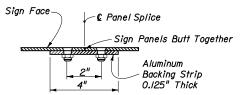
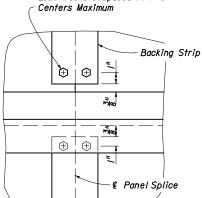


DESIGN WIND SPEEDS BY COUNTY

Note: If the sign panels are deeper than 12', a Horizontal Panel Splice is allowed at an interior Z bar support, shop drawings shall be required. Minimum panel section width = 2'-6".



Pairs Of ¼" Ø Aluminum Flat Head Machine Screws With Nuts And Lock Washers Spaced At I'-O"



BACKING STRIP DETAIL

7015 110 1 100 11

ZONE NO. / (60 mph)
Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Gadsden,
Gilchrist, Hamilton, Holmes, Jackson, Jefferson, Lafayette,
Lake, Leon, Liberty, Madison, Marion, Putnam, Sumter,
Suwannee, Union and Washington Counties.

ZONE NO. 2 (70 mph)
Bay, Citrus, Desoto, Dixie, Duval, Escambia, Flagler,
Franklin, Glades, Gulf, Hardee, Hendry, Hernando,
Highlands, Hillsborough, Levy, Nassau, Okaloosa,
Okeechobee, Orange, Osceola, Pasco, Pinellas,
Polk, Santa Rosa, Seminole, St. Johns, Taylor,
Wakulla, and Walton Counties.

ZONE NO. 3 (80 mph)
Brevard, Charlotte, Collier, Indian River, Lee, Manatee,
Martin, Palm Beach, Sarasota, St. Lucie, and Volusia Counties.

ZONE NO. 4 (90 mph) Broward, Dade, and Monroe Counties

	NUMBER OF WIND BEAMS FOR GIVEN DEPTH & WIND													
Wind	No. Beams	Max. Depth	Wind	No. Beams	Max. Depth									
60	2	8'-0"	80	2	6'-8"									
60	3	13'-4"	80	3	//'-4"									
60	4	18'-0"	80	4	<i>15' -4"</i>									
60	5	22'-8"	80	5	<i>19' -0"</i>									
70	2	7'-0"	90	2	6'-0"									
70	3	12'-0"	90	3	10'-4"									
70	4	16'-4"	90	4	14'-0"									
70	5	20'-8"	90	5	<i>17'-8"</i>									

SIZE OF WIND BEAMS													
	Length Of Sign (Feet)												
Size Of Zee*	2 Posts	3 Posts											
Z 1.75 x 1.75 x 1.08	0 - 11'-0"	0 - 17'-4"											
₹ 3 x 2.69 x 2.33	//'-/"-/9'-0"	17'-5"-29'-6"											
Z 3 x 2.69 x 3.38	19'-1"- 20'-8"	29'-7"-31'-6"											

*Note: Zees Are Aluminum - No Steel Equivalent Available
Designation Gives (Member Depth) x (Width) x (lb/ft)

DESIGN SPECIFICATION Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals, AASHTO 1994.

For welding refer to the latest editions of the AWS Structural Welding Codes for Steel and Aluminum, the AASHTO Standard Specifications for Welding Structural Steel Highway Bridges.

DESIGN WIND LOAD See Design Wind Speeds By County for wind in miles per hour on flat sign area.

ALUMINUM MATERIALS

All aluminum materials shall meet the requirements of the Aluminum Association's Alloy 6061-T6 and also the following ASTM specifications: Sheets and plates, B209; extruded tube, bars, rods & shapes, B221; and standard structural shapes, B308. Sheets are to be degreased, etched, neutralized and treated with Alodine 1200, Iridite 14-2, Bonderite 721, or equal. No stenciling permitted on sheets. Aluminum welding rods shall meet the requirements of Aluminum

Association Alloy No. 5556 filler wire.

STRUCTURAL STEEL All structural steel shall meet the requirements of ASTM A36.

ALUMINUM BOLTS, NUTS, Aluminum bolts shall meet the requirements of Aluminum Association Alloy 2024-T4 (ASTM F468). The bolts shall have an anodic coating at least 0.0002"

& LOCKWASHERS thick and be Chromate sealed. Lock washers shall meet the requirements of Aluminum Association Alloy 7075-T6 (ASTM B221). Nuts shall meet the requirements of Aluminum Association Alloy 6061-T6 or 6262-T9 (ASTM F467).

STEEL BOLTS, NUTS, All steel bolts, nuts and washers shall meet the requirements of ASTM A325.

& WASHERS

ALTERNATE MATERIAL Material meeting the requirements of ASTM B209 or Aluminum Association Alloys 5154-H38 or 5052-H38 may be used for sheet and plate. Material meeting the requirements of Aluminum Association Alloy 6351-T5 and ASTM B221 may be used for extruded bars, rods, shapes and tubes.

TOLERANCES All above materials shall be in accordance with the governing ASTM specifications.

GALVANIZING All steel shapes, angles, tees, plates, bolts, nuts and washers shall be galvanized in accordance with Standard Specifications 962-7.

BASE CONNECTION High strength bolts L2 in the base connection shall be tightened only to the torque shown in the tables on sheets 2 & 3 of 3. Overtightened base connections will not be accepted.

FUSE PLATES All holes in fuse plates shall be drilled. All plate cuts shall, preferably, be saw cuts; however, flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face is not allowed.

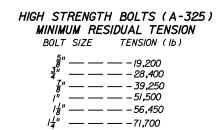
SIGN FACE All sign face corners shall be rounded. See Sign Layout Sheet.

SHOP DRAWINGS When ground sign supports are fabricated in accordance with these plans no shop drawings are required. Shop drawings will be required for approval when the column length exceeds the length shown in the plans by more than 2'-0". However, shop drawings for sign panels, messages, lettering and quantities shall be submitted to traffic plans for approval.

FABRICATOR NOTE

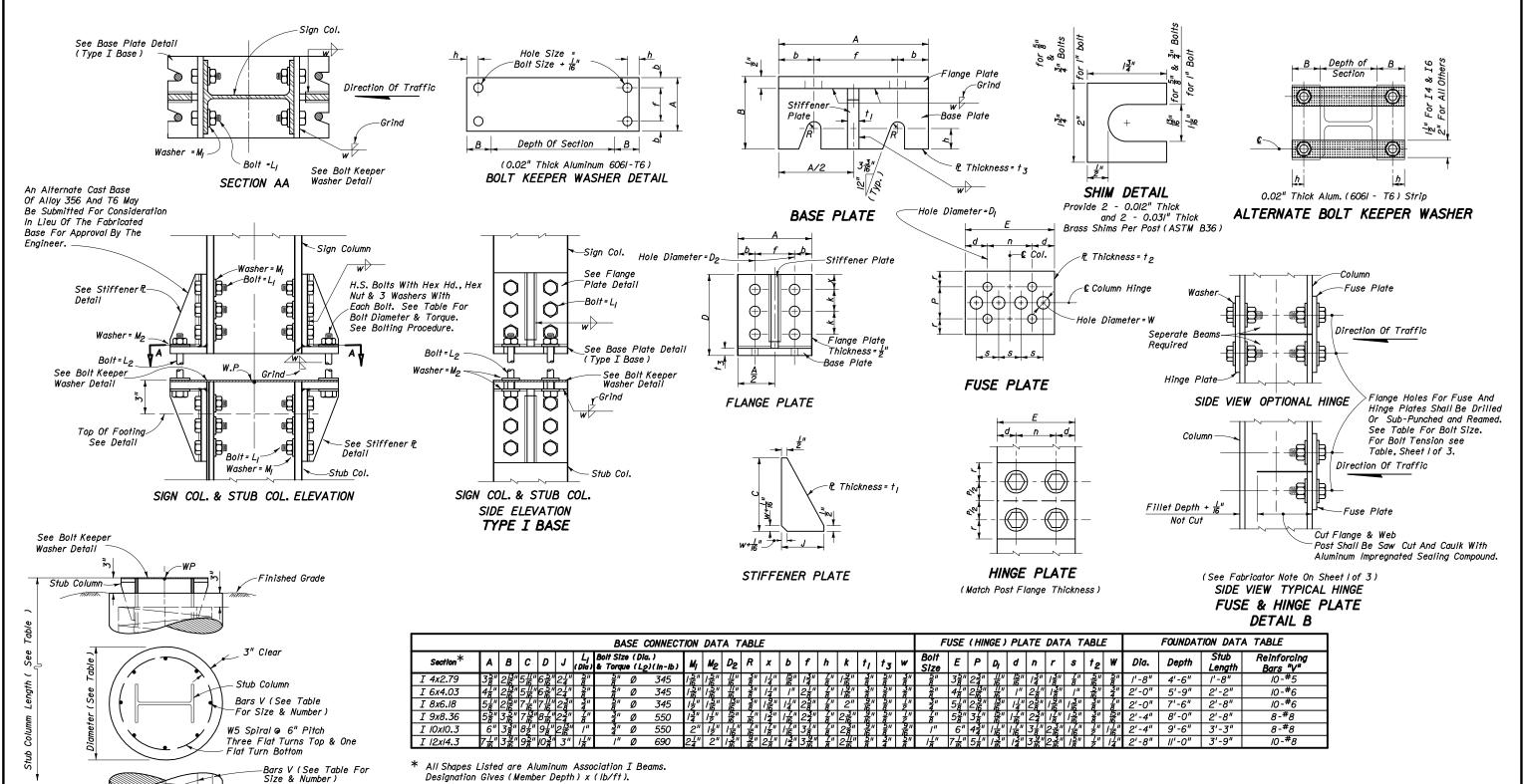
All bolted connections, except L₂ bolts and Zee to Post bolts, shall be high strength bolts. Bolts shall be tightened in the shop following a method approved by the engineer. Tightening shall be to such a degree so as to attain in each bolt the residual tension specified in the tabulation below:

FOUNDATION The holes shall be clean and without loose material. Temporary casing shall be required if the soil is unstable. Contractor may use precast foundations in pre-drilled holes a minimum of I2" larger than the foundation indicated on the plans in either wet or dry conditions. Fill the voids around precast concrete foundations with flowable fill meeting the requirements of Section I2I or clean sands placed using hydraulic methods to a level 6 inches below grade. The cost of flowable fill, sand, installing and removal of casing shall be included in the unit price of Sign Multi-Post.



SIGN PANEL AND WIND BEAMS

	REVIS	SIONS			NE OF FLORID	2006 Interim Design Standard	Interim Date	Sheet No.
Ву	Description	Date	Ву	Description			01/01/06	1 of 3
L.W.	Revise note on Side View detail, revise Design Wind Load note, revise Fuse Plates note, revise Foundations note.				PAR HELD	STANDARD ROADSIDE SIGN	Ind	200 200



*	All Shapes Listed are Aluminum Association I B	Beams.
	Designation Gives (Member Depth) x (lb/ft).	

W5 Spiral

FOUNDATION DETAIL

contact with the aluminum stud column. Reinforcing Steel-ASTM A615, Grade 60.

NOTES: To prevent galvanic corrosion, reinforcing steel shall not be in

Class II Concrete

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION: FOR BOLTS L,

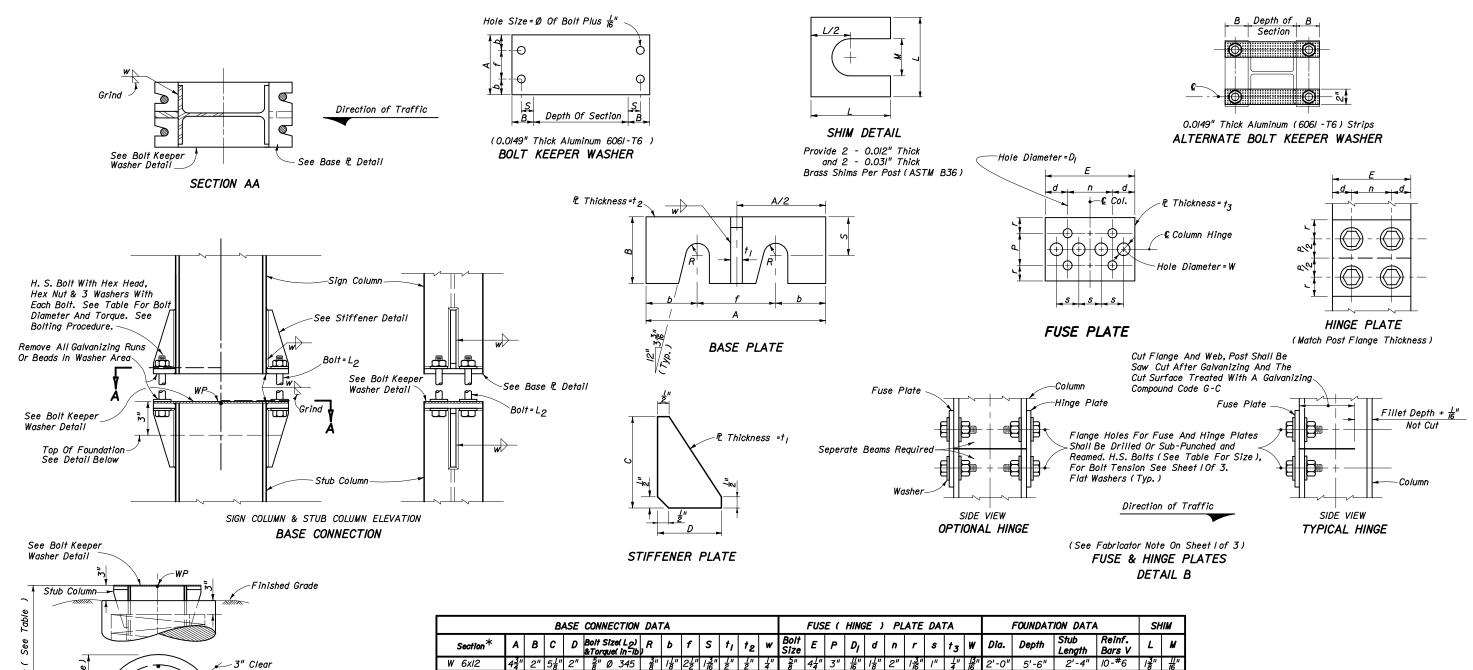
- I. Assemble post to stub with bolts and with one flat washer on each bolt between plates.
- 2. Shim as required to plumb post (See Shim Detail).
- 3. Tighten all bolts the maximum possible with I'-0" to I'-3" wrench to bed washers and shims and to clean bolt threads then loosen each bolt in turn and retighten in a Systematic order to the prescribed torque (See Table).
- 4. Burr threads at junction with nut using a center punch to prevent nut loosening.

NOTE:

Sections shown are for installation on right shoulder. For left shoulder plate slot bevels are opposite hand from that shown.

ALUMINUM POST. BASE. FOUNDATION & FUSE & DETAILS

Interim Date **REVISIONS** 2006 Interim Design Standard Sheet No. 01/01/06 2 of 3 01/01/06 Revised Shim Detail notes, revise Foundation Detail notes STANDARD ROADSIDE SIGN Index No. 11200



	BASE CONNECTION DATA										FUSE (HINGE) PLATE DATA									FOUNDATION DATA					SHIM					
	Section*	Α	В	С			Size(L ₂) que(in-IL		Ь	f	s	t _I	t ₂	w	Bolt Size	Ε	P	Dj	d	n	r	s	†3	W	Dia.	Depth	Stub Length	Reinf. Bars V	L	M
	W 6x/2	43"	2"	5/8	2"	<u>5</u> "	Ø 345	3"	<i>1∤</i> "	2/2	1/6"	2"	2"	4"	<u>5</u> "	44"	3"	" "	18"	2"	13"	/"	4"	13"	2'-0"	5'-6"	2'-4"	10-#6	/ 3 "	16"
	W 8x18	5 <u>₹</u> "	23	" 6 <u>4</u> '	12 <u>3</u> "	<u>3</u> "	Ø 550	7 1	1/2"	23"	13"	<u>/</u> "	<u>5</u> "	4"	<u>7</u> "	5 <u>/</u> ="	33"	<u>15</u> "	1 /2 "	2 <u>/</u> "	/ 3 "	15"	3"	1/6"	2'-0"	7'-6"	2'-10"	10-#6	13"	1 <u>3</u> "
l	W 10x22	6 <u>/</u> "	23	" 8"	23	7"	Ø 640	2"	18"	3"	13"	2"	3"	<u>5</u> "	/"	6 3 "	45"	1/6"	13"	27"	13"	1/2"	<u>3</u> "	13"	2'-4"	8'-6"	3'-4"	8-#8	2"	<u>15</u> "
l	W 10x33	8"	23/4	" 8"	23"	18"	Ø 780	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2"	4"	18"	2"	3"	<u>5</u> "	/ <u>/</u> 8"	77"	5 <u>5</u> "	13"	24"	3 3 "	2"	1 7 "	2"	18"	2'-4"	10'-3"	4'-0"	8-#8	23"	13'
	W 12x40	8"	3"	8"	3"	/ <u>∦</u> "	Ø 780	<u>5</u> "	2"	4"	/ <u>9</u> "	1/2"	3 ₁₁	<u>5</u> "	/ <u>/</u> "	8 3 "	5 <u>3</u> "	$1\frac{5}{16}$ "	2 <u>4</u> "	3 7 "	2 <u>3</u> "	2"	<u>/</u> "	1#"	2'-8"	//'-3"	4'-8"	10-#8	2 3 "	$1\frac{3}{16}$

^{*} Designations Give (Nominal Depth) x (Ib/ft)

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

- I. Assemble post to stub with bolts and with one flat washer on each end bolt between plates.
- 2. Shim as required to plumb post (see shim detail).

W5 Spiral @ 6" Pitch; Three Flat Turns Top & One Flat Turn Bottom

> -Bars V (See Table For Size & Number)

Bars V (See Table For Size & Number)

-W5 Spiral

FOUNDATION DETAIL

NOTE; Reinforcing Steel-ASTM A615, Grade 60.

Class II Concrete

- 3. Tighten all bolts the maximum possible with I'-0" to I'-3" wrench to bed washers and shims and to clean bolt threads then loosen each bolt in turn and retighten in a systematic order to the prescribed torque (see table).
- 4. Burr threads at junction with nut using a center punch to prevent nut loosening.

NOTE

Sections shown are for installation on right shoulder. For left shoulder plate slot bevels are opposite hand from that shown.

STEEL POST, BASE,

FOUNDATION & FUSE & DETAILS

REVISIONS

| Date | By | Description | Detail notes, revised Foundation Detail notes. | Interim Date | Date | By | Description | O1/01/06 | L.W. | Revised Shim Detail notes, revised Foundation Detail notes. | Index No. 11200