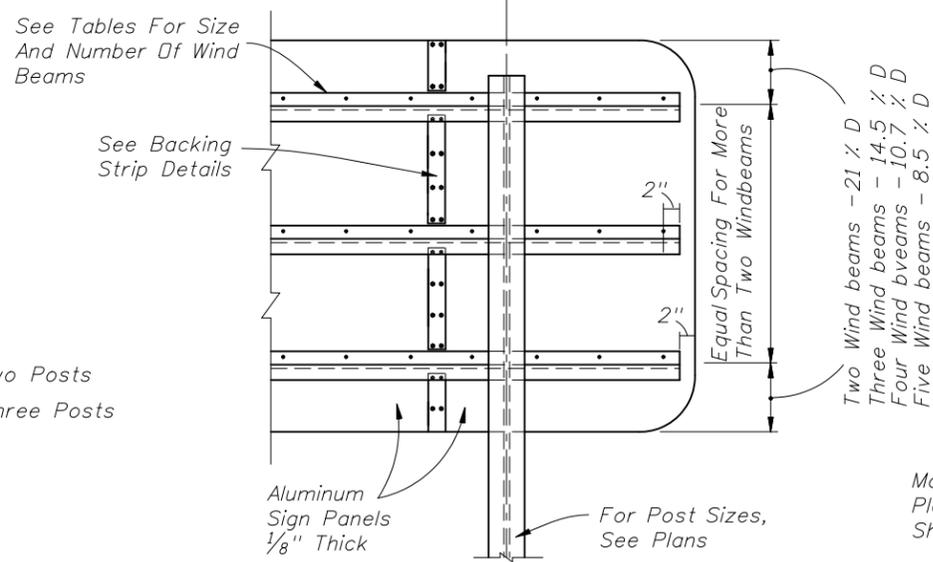
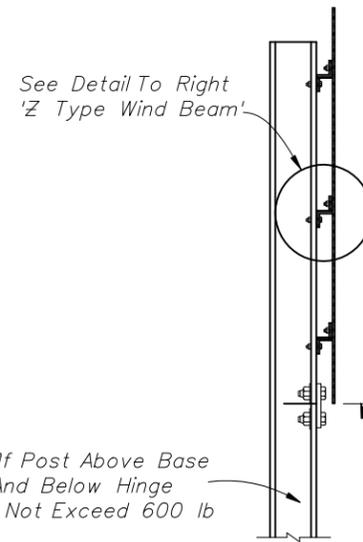


TYPICAL ELEVATION

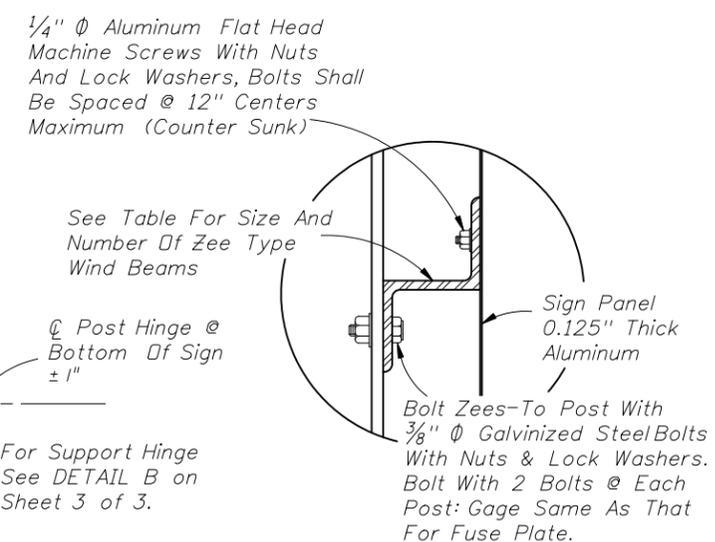
(For Notes And Dimensions Not Shown, See Plans)



PARTIAL REAR ELEVATION



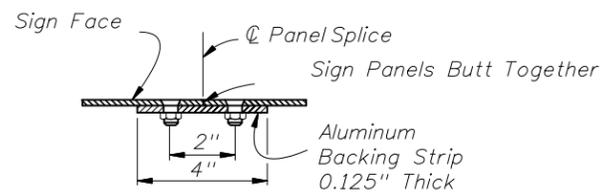
SIDE VIEW



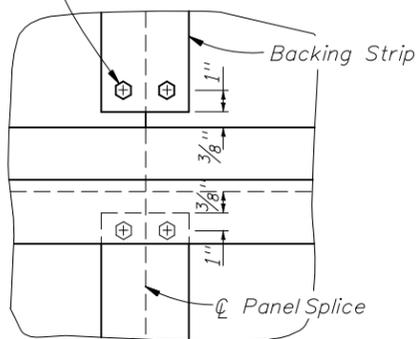
Z TYPE WIND BEAM

Note: It shall be the contractors responsibility to determine the length of the column supports in the field prior to fabrication.

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 1/4" Ø Aluminum Flat Head Machine Screws With Nuts And Lock Washers Spaced At 1'-0" Centers Maximum



BACKING STRIP DETAIL

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 Zee*	Length Of Sign (Feet)	
	2 Posts	3 Posts
Z 1.75 x 1.75 x 1.08	0 - 11'-0"	0 - 17'-4"
Z 3 x 2.69 x 2.33	11'-1"-19'-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 WIND SPEEDS BY COUNTY

110 mph
Alachua, Baker, Bradford, Clay, Columbia, Gadsden, Gilchrist, Hamilton, Hardee, Jackson, Jefferson, Lafayette, 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.

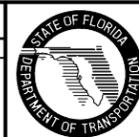
150 mph
Broward, Collier, Escambia, Indian River, Martin, Miami-Dade, Monroe, Palm Beach, Santa Rosa, and St. Lucie Counties.

HIGH STRENGTH BOLTS (A-325)
MINIMUM RESIDUAL TENSION
BOLT SIZE TENSION (lb)

5/8"	19,200
3/4"	28,400
7/8"	39,250
1"	51,500
1 1/8"	56,450
1 1/4"	71,700

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/20/06	LW	AASHTO 2001 LTS-4 Specifications update. Aluminum post option has been eliminated.			



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MULTI-COLUMN GROUND SIGNS

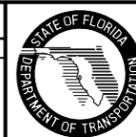
Interim Date	Sheet No.
01/01/07	1 of 3
Index No.	
11200	

GENERAL NOTES

DESIGN SPECIFICATION	<i>Design according to FDOT Structures Manual (current edition). Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals, AASHTO 2001. 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.</i>
ALUMINUM MATERIALS	<i>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 I4-2, Bonderite 721, or equal. No stenciling permitted on sheets. Aluminum welding rods shall meet the requirements of Aluminum Association Alloy No. 5556 filler wire.</i>
STRUCTURAL STEEL	<i>All structural steel shall meet the requirements of ASTM A36.</i>
ALUMINUM BOLTS, NUTS, & LOCKWASHERS	<i>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).</i>
STEEL BOLTS, NUTS, & WASHERS	<i>All steel bolts, nuts and washers shall meet the requirements of ASTM A325.</i>
ALTERNATE MATERIAL	<i>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.</i>
TOLERANCES	<i>All above materials shall be in accordance with the governing ASTM specifications.</i>
GALVANIZING	<i>All steel shapes, angles, tees, plates, bolts, nuts and washers shall be galvanized in accordance with Standard Specifications 962-7.</i>
BASE CONNECTION	<i>High strength bolts L₂ in the base connection shall be tightened only to the torque shown in the table on sheets 3 of 3. Overtightened base connections will not be accepted.</i>
FUSE PLATES	<i>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 will not be tolerated.</i>
SIGN FACE	<i>All sign face corners shall be rounded. See Sign Layout Sheet.</i>
SHOP DRAWINGS	<i>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.</i>
FABRICATOR NOTE	<i>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 on sheet 1 of 3.</i>
FOUNDATION	<i>Contractor may use precast foundations in pre-drilled holes a minimum of 12" larger than the foundation indicated on the plans in either wet or dry conditions. The holes shall be clean and without loose material. Temporary casing shall be required if the soil is unstable. The holes shall be filled with flowable fill after the precast foundation is in place. The cost of flowable fill, installing and removal of casing shall be included in the unit price of Sign Multi-Post.</i>

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
12/20/06	LW	AASHTO 2001 LTS-4 Specifications update. Aluminum post option has been eliminated.			



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