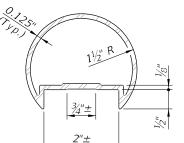


# 3D VIEW OF RAILING WITH TYPE 1 - PICKET INFILL PANEL (42" Height shown, 48" Height Similar)

TABLE 1 - RAILING MEMBERS								
MEMBER	ALLOY <sup>(1)</sup>	DESIGNATION	OUTSIDE DIMENSION	WALL THICKNESS				
Posts (Type "A" & "B")	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250"				
Posts (Type "C")	6061-T6	Extrusion $1\frac{1}{2} \times 2\frac{1}{2} \times 0.125$	1.50" x 2.50"	0.125"				
Top Plate (Type "C")	6061-T6	Extrusion (See Details)	2¾" x 7"	Varies				
Top Rail	6061-T6	2½" NPS (Sch. 10)	2.875"	0.120"				
		3" Round Top Cap Rail	3.000"	0.125"				
End Hoops	6063-T5	2½" NPS (Sch. 10)	2.875"	0.120"				
		3.00 OD x 0.125 Wall	3.000"	0.125"				
Top Rail Joint/Splice Sleeves	6063-T5	2.50 OD x 0.125 Wall	2.500"	0.125"				
		Top Cap Rail Inner Sleeve	2.800"	0.090"				
Intermediate & Bottom Rail	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250" (2)				
Int. & Bottom Rail Post Connection Sleeve	6063-T5	1.50 OD x 0.125 Wall <sup>(3)</sup>	1.500"	0.125"				
Handrail Joint/Splice Sleeves	6063-T5	1" NPS (Sch. 40)	1.315"	0.133"				
	6063-T5	1.50 OD x 0.125 Wall	1.500"	0.125"				
Handrails	6061-T6	1½" NPS (Sch. 40)	1.900"	0.145"				
Handrail Support Bar	6061-T6	¾" Ø Round Bar	0.750"	N/A				
Pickets (Type 1 Infill Panel)	6061-T6	¾" Ø Round Bar	0.750"	N/A				
Infill Panel Members (Types 2 - 5)	6063-T5	Varies (See Details)	Varies	Varies				

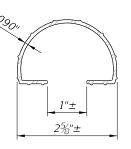
### TABLE 1 NOTES:

- (1) Alloy 6061-T6 or 6063-T52 & T6 may be substituted for Alloy 6063-T5.
- (2) 0.188" wall thickness permitted for rails with post spacings less than 5'-9".
- (3) 1" NPS (Sch. 40) non-slit rail sleeves may be substituted when welded connection Detail "K" is utilized.

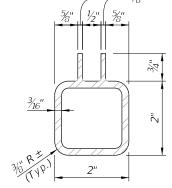


≥ DESCRIPTION:

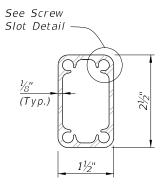
3" ROUND TOP CAP RAIL TOP CAP RAIL INNER SPLICE SLEEVE



ALTERNATE TOP RAIL SECTION =



ALTERNATIVE BOTTOM & INTERMEDIATE RAIL SECTION FOR TYPE 3, 4 & 5 RAILINGS



POST TYPE "C" SCREW SLOT SECTION

# $\equiv$ NOTES $\equiv$

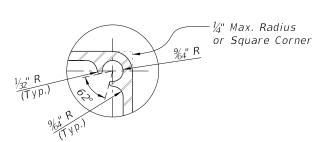
- 1. Shop Drawings are required, see Specification Section 515.
- 2. For bridge mounted railings, work this Index with Index 515-061 Bridge Bicycle/Pedestrian Railing (Aluminum)
- - A. Structural Extrusions, Tube, Pipe and Bars: Table 1 and ASTM B221 or ASTM B429
    - a. Top, bottom and intermediate rail corner bends with maximum 4'-0" post spacing may be Alloy 6063-T6
  - B. Base Plates and Rail Caps: ASTM B209 Alloy 6061-T6
  - C. Perforated panels (Type 5) Alloy 3003-H14
  - D. Stainless steel (SS) screws: Type 316 or 18-8 Alloy
  - E. Aluminum screws: Alloy 2024-T4 or 7075-T73
  - F. Galvanized Steel Fasteners: coated in accordance with Specification Section 962.
    - a. Hex Head Bolts: ASTM A 307
      - 1. %" diameter single bolt option, Grade 36
      - 2.  $\frac{7}{16}$ " diameter four bolt option, Grade 55
    - b. Adhesive Anchors: ASTM F1554 fully threaded rods, Grade 55
    - c. Hex Nuts: ASTM A563
    - d. Flat Washers: ASTM F436
    - e. Plate Washers: ASTM A36 or ASTM A706 Grade 36.
  - G. Shims: ASTM B209 Alloy 6061 or 6063
  - H. Bearing Pads: Provide 1/8" thick Plain, Fabric Reinforced or Fabric Laminated Bearing Pads meeting the requirements of Specification Section 932 for Ancillary Structures.
- 4. Fabricate pickets and vertical panel elements parallel to the posts; except Type 2, 3 and 5 panel infills may be fabricated parallel to the longitudinal grade. Maintain a maximum clear opening of 5% for standard installations and 3% when a 4" sphere requirement is indicated in the Data Tables.
- 5. Locate railing expansion Joints between the posts on either side of
- the deck expansion joint. Maximum spacing between expansion joints is 35'-0".
- 6. Field splices are similar to the Expansion Joint Detail and may be approved by the Engineer to facilitate handling; but the top rail must be continuous across a minimum of two posts.
- 7. For intermediate and bottom horizontal rails, the screwed joints shown may be substituted with alternate joints shown in detail "K" for Post Type "A" & "B".
- 8. Make corners and changes in tangential longitudinal alignment with a 9" bend radius or terminate adjoining sections with mitered end sections when handrails are not required.
- 9. For changes in tangential longitudinal alignment greater than 45', position posts a maximum of 2'-0" each side of the corner but not at the corner apex.
- 10. For curved longitudinal alignments, shop bend the top and bottom rails and handrails to match the alignment radius.
- 11. Handrails are required and must be continuous at landings for:
  - A. Grades Steeper than 5%,
  - B. Three or more steps
- 12. Installation: Cutting of reinforcing steel is permitted for post installed anchors.

#### CROSS REFERENCES:

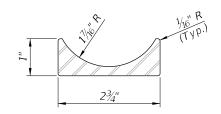
Detail "A", Sheet 4

Detail "B", Sheet 4

Detail "K", Sheet 3



SCREW SLOT DETAIL



OPTIONAL TOP PLATE EXTRUSION SECTION (POST TYPE "C")

REVISION 11/01/18

FDOT

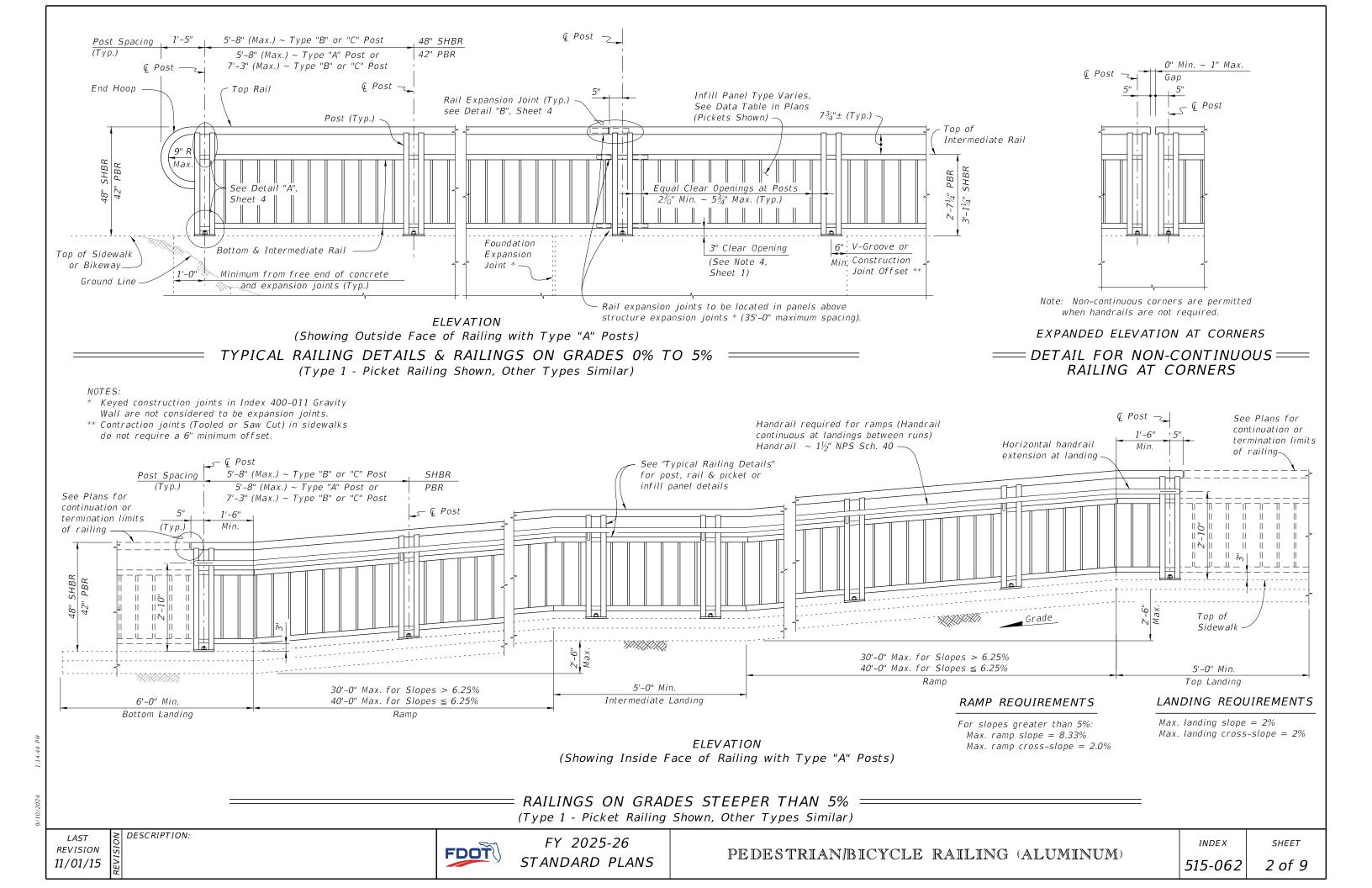
FY 2025-26 STANDARD PLANS

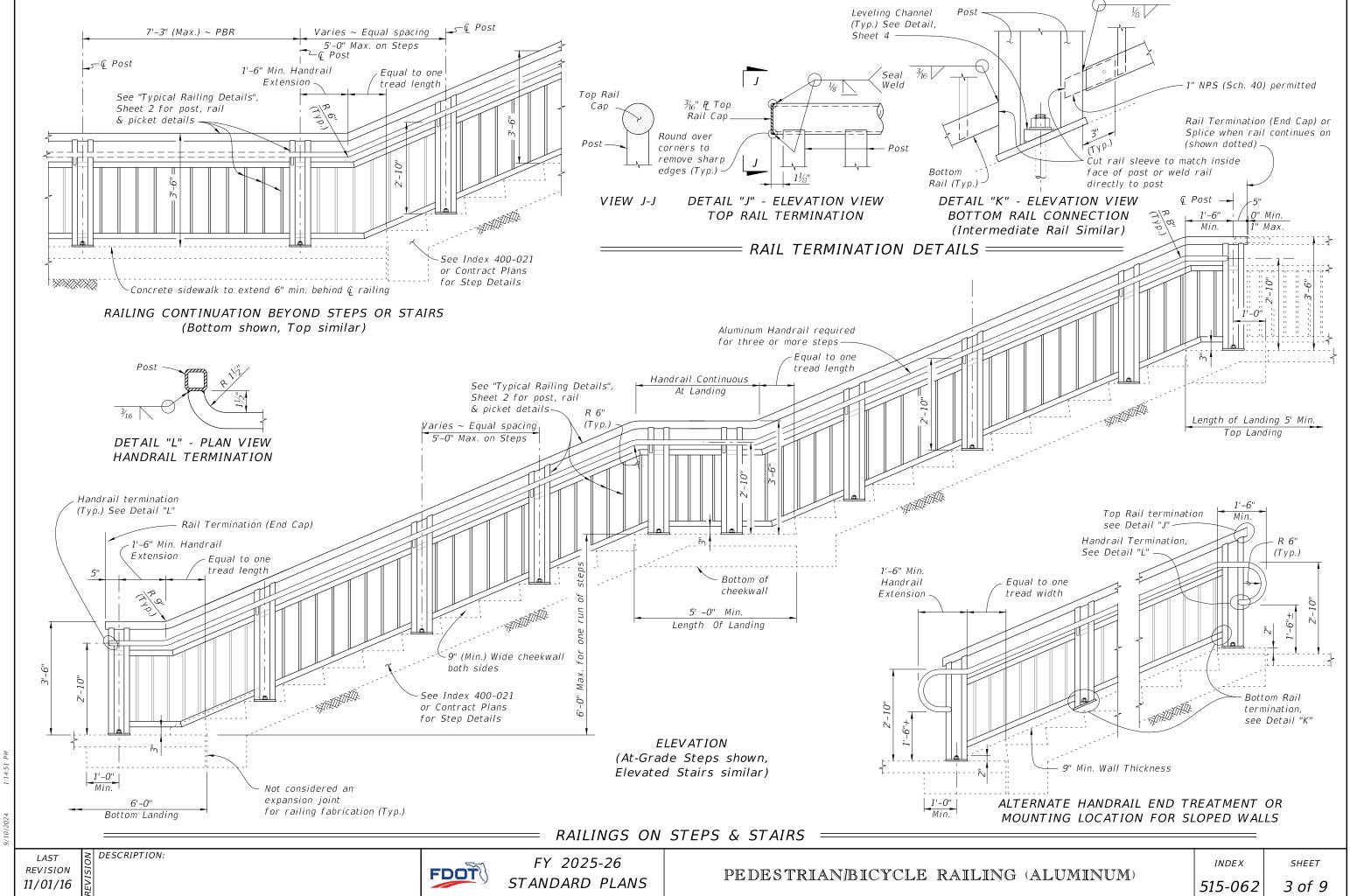
INDEX

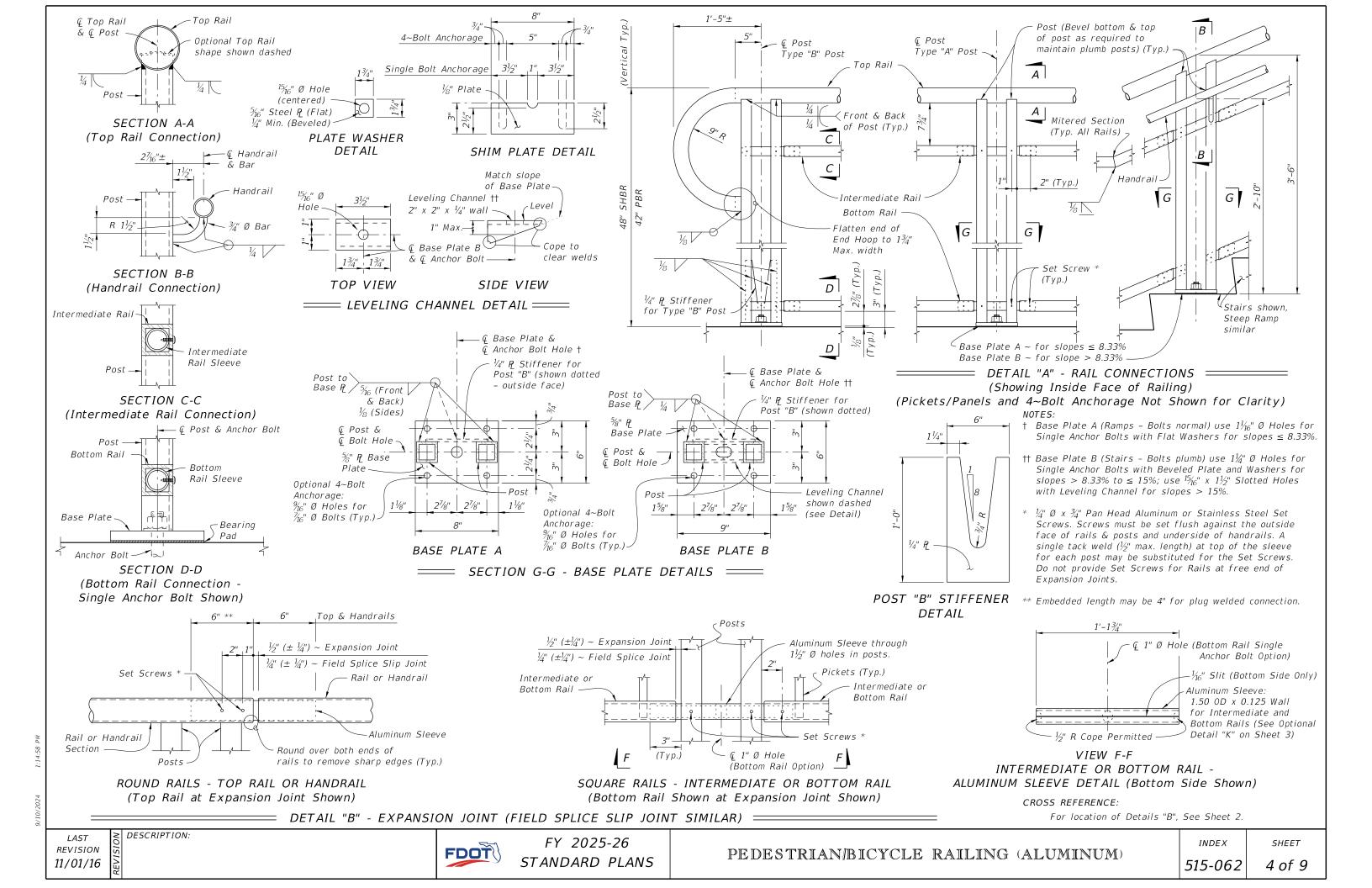
SHEET

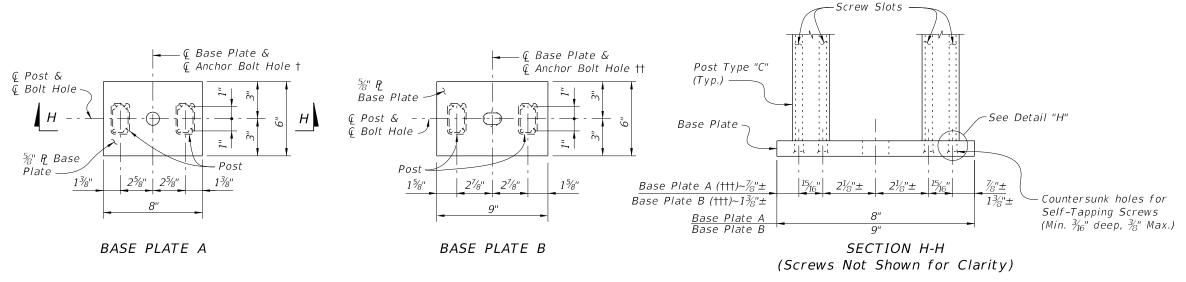
1 of 9

515-062

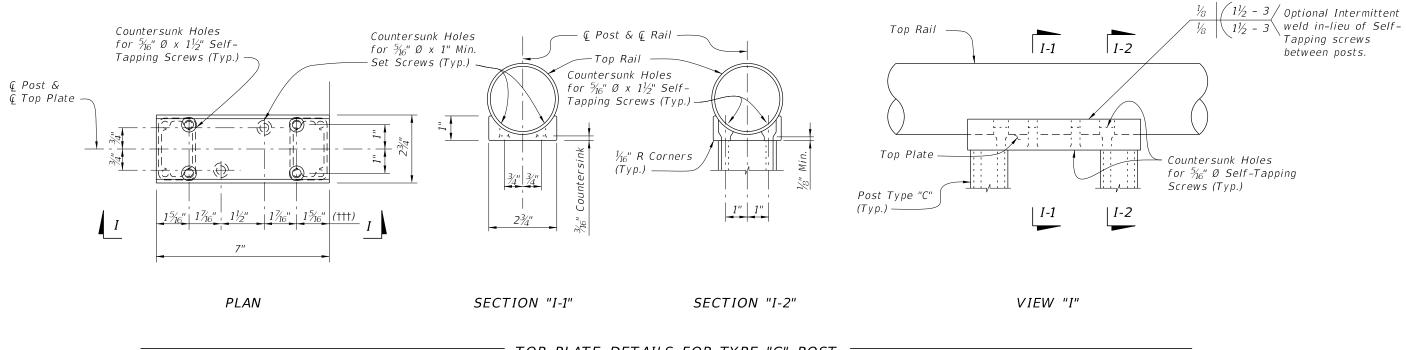












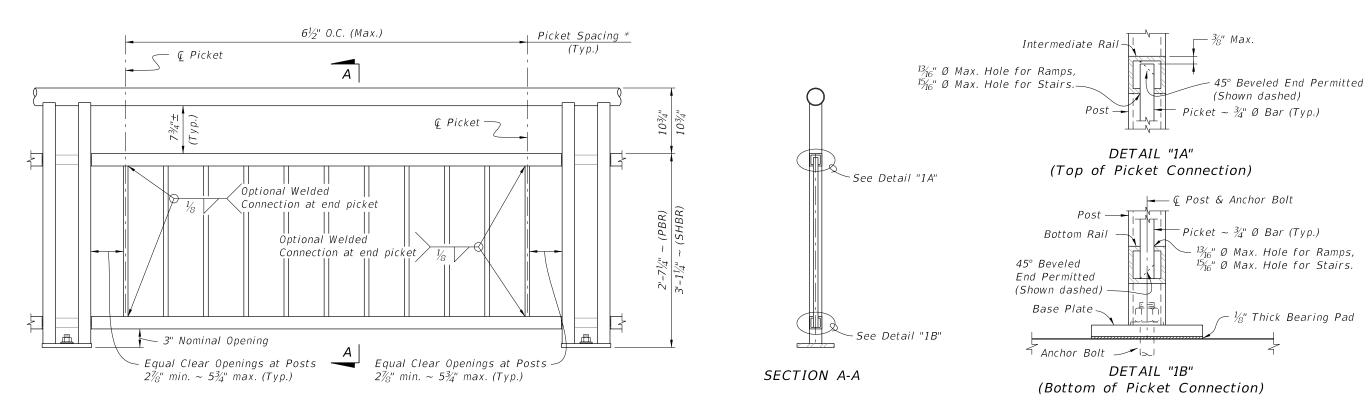
= TOP PLATE DETAILS FOR TYPE "C" POST = (Screws Not Shown For Clarity)

#### Notes:

- See Sheet 4 for Notes.
- See Sheet 4 for Notes.
- Length varies for beveled posts on grades. Holes must be drilled plumb to align with screw slot.

DESCRIPTION: REVISION 11/01/16

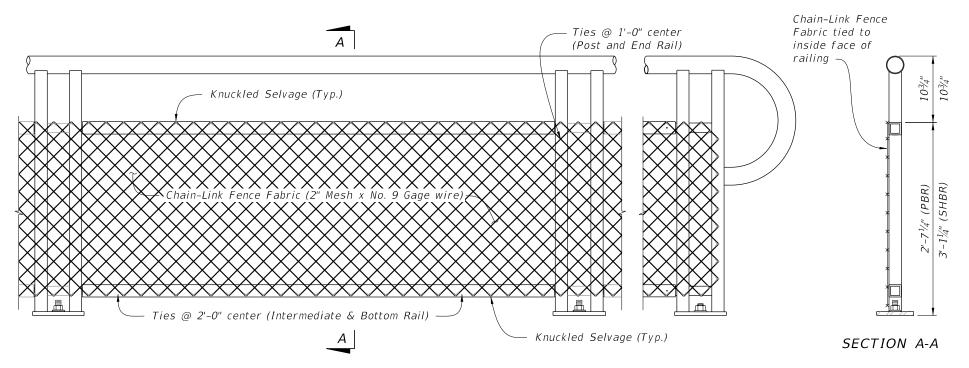
FDOT



## TYPE 1 - PICKET INFILL PANEL

#### PICKET NOTES:

\* Picket Spacing of  $6\frac{1}{2}$ " centers is based on a  $\frac{3}{4}$ " Ø Bar for standard applications. When shown in the Contract Plans a  $4\frac{1}{2}$ " picket spacing may be required. See Note 4 (Sheet 1).



COMPONENT	ASTM	COMPONENT INFORMATION	
Chain-Link Fence Fabric (2" mesh with knuckled top and bottom selvage)	A392	Zinc-Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating	
	A491	Aluminum-Coated Steel - No. 9 gage (coated wire diameter)	
	F668	Polyvinyl Chloride (PVC) Coated Steel - No 9 gage Zinc-Coated Wire (metallic-coated core wire diameter) ~ See Plans for specified color of PVC.	
Tie Wires	F626	Zinc-Coated Steel Wire - No. 9 gage with coating to match Chain-Link Fence Fabric.	
Tension Bars	F626	$\frac{3}{16}$ " (min. thickness) x $\frac{3}{4}$ " (min. width) x 2'-3' (min. height) Steel Bars	
Miscellaneous Fence Components	F626	Zinc-Coated Steel	

TABLE 2 - CHAIN-LINK PANEL COMPONENT MATERIALS

# TYPE 2 - CHAIN-LINK (Continuous Infill Panel)

DESCRIPTION:

See Plans for Infill Panel option required.

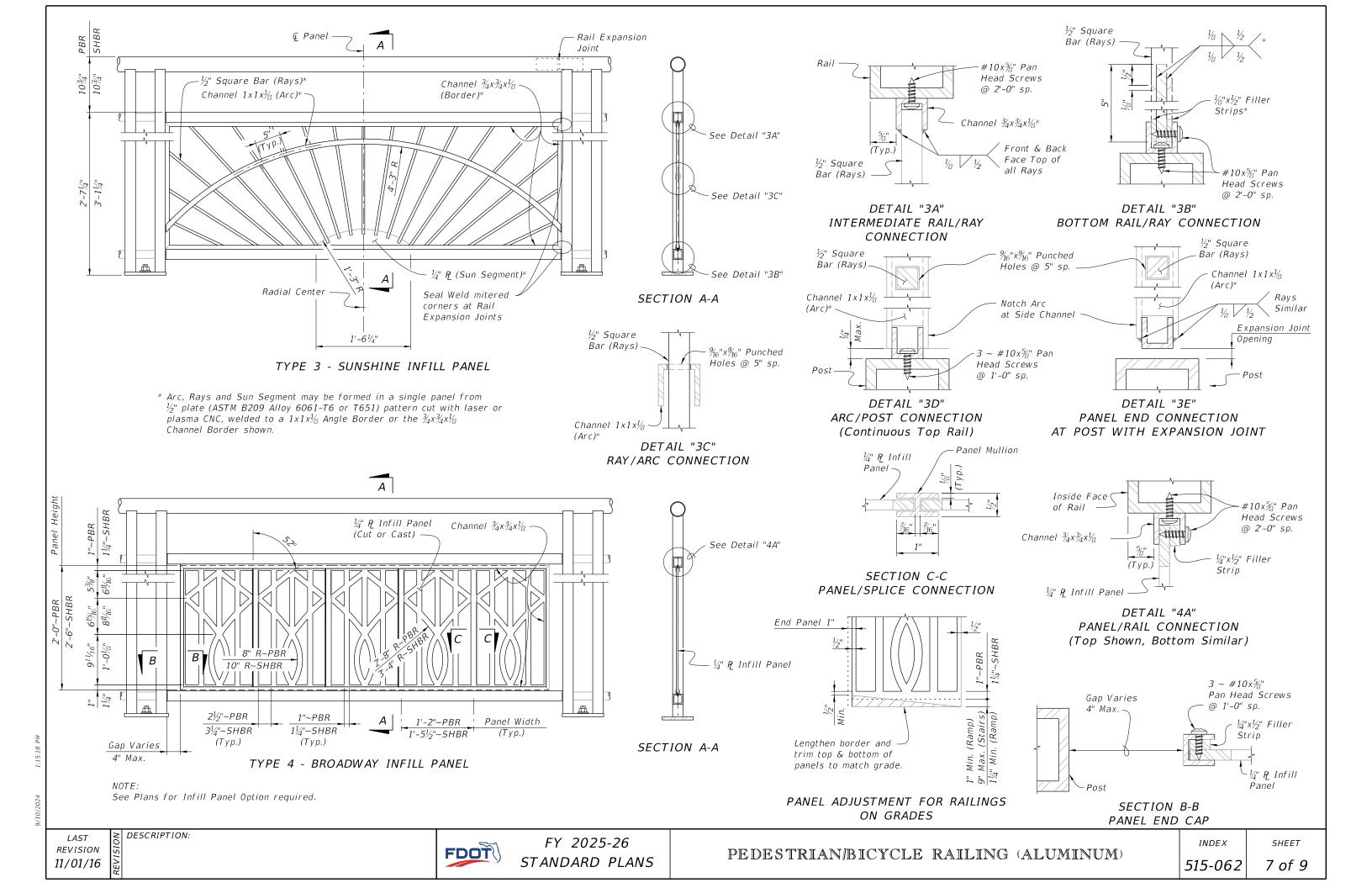
#### CHAIN-LINK PANEL NOTE:

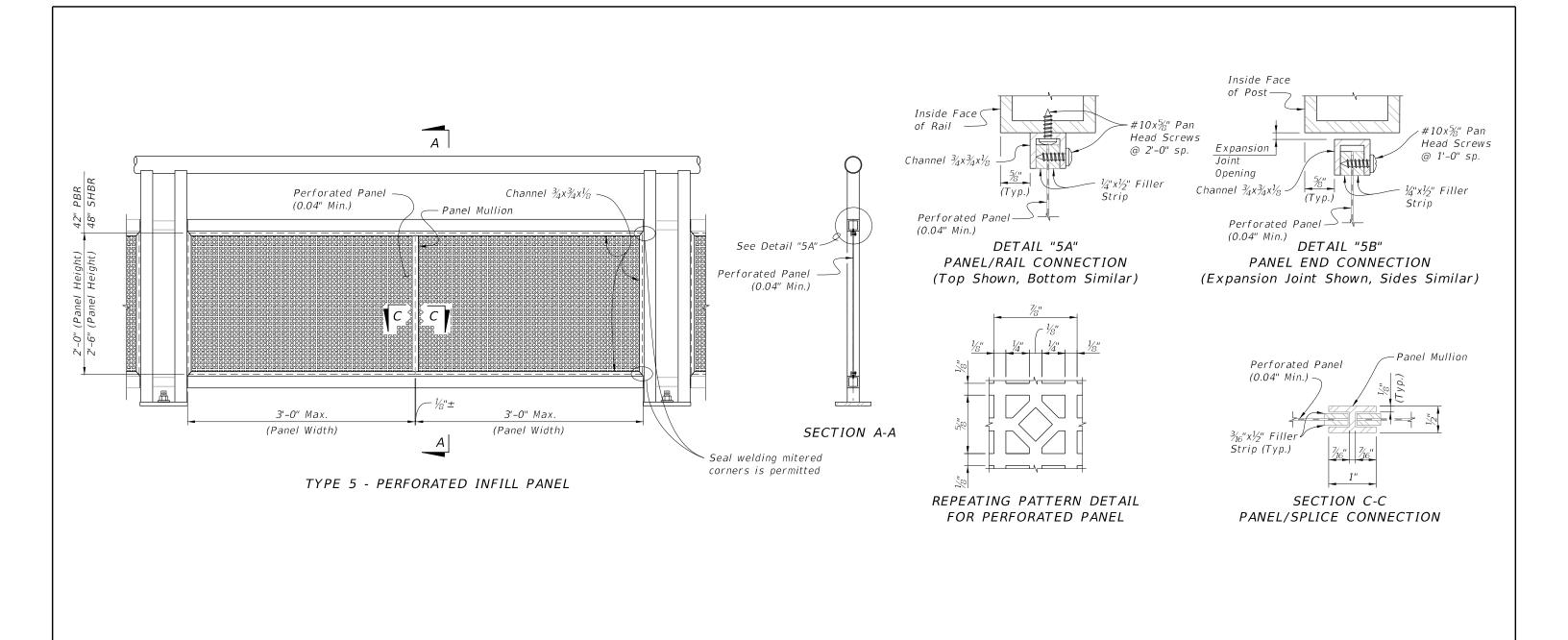
Chain-Link Fence Fabric shall be continuous along limits of railing. Splicing of Chain-Link panels using Tension Bars at 20'-0" minimum increments is permitted.

REVISION 11/01/21

FDOT

FY 2025-26 STANDARD PLANS

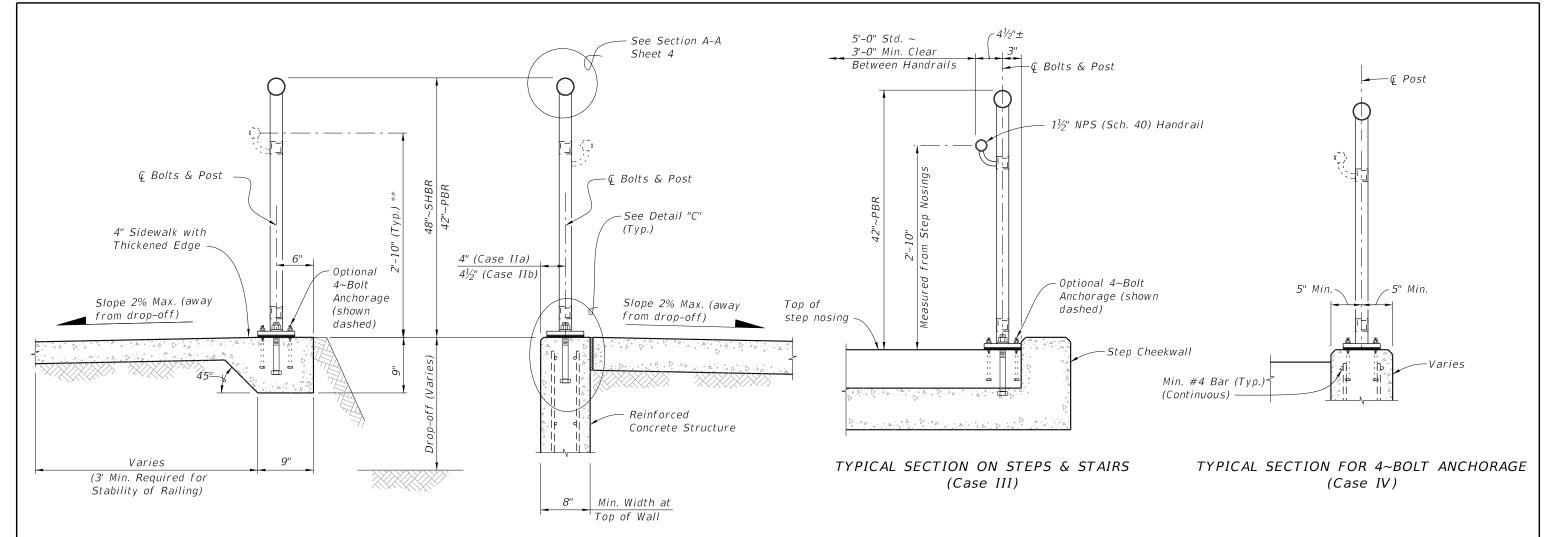




REVISION 11/01/16

DESCRIPTION:

FDOT

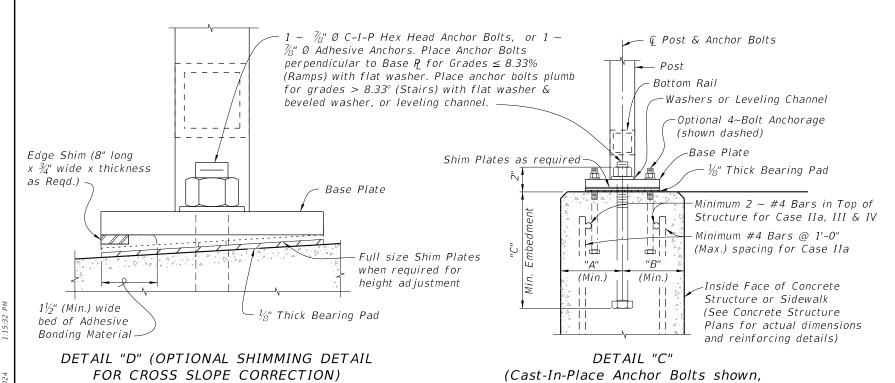


# TYPICAL SECTION ON CONCRETE SIDEWALK (Case I)

(Used in lieu of Beveled Shim Plates)

DESCRIPTION:

# TYPICAL SECTION ON RETAINING WALL (Case II)



ANCHOR BOLT TABLE									
CASE	STRUCTURE TYPE	DIMENSIONS			ANCHOR LENGTH		ANGUOR		
		"A" Edge Dist.	"B" Edge Dist.	"C" Embedment	C.I.P Hex Head Bolt		ANCHOR SIZE		
I	Unreinforced Concrete	6"	1'-2"	6"	7½"	8"	%" Ø		
IIa	Reinforced Concrete	4"	4"	9"	10½"	11"	%" Ø		
IIb	Gravity Wall Index 400-011	4½"	3½" @ top	9"	10½"	11"	%" Ø		
III	Step Cheekwall	$4\frac{1}{2}$ "	$4\frac{1}{2}$ "	9"	10½"	11"	%" Ø		
IV	Varies	5"	5"	5"	6½"	7"	7∕ <sub>16</sub> " Ø		

\*\* When required; measured from top of sidewalk (Typ.)

LAST REVISION 11/01/20

FDOT

FY 2025-26 STANDARD PLANS

Adhesive Anchors similar)

PEDESTRIAN/BICYCLE RAILING (ALUMINUM)

INDEX

SHEET 9 of 9