Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	550-013
Date:	4/23/2024	Sheet Number(s):	2
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	BRIDGE FENCING ON BARRIER (CURVED TOP)

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.

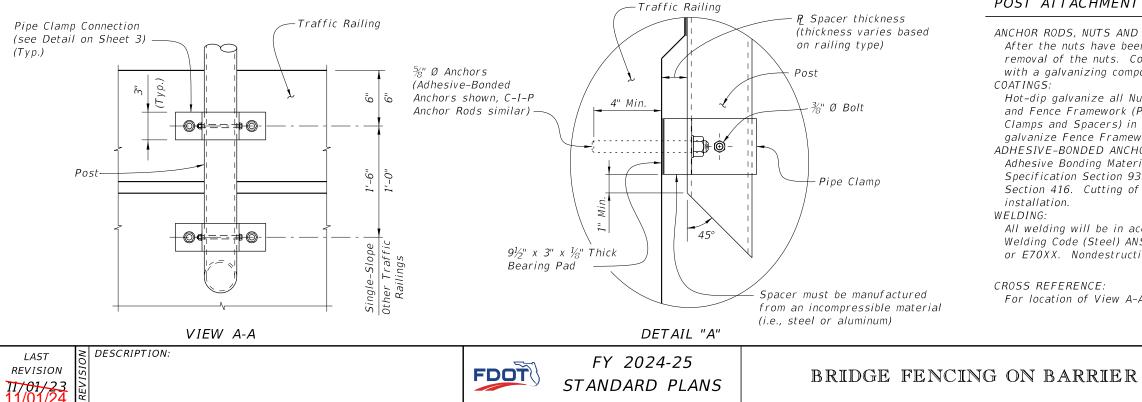
Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

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

	TABLE OF	CHAIN LINK FENCE COMPONENTS		TA	BLE OF POST A
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION		COMPONENT	ASTM DESIGNATIC
Posts	F1083	Galvanized Steel Pipe – $3\frac{1}{2}$ " 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	Plates	A36 or A709 Grade 3
top and knuckled bottom selvage)	A491	Aluminum Coated Steel – 9 gage (coated wire diameter)	Shim	Plates	A36 or A709 Grade 36
	F668	Polyvinyl Chloride (PVC) Coated Steel – 9 gage Class 2b	511111	Fraces	B209 Alloy 6061 or B221 Alloy 606
Tie Wires	F626	Zinc Coated Steel Wire – 9 gage	Space	ers	-
Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	<i>Clamp</i> <i>ection</i>	Adhesive Anchor Rods	F1554 Grade 3
Tension Bars	F626	$^{3}\!_{16}$ " (Min. thickness) x $^{3}\!_{4}$ " (Min. width) x 6'-10" (Min. height) Steel Bars	Pipe C Conne	C-I-P Anchor Rods	F1554 Grade 3
Tension Bands	F626	14 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands	Bolts		A307
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)	Nuts		A563
		Type II (Zinc Coated Steel Wire) - 7 gage, Class 4 Coating			
Tension Wire	A824 & A817	Type I (Aluminum Coated Steel Wire) - 7 gage	Wash	ers	F 436
Hog Rings	F626	Zinc Coated Steel Wire - 12 gage		ing Pads n Neoprene)	-
Brace Rails	F1083	Galvanized Steel Pipe – $1_4^{\prime\prime\prime}$ NPS, Schedule 40 Regular Grade			

ADDED: For edge shims match the edge length of the base plate with a min. width of 3/4". Apply adhesive bonding material bed of 1-1/2" (Min.) wide



POST ATTACHMENT NOTES

- ANCHOR RODS, NUTS AND WASHERS:
- ADHESIVE-BONDED ANCHORS AND DOWELS:
- CROSS REFERENCE:

ATTAC	CHMENT COMPONENTS		
ION	COMPONENT INFORMATION		
36	¼" Steel P		
36	¾" Steel R	~~~	
6 01 61-T6 063-T5	Plate thicknesses as required; Holes in shim plates will be $\frac{3}{4}$ " Ø		
	Plate thickness varies based on traffic	u	³
36	Fully threaded Headless Anchor Rods ~ $\frac{5}{6}$ " Ø x 6" (no spacer) or $\frac{5}{6}$ " Ø x (6" + spacer thickness)		
36	Hex Head Anchor Rods ~ $\frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)		
	$\frac{3}{8}''$ Ø x $4\frac{3}{4}''$ Hex Head Bolts for Pipe Clamp Connections to Posts		
	Hex Nuts for Pipe Clamp Connections		
	Flat Washers for Pipe Clamp Connections		
	In accordance with Specification Section 932 for Ancillary Structures		
		,	

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.

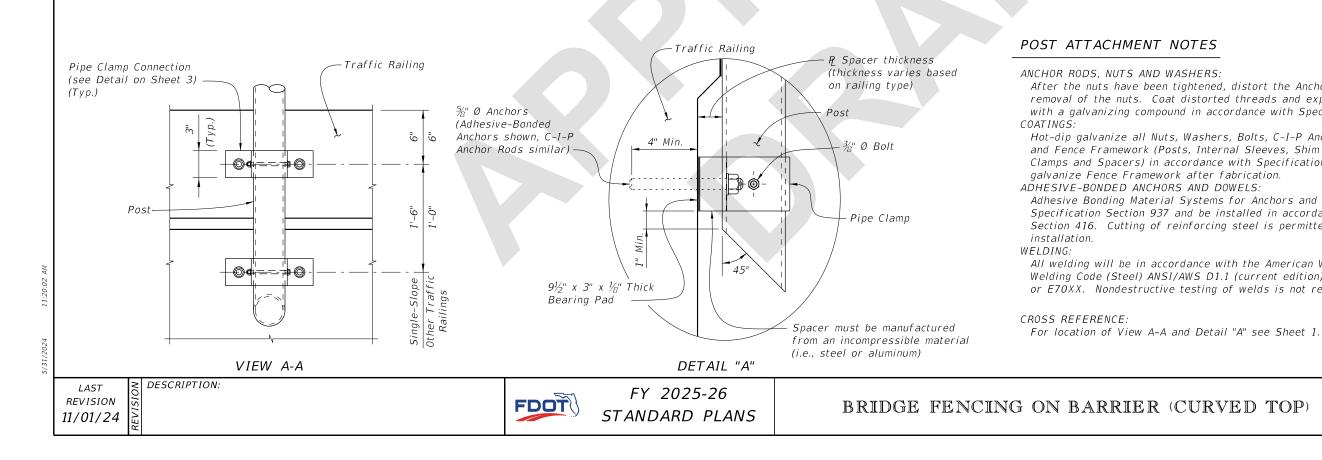
Adhesive Bonding Material Systems for Anchors and Dowels will comply with Specification Section 937 and be installed in accordance with Specification Section 416. Cutting of reinforcing steel is permitted for drilled hole

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
(CURVED TOP)	550-013	2 of 3

	TABLE OF	F CHAIN LINK FENCE COMPONENTS	TA	BLE OF POST ATTA	CHMENT COMPONENTS
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION	COMPONENT ASTM DESIGNATION		COMPONENT INFORMATION
Posts	F1083	Galvanized Steel Pipe – $3\frac{1}{2}$ " NPS, Schedule 40 Regular Grade	Pipe Clamps	A36 or A709 Grade 36	¼" Steel F
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
top and knuckled bottom selvage)	A491	Aluminum Coated Steel – 9 gage (coated wire diameter)	Shim Plates	A36 or A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063-T5	Plate thicknesses as required. Holes in shim plate: will be $\frac{3}{4}''$ Ø. For edge shims match the edge lengtl
-	F668	Polyvinyl Chloride (PVC) Coated Steel – 9 gage Class 2b	Shim Places		of the base plate with a min. width of 3/4". Apply adhesive bonding material bed of 1-1/2" (Min.) wide
Tie Wires	F626	Zinc Coated Steel Wire – 9 gage	Spacers	-	Plate thickness varies based on traffic railing type (See Detail "A")
Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	Clamb ection Adhesive Anchor Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods ~ $\frac{5}{6}$ " Ø x 6" (no spacer) or $\frac{5}{6}$ " Ø x (6" + spacer thickness)
Tension Bars	F626	$3_{16}^{\prime\prime}$ (Min. thickness) x $3_4^{\prime\prime}$ (Min. width) x 6'-10" (Min. height) Steel Bars	C-I-P Anchor Rods	F1554 Grade 36	Hex Head Anchor Rods ~ $\frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)
Tension Bands	F626	14 Gage (Min. thickness) x ¾" (Min. width) Steel Bands	Bolts	A307	$\frac{3}{6}$ " Ø x $4\frac{3}{4}$ " Hex Head Bolts for Pipe Clamp Connections to Posts
<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)	Nuts	A563	Hex Nuts for Pipe Clamp Connections
Tension Wire A824	1074 C 1017	Type II (Zinc Coated Steel Wire) – 7 gage, Class 4 Coating	Washers		Flat Washers for Pipe Clamp
	A824 & A817	Type I (Aluminum Coated Steel Wire) - 7 gage		F436	Connections
Hog Rings	F626	Zinc Coated Steel Wire - 12 gage	Bearing Pads (Plain Neoprene)	-	In accordance with Specification Section 932 for Ancillary Structures
Brace Rails	F1083	Galvanized Steel Pipe – $1_4^{1/2}$ NPS, Schedule 40 Regular Grade			



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 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. INDEX SHEET 550-013 2 of 3