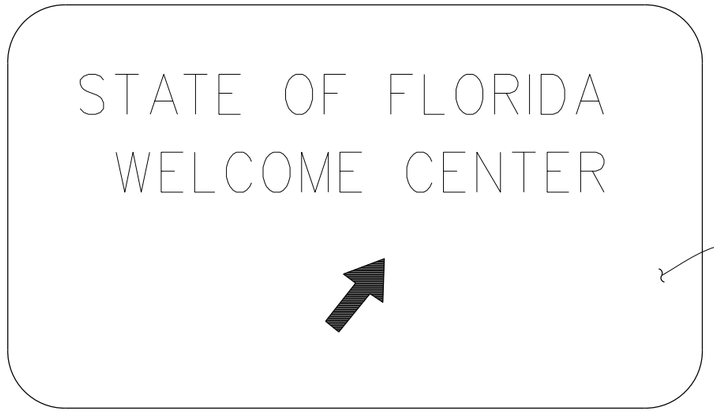
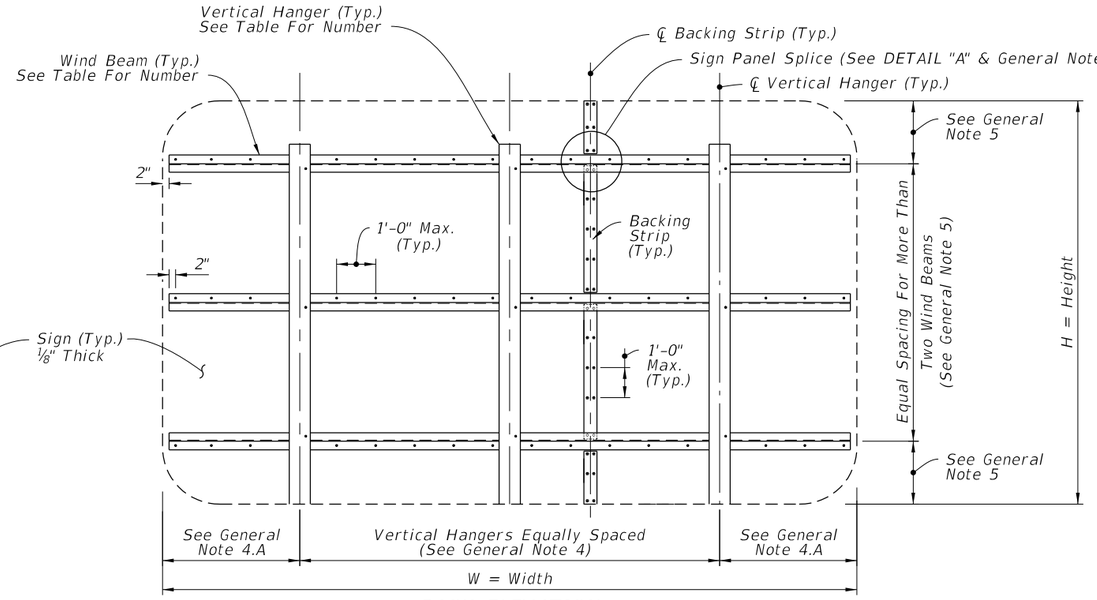
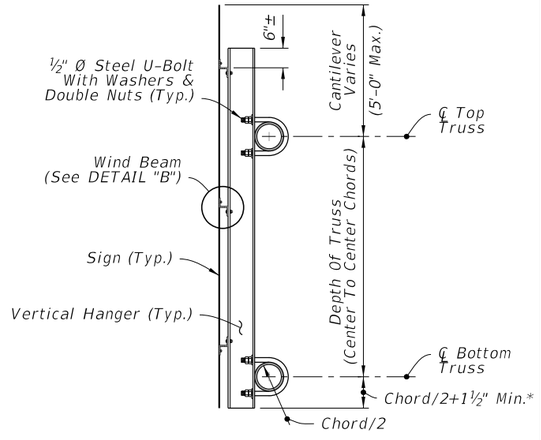


FRONT ELEVATION



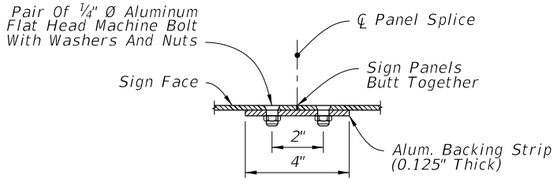
BACK ELEVATION



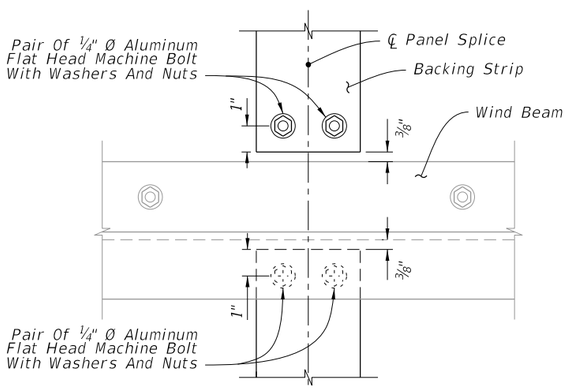
*Bottom Justified Shown, Center Justified Similar.

SIDE ELEVATION

TYPICAL SIGN FOR OVERHEAD TRUSS



PLAN VIEW



ELEVATION

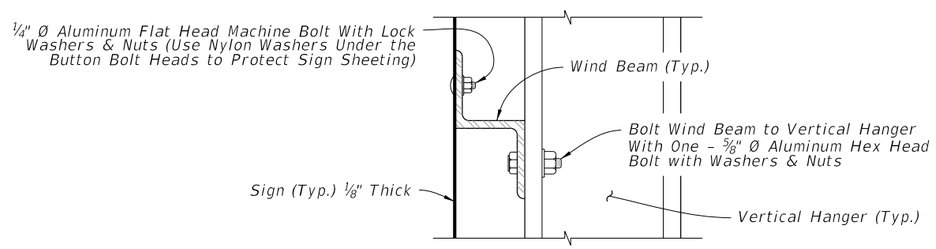
SIGN PANEL SPLICE

DETAIL "A"

WIND BEAM TABLE (Z 3 x 2 11/16 x 2.33)				
Number of Horizontal Wind Beams Based on Sign Height (H)				
2 Beams	3 Beams	4 Beams	5 Beams	6 Beams
H ≤ 5'	5' < H ≤ 9'	9' < H ≤ 12'	12' < H ≤ 15'	15' < H ≤ 18'

HANGER TABLE (I 6 X 4 x 4.69 or Z 5 x 3¼ x 4.01)					
Number of Vertical Hanger Beams Based on Wind Speed and Sign Width (W)					
	2 Hangers	3 Hangers	4 Hangers	5 Hangers	6 Hangers
130 mph	W ≤ 20'	20' < W ≤ 30'	30' < W ≤ 40'	40' < W ≤ 50'	--
150 mph	W ≤ 18'	18' < W ≤ 27'	27' < W ≤ 35'	35' < W ≤ 45'	45' < W ≤ 50'
170 mph	W ≤ 15'	15' < W ≤ 20'	20' < W ≤ 28'	28' < W ≤ 35'	35' < W ≤ 43'

NOTE: For Monroe County designs, use 170 mph values but with Z 5 x 3-¼ x 6.19 vertical hanger beams only.



DETAIL "B"

GENERAL NOTES

1. Meet the requirements of Specification 700.
2. Work this Index with Index 700-040 and 700-041.
3. The number and location of the Panel Splices are determined by the Sign Face supplier.
4. Spacing of Vertical Hangers:
   - A. Two Vertical Hanger = 21.0% W
     Three Vertical Hanger = 15.0% W
     Four Vertical Hanger = 11.0% W
     Five Vertical Hanger = 9.0% W
     Six Vertical Hanger = 7.0% W
   - B. Spacing of vertical hangers may be varied slightly as necessary to clear the truss struts and diagonals at panel points
5. Spacing of Wind Beams:

   Two Wind Beams = 21.0% H
   Three Wind Beams = 15.0% H
   Four Wind Beams = 11.0% H
   Five Wind Beams = 9.0% H
   Six Wind Beams = 7.0% H
6. Shop Drawings:
   - A. Required for Sign Panels deeper than 10'-0" with a horizontal panel splice.
   - B. Splice must be located in between interior Zee Supports and only allowed on signs greater than 10'-0".
7. Wind Speed by county: see Index 715-010.
8. Materials:
   - A. Aluminum:
     a. Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
     b. Structural Shapes: ASTM B221, Alloy 6061-T6
     c. Flat Head and Hex Head Machine Bolts: ASTM F468, Alloy 2024-T4
     d. Hex Nuts: ASTM F467, Alloy 6061-T6 or Alloy 6262-T9
     e. Washers: ASTM B221, Alclad 2024-T4
   - B. Steel:
     a. U-Bolts: ASTM A449 or ASTM A193 B7
     b. Nuts: ASTM A563, 2 per leg
     c. Washers: ASTM F436, (Flat Washers)

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LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	WIND AND HANGER BEAMS FOR OVERHEAD SIGNS	INDEX	SHEET
11/01/23						700-030	1 of 1