ALUMINUM BOLTS SHALL CONFORM TO A.S.T.M. F-606 ALLOY 6061-T6 AND NUTS ARE A.S.T.M. F-606 ALLOY 6061-T6 OR 6062-T6. WHERE BOLTS ARE USED ON BEVELLED SURFACES, BEVELLED WASHERS SHALL BE PROVIDED TO GIVE FULL BEARING TO THE HEAD AND/OR THE NUT.

RIVETS: ALL RIVETS SHALL BE 1/2" DIAMETER BLEND RIVETS WITH POSITIVE MANDREL RETENTION. THE RIVET BODY AND MANDREL SHALL BE ALUMINUM WITH A 1/2" MAXIMUM DIAMETER DOME HEAD. THE RIVETS SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH = 875 LBS., AND CONFORM TO ASTM B-316 5052-H36.

BREAK-AWAY BASE: BASES FOR SIGNS LOCATED ADJACENT TO MORE THAN ONE ROADWAY (CAMP TERMINALS, INTERSECTIONS, ETC.) SHALL BE ORIENTED IN THE DIRECTION OF THE HIGHEST SPEED TRAFFIC. ALL MULTI-POST SIGNS WITH A DISTANCE BETWEEN POSTS OF 7'-0" CENTERS OR LESS SHALL HAVE BEVELLED BASE CONNECTION. BASE CONNECTIONS SHALL BE BRAPPED PRIOR TO POURING THE FOOTING, WITH MATERIAL SUFFICIENT TO PREVENT CONCRETE SPLATTER ON THE BREAK-AWAY BASE ASSEMBLY.

SIGN SHEETING: UNLESS OTHERWISE NOTED, ALL SIGN MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 1019 IN THE STANDARD SPECIFICATIONS. IN ORDER TO OBTAIN AN ACCEPTABLE COLOR MATCH BETWEEN MULTIPLE PANELS ON A SINGLE SIGN, ALL OF THE BACKGROUND SHEETING FOR ANY SINGLE SIGN SHALL BE THE MINIMUM WIDTH OF THE LARGEST PANEL AND SHALL COME FROM THE SAME LOT OR RUN NUMBER FROM THE SHEETING MANUFACTURER UNLESS OTHERWISE APPROVED IN WRITING. RETRO-REFLECTIVE SHEETING SHALL BE APPLIED TO ALL PANELS IN SUCH A MANNER THAT THERE ARE NO HORIZONTAL SPLICES.

OVERLAY PANELS: FULL SIGN OVERLAY PANELS SHALL BE IN ACCORDANCE WITH SECTION 728.03.3. PARTIAL SIGN OVERLAYS AND ALL SIGNS SHALL HAVE SIGNS AT ALL RIVETS. SIGNS SHALL BE AT LEAST .080" THICK AND SIZED SO THEY WILL NOT EXTEND BEYOND EDGE OF OVERLAY. RIVETS SHALL BE AS SPECIFIED ON THIS STANDARD DETAIL SHEET.

SIGN LOCATIONS: FOR GROUND MOUNTED SIGN INSTALLATIONS, THE ENGINEER MAY ADJUST THE TYPE D AND E SIGN LOCATIONS INDICATED ON THE PLANS. THIS WILL BE ALLOWED TO AVOID PLACEMENT IN DEEP DITCHES, STEEP BACKSLOPES, TREE LINES, AND ANY OTHER UNACCOUNTED FOR FIELD CONDITIONS AND TO PROVIDE BETTER MESSAGE PRESENTATION. ANY ADJUSTMENTS MUST BE WITH THE CONCURRENCE OF THE GEOMETRIC DESIGN ENGINEER.

SIGN TYPES: TYPE A = SMALL SIGN WITH ONE POST; TYPE B = CLUSTER ASSEMBLY OF TYPE A SIGNS; TYPE D = LARGE RECTANGULAR SIGN ADJACENT TO TRAFFIC MOUNTED WITH MULTIPLE POSTS; TYPE E = SECONDARY SIGN SUCH AS AN EXIT NUMBER PANEL ATTACHED TO A LARGE RECTANGULAR PRIMARY SIGN; DELINEATOR, WISPEST AND OBJECT MARKER SIGNS ARE NOT COVERED UNDER TRAFFIC SIGNS. SEE STANDARD PLAN 80-02.

MISCELLANEOUS: THE CONTRACTOR SHALL MARK THE DATE OF FABRICATION, SHEETING MANUFACTURER CODE, AND SIZE OF SIGN ON THE BACK OF EACH SIGN WITH AN APPROVED WEATHER RESISTANT PAINT STICK. MARK SHALL BE 2" MINIMUM HEIGHT ON MULTI-POST SIGNS. SEE DETAIL "A" SHEET 6 OF 11.

POST HOME SPLICE ON MULTI-POST SIGNS WITH ALL POSTS CONNECTED BY A SECONDARY SIGN SHALL BE LOCATED BELOW THE SECONDARY SIGN. STUB POST SHALL BE ASSEMBLED TO SIGN POST WITH FROUDED BOLTS AND ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES PRIOR TO SHIPMENT. POST SPLICE SLIP PLATE SHALL BE ASSEMBLED TO MINIMUM BOLT TENSION IN SHOP PRIOR TO SHIPMENT. SIGN POST SHALL BE SHIPPED TO JOB SITE ASSEMBLED WITH ALL HARDWARE REQUIRED IN PLACE AND SECURED. EXPOSED ENDS OF ALL PIPE SHALL BE CAPPED. USE OF SECTION'S PROVIDED EQUAL OR GREATER STRENGTH FOR ANY MEMBER DESIGNATED ON THE PLANS SHALL BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.

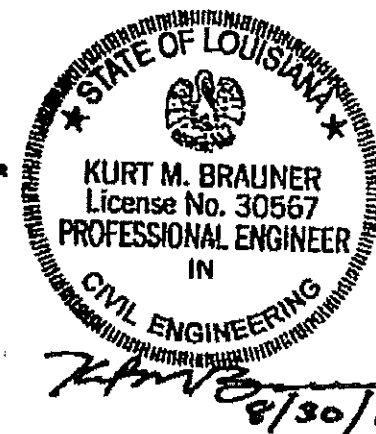
ALL DIMENSIONS REQUIRED FOR SATISFACTORY INSTALLATION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE FABRICATION. ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE ENGINEER.

ALL ALUMINUM SURFACES PLACED IN CONTACT WITH OR FASTENED TO UNGALVANIZED STEEL MEMBERS SHALL BE THOROUGHLY COATED WITH AN APPROVED ALUMINUM IMPREGNATED CAULKING COMPOUND. PAINT ALUMINUM SECTIONS IN CONTACT WITH CONCRETE WITH A HEAVY COAT OF AN ALKALI RESISTANT INTUMESCENT PAINT OR A COAT OF ZINC CHROMATE PAINT AND ALLOW TO DRY BEFORE PLACING.

TREE TRIMMING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MISCELLANEOUS BRUSH AND TREE TRIMMING TO ALLOW FOR FULL SIGN PRESENTATION AS DIRECTED BY THE PROJECT ENGINEER.

SHOP DRAWINGS: NOT REQUIRED FOR SIGN BACKS AND SMALL GROUND MOUNTED SIGN SUPPORTS, UNLESS FABRICATOR INTENDS TO DEVIATE FROM THE DETAILS HEREIN. SHOP DRAWINGS ARE REQUIRED FOR ALL STRUCTURE MOUNTED SIGNS.

ANCHOR BOLTS: ANCHOR BOLT NUTS TO BE TIGHTENED A MINIMUM ROTATION OF 240° (4/8) TURNS FROM THE SHOP TIGHT CONDITION.



WIND LOAD MAP

WIND VELOCITY	ROADSIDE MOUNTED	
	WIND VELOCITY (MPH)	WIND LOAD (PSF) Δ
70	70	80
80	80	87



Δ 20 YEAR MEAN RECURRENT INTERVAL
A INCLUDES G = 1.2

HEET	DESIGN STANDARD SHEET NO.	DESCRIPTION
1 OF 11	BD.2.7.2.01	CHECK WIND LOAD MAP AND GENERAL NOTES
2 OF 11	BD.2.7.2.02	PANEL DETAILS TYPE A AND B SIGNS
3 OF 11	BD.2.7.2.03	MOUNTING DETAILS TYPE A AND B SIGNS
4 OF 11	BD.2.7.2.04	PANEL AND MOUNTING DETAILS TYPE A AND B SIGNS
5 OF 11	BD.2.7.2.05	PANEL DETAILS TYPE D AND E SIGNS
6 OF 11	BD.2.7.2.06	EXTENDED ALUMINUM SIGNS TYPE D AND E SIGNS
7 OF 11	BD.2.7.2.07	EXTENDED ALUMINUM PANEL TYPE D AND E SIGNS
8 OF 11	BD.2.7.2.08	ROADSIDE MOUNTED SUPPORT DETAILS TYPE A, B AND D SIGNS
9 OF 11	BD.2.7.2.09	ROADSIDE MOUNTED SUPPORT DETAILS TYPE A AND B SIGNS
10 OF 11	BD.2.7.2.10	ROADSIDE MOUNTED SUPPORT DETAILS TYPE D SIGNS
11 OF 11	BD.2.7.2.11	ROADSIDE MOUNTED SUPPORT DETAILS TYPE D SIGNS

DOTD BRIDGE DESIGN	WIND LOAD MAP & GENERAL NOTES	BD.2.7.2.01 - ROADSIDE TRAFFIC SIGNS		REVISIONS	P. FOSSIER K. BRAUNER	PARISH	ST. TAMMANY
				K. BRAUNER B. ALLEN	CONTROL SECTION	261-06, 013-12	
				DATE	FEB. 2016	STATE PROJECT	H.000506
				NO. OF SHEETS	1 OF 11		

CD-1

78

SHEET NUMBER 79	STATE PROJECT H.000506	SERIES # 2 OF 11	DESIGNED BY A. ALLEN	DATE	NO.		BD.2.7.2.02 - ROADSIDE TRAFFIC SIGNS TYPE A & B SIGNS PANEL DETAILS	 DOT OLD BRIDGE DESIGN
			DETAILS BY E. DANIEL	DATE				
	SECTION 261-06, 013-12		OWNER A. ALLEN					
	PARISH ST. TAMMANY							

NOTES:
 NO BOLTS SHALL BE PLACED THROUGH FACE OF SIGN.
 ALL TRACK HEAD BOLTS HAVE HEADS IN THE STEPPER.
 TO FIT AND TRAFFIC LOAD TO BOLT IN THE STEPPER.
 STEPPERS SHALL BE ATTACHED EXTERIOR AS DETAIL.
 ON THIS SHEET UNLESS OTHERWISE NOTED.
 MOUNTING CLAMP REQUIRED AT EACH HORIZONTAL STEPPER.
 SIGN PANELS AND POSTS SHALL BE THE SIZE
 REQUIRED ON THE PLAN AND SUMMARY SHEET.
 SEE OTHER SHEETS FOR MOUNTING DETAILS.
 THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTE SHEET.



Kurt M. Brauner
 8/30/18

OCTAGON AND ROUTE MARKERS

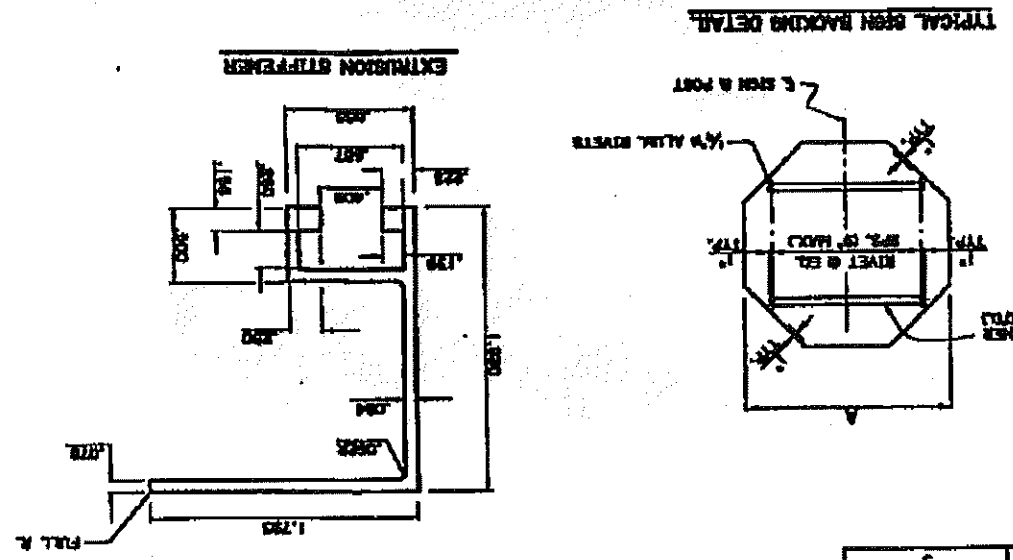
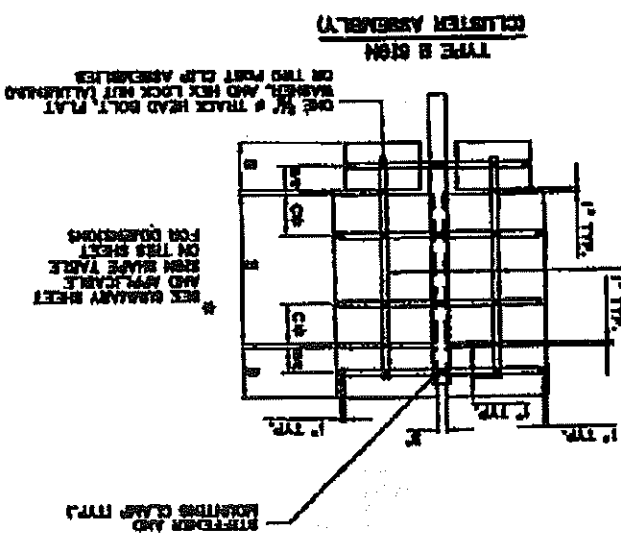
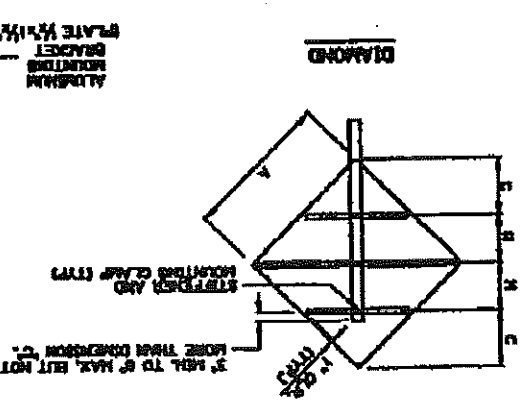
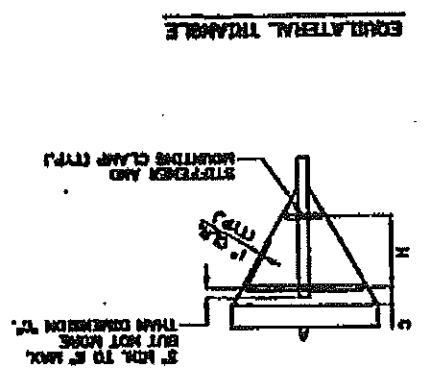
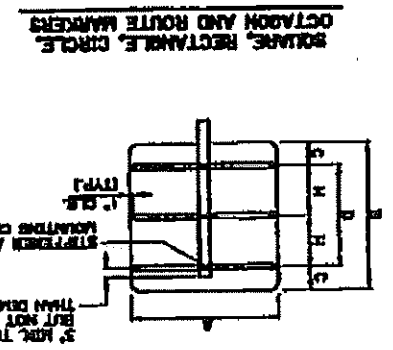
MARKER	VALUABLE	TO	QTY	MARKER	VALUABLE
A	12	6	1	12	6
B	18	9	1	18	9
C	30	15	2	30	15
D	48	24	2	48	24
E	60	30	3	60	30
F	72	36	3	72	36
G	84	42	4	84	42
H	96	48	4	96	48

EQUILATERAL TRIANGLE

MARKER	VALUABLE	TO	QTY	MARKER	VALUABLE
A	24	12	1	24	12
B	36	18	2	36	18
C	48	24	2	48	24
D	60	30	2	60	30

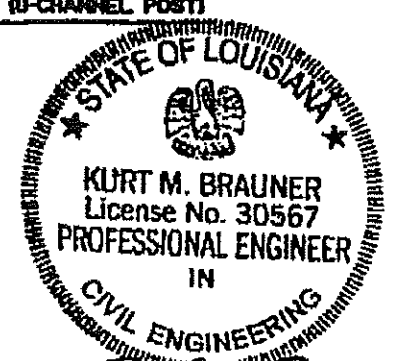
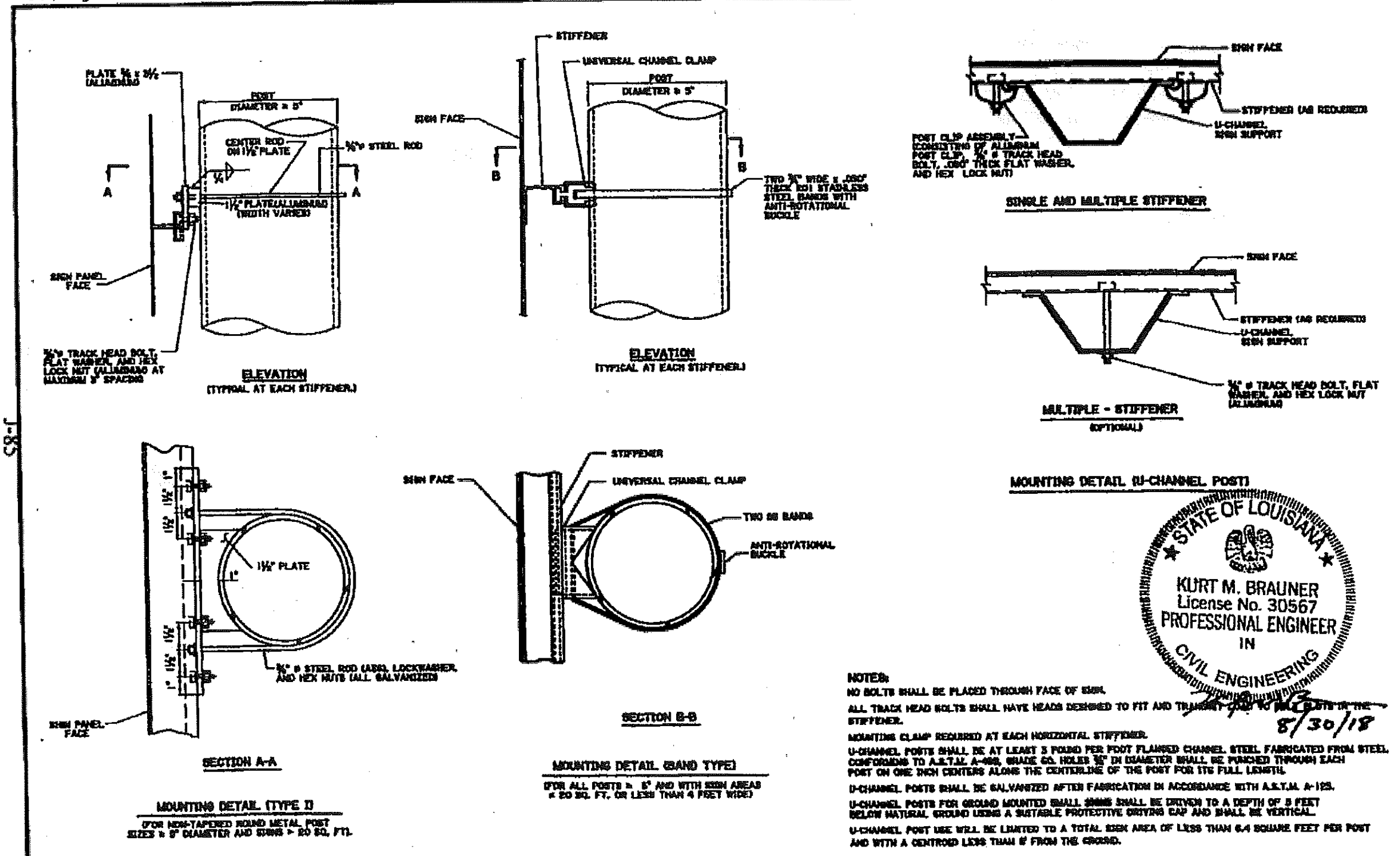
DIAMOND

MARKER	VALUABLE	TO	QTY	MARKER	VALUABLE
A	24	12	1	24	12
B	36	18	2	36	18
C	48	24	2	48	24
D	60	30	3	60	30



CHECK PRINTS

R:\Project Folders\261-06 H.000506 LA 22 (Dalwill DR. - US 190) (TURNLANE WIDENING)\Design LA 22 (Dalwill Dr - US 190)\080 BD.2.7.2.0.3\11\201\Roadside Traffic

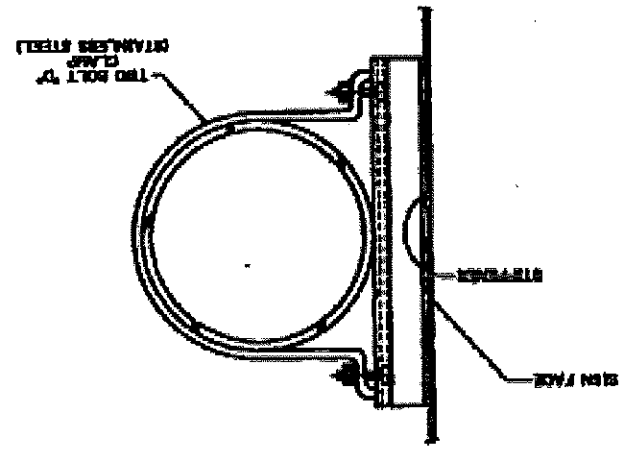
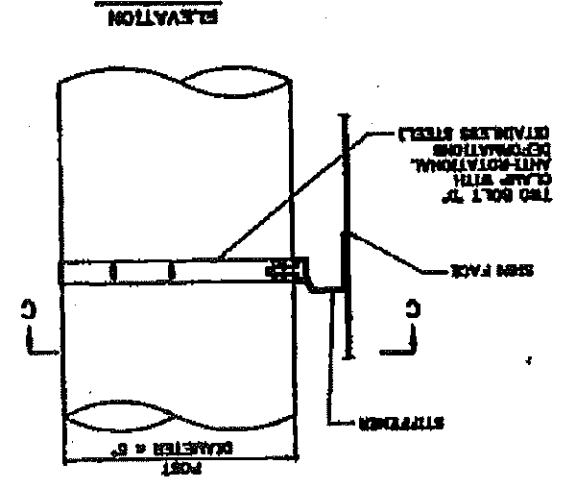
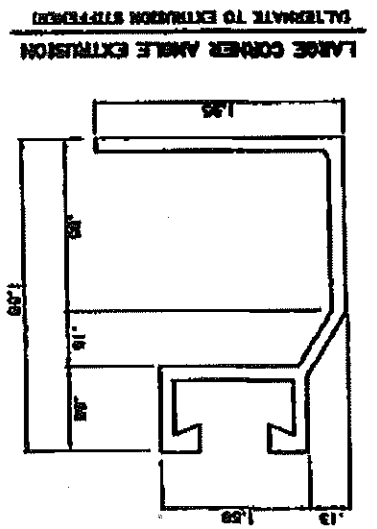
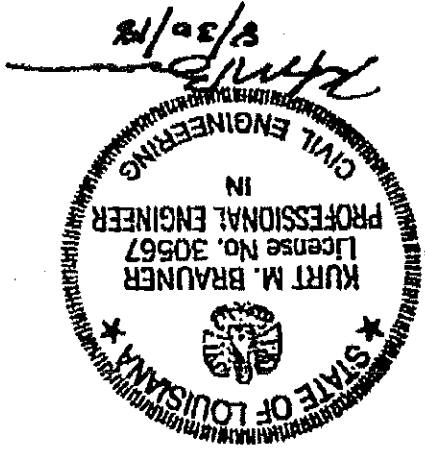


<p>DOTD BRIDGE DESIGN</p>	<p>MOUNTING DETAILS TYPE A & B SIGNS</p>		DESIGNED BY A. ALLEN	DRAWN BY E. DANIEL	PROJECT ST. TAMMANY
			CHECKED BY A. ALLEN	REVIEWED BY JAY BOOD	CONTROL SECTION 261-06, 013-12
			DATE 8 OF 11	STATE PROJECT H.000506	

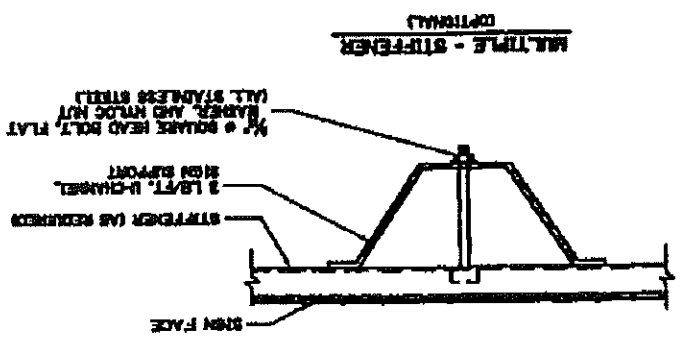
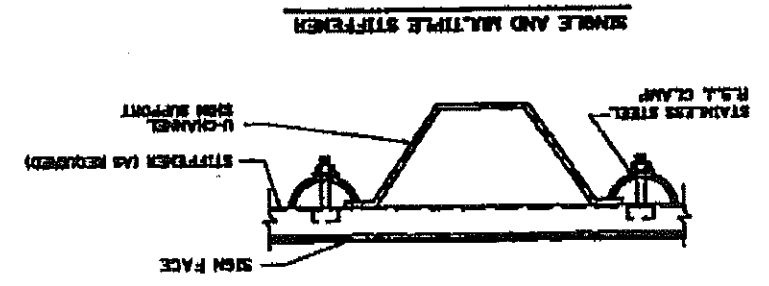
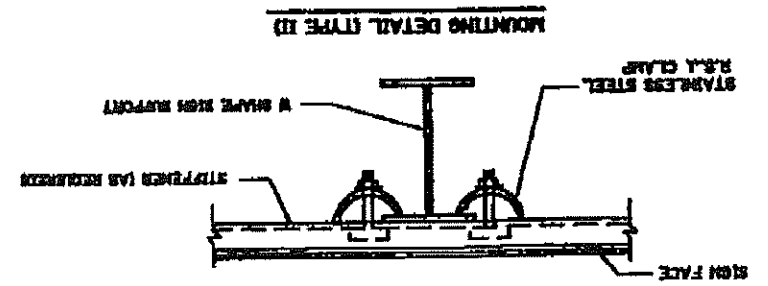
CHECK PRINTS

SHEET NUMBER 8	DESIGNER A. ALLEN	PROJECT H.000506	DOTD BRIDGE DESIGN
	CHECKED A. ALLEN	DATE 01-11-00	
	APPROVED E. DANIEL	PROJECT NUMBER 261-06, 013-12	
ST. TAMMANY		BD.2.7.2.0.4 - ROADSIDE TRAFFIC SIGNS	

NOTE:
ALL BOLTED ATTACHMENTS SHALL INCORPORATE 304-SS STAINLESS STEEL, 3/8" L-LOCK BOLTS, FLAT WASHERS, AND NUTS UNLESS OTHERWISE NOTED.
SQUARE HEAD BOLTS SHALL HAVE HEADS DIMENSIONED TO FIT AND TRANSMIT LOAD TO THE BOLT SLOTS IN THE STIFFENER.
FOR BACK-TO-BACK MOUNTING ON ALL ROUND METAL POSTS & 6" DIAMETER AND SHIMS & SO SQUARE FEET, USE EITHER:
(1) BACK-TO-BACK CHANNEL CLAMPS
(2) TWO 1/2" DIA. CLAMPS, STAINLESS, AND FACE IN OPPOSITE DIRECTIONS.
MOUNTING CLAMP REQUIRED AT EACH END OF EACH STIFFENER.
THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTE SHEET.



TYPE X & Y MOUNTING DETAIL
FOR ALL POSTS < 6" DIAMETER
AND SHIMS < 20 SQ. FT.

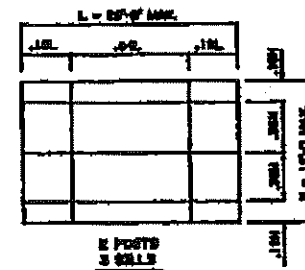
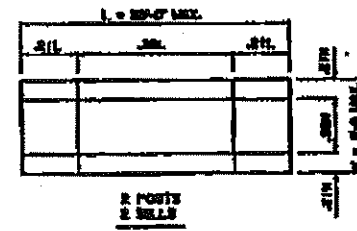
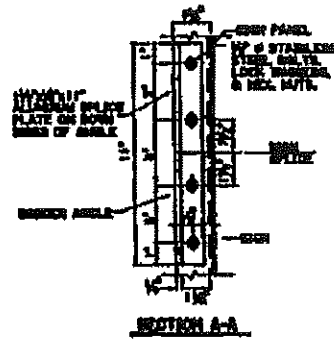
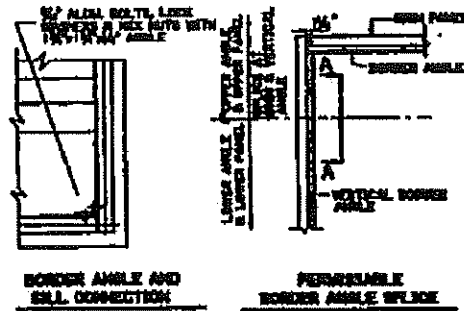
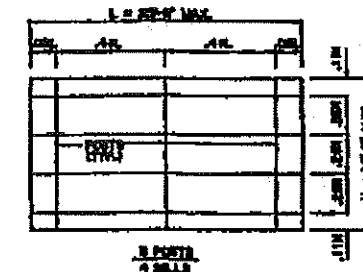
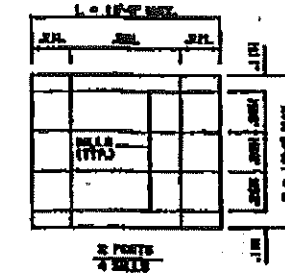
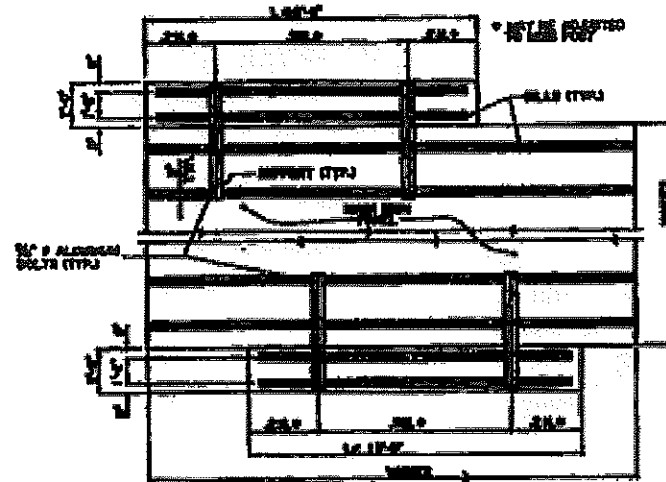
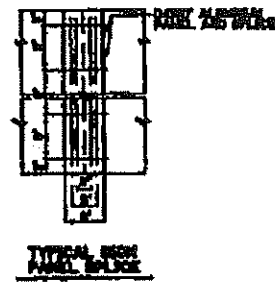
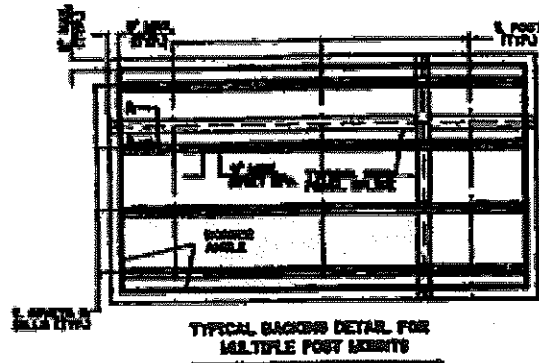


MOUNTING DETAIL (U-CHANNEL POST)

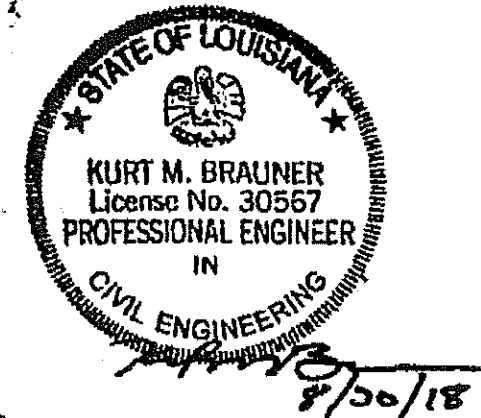
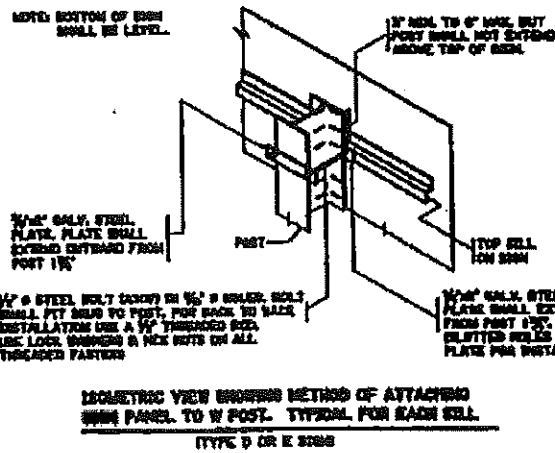
08-1

CHECK PRINTS

R:\Project Folders\261-06 H.000506 LA 22 (Dalwill DR. - US 190) (TURNLANE WIDENING)\Design LA 22 (Dalwill Dr - US 190)\082 BD.2.7 9/18/01 Roadside Traffic



SPACING OF POSTS AND BOLLS FOR GROUND MOUNTED SIGN INSTALLATIONS



NOTES:
SIGN PANEL WIDTH SHALL BE 1'-6".
SIGN PANELS ARE TO BE WITH VERTICAL SLANT DIMENSION 8'-0" OR GREATER SHALL HAVE BOLLON ANGLES.
BOLLON ANGLES SHALL BE 4" x 4" x 1/2" GALVANNEED BOLLON ANGLES SHALL BE PLACED AS CLOSE TO THE EDGE OF THE PANEL AS PRACTICAL WITH THE LONGER LEG EXTENDING OUTWARD FROM THE PANEL.
BOLLS AND SUPPORTS SHALL BE 2" x 2" x 1/4" ALUMINUM.
SPLICES SHALL HAVE A 2" x 2" WOODEN FITTER AND PLACED 2'-0" FROM THE END OF BOLL AND BOLLON ANGLES. SPLICE PLATES SHALL NOT EXTEND BEYOND PANEL BACKING MEMBER. THESE PANEL BACKING MEMBERS SHALL NOT BE CUT WITHIN 2'-0" OF THE PANEL SPLICE.
THIS SHEET TO BE USED WITH REVISION NOTES AND ROAD LAYOUT MAP SHEET.

	PANEL DETAILS TYPE D & E SIGNS		DESIGNED	J.C. PORTER	PARISH	ST. TAMMANY	SHEET
			CHECKED	D. HUVAL			
DOTD BRIDGE DESIGN	BD.2.7.2.0.5 - ROADSIDE TRAFFIC SIGNS		DETAILS	E. DANIEL	CONTROL SECTION	261-06, 013-12	82
			CHECKED	A. BRIDGES			
			REVISION	JULY 2000	STATE PROJECT	H.000506	
			DESIGNED BY	5 OF 11			

CHECK PRINTS

SHEET NUMBER 83	PROJECT ST. TAMMANY	DESIGNER P. FOSSIER	DATE 01-12-06	NO. 1	NO. OF SHEETS 1	PROJECT H.000506
	SECTION 261-06, 013-12	DATE 8/11/06	NO. 1	NO. OF SHEETS 1	PROJECT H.000506	
	DESIGNER G. GRASS	DATE 8/11/06	NO. 1	NO. OF SHEETS 1	PROJECT H.000506	

DOTD BRIDGE DESIGN
EXTRUDED ALUMINUM SIGNS
TYPE D & E SIGNS
BD.2.7.2.0.6 - ROADSIDE TRAFFIC SIGNS

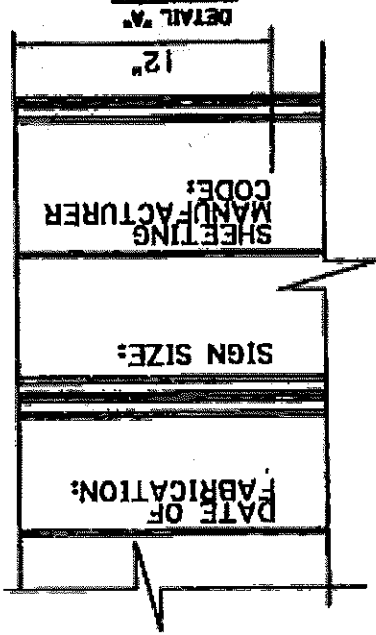
CIVIL ENGINEERING
IN
KURT M. BRAUNER
LICENSE NO. 30567
PROFESSIONAL ENGINEER
STATE OF LOUISIANA

8/30/18

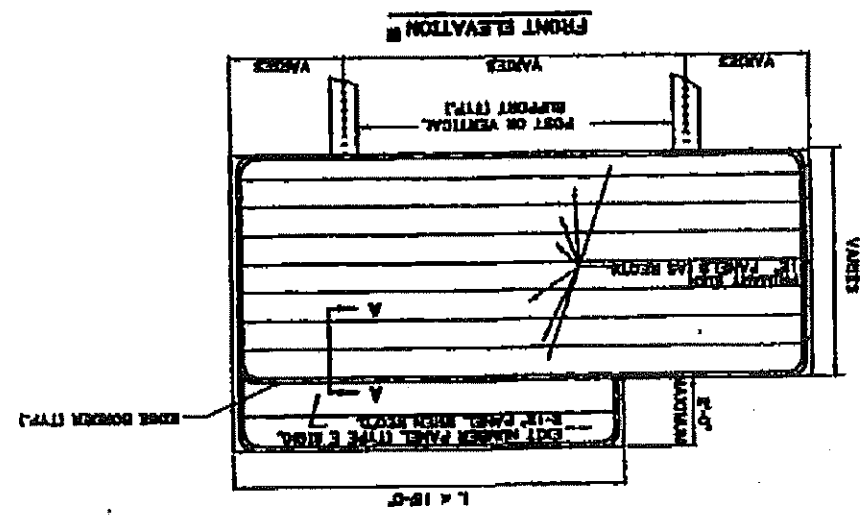
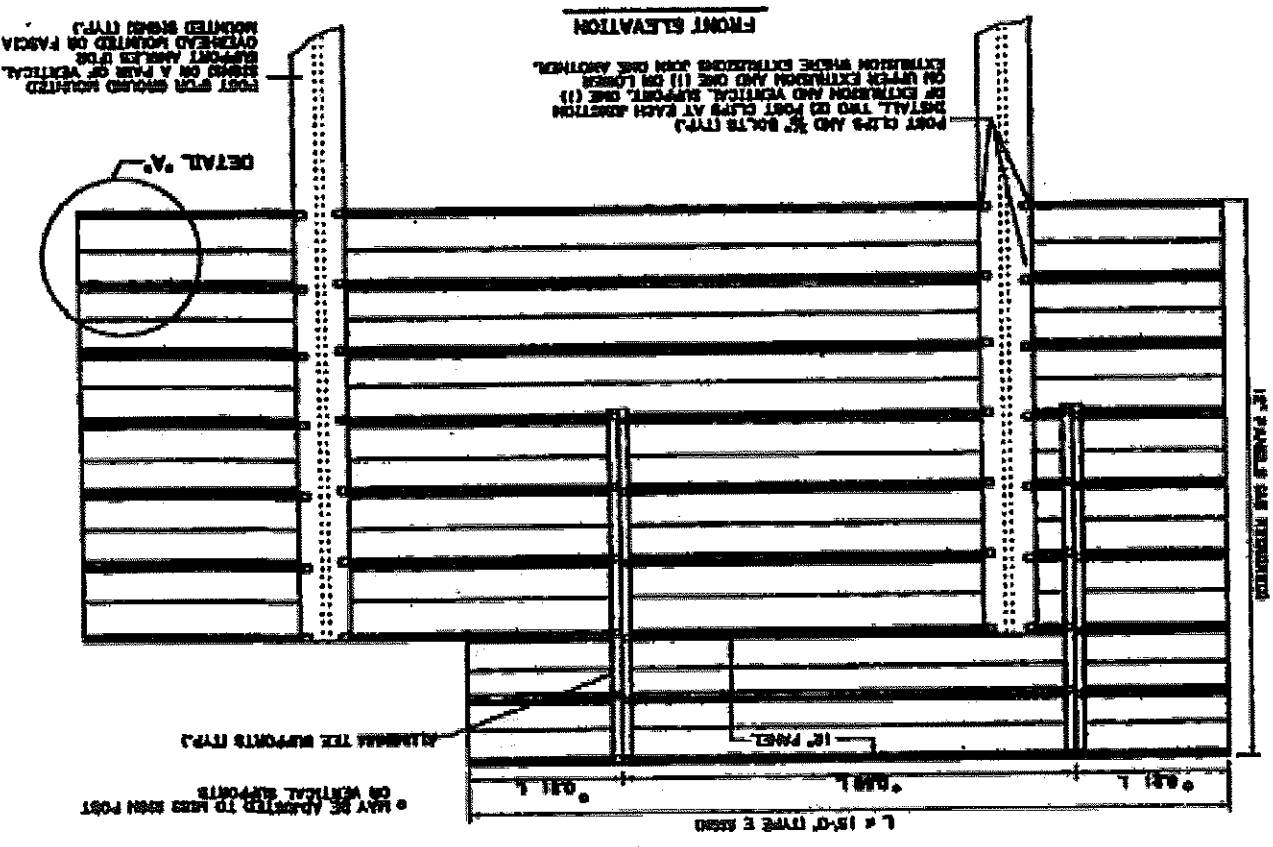
1. REFLECTIVE SHEETING FOR EXTRUDED PANELS ONLY SHALL BE PERMITTED A MAXIMUM OF TWO VERTICAL STRIPES ON EACH PANEL. DETAILS FOR TYPE 1P AND 1E SHOULD LOCATED SIGN SHEET NUMBER AND SPACING OF POST CLIPS SHALL BE ALLOWED AS SHOWN FROM PANEL DETAILS. ALL POST CLIPS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6.

NOTE:
1. EXTRUDED ALUMINUM PANELS WILL BE ALLOWED AS AN ALTERNATE TO SIGN PANEL DETAILS FOR TYPE 1P AND 1E SHOULD LOCATED SIGN SHEET NUMBER AND SPACING OF POST CLIPS SHALL BE ALLOWED AS SHOWN FROM PANEL DETAILS. ALL POST CLIPS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6. ALL EXTRUDED PANELS SHALL BE ALUMINUM ALLOY 6061-T6.

LETTERS IN LAST 12" OF SIGN, SEE INSTALLATION SHEET ON SEPARATE SHEET OF TRAFFIC SIGN DETAILS.



IF POSSIBLE LOWER LOCATED TYPE E SIGN NOT SHOWN, WHEN LOWER POINT IS REQUIRED, IT SHALL BE CENTERED BETWEEN THE EDGES OF THE MAIN SIGN.



88-1

CHECK PRINTS

SHEET NUMBER 58	PROJECT H.000506	DATE 11/1/00	DESIGNED BY L.C. PORTER	PROJECT NO. 261-06, 013-12	SCALE AS SHOWN	PROJECT TITLE RD. 2.7, 2.8 - ROADSIDE TRAFFIC SIGNS
	DESIGNED BY L.C. PORTER	CHECKED BY A. BRIDGES	DATE 11/1/00	PROJECT NO. 261-06, 013-12	SCALE AS SHOWN	PROJECT TITLE RD. 2.7, 2.8 - ROADSIDE TRAFFIC SIGNS

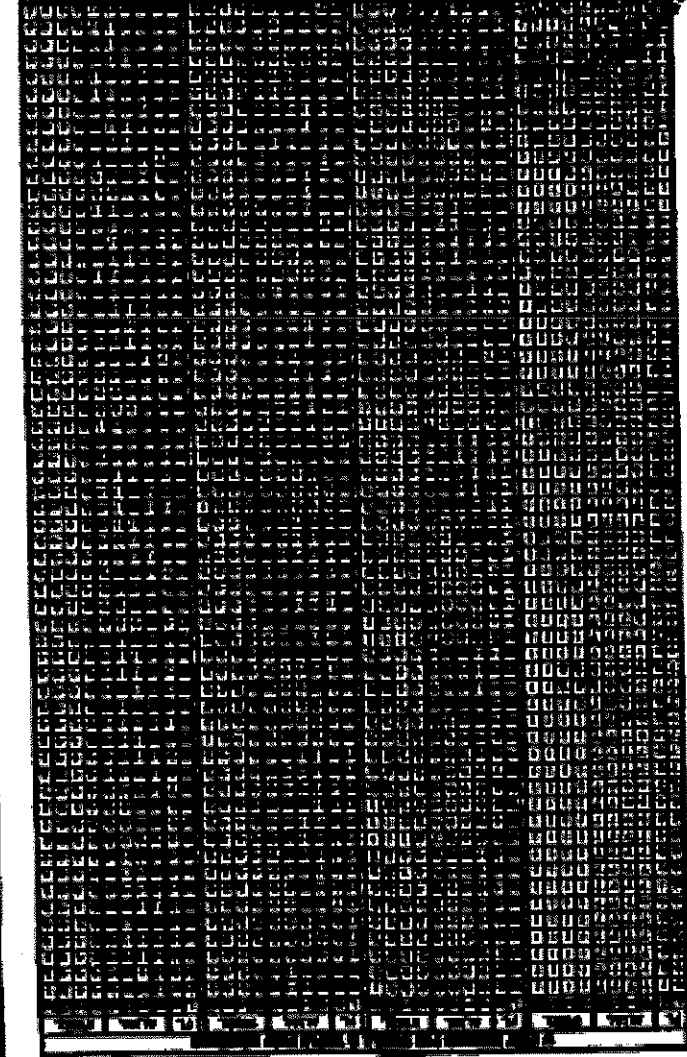


ROADSIDE MOUNTED
SUPPORT DETAILS
TYPE A, B, AND D SIGNS

NO.	REVISION	DATE
1	REVISED	11/1/00
2	REVISED	11/1/00
3	REVISED	11/1/00
4	REVISED	11/1/00
5	REVISED	11/1/00
6	REVISED	11/1/00
7	REVISED	11/1/00
8	REVISED	11/1/00
9	REVISED	11/1/00
10	REVISED	11/1/00
11	REVISED	11/1/00
12	REVISED	11/1/00

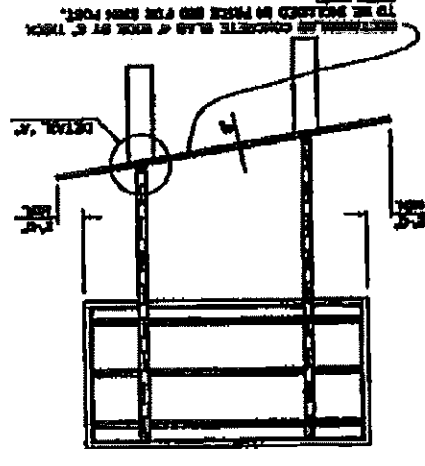
CIVIL ENGINEERING
IN
KURT M. BRAUNER
License No. 30567
PROFESSIONAL ENGINEER

Handwritten: 2/30/18

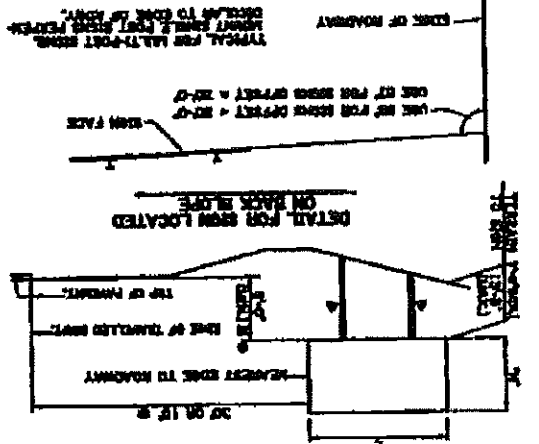
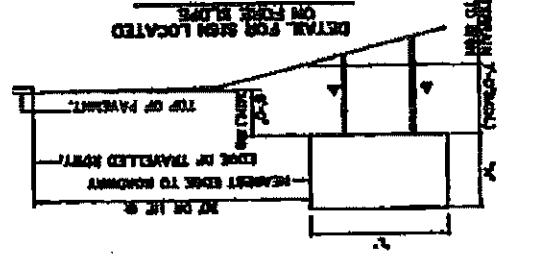
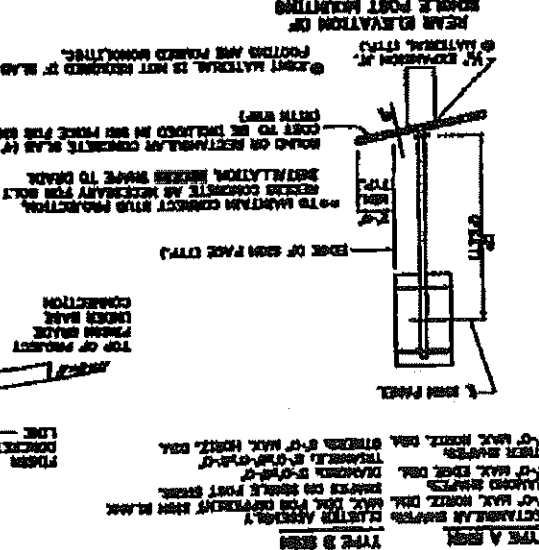
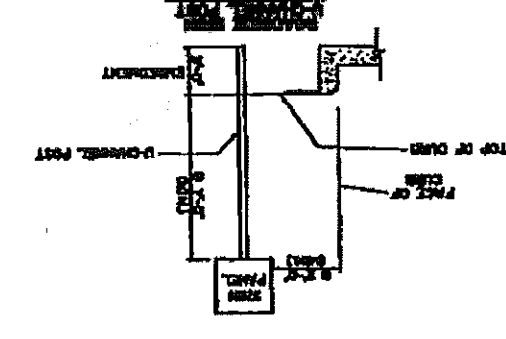
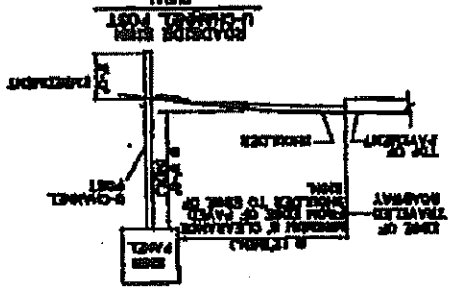


REAR ELEVATION OF
ROADSIDE SIGN
TO BE MOUNTED ON FACE OF SIGN POST.
CONCRETE SHALL BE 4" MIN. THICK
WITH 1/2" DIA. BARS @ 18" ON CENTER
VERTICALLY AND 12" ON CENTER
HORIZONTALLY. REINFORCEMENT
SHALL BE ENCASED IN 1" MIN. THICK
CONCRETE. SEE DETAIL 'A' FOR
REINFORCEMENT DETAILS. SEE
DETAIL 'B' FOR SIGN POST
DETAILS. SEE DETAIL 'C' FOR
SIGN POST FOUNDATION DETAILS.
SIGN POST SHALL BE MOUNTED ON
FACE OF SIGN POST. SEE
DETAIL 'A' FOR SIGN POST
DETAILS. SEE DETAIL 'B' FOR
SIGN POST FOUNDATION DETAILS.
SIGN POST SHALL BE MOUNTED ON
FACE OF SIGN POST. SEE
DETAIL 'A' FOR SIGN POST
DETAILS. SEE DETAIL 'B' FOR
SIGN POST FOUNDATION DETAILS.

NO.	REVISION	DATE
1	REVISED	11/1/00
2	REVISED	11/1/00
3	REVISED	11/1/00
4	REVISED	11/1/00
5	REVISED	11/1/00
6	REVISED	11/1/00
7	REVISED	11/1/00
8	REVISED	11/1/00
9	REVISED	11/1/00
10	REVISED	11/1/00
11	REVISED	11/1/00
12	REVISED	11/1/00



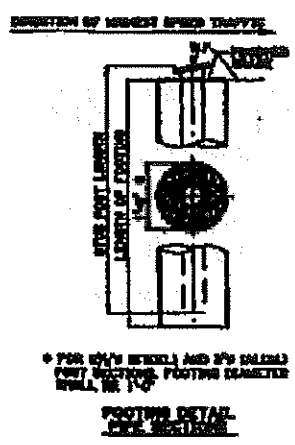
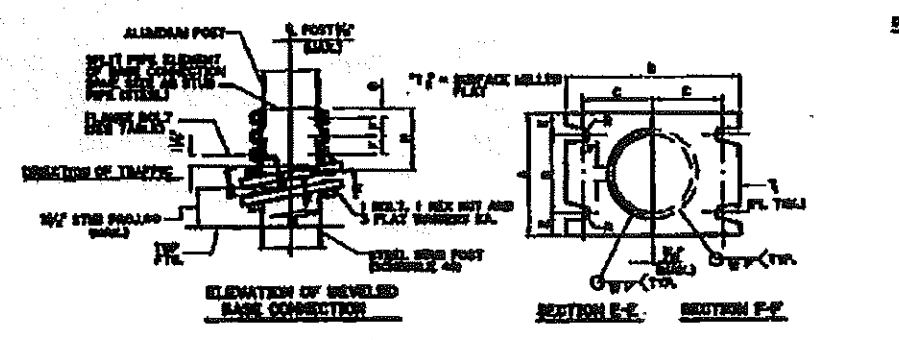
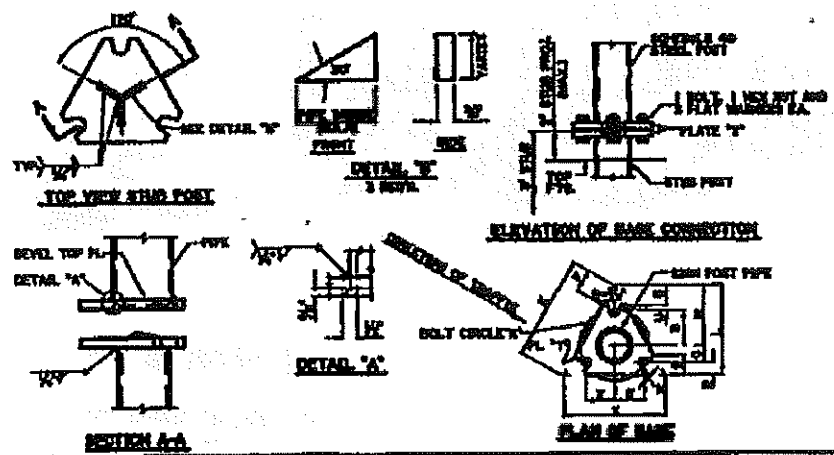
NO.	REVISION	DATE
1	REVISED	11/1/00
2	REVISED	11/1/00
3	REVISED	11/1/00
4	REVISED	11/1/00
5	REVISED	11/1/00
6	REVISED	11/1/00
7	REVISED	11/1/00
8	REVISED	11/1/00
9	REVISED	11/1/00
10	REVISED	11/1/00
11	REVISED	11/1/00
12	REVISED	11/1/00



06-1

CHECK PRINTS

R:\Project Folders\261-06 H.000506 LA 22 (Dalwill DR. - US 190) (TORNLANE WIDENING)\Design LA 22 (Dalwill Dr - US 190)\086 BD.2.7 SW/N/E01 Roadside Traffic



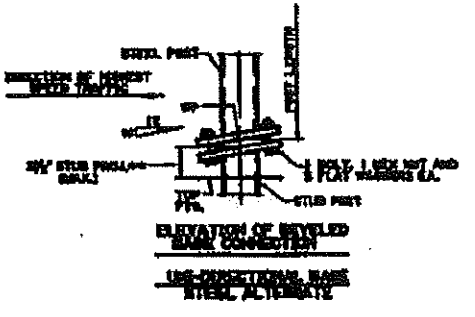
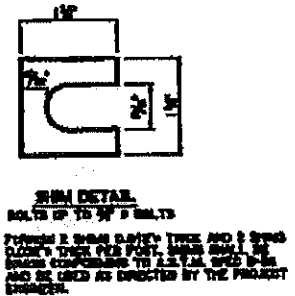
STEEL MULTI-DIRECTIONAL BASE CONNECTION DATA

POST	SECTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
STEEL	STEEL	10	12	16	18	24	30	36	42	48	54	60	66	72	78

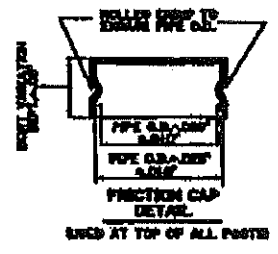
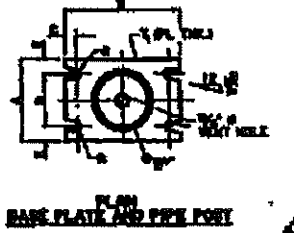
NOTE: MULTI-DIRECTIONAL BRACKET FEATURE IS TO BE USED ONLY AT LOCATIONS WHERE SIGN IS LIKELY TO BE STRUCK FROM MORE THAN ONE DIRECTION.



ORIENTATION AND USE OF SLOTS AND HOLES



TO MAINTAIN CORRECT SIGN PROJECTION, SETTING CONCRETE OR MORTAR FOR BOLT INSTALLATION SHOULD BE IN ACCORD TO CODE.



STEEL MULTI-DIRECTIONAL BASE CONNECTION DATA

TYPE POST	SECTION	MIN. POST DIA.	MIN. POST LENGTH	POST DIA.													
				4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"		
STEEL	STEEL	4" to 6"	10'	10	12	16	18	24	30	36	42	48	54	60	66	72	78
	ALUM.	4" to 6"	10'	10	12	16	18	24	30	36	42	48	54	60	66	72	78
ALUM.	STEEL	4" to 6"	10'	10	12	16	18	24	30	36	42	48	54	60	66	72	78
	ALUM.	4" to 6"	10'	10	12	16	18	24	30	36	42	48	54	60	66	72	78

ALL BOLTS SHALL HAVE A MINIMUM OF 3 THREADS BEYOND THE NUT. BOLT THREADS LENGTH IN EACH SECTION. THE HIGH STRENGTH BOLTS AT THE BASE CONNECTION SHOULD BE TORQUED WITHIN THE LIMITS SPECIFIED, HOWEVER, THE LOWER LIMIT IS OBSOLETE FOR HIGH-STRENGTH BOLT TORQUE LIMITS GIVEN IN THE STANDARD SPECIFICATIONS.

PREPARE FOR ASSEMBLY OF SIGN CONNECTIONS:
 SPECIAL CARE SHALL BE TAKEN TO SET THE BASE PLATE TO CORRECT POSITIONING BY SURVEYING ONLY (STRONG POINT METHOD) TO AVOID DISTURBING SIGNPOSTS. THE BRACKET SHALL BE TO BE PLACED IN POSITION ON THE DRAWING BEFORE BEING SET TO ALLOW FOR NORMAL SETTLEMENT.
 1. BASE SHALL BE ALIGNED AND SET PLAN BEFORE OR IMMEDIATELY AFTER FORMING CONCRETE FOOTING.
 2. ALL BOLTS IN BASE PLATE SHALL BE TIGHTENED TO THE SPECIFIED TORQUE. CARE SHALL BE TAKEN TO AVOID OVER-TIGHTENING.
 FRICTION CAPS:
 CAPS MAY BE MANUFACTURED FROM STEEL BUT SHALL BE BUILT UP WITH STEEL AND SHALL BE WELDED TO THE POST. THE WELDS SHALL BE FILLED WITH EPOXY RESIN. THE CAPS SHALL BE PLACED IN POSITION ON THE DRAWING BEFORE BEING SET TO ALLOW FOR NORMAL SETTLEMENT.
 THIS SHEET TO BE USED WITH 0840 LOAD MAP AND GENERAL NOTE SHEET.

STATE OF LOUISIANA
 KURT M. BRAUNER
 License No. 30567
 PROFESSIONAL ENGINEER
 IN
 CIVIL ENGINEERING
 8/30/18

R:\Project folders\261-06 H.000506 IA 22 (Datwall Dr. - US 190) (TURNLANE WIDENING)\Design IA 22 (Datwall Dr - US 190)\087 BD.2.757X\M\MD18 Roadside Traffic

CHECK PRINTS

ROADSIDE MOUNTED SUPPORT DETAILS
TYPE D SIGNS
BD.2.7.2.0.10 - ROADSIDE TRAFFIC SIGNS

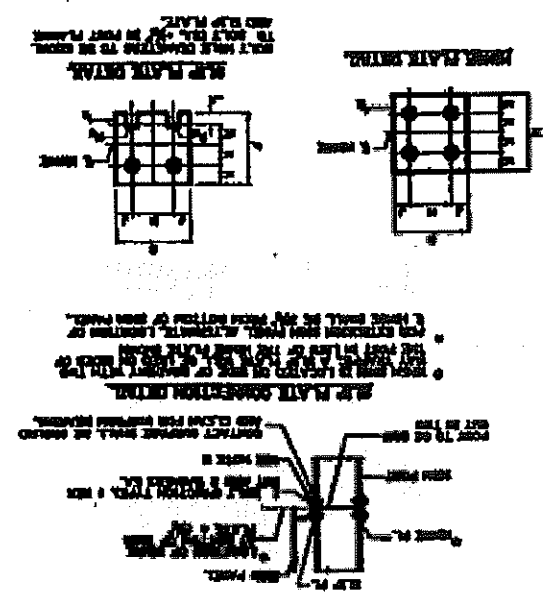
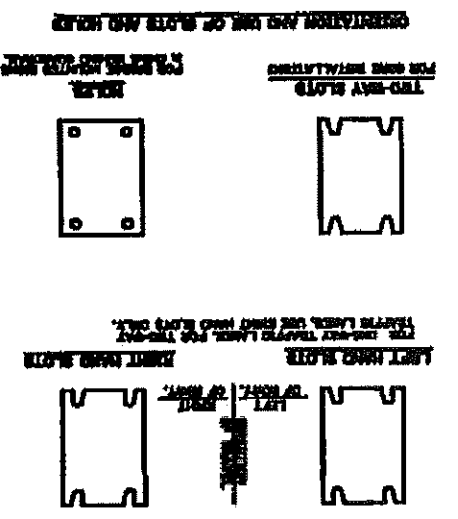
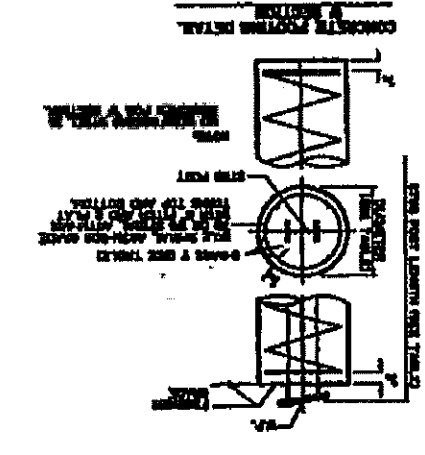
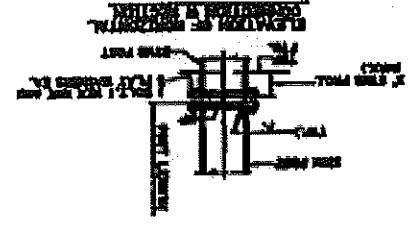
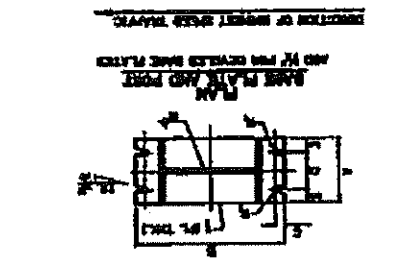
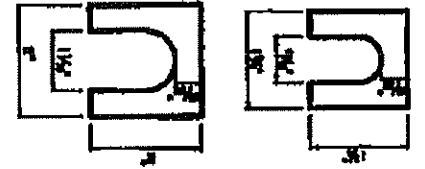
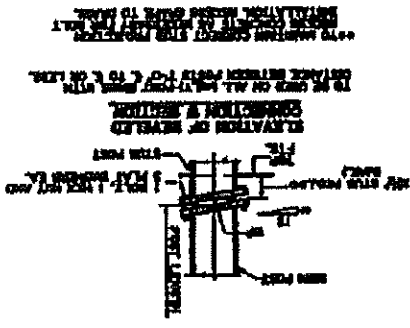
SHEET NUMBER: 87	PROJECT: H.000506	DATE: 01-3-12	DRAWN BY: S. SHAH	CHECKED BY: A. BRIDGES	DATE: 01-3-12
	SECTION: EDELMOND				
	PHASE: ST. TAMMANY				

TABLE 1.0 - MATERIALS AND CONSTRUCTION FOR ROADSIDE TRAFFIC SIGNS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1.01	CAST IRON SIGN POST	1	EA	
1.02	CAST IRON SIGN PLATE	1	EA	
1.03	CAST IRON SIGN BRACKET	1	EA	
1.04	CAST IRON SIGN BASE	1	EA	

NOTE: THE SIGN PLATE SHALL BE MADE OF ALUMINUM OR GALVANNELED STEEL. THE SIGN POST SHALL BE MADE OF CAST IRON. THE SIGN BRACKET SHALL BE MADE OF GALVANNELED STEEL. THE SIGN BASE SHALL BE MADE OF CONCRETE.

1. THE SIGN POST SHALL BE SET IN A CONCRETE FOUNDATION. THE FOUNDATION SHALL BE 18" X 18" X 24" DEEP.
2. THE SIGN BRACKET SHALL BE SET IN A CONCRETE FOUNDATION. THE FOUNDATION SHALL BE 12" X 12" X 18" DEEP.
3. THE SIGN PLATE SHALL BE SET IN A CONCRETE FOUNDATION. THE FOUNDATION SHALL BE 12" X 12" X 18" DEEP.

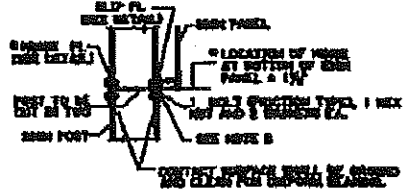
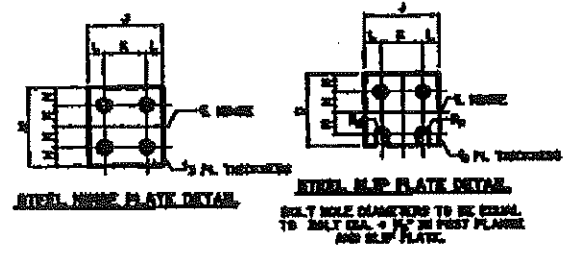
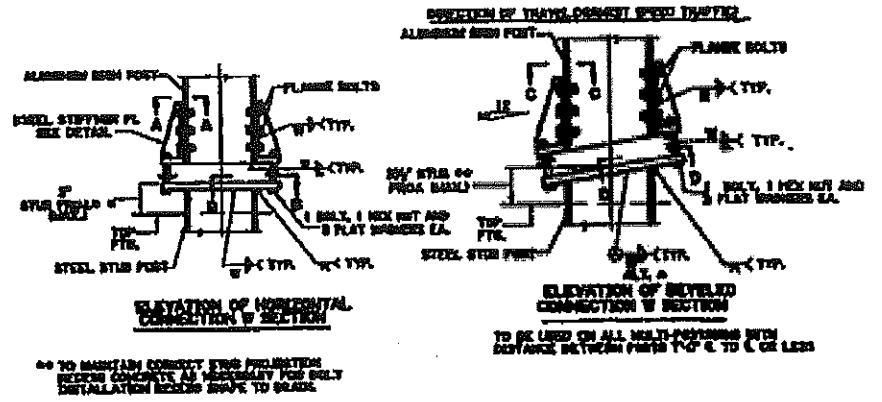
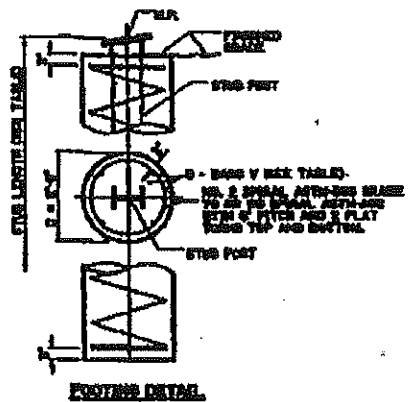


CHECK PRINTS

R:\Project Folders\261-06 H.000506 IA 22 (Dalwill DR. - US 190) (TURNLANE WIDENING)\Design IA 22 (Dalwill Dr - US 190)\088 BD.2.7.2.011\2018 Roadside Traffic

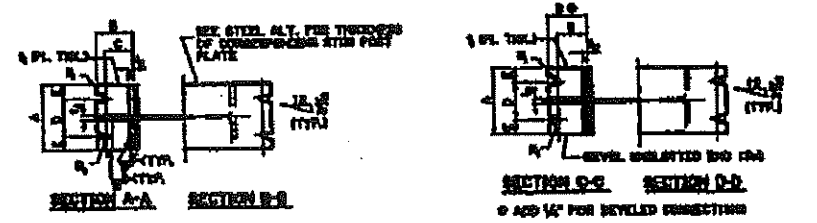
SECTION	SLOPE	BASE CONNECTION DATA												SLIP PLATE & WEDGE PLATE DATA												POSTING DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX

WEDGE PLATE TO STUD POST WELD ALTERNATE L&R OR ALTERNATE TO WELLS SHOWN IN DETAIL. WELLS POST MEMBERS TABLED MAY BE WELDED ALL AROUND WITH A FILLET WELD.
 * ALL BOLTS SHALL HAVE A MINIMUM OF 2 THREADS BEYOND THE NUT. BOLT LENGTHS 1/2" LONGER THAN THE NUT.
 * FOR NON-SPECIAL WELLS, TORQUE LIMITS GIVEN IN THE STANDARD SPECIFICATION.

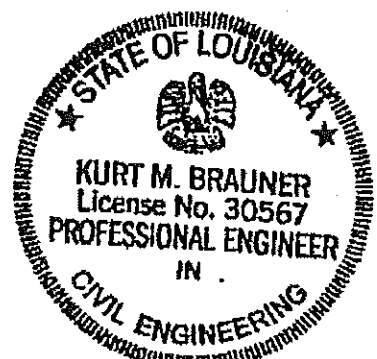
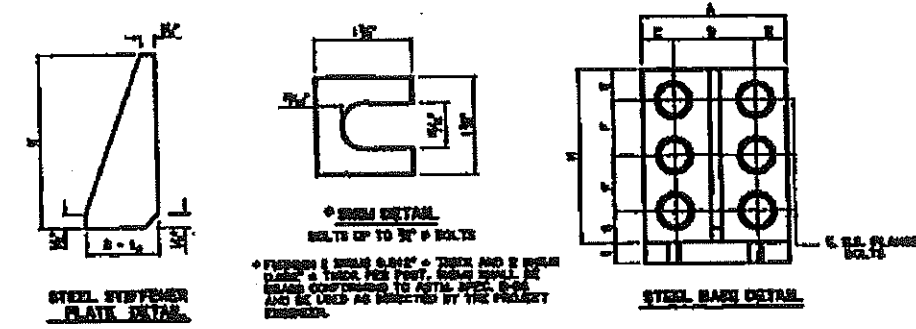


- SLIP PLATE CONNECTION NOTES**
1. SLIP PLATE SHALL BE INSTALLED WITH ALL BOLTS AT COMMON BOLT TORQUE.
 2. TORQUE SHALL BE OBTAINED BY USE OF TORQUE WRENCH OR TORQUE INDICATOR METHOD USING LOAD INDICATOR WRENCH, SEE NOTE A.
 3. TORQUE SHALL BE TO BE SUCH A CHANGE AS TO OBTAIN MINIMUM BOLT TENSION AS PROVIDED IN STANDARD SPECIFICATION SUBSECTION 806.2.1.1. CURRENT AT TIME OF INSTALLATION.
 4. TORQUE BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED MINIMUM BOLT TORQUE.

- WEDGE DETAIL**
- * WEDGE SHALL BE LOCATED ON SIDE OF SIGNPOST WITH THE WELLS POST IN A SLIP PLATE WELD AT BOTTOM OF SIGN PANEL 1/4" FROM BOTTOM OF SIGN PANEL.
 - * FOR EXTENSION SIGN PANEL, ALTERNATE LOCATION OF WEDGE SHALL BE 3/4" FROM BOTTOM OF SIGN PANEL.



- NOTE A**
 WHEN USED WITH WELLS IN TORQUE BY USE OF A TORQUE WRENCH METHOD, THE BOLT TENSION AND TORQUE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR STRUCTURAL STEEL, SECTION 8 AND A TORQUE WRENCH SHALL BE USED TO OBTAIN TORQUE. ON THE OTHER HAND, TORQUE INDICATOR METHOD AND TORQUE WRENCH METHOD FOR TORQUE SHALL BE USED TO OBTAIN TORQUE. THE TORQUE INDICATOR METHOD SHALL BE USED TO OBTAIN TORQUE. THE TORQUE INDICATOR METHOD SHALL BE USED TO OBTAIN TORQUE. THE TORQUE INDICATOR METHOD SHALL BE USED TO OBTAIN TORQUE.
- NOTE B**
 WHEN USED WITH WELLS IN TORQUE BY USE OF A TORQUE WRENCH METHOD, THE TORQUE UNDER THE BOLT HEAD SHALL BE A LOAD INDICATOR WRENCH.
- PREPARATION FOR ASSEMBLY OF BASE CONNECTION**
 SPECIAL CARE SHALL BE TAKEN TO SET THE WELLS PLATE TO AVOID EXCESSIVE BENDING AT THE SIGNPOST WELLS AFTER FINAL INSTALLATION. EXCESSIVE BENDING SHALL BE AVOIDED BY USING A TORQUE WRENCH TO SET THE WELLS PLATE TO AVOID EXCESSIVE BENDING AT THE SIGNPOST WELLS AFTER FINAL INSTALLATION.
1. BASE SHALL BE CLEANED AND SET PLATE BEFORE BE INSTALLED AT THE SIGNPOST WELLS.
 2. ALL BOLTS IN BASE PLATE SHALL BE TORQUED TO THE PRESCRIBED MINIMUM BOLT TORQUE TO AVOID OVER-TIGHTENING.
- * 1/2" SEE STEEL ALTERNATE FOR CONNECTION AND USE OF BOLTS AND NUTS.
 THE WELLS TO BE USED WITH WELLS LOAD AND GENERAL NOTE FIRST.



Kurt M. Brauner
 8/30/18

<p>DOTD BRIDGE DESIGN</p>	<p>ROADSIDE MOUNTED SUPPORT DETAILS</p> <p>TYPE D SIGNS</p> <p>BD.2.7.2.011 - ROADSIDE TRAFFIC SIGNS</p>		<p>NO. _____</p> <p>DATE _____</p>	<p>DESCRIPTION _____</p>	<p>BY _____</p>	<p>DESIGNED BY J.C. PORTER</p> <p>CHECKED BY D. HUEL</p>	<p>PROJECT ST. TAMMANY</p>	<p>88</p>
			<p>NO. _____</p> <p>DATE _____</p>	<p>DESCRIPTION _____</p>	<p>BY _____</p>	<p>DESIGNED BY E. DEARMOND</p> <p>CHECKED BY A. BRIDGES</p>	<p>SECTION 261-06, 013-12</p>	
			<p>NO. _____</p> <p>DATE _____</p>	<p>DESCRIPTION _____</p>	<p>BY _____</p>	<p>DESIGNED BY JULY 2000</p> <p>REVISION 11 OF 11</p>	<p>STATE PROJECT H.000506</p>	
			<p>NO. _____</p> <p>DATE _____</p>	<p>DESCRIPTION _____</p>	<p>BY _____</p>			

