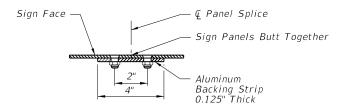


Note: If the sign panels are deeper than 10', a Horizontal Panel Splice is allowed at an interior Zee Beam, shop drawings shall be

required.



TYPICAL ELEVATION

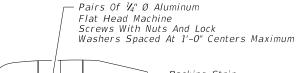
BACKING STRIP DETAILS

NUI	NUMBER OF WIND BEAMS FOR GIVEN DEPTH & WIND													
Wind	No. Beams	Max. Depth	Wind	No. Beams	Max. Depth									
110	2	7'-0"	150	2	6'-0"									
110	3	12'-0"	150	3	10'-4"									
110	4	16'-4"	150	4	14'-0"									
110	5	20'-8"	150	5	17'-8"									
130	2	6'-8"												
130	3	11'-4"												
130	4	15'-4"												
130	5	19'-0"												

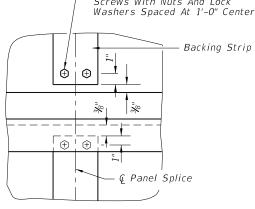
SIZE OF WIND BEAMS										
Size Of Zee*	Length Of Sign (Feet)									
3126 01 266	2 Posts	3 Posts								
Zee 1.75 x 1.75 x 1.08	O to 11'-0"	0 to 17'-4"								
Zee 3 x 2.69 x 2.33	11'-1" to 19'-0"	17'-5" to 29'-6"								
Zee 3 x 2.69 x 3.38	19'-1" to 20'-8"	29'-7" to 31'-6"								

*Note: Zee Beams Are Aluminum - No Steel Equivalent Available Designation Gives (Member Depth) x (Flange=Width) x (Ib/ft)

DESCRIPTION:



PARTIAL REAR ELEVATION



DESIGN WIND SPEEDS BY COUNTY

110 mph Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafavette, Lake Leon, Madison, Marion, Polk Putnam, Sumter, Suwannee, and Union Counties.

130 mph Bay, Brevard, Calhoun, Charlotte, Citrus, DeSoto, Dixie, Duval, Flagler, Franklin, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lee, Levy, Liberty, Manatee, Nassau, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Sarasota, Seminole, St. Johns, Taylor, Volusia, Wakulla, Walton, and Washington Counties.

150 mph Broward, Collier, Escambia, Indian River, Martin, Miami-Dade, Monroe, Palm Beach, Santa Rosa, and St.Lucie Counties.

SIDE VIEW

ZEE TYPE WIND BEAM

GENERAL NOTES

DESIGN SPECIFICATIONS: Design according to FDOT Structures Manual (current editition).

WELDING: Preform all welding in accordance with the American Welding Society Structural welding code (Steel), ANSI/AWS D1-1 current edition.

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. No stenciling permitted on sheets. Aluminum welding rods shall meet the requirements of Aluminum Association Alloy No. 5556 filler wire.

ALTERNATE MATERIAL: Material meeting the requirements of Aluminum Association Alloy 6351-T5 and ASTM B221 may be used for extruded bars, rods, shapes and tubes.

SIGN FACE: All sign face corners shall be rounded.

STRUCTURAL STEEL: All structural steel shall meet the requirements of ASTM A36 and shall be galvanized in accordance with ASTM A123.

ALUMINUM BOLTS, NUTS, & LOCK WASHERS: 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" 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, & WASHERS: All steel bolts, nuts and washers shall meet the requirements of ASTM A325 and shall be galvanized in accordance with ASTM F2329.

BASE CONNECTION: High strength bolts L_2 in the base connection shall be tightened only to the torque shown in the table on sheet 2 and 3. Overtightened base connections will not

FUSE PLATE: 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 round. Metal projecting beyond the plane of the plate face will not be permitted.

BRASS SHIM: Provide shim plate per ASTM B36.

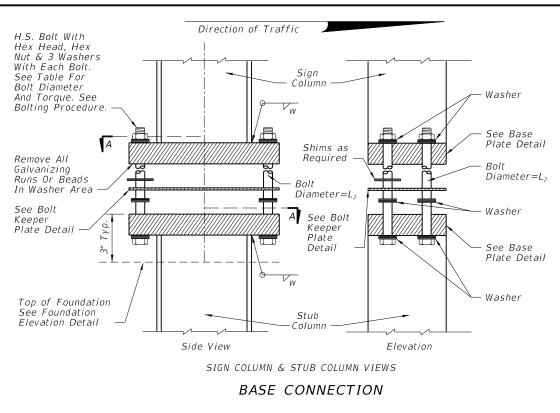
SHOP DRAWINGS: When ground sign supports are fabricated in accordance with these plans no shop drawings are required. Shop drawings will be required for approval when the column length exceeds the length shown in the plans by more than

FABRICATOR NOTE: All bolts, except L_2 bolts and Zee Beam to post bolts, shall be tightened in accordance with Section 700 of the Specifications.

LAST REVISION 07/01/14



NO.



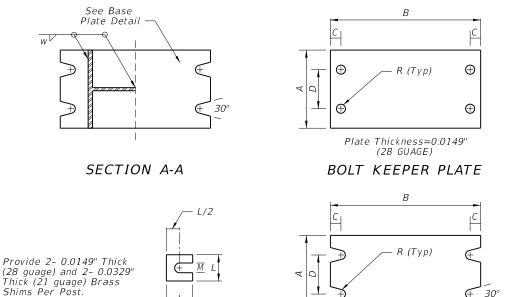
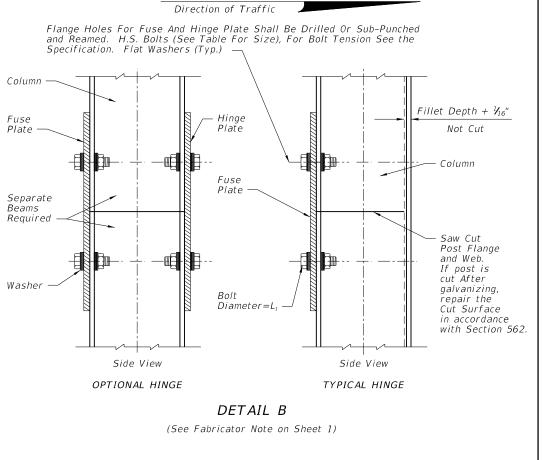
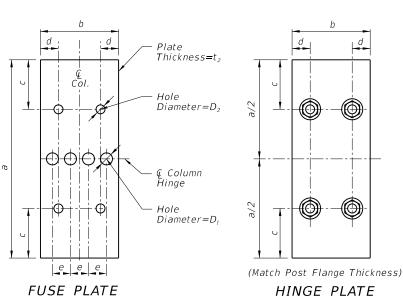
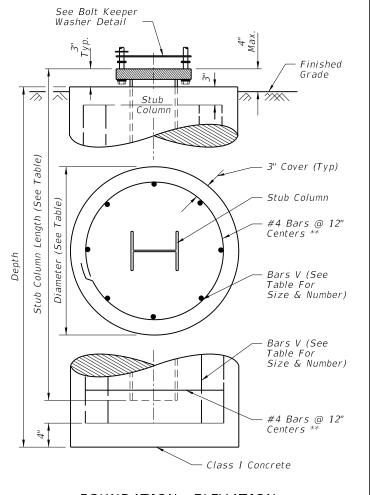


Plate Thickness=t₁

BASE PLATE







FOUNDATION ELEVATION

NOTE: All Reinforcing To Be Grade 60.

** At the Option of the Contractor, D10 Spiral Wire @ 6" Pitch,Three Flat Turns Top and One Flat Turn Bottom may be Utilized in Lieu of Specified.

Shop-weld assemblies of foundation stirrup reinforcing bars are permitted in reinforced concrete foundation provided that:

- The reinforcing bars conform to ASTM Specification A706/706M.
- The holding wires conform to ASTM Specification A1064.
- The Shop welding is performed by machines under a continuous, controlled process, approved by the Engineer.
- Quality control test are performed on shop welded specimens and the test results are available, upon request, to the Engineer.

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

- 1. Assemble post to stub with bolts and flat washers as shown.
- 2. Shim as required to plumb post (see shim detail).

SHIM DETAIL

- 3. Tighten all L₂ bolts the maximum possible with 1'-0" to 1'-3" wrench to bed washers and shims and to clean bolt threads.
- 4. Burr threads at junction with nut using a center punch to prevent nut loosening

v [BASE CONNECTION DATA										FUSE (HINGE) PLATE DATA								SHIM		FOUNDATION DATA				
	Section*	Α	В	С	D	R	t ₁	L ₂	W	Torque (Ibf*in)	а	b	с	d	е	t ₂	D ₁	D ₂	Lı	L	М	Dia.	Depth	Stub Length	Reinf. Bars V
İ	S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	7-1/4"	2-3/8"	1-1/4"	1/2"	9/16"	3/8"	7/16"	9/16"	1/2"	1-1/4"	9/16"	2'-0"	4'-0''	3'-0"	10-#6
	W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	7-1/4"	4"	1-1/4"	7/8"	15/16"	3/8"	13/16"	11/16"	5/8"	1-3/8"	11/16"	2'-0"	6'-0"	3'-0"	10-#6
	W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	8-1/4"	5-1/4"	1-3/8"	1-1/8"	1-1/4"	3/8"	1"	13/16"	3/4"	1-3/4"	13/16"	2'-4"	7'-6"	4'-0"	8-#8
Ī	W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	8-1/4"	6-1/2"	1-3/8"	1-1/2"	1-1/2"	1/2"	1"	13/16"	3/4"	2-1/8"	13/16"	2'-4"	8'-6"	4'-0"	8-#8
	W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	9-1/4"	8"	2"	1-3/4"	1-3/4"	5/8"	1-1/8"	1-1/16"	1"	2-3/8"	1-1/16"	2'-4"	10'-3"	4'-0"	8-#8
[W 12x45	10"	18"	1-1/4"	6"	9/16"	2"	1"	1/2"	580 ± 90	11"	8"	2"	1-3/4"	1-3/4"	3/4"	1-5/16"	1-1/16"	1"	2-3/4"	1-1/16"	2'-8"	11'-3"	5'-0"	10-#8

^{*} Designations: Normal Depth in inches and weight in pounds per linear foot.

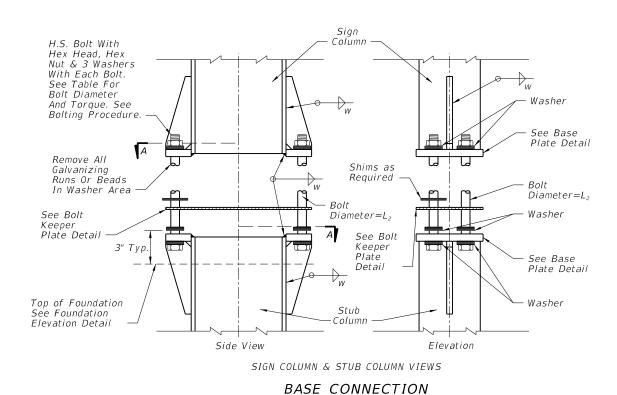
STEEL POST, BASE, FOUNDATION & FUSE PLATE DETAILS

LAST REVISION 07/01/13



DESCRIPTION:

Direction of Traffic



See Base
Plate Detail

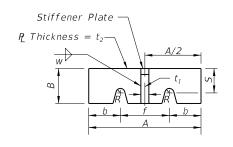
B Depth of B
Section S

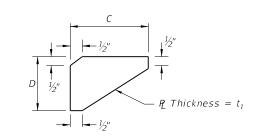
R (Typ.)

Plate Thickness=0.0149"
(28 GUAGE)

SECTION A-A

BOLT KEEPER PLATE





BASE PLATE

STIFFENER PLATE

BASE CONNECTION DATA														
Section*	Α	В	С	D	L ₂	Torque (lbf·in)	R	b	f	5	t ₁	t2	W	L
W 6x12	4-3/4"	2"	5-1/8"	2"	5/8"	270 ± 45	3/8"	1-1/8"	2-1/2"	1-3/16"	1/2"	1/2"	1/4"	1-3/8"
W 8x18	5-3/4"	2-3/16"	6-1/4"	2-3/16"	3/4"	445 ± 75	7/16"	1-1/2"	2-3/4"	1-3/8"	1/2"	5/8"	1/4"	1-3/4"
W 8x24	7"	2-3/8"	8"	2-3/8"	3/4"	445 ± 75	7/16"	1-3/4"	3-1/2"	1-3/8"	1/2"	3/4"	5/16"	2-1/8"
W 10x33	8"	2-3/4"	8"	2-3/4"	1"	580 ± 90	9/16"	2"	4"	1-9/16"	1/2"	3/4"	5/16"	2-3/8"
W 12x45	8"	3"	8"	3"	1"	580 ± 90	9/16"	2"	4"	1-9/16"	1/2"	3/4"	5/16"	2-3/4"

 $^{^{*}}$ Designations: Normal Depth in inches and weight in pounds per linear foot.

STEEL POST & ALTERNATIVE BASE DETAILS

LAST OF DESCRIPTION:

POT DESIGN STANDARDS