# Origination Form Proposed Revisions to a Standard Plans Index

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Date:	4/23/2024	Sheet Number(s):	2
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# Summary of the changes:

Sheet 2: Added shim info to the TABLE OF POST ATTACHMENT COMPONENTS

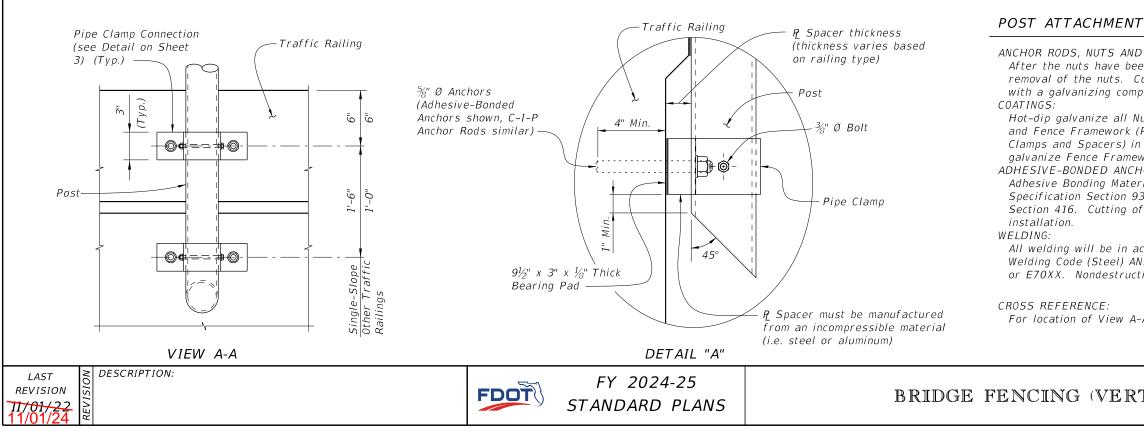
# Commentary/Background:

We needed to add some limiting parameters to edges shims so that they get installed correctly.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation	
["FY-Standard Plans (Next Release)"]	

		TABLE OF	CHAIN LINK FENCE COMPONENTS		ΤΑΕ	BLE OF POST .
	COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION		COMPONENT	ASTM DESIGNATIO
	Posts	F1083	Galvanized Steel Pipe – 3" NPS, Schedule 40 Regular Grade	Pipe	Clamps	A36 or A709 Grade 3
	Chain Link Fabric (2" mesh with twisted	A392	Zinc Coated Steel – 9 gage (coated wire diameter), Class 2 Coating	Base	e Plates	A36 or A709 Grade 3
ets	top and knuckled bottom selvage)	A491	Aluminum Coated Steel – 9 gage (coated wire diameter)	Chin	n Plates	A36 or A709 Grade 36
'c Railings rete Parapets		F668	Polyvinyl Chloride (PVC) Coated Steel – 9 gage Class 2b	5111	n Praces	B209 Alloy 6063 or B221 Alloy 606
ic Rai rete I	Tie Wires	F626	Zinc Coated Steel Wire - 9 gage	Spac	cers	-
Traffic Concrei	Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	lamp stion	Adhesive Anchor Rods	F1554 Grade .
and	Tension Bars	F626	$^{3}\!_{16}$ " (Min. thickness) x $^{3}\!_{4}$ " (Min. width) x 5'-10" (Min. height) Steel Bars	Pipe Clamp Connection	C-I-P Anchor Rods	F1554 Grade
	Tension Bands	F626	14 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands			F1554 Grade .
	Miscellaneous Fence Components	F626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)	Base Plate Connection	Autosive Anchor Hous	
	Horizontal Rails	F1083	Galvanized Steel Pipe – $2\frac{1}{2}$ " NPS, Schedule 40 Regular Grade	Bas	C-I-P Anchor Rods	F1554 Grade .
ъъ	Expansion Rails	F1083	Galvanized Steel Pipe – 2" NPS, Schedule 40 Regular Grade	Bolt	5	A307
Concrete Parapets	Bolts	A307	$\frac{1}{4}$ "Ø x $4\frac{1}{4}$ " Hex Head Bolts for Expansion Rail Connections	Nuts	5	A563
Co Pa	Nuts	A563	Hex Nuts for Expansion Rail Connections	Was	hers	F436
	Washers	F 436	Flat Washers for Expansion Rail Connections	Bear	ing Pads (Plain Neoprene)	-
gs	Tanaian Wina	4024 6 4017	Type II (Zinc Coated Steel Wire) - 7 gage, Class 4 Coating			
Railings	Tension Wire	A824 & A817	Type I (Aluminum Coated Steel Wire) - 7 gage			
affic R	Hog Rings	F626	Zinc Coated Steel Wire - 12 gage		DED: For edge shims	
Traf	Brace Rails	F1083	Galvanized Steel Pipe - $1_4^{\prime\prime}$ NPS, Schedule 40 Regular Grade	<ul> <li>base plate with a min. width of 3/4". A bonding material bed of 1-1/2" (Min.)</li> </ul>		



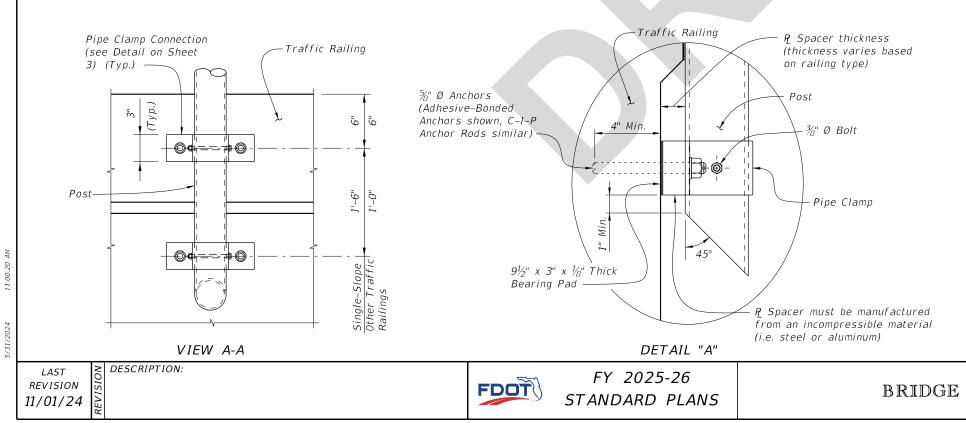
### POST ATTACHMENT

- ANCHOR RODS, NUTS AND After the nuts have beer removal of the nuts. Co with a galvanizing compo COATINGS:
- Hot-dip galvanize all Nu and Fence Framework (P Clamps and Spacers) in
- galvanize Fence Framew ADHESIVE-BONDED ANCHO Adhesive Bonding Materi Specification Section 932 Section 416. Cutting of installation.
- WELDING:
- All welding will be in acc or E70XX. Nondestructive testing of welds is not required.
- CROSS REFERENCE: For location of View A-A and Detail "A" see Sheet 1.

- ASTM		COMPONENT INFORMATION	
	DESIGNATION A36 or A709 Grade 36	¼" Steel P	
	A709 Grade 30 A36 or A709 Grade 36	¾" Steel P	
	A36 or A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063-75	Plate thicknesses as required; Holes in shim plates will be $\frac{3}{4}$ " Ø	
	- Ę	Plate thickness varies based on traffic railing type	u
r Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods ~ ½" Ø x 6" (no spacer) or ½" Ø x (6" + spacer thickness)	
ods	F1554 Grade 36	Hex Head Anchor Rods ~ $\frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)	
r Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods ~ $\frac{7}{8}$ " Ø x 14 $\frac{1}{2}$ "	
ods	F1554 Grade 36	Hex Head Anchor Rods ~ $\frac{7}{8}$ " Ø x 14 $\frac{1}{2}$ "	
	A307	$\frac{3}{6}$ " Ø x $4\frac{3}{4}$ " Hex Head Bolts for Pipe Clamp Connections to Posts	
	A563	Hex Nuts for Pipe Clamp and Base Plate Connections	
	F436	Flat Washers for Pipe Clamp and Base Plate Connections	
eoprene)	-	In accordance with Specification Section 932 for Ancillary Structures	
min. wi ped of POST A NCHOR F After th removal	of the nuts. Coat distor	S S: hed, distort the Anchor Rod threads to prevent rted threads and exposed trimmed ends of anchors	
OATINGS Hot-dip and Fen Clamps galvaniz DHESIVE Adhesive Specific	: galvanize all Nuts, Wash ce Framework (Posts, Int and Spacers) in accordar re Fence Framework afte E-BONDED ANCHORS AND e Bonding Material Syste ration Section 937 and be 416. Cutting of reinford		

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		TABLE OF	CHAIN LINK FENCE COMPONENTS	TAB	LE OF POST ATTA	CHMENT COMPONENTS
COMPONENT		ASTM DESIGNATION	COMPONENT INFORMATION	COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
	Posts	F1083	Galvanized Steel Pipe – 3" NPS, Schedule 40 Regular Grade	Pipe Clamps	A36 or A709 Grade 36	¼" Steel P
	Chain Link Fabric (2" mesh with twisted	A392	Zinc Coated Steel – 9 gage (coated wire diameter), Class 2 Coating	Base Plates	A36 or A709 Grade 36	¾" Steel P
; oet s	top and knuckled bottom selvage)	A491	Aluminum Coated Steel – 9 gage (coated wire diameter)	Shim Plates	A36 or A709 Grade 36 or	Plate thicknesses as required. Holes in shim plate will be $\frac{3}{4}$ " Ø. For edge shims match the edge lengt
ilings Parap		F668	Polyvinyl Chloride (PVC) Coated Steel – 9 gage Class 2b		B209 Alloy 6061-T6 or B221 Alloy 6063-T5	of the base plate with a min. width of 3/4". Apply adhesive bonding material bed of 1-1/2" (Min.) wide
ic Ra trete	Tie Wires	F626	Zinc Coated Steel Wire – 9 gage	Spacers	-	Plate thickness varies based on traffic railing typ (See Detail "A")
Traffic Railings and Concrete Parapet	Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	Clamp Oction Adhesive Anchor Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods ~ $\frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)
ano	Tension Bars	F626	$^{3}\!_{16}$ " (Min. thickness) x $^{3}\!_{4}$ " (Min. width) x 5'-10" (Min. height) Steel Bars	ed C-I-P Anchor Rods F15	F1554 Grade 36	Hex Head Anchor Rods ~ ⅔" Ø x 6" (no spacer) or ⅔" Ø x (6" + spacer thickness)
	Tension Bands	F626	14 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands		F1554 Grade 36	Fully threaded Headless Anchor Rods ~
	<i>Miscellaneous Fence Components</i>	F626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)		51554 Crede 20	$\frac{7}{8}$ 0 x 14 <sup>1</sup> / <sub>2</sub>
	Horizontal Rails	F1083	Galvanized Steel Pipe – 2½" NPS, Schedule 40 Regular Grade	ester C-I-P Anchor Rods	F1554 Grade 36	Hex Head Anchor Rods $\sim \frac{7}{8}$ " Ø x $14\frac{1}{2}$ "
- 10	Expansion Rails	F1083	Galvanized Steel Pipe – 2" NPS, Schedule 40 Regular Grade	Bolts	A307	$\frac{3}{6}$ " Ø x $4\frac{3}{4}$ " Hex Head Bolts for Pipe Clamp Connections to Posts
Concrete Parapets	Bolts	A307	$\frac{1}{4}$ " Ø x $\frac{4}{4}$ " Hex Head Bolts for Expansion Rail Connections	Nuts	A563	Hex Nuts for Pipe Clamp and Base Plate Connections
Con Par	Nuts	A563	Hex Nuts for Expansion Rail Connections	Washers	F436	Flat Washers for Pipe Clamp and Base Plate Connections
	Washers	F436	Flat Washers for Expansion Rail Connections	Bearing Pads (Plain Neoprene)	_	In accordance with Specification Section 932 for Ancillary Structures
fic Railings	Tension Wire A824 & A817	Type II (Zinc Coated Steel Wire) – 7 gage, Class 4 Coating				
		Type I (Aluminum Coated Steel Wire) - 7 gage				
	Hog Rings	F626	Zinc Coated Steel Wire – 12 gage			
Traffic	Brace Rails	F1083	Galvanized Steel Pipe – $1\frac{1}{4}$ " NPS, Schedule 40 Regular Grade			



#### POST ATTACHMENT NOTES

- COATINGS:
- installation. WELDING:

CROSS REFERENCE:

ANCHOR RODS, NUTS AND WASHERS: After the nuts have been tightened, distort the Anchor Rod threads to prevent removal of the nuts. Coat distorted threads and exposed trimmed ends of anchors with a galvanizing compound in accordance with Specification Section 562. Hot-dip galvanize all Nuts, Washers, Bolts, C-I-P Anchor Rods, Adhesive Anchors and Fence Framework (Posts, Internal Sleeves, Shim Plates, Base Plates, Pipe Clamps and Spacers) in accordance with Specification Section 962. Hot-dip galvanize Fence Framework after fabrication. ADHESIVE-BONDED ANCHORS AND DOWELS: Adhesive Bonding Material Systems for Anchors and Dowels will comply with Specification Section 937 and be installed in accordance with Specification Section 416. Cutting of reinforcing steel is permitted for drilled hole All welding will be in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). Weld metal will be E60XX or E70XX. Nondestructive testing of welds is not required. For location of View A-A and Detail "A" see Sheet 1. INDEX SHEET BRIDGE FENCING (VERTICAL) 550-010 2 of 4