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## ORIGINATION FORM

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Proposed Revisions to a Standard Plans Index  
(Please provide all information — Incomplete forms will be returned)

**Contact Information:**

Date: June 29, 2023  
Originator: Dana Knox  
Phone: (850) 410-5413  
Email: Dana.Knox@dot.state.fl.us

**Standard Plans:**

Index Number: 700-030  
Sheet Number (s): 1  
Index Title: Wind and Hanger Beams for Overhead Signs

**Summary of the changes:**

Changed all reference of length to width and all reference to depth to height.

**Commentary / Background:**

The change is to be consistent with how the MUTCD dimensions signs. Section 700 and 995 will also need to be updated to be consistent with MUTCD.

**Other Affected Offices / Documents: (Provide name of person contacted)**

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basis of Estimates Manual –
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Standard Specifications – Daniel Strickland
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Construction –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance –

**Origination Package Includes:** (Submit package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Revised or Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

**Implementation:**

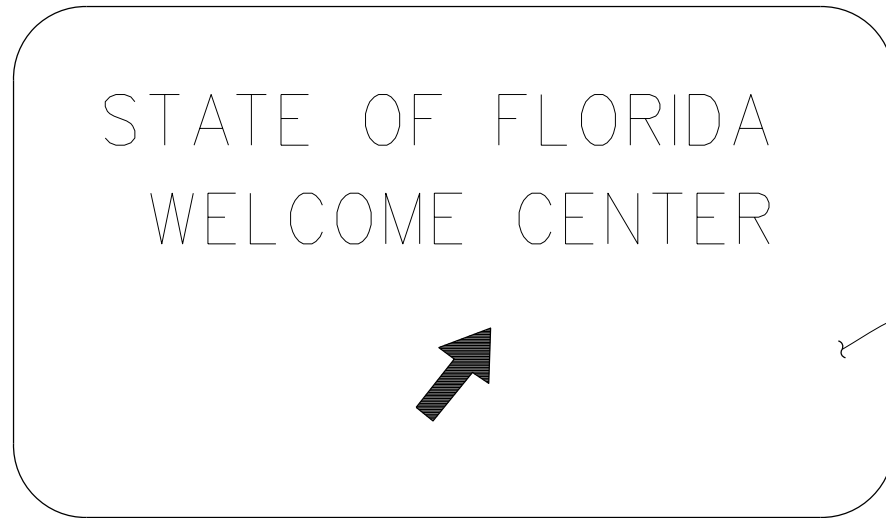
<input type="checkbox"/>	Design Bulletin (Interim)
<input type="checkbox"/>	DCE Memo
<input type="checkbox"/>	Program Mgmt. Bulletin
<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

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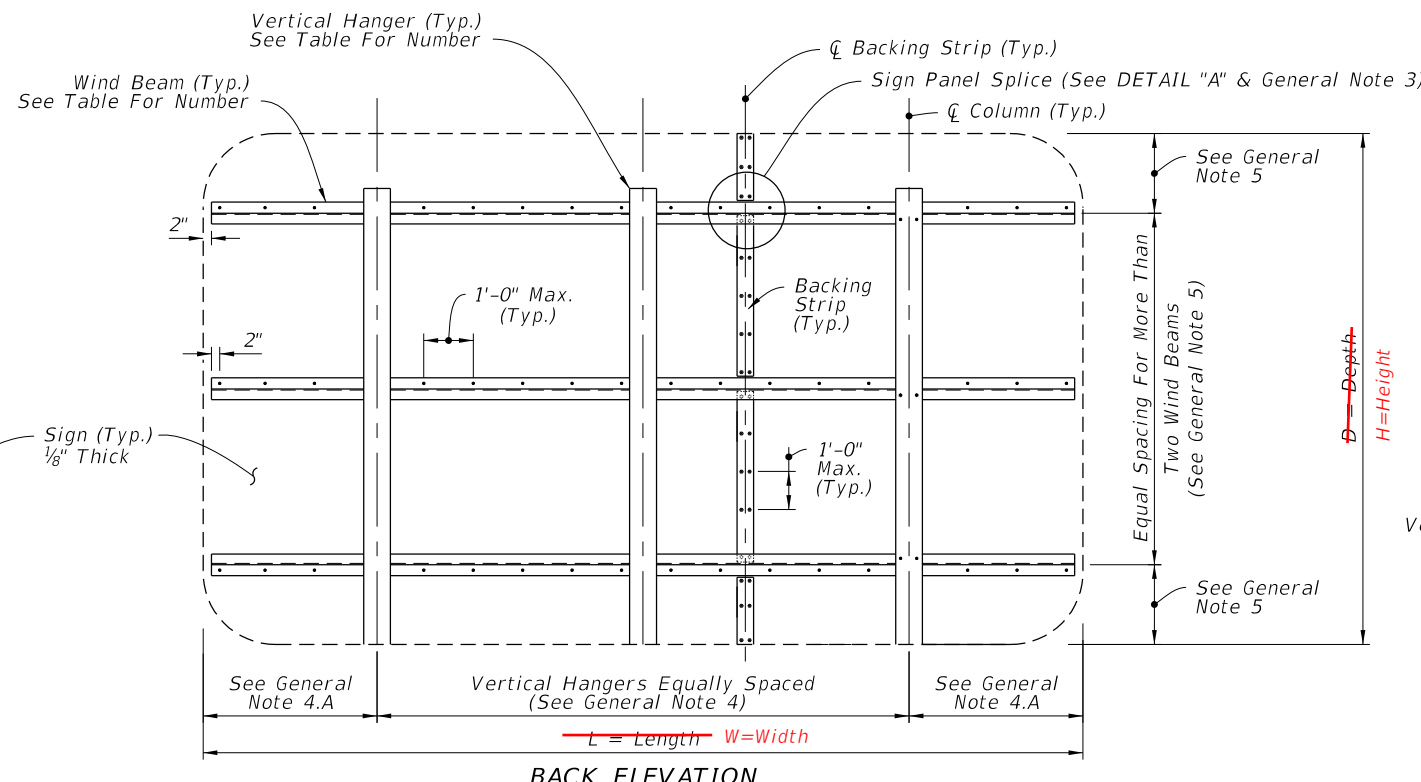
Contact the Roadway Design Office for assistance in completing this form

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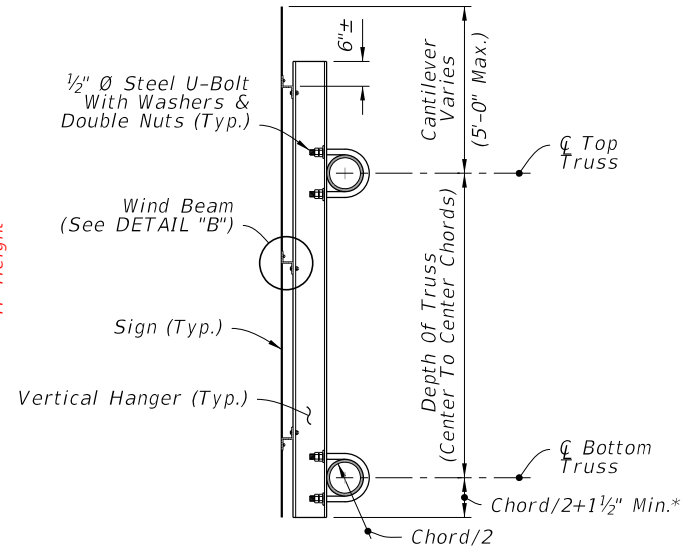
Email to: Rick Jenkins [rick.jenkins@dot.state.fl.us](mailto:rick.jenkins@dot.state.fl.us) and Darren Martin [darren.martin@dot.state.fl.us](mailto:darren.martin@dot.state.fl.us)



FRONT ELEVATION

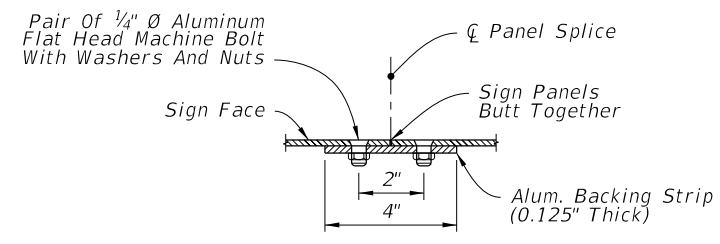


BACK ELEVATION

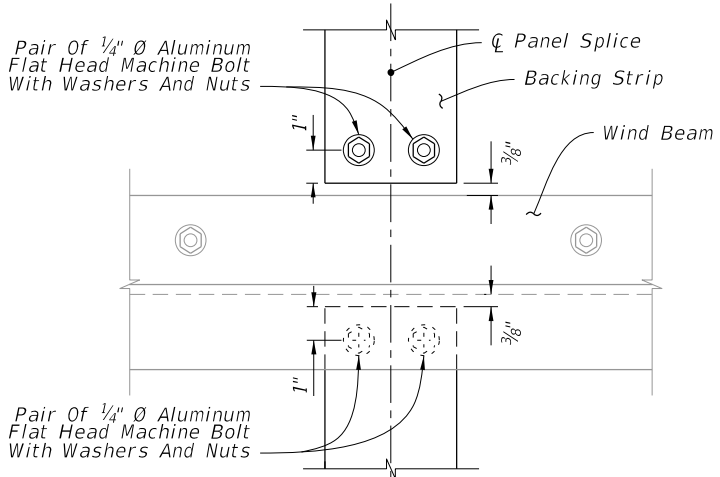


SIDE ELEVATION

TYPICAL SIGN FOR OVERHEAD TRUSS



PLAN VIEW



ELEVATION  
SIGN PANEL SPLICE

DETAIL "A"

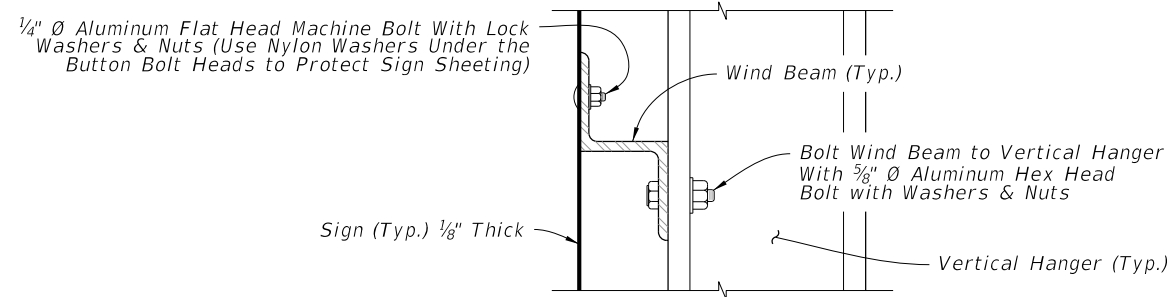
WIND BEAM TABLE (Z 3 x 2 11/16 x 2.33)					
Number of Horizontal Wind Beams Based on Sign Depth (D)					
2 Beams	3 Beams	4 Beams	5 Beams	6 Beams	
$D \leq 5'$	$5' < D \leq 9'$	$9' < D \leq 12'$	$12' < D \leq 15'$	$15' < D \leq 18'$	

CHANGED TO: Height (H)

HANGER TABLE (I 6 X 4 x 4.69 or Z 5 x 3 1/4 x 4.01)						
Number of Vertical Hanger Beams Based on Wind Speed and Sign Length (L)						
	2 Hangers	3 Hangers	4 Hangers	5 Hangers	6 Hangers	
130 mph	$L \leq 20'$	$20' < L \leq 30'$	$30' < L \leq 40'$	$40' < L \leq 50'$	--	
150 mph	$L \leq 18'$	$18' < L \leq 27'$	$27' < L \leq 35'$	$35' < L \leq 45'$	$45' < L \leq 50'$	
170 mph	$L \leq 15'$	$15' < L \leq 20'$	$20' < L \leq 28'$	$28' < L \leq 35'$	$35' < L \leq 43'$	

CHANGED TO: Width (W)

NOTE: For Monroe County designs, use 170 mph values but with Z 5 x 3-1/4 x 6.19 vertical hanger beams only.



DETAIL "B"

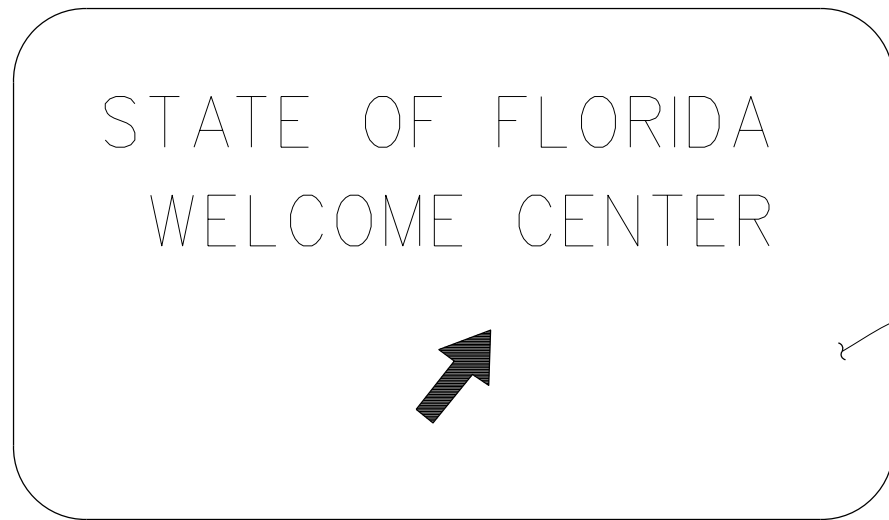
GENERAL NOTES

- Meet the requirements of Specification 700. with Index 700-040 and 700-041.
- The number and location of the Panel Splices are determined by the Sign Face supplier.
- Spacing of Vertical Hangers:
  - A. Two Vertical Hanger = 21.0% L
  - Three Vertical Hanger = 15.0% L
  - Four Vertical Hanger = 11.0% L
  - Five Vertical Hanger = 9.0% L
  - Six Vertical Hanger = 7.0% L

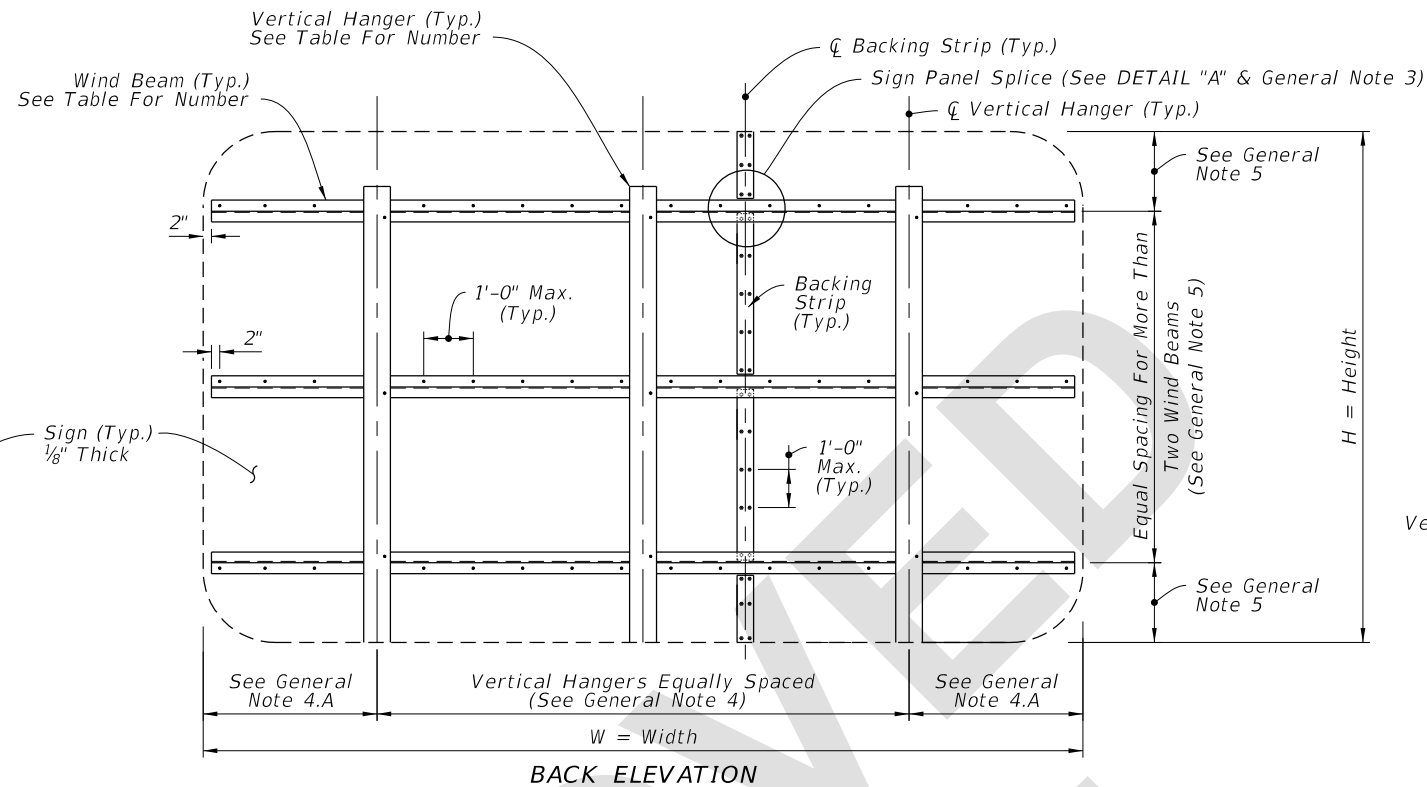
Change to "W"
- Spacing of Wind Beams:
  - Two Wind Beams = 21.0% D
  - Three Wind Beams = 15.0% D
  - Four Wind Beams = 11.0% D
  - Five Wind Beams = 9.0% D
  - Six Wind Beams = 7.0% D

Change to "H"
- 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".
- Wind Speed by county: see Index 715-010.

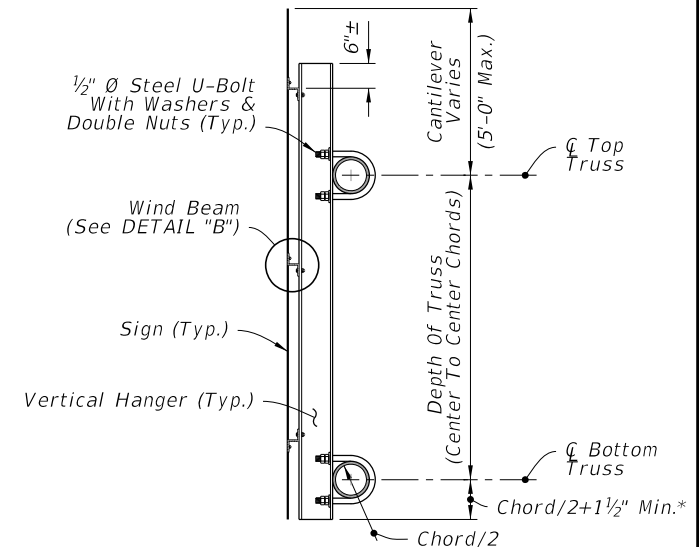
10/6/2022 2:36:47 PM



FRONT ELEVATION



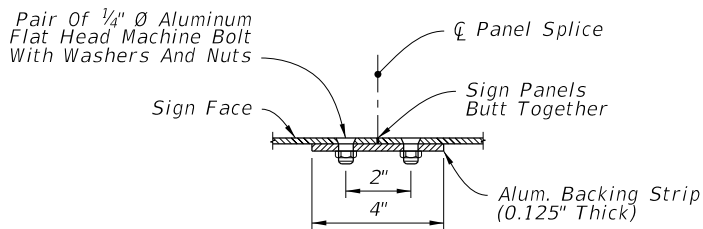
BACK ELEVATION



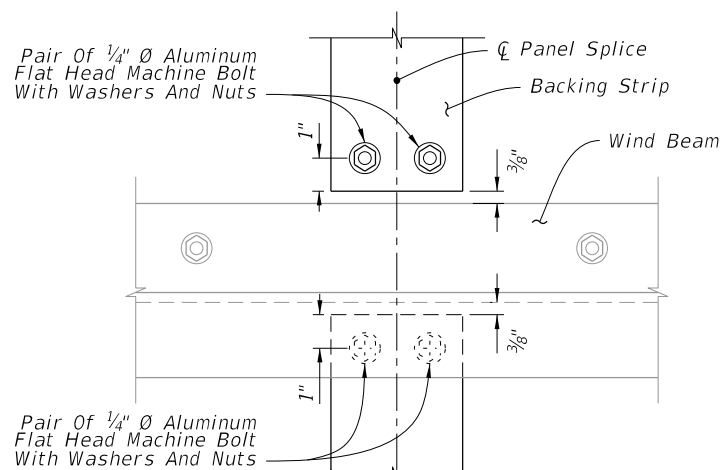
SIDE ELEVATION

\*Bottom Justified Shown, Center Justified Similar.

TYPICAL SIGN FOR OVERHEAD TRUSS



PLAN VIEW



ELEVATION

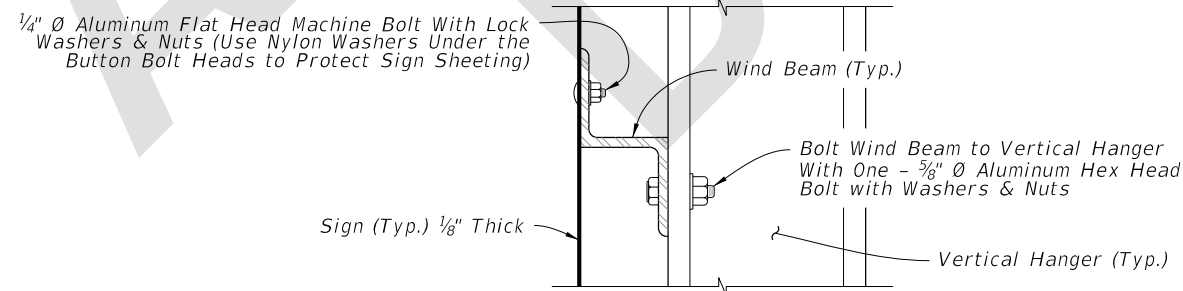
SIGN PANEL SPLICE

DETAIL "A"

WIND BEAM TABLE (Z 3 x 2 <sup>11</sup> / <sub>16</sub> 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 3 <sup>1</sup> / <sub>4</sub> 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 3-1/4 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.

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LAST REVISION 11/01/23	DESCRIPTION:		FY 2024-25 STANDARD PLANS	WIND AND HANGER BEAMS FOR OVERHEAD SIGNS	INDEX 700-030	SHEET 1 of 1