ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Standard Plans:

Date: May 12, 2022 Originator: Rick Jenkins Index Number: 700-030 Sheet Number (s): 1 of 1

Phone: (850) 414-4355

Index Title: Wind and Hanger Beams for Overhead Signs

Email: Rick.Jenkins@dot.state.fl.us

Summary of the changes:

Added New General Note 1 - "Meet requirements of Specification 700."; Deleted Notes 6 and 7; Renumbered Notes; Updated General Note references in the TYPICAL SIGN FOR OVERHEAD TRUSS details; Changed the tolerance symbol "+/-" for the edge distance of the bottom U-bolt to a "Min."

Commentary / Background:

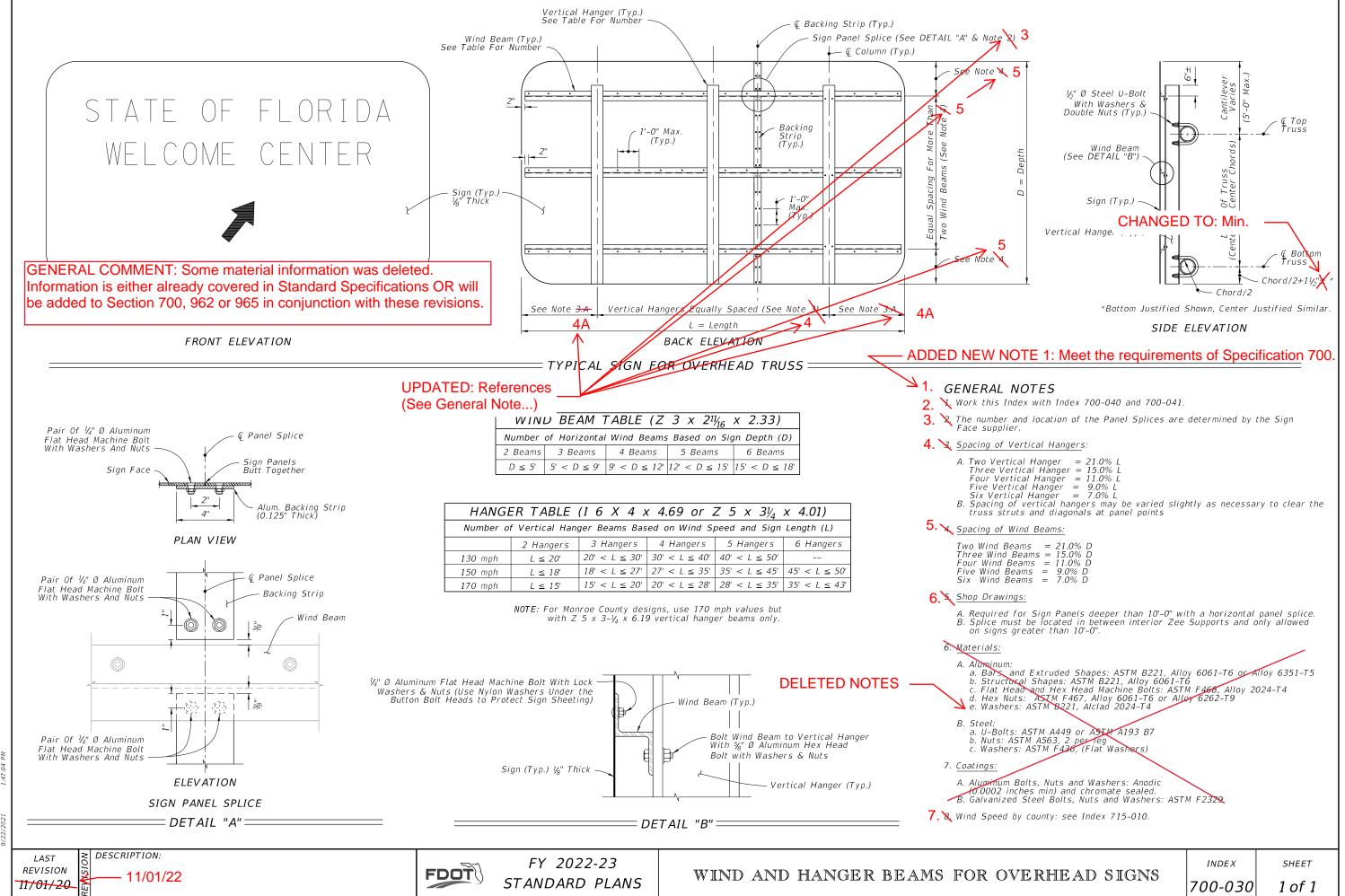
The 700 Index Series is being edited to remove material information and other information that is located in the Standard Specifications. Revisions are being made to Specification Sections 700, 962 and 965 in conjunction with these changes.

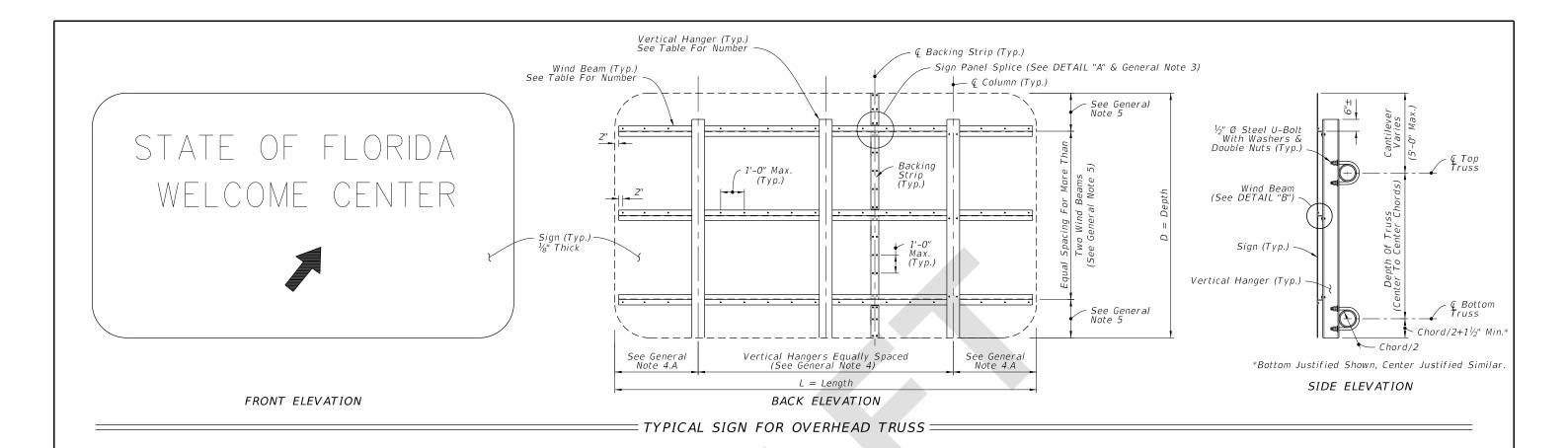
A tolerance of +/- suggests that the 1 1/2" dimension could be less and by some undefined amount. While any additional edge distance would not be structurally significant we wanted to put a lower limit on the edge distance.

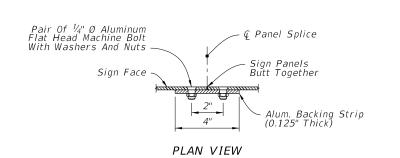
Other Affected Offices / Documents: (Provide name of person contacted)

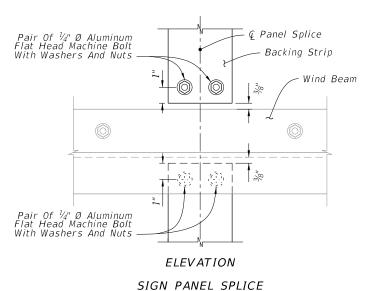
Yes	No				
✓		Other Standard Plans –			
	/	FDOT Design Manual – Dewayne Carver			
✓		Basis of Estimates Manual – Ryan Gray			
\checkmark		Standard Specifications – Daniel Strickland			
	/	Approved Product List – Missy Hollis			
	/	Construction – Jason Russell			
	/	Maintenance – Deanna Hutchison			
Origination Package Includes: (Submit package to Rick Jenkins) Implementation:					
Yes	N/A	4	Design Bulletin (Interim)		
/		Redline Mark-ups	DCE Memo		
		Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin		
		Other Support Documents	FY-Standard Plans (Next Release)		

Contact the Roadway Design Office for assistance in completing this form -







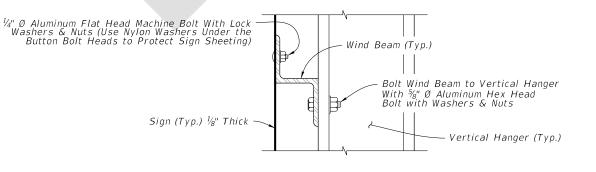


EDETAIL "A"=

WIN	D BEAM T	TABLE (Z	$3 \times 2^{11}/_{16}$	x 2.33)						
Number	Number of Horizontal Wind Beams Based on Sign Depth (D)									
2 Beams	3 Beams	4 Beams	5 Beams	6 Beams						
D ≤ 5′	$5' < D \le 9'$	$9' < D \le 12'$	$12' < D \le 15'$	$15' < D \le 18'$						

HANGER TABLE (I 6 X 4 x 4.69 or Z 5 x $3\frac{1}{4}$ 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 ≤ 20'	20' < L ≤ 30'	$30' < L \le 40'$	$40' < L \le 50'$					
150 mph	L ≤ 18'	18' < L ≤ 27'	27' < L ≤ 35'	$35' < L \le 45'$	$45' < L \le 50'$				
170 mph	L ≤ 15'	$15' < L \le 20'$	20′ < L ≤ 28′	28′ < L ≤ 35′	35' < L ≤ 43'				

NOTE: For Monroe County designs, use 170 mph values but with Z 5 x $3-\frac{1}{4}$ 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% 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 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% 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

- 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.

LAST REVISION 11/01/22

DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

WIND AND HANGER BEAMS FOR OVERHEAD SIGNS

INDEX

SHEET