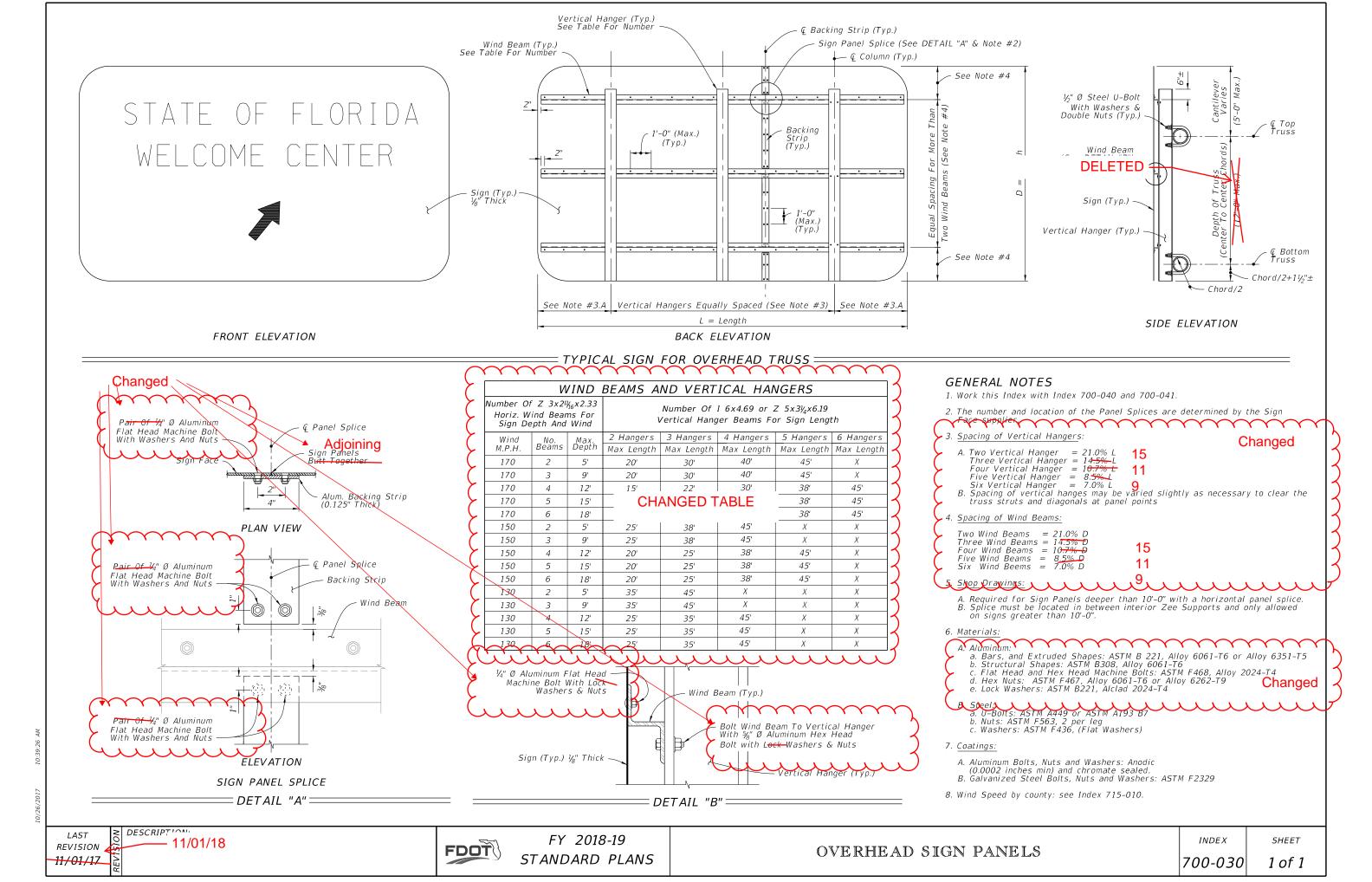
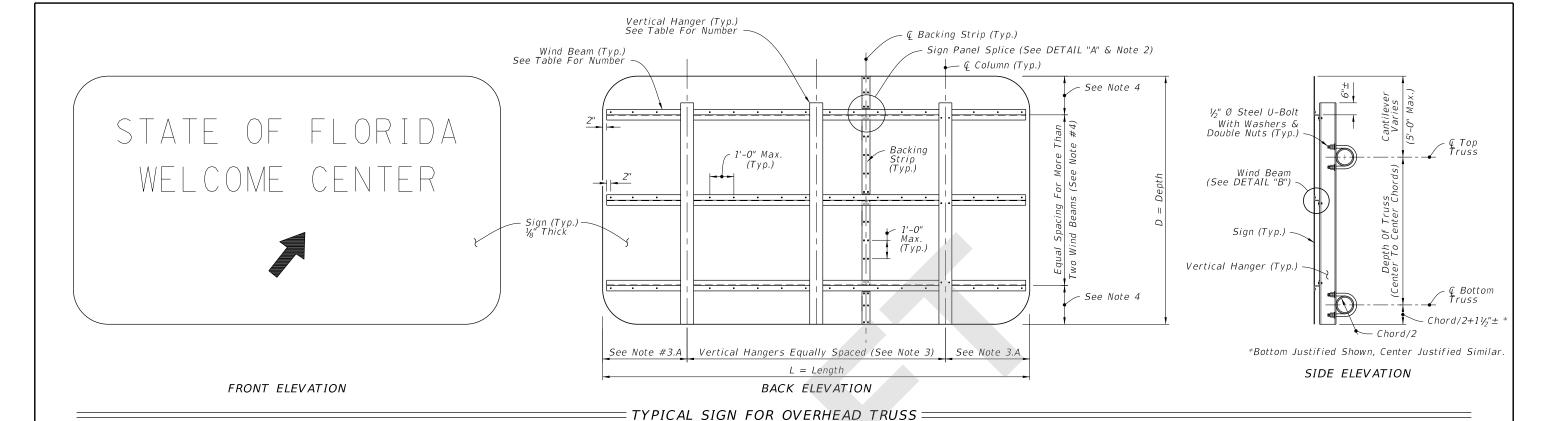
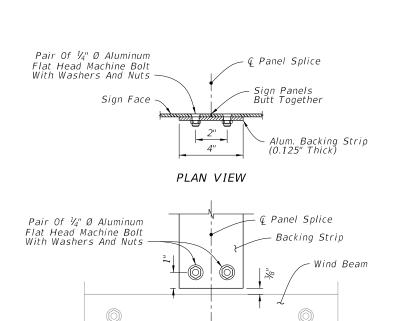
ORIGINATION FORM

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

Contact Information:	Standard Plans:
Date: July 17, 2018	Index Number: 700-030
Originator: Cheryl Hudson	Sheet Number (s): 1
Phone: (850) 414-5332 Email: cheryl.hudson@dot.state.fl.us	Index Title: Wind & Hanger Beams for Overhead Signs (was Overhead Sign Panels)
Summary of the changes:	
Changed the Title; Separated current table into two ta from SIDE ELEVATION. Changed % spacing for hanger	ables. Changed Note 8. Deleted Maximum chord spacing s; Changed to flat washers
Commentary / Background:	
Title was changed to better describe what is covered i	n the Standard. To clarify requirements of wind beams vs
	Additional hanger requirement was added for 180 mph wind
zone.	
Yes No	Provide name of responsible personnel)
Other Standard Plans –	
FDOT Design Manual –	
■ Basis of Estimates Manual –	
Standard Specifications –	
Approved Product List –	
Construction –	
Origination Package Includes: (Email or	hand deliver package to Derwood Sheppard)
Yes N/A ✓ Redline Mark-ups	
Proposed Standard Plan Instructions (SPI)	
Revised SPI	
Other Support Documents	
Implementation:	
Design Bulletin (Interim) DCE Memo Pro	gram Mgmt. Bulletin FY-Standard Plans (Next Release)
Contact the Roadway Design Offi	ce for assistance in completing this form ————————————————————————————————————



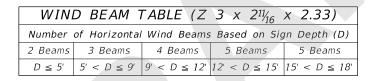




ELEVATION

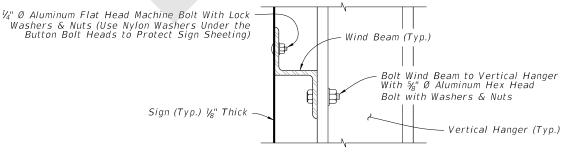
SIGN PANEL SPLICE

DETAIL "A"=



HANGER TABLE (I 6 x 4.69 or Z 5 x 31/4 x 6.19)						
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 $Z = 5 \times 3 - \frac{1}{4} \times 6.19$ vertical hanger beams only.



DETAIL "B"

GENERAL NOTES

- 1. Work this Index with Index 700-040 and 700-041.
- 2. The number and location of the Panel Splices are determined by the Sign
- 3. Spacing of Vertical Hangers:
- A. Two Vertical Hanger = 21.0% 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
- 4. 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

- 5. 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".
- 6. Materials.
- A. Aluminum.
- a. Bars, and Extruded Shapes: ASTM B 221, Alloy 6061-T6 or Alloy 6351-T5
- b. Structural Shapes: ASTM B308, 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

- a. U-Bolts: ASTM A449 or ASTM A193 B7 b. Nuts: ASTM F563, 2 per leg c. Washers: ASTM F436, (Flat Washers)
- 7. Coatings:
 - A. Aluminum Bolts, Nuts and Washers: Anodic (0.0002 inches min) and chromate sealed.

 - B. Galvanized Steel Bolts, Nuts and Washers: ASTM F2329
- 8. Wind Speed by county: see Index 715-010.

REVISION 11/01/18

Pair Of 1/4" Ø Aluminum

Flat Head Machine Bolt

With Washers And Nuts

DESCRIPTION:

FDOT

FY 2019-20 STANDARD PLANS

WIND AND HANGER BEAMS FOR OVERHEAD SIGNS

INDEX

SHEET

700-030 1 of 1