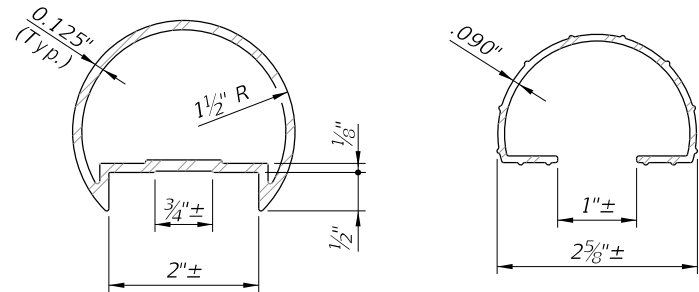




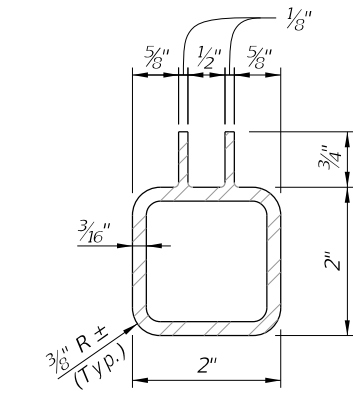
3D VIEW OF RAILING WITH TYPE 1 - PICKET INFILL PANEL
(42" Height shown, 48" Height Similar)

TABLE 1 - RAILING MEMBERS				
MEMBER	ALLOY ⁽¹⁾	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 1½x2½x0.125	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 ⁽³⁾	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

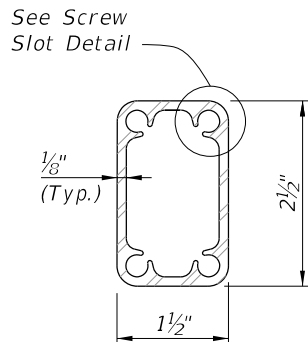
TABLE 1 NOTES:
(1) Alloy 6061-T6 or 6063-T52 & T6 may be substituted for Alloy 6063-T5.
(2) 0.188" wall thickness permitted for rails with post spacings less than 5'-9".
(3) 1" NPS (Sch. 40) non-slit rail sleeves may be substituted when welded connection Detail "K" is utilized.



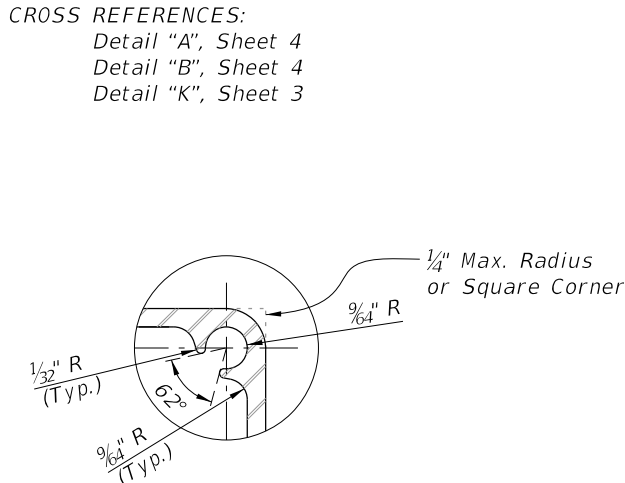
3" ROUND TOP CAP RAIL TOP CAP RAIL INNER
SPLICE SLEEVE
===== ALTERNATE TOP RAIL SECTION =====



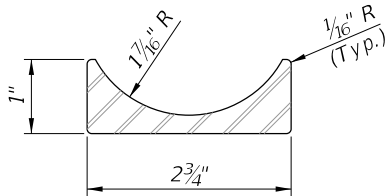
ALTERNATIVE BOTTOM &
INTERMEDIATE RAIL SECTION
FOR TYPE 3, 4 & 5 RAILINGS



POST TYPE "C"
SCREW SLOT SECTION



SCREW SLOT DETAIL

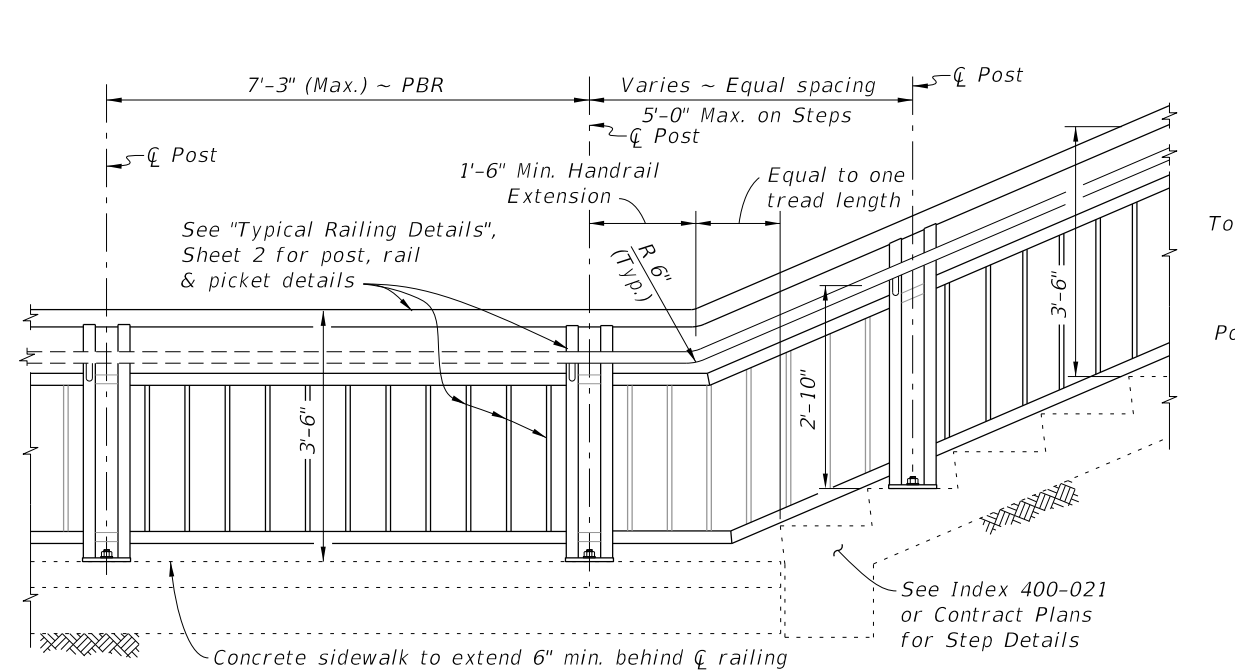


OPTIONAL TOP PLATE
EXTRUSION SECTION (POST TYPE "C")

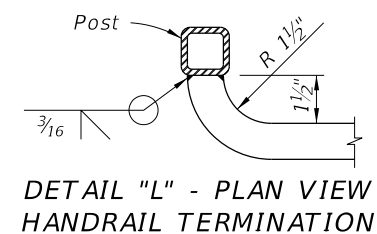
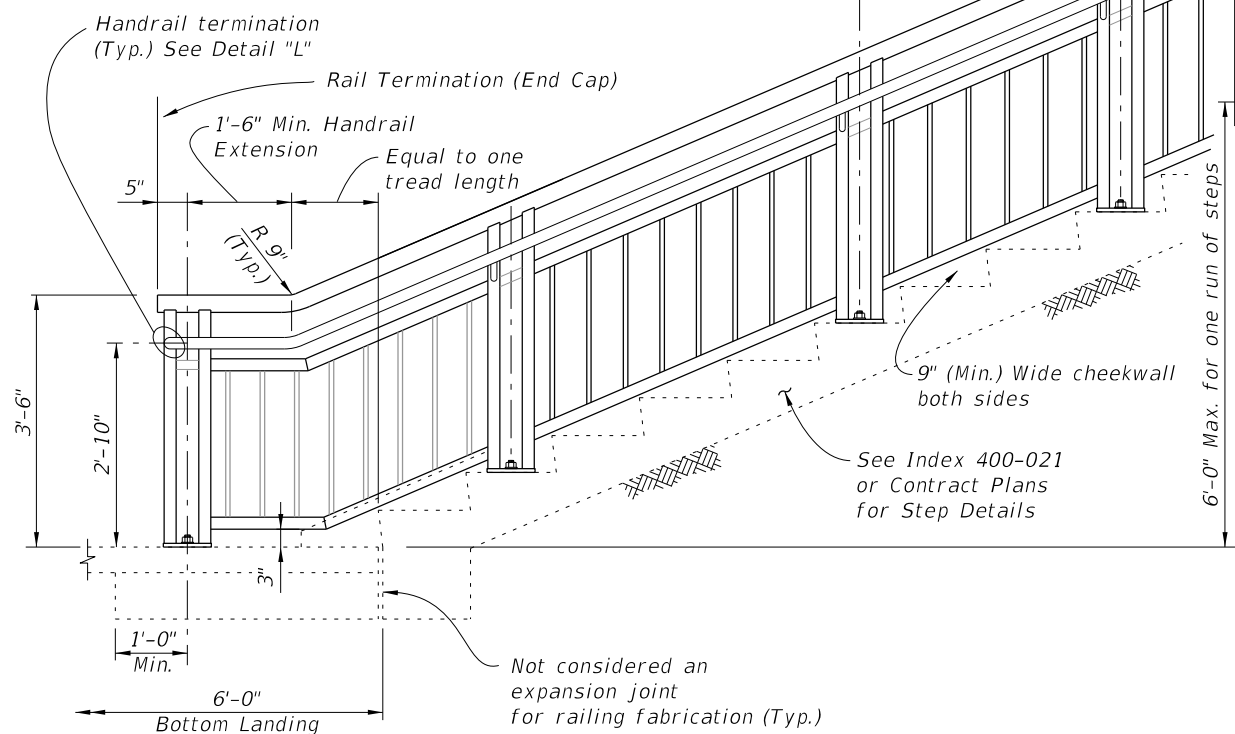
NOTES

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)
3. Materials:
 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. ⅝" diameter single bolt option, Grade 36
 2. ⅞" 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 ⅛" 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 5⅞" for standard installations and 3⅞" 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.

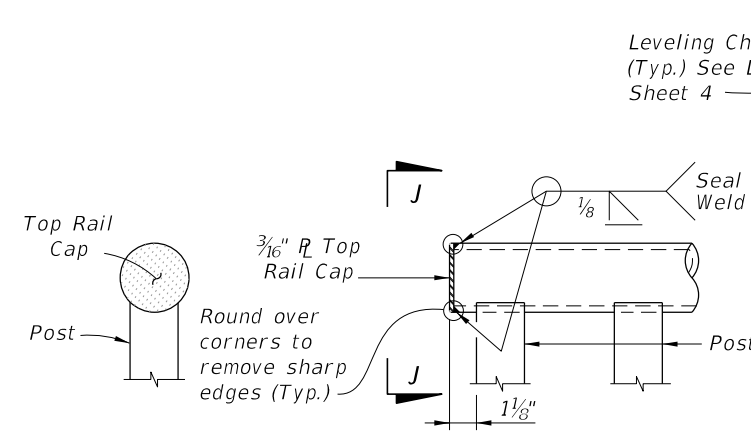
CROSS REFERENCES:
Detail "A", Sheet 4
Detail "B", Sheet 4
Detail "K", Sheet 3



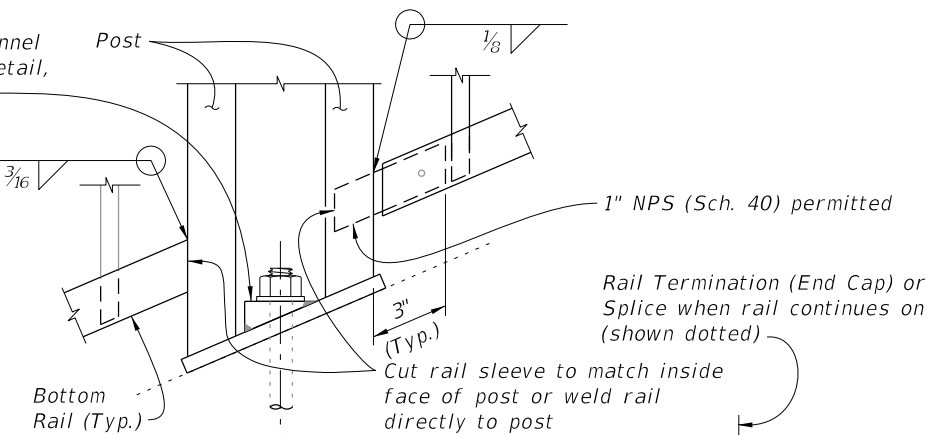
RAILING CONTINUATION BEYOND STEPS OR STAIRS
(Bottom shown, Top similar)



ELEVATION
(At-Grade Steps shown, Elevated Stairs similar)

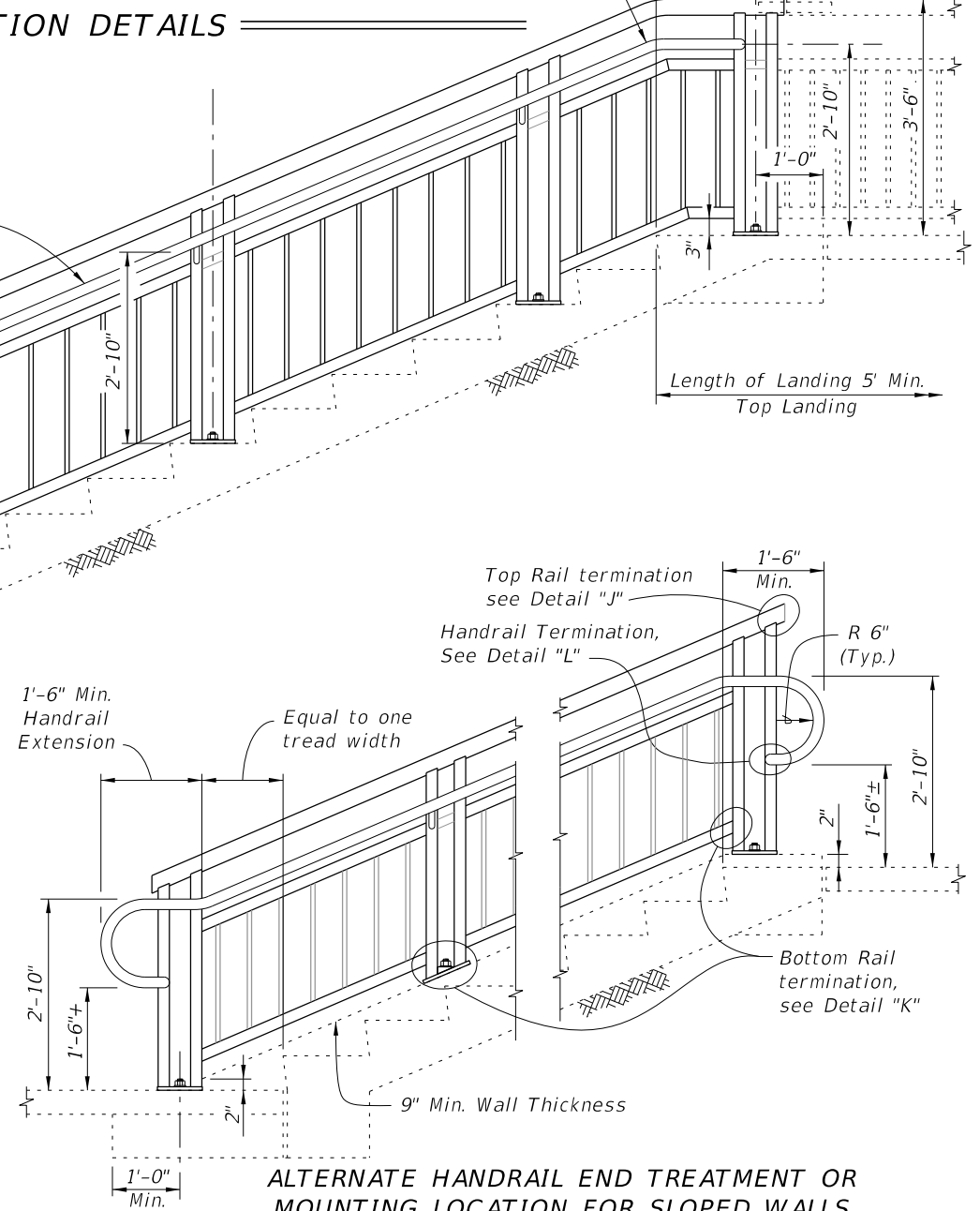


DETAIL "J" - ELEVATION VIEW TOP RAIL TERMINATION



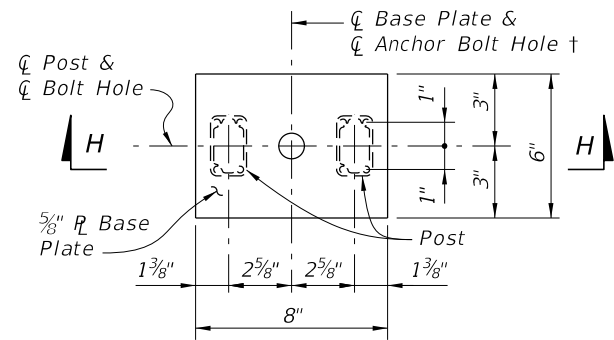
DETAIL "K" - ELEVATION VIEW BOTTOM RAIL CONNECTION (Intermediate Rail Similar)

RAIL TERMINATION DETAILS

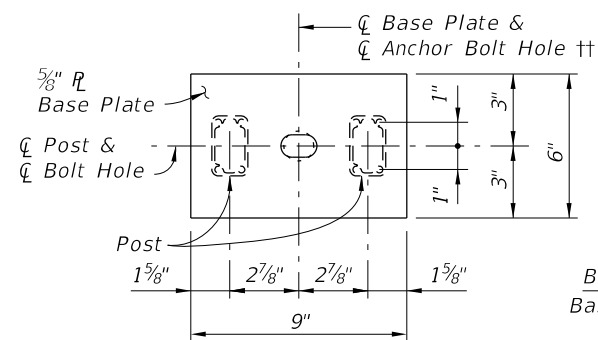


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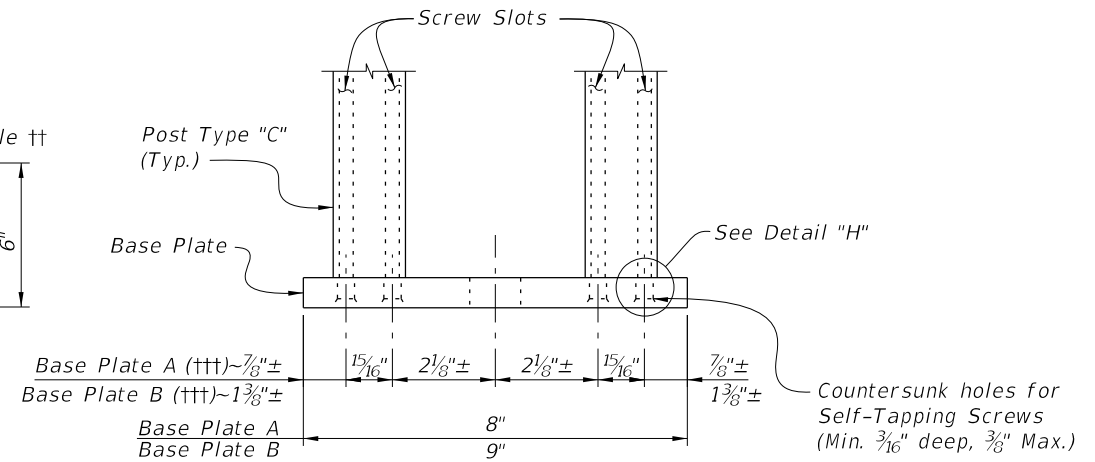
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BASE PLATE A

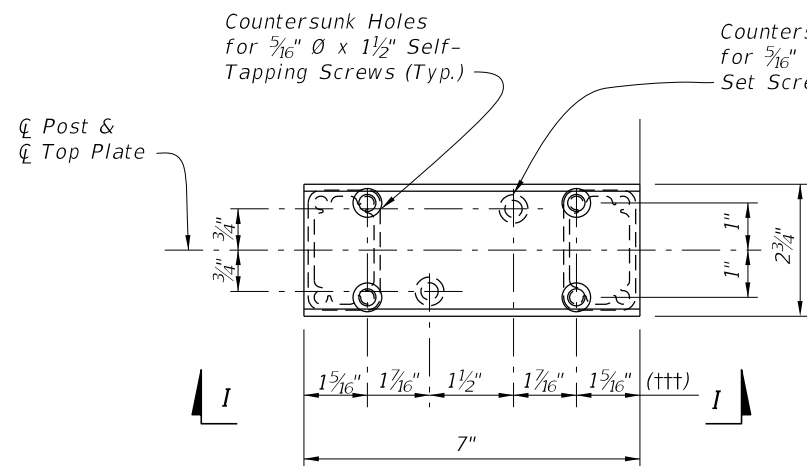


BASE PLATE B

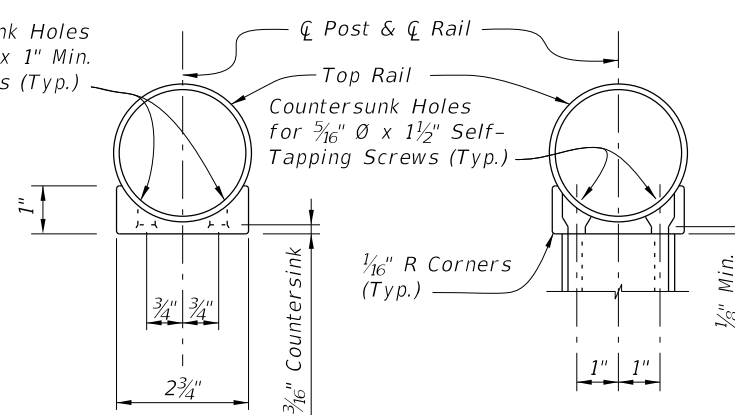


SECTION H-H
(Screws Not Shown for Clarity)

BASE PLATE DETAILS FOR TYPE "C" POST

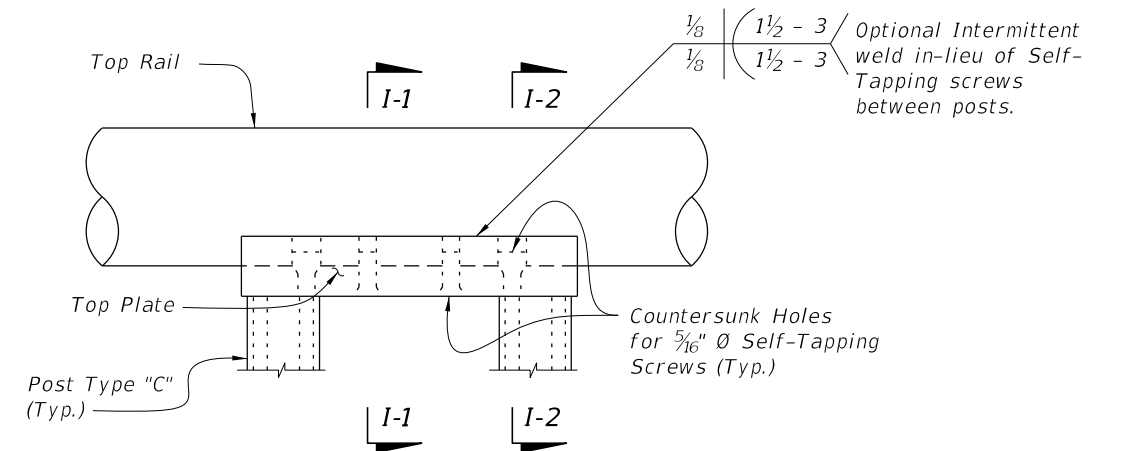


PLAN



SECTION "I-1"

SECTION "I-2"



VIEW "I"

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.

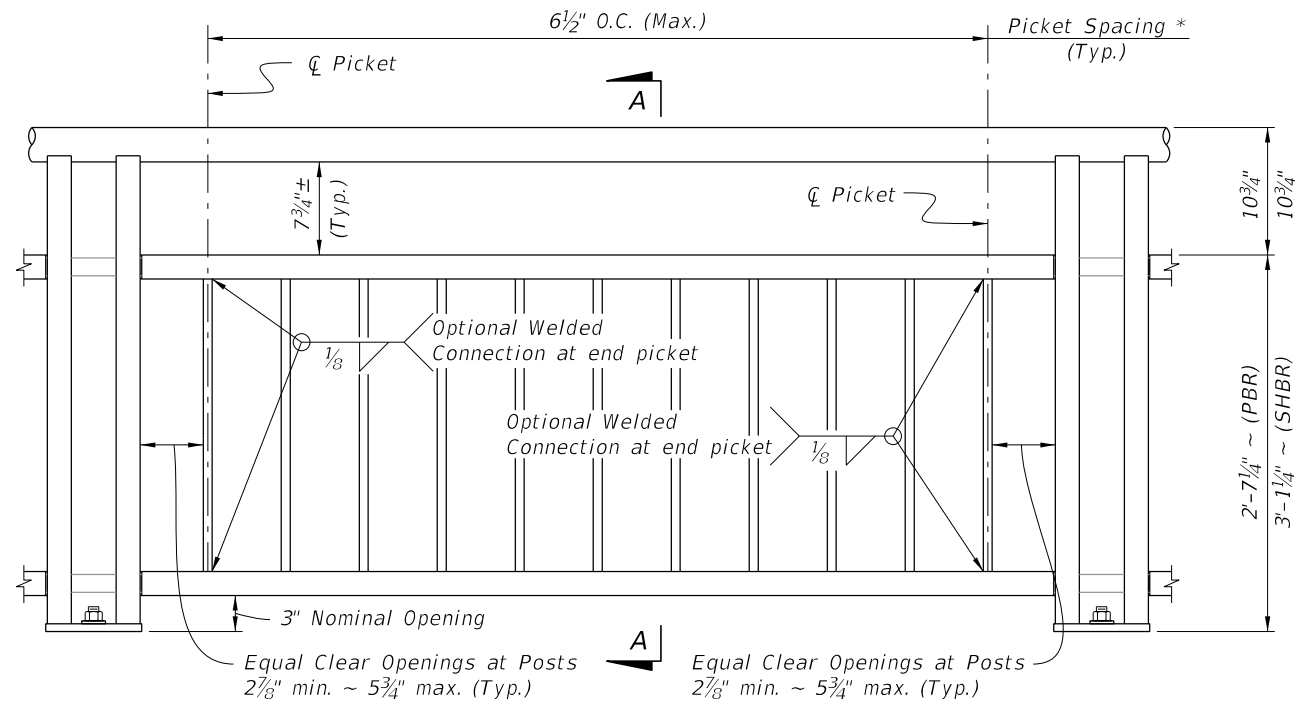
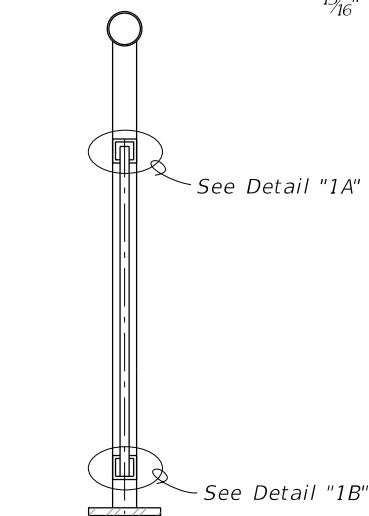
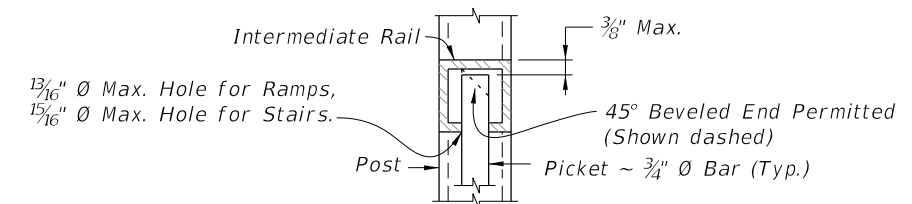
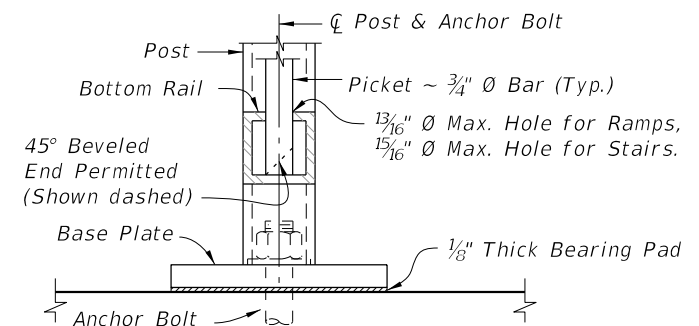


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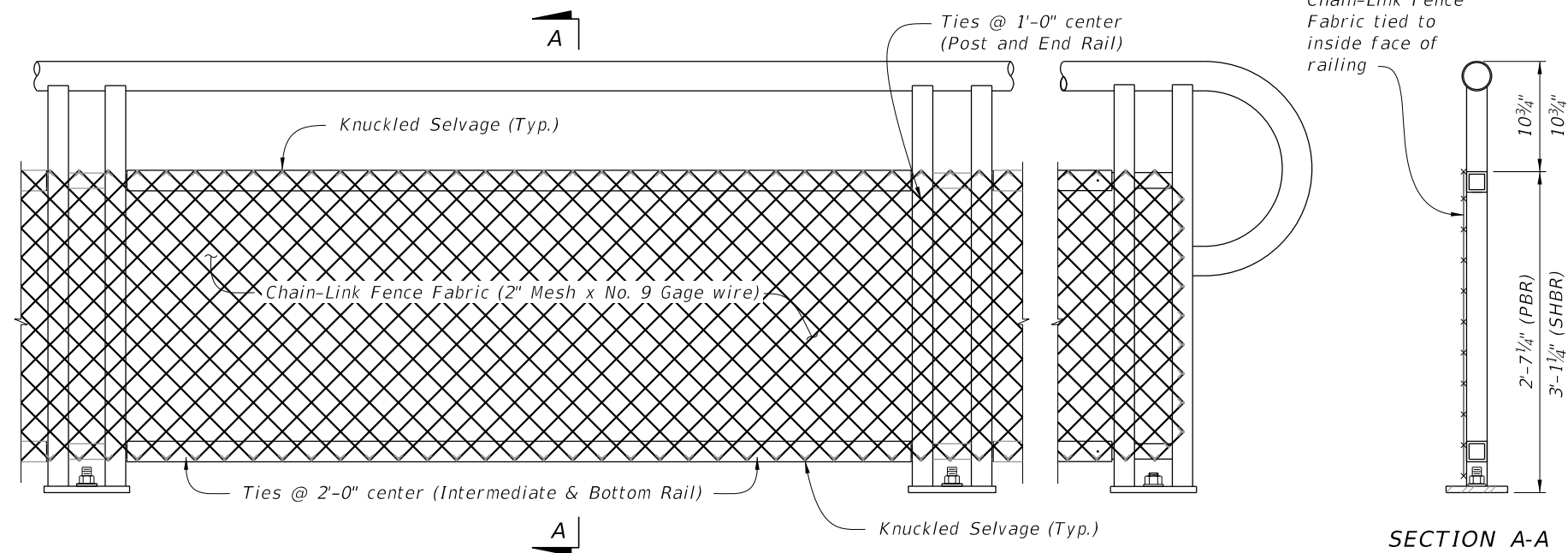
SHEET
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TYPE 1 - PICKET INFILL PANEL

PICKET NOTES:

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



SECTION A-A

TABLE 2 - CHAIN-LINK PANEL COMPONENT MATERIALS		
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	3/16" (min. thickness) x 3/4" (min. width) x 2'-3' (min. height) Steel Bars
Miscellaneous Fence Components	F626	Zinc-Coated Steel

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.

TYPE 2 - CHAIN-LINK (Continuous Infill Panel)

NOTE:

See Plans for Infill Panel option required.



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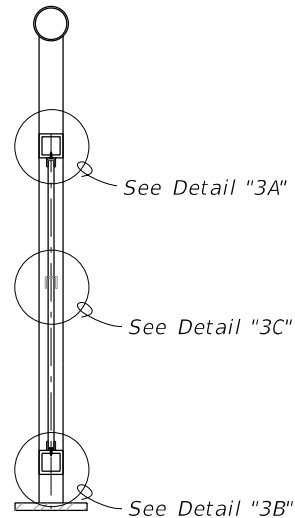


Diagram illustrating the cross-section of a 1x1 1/8" Channel (Arc) with 1/2" Square Bar (Rays) and 9/16" x 9/16" Punched Holes @ 5" sp.

Panel Height

2'-0"~PBR

2'-6"~SHBR

9 1/16"

1'-0 1/8"

1 1/4"

1"-PBR

5 3/8"

6 15/16"

6 1/16"

8 7/16"

11 1/4"~SHBR

52°

1/4" R Infill Panel (Cut or Cast)

Channel 3/4 x 3/4 x 1/8

8" R~PBR

10" R~SHBR

2'-8" R~PBR

3'-4" R~SHBR

B

C

2 1/2"~PBR

3 1/4"~SHBR (Typ.)

1"~PBR

1 1/4"~SHBR (Typ.)

1'-2"~PBR

1'-5 1/2"~SHBR

Panel Width (Typ.)

Gap Varies 4" Max.

TYPE 4 BROADWAY INFILL PANEL

Technical drawings of a ray support assembly, showing side and front views.

Left View (Side Elevation):

- Rail:** The top horizontal component.
- #10x $\frac{5}{8}$ " Pan Head Screws @ 2'-0" sp.:** Screws securing the rail to the channel.
- Channel $\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ "*:** The central support structure.
- 5/8" (Typ.):** Dimension indicating the typical height of the channel.
- 1/2" Square Bar (Rays):** The vertical support bar.
- Front & Back Face Top of all Rays:** Dimension indicating the height of the ray support.

Right View (Front View):

- 5":** Overall height dimension.
- 1/2":** Dimension indicating the height of the top section.
- 1/8":** Dimension indicating the height of the bottom section.
- 1/8"x1/2" Filler Strips*:** Strips used for filling or support.
- #10x $\frac{5}{8}$ " Pan Head Screws @ 2'-0" sp.:** Screws securing the assembly.
- 1/2" Square Bar (Rays):** The vertical support bar.

Diagram illustrating the assembly of a three-layered structure:

- Top Layer:** 1/2" Square Bar (Rays) with 3/16" x 9/16" Punched Holes @ 5" sp.
- Middle Layer:** Channel 1x1x1/8 (Arc)* with a Notch Arc at Side Channel.
- Bottom Layer:** Post secured by 3 ~ #10x5/8" Pan Head Screws @ 1'-0" sp.
- Dimension:** 1/4" Max. (indicated for the channel height).

Technical drawing showing a cross-section of a square bar joint. The top view shows a square bar with a central square hole. The side view shows the bar with a channel cut into it. The channel has a width of $\frac{1}{2}$ " and a depth of $\frac{1}{8}$ ". The channel is labeled "Channel 1x1x $\frac{1}{8}$ (Arc)*". The bar is labeled "1/2" Square Bar (Rays)". The channel is labeled "Rays Similar". The channel has a width of $\frac{1}{8}$ " and a depth of $\frac{1}{2}$ ". The channel is labeled "Expansion Joint Opening". The channel is labeled "Post".

[illegible]

Inside Face of Rail

Channel $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$

$\frac{5}{8}$ " (Typ.)

$\frac{1}{4}$ " R Infill Panel

#10x $\frac{5}{8}$ " Pan Head Screws @ 2'-0" sp.

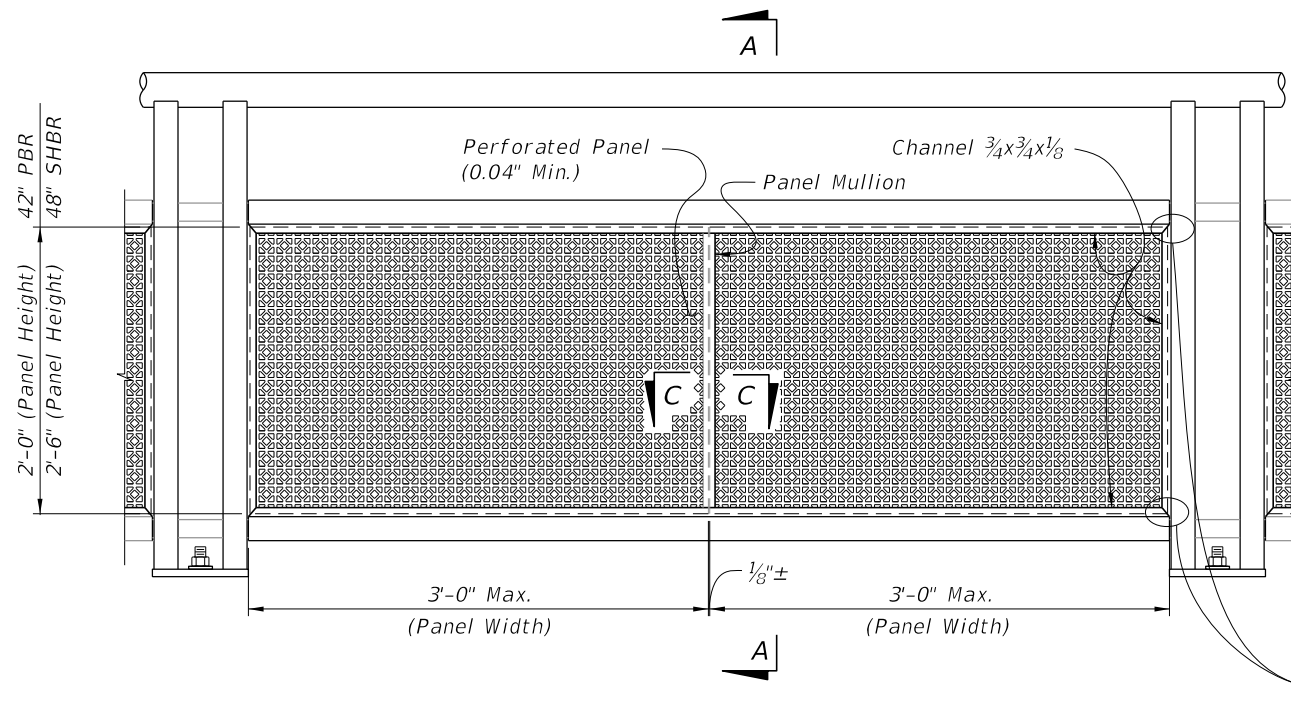
$\frac{1}{4} \times \frac{1}{2}$ " Filler Strip

Diagram illustrating the dimensions for a panel with a central oval cutout. The panel is labeled "Panel" and has a width of $1\frac{1}{2}''$. The central oval cutout has a width of $1\frac{1}{2}''$ and a height of $1\frac{1}{2}''$. The panel is shown with a border and trim, and a note indicates: "Lengthen border and trim top & bottom of panels to match grade." The diagram also shows a cross-section of the panel with a height of $1\frac{1}{2}''$ and a minimum height of $1\frac{1}{2}''$. The panel is shown with a border and trim, and a note indicates: "Lengthen border and trim top & bottom of panels to match grade." The diagram also shows a cross-section of the panel with a height of $1\frac{1}{2}''$ and a minimum height of $1\frac{1}{2}''$.

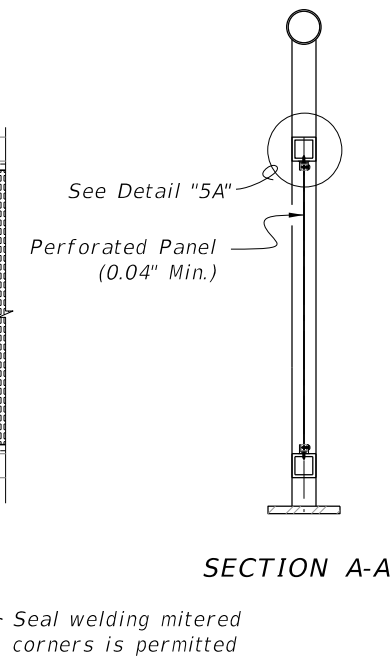
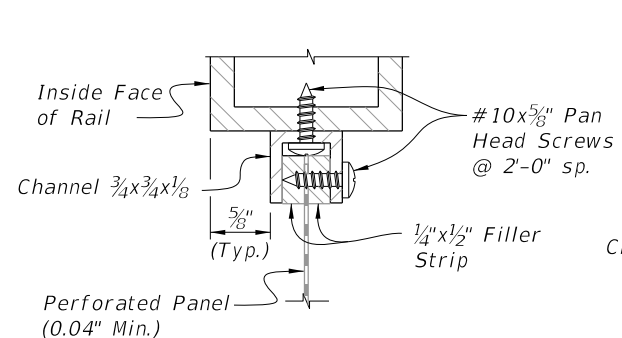
Technical drawing illustrating a wall assembly cross-section. The drawing shows a vertical post on the left, followed by a gap, and then a wall assembly. The wall assembly consists of a pan head screw, a $\frac{1}{4} \times \frac{1}{2}$ " filler strip, and a $\frac{1}{4}$ " R Infill Panel. The gap between the post and the wall assembly is labeled "Gap Varies 4" Max.". The pan head screws are labeled "3 ~ #10x $\frac{5}{8}$ " Pan Head Screws @ 1'-0" sp.". The filler strip is labeled " $\frac{1}{4} \times \frac{1}{2}$ " Filler Strip". The infill panel is labeled " $\frac{1}{4}$ " R Infill Panel".

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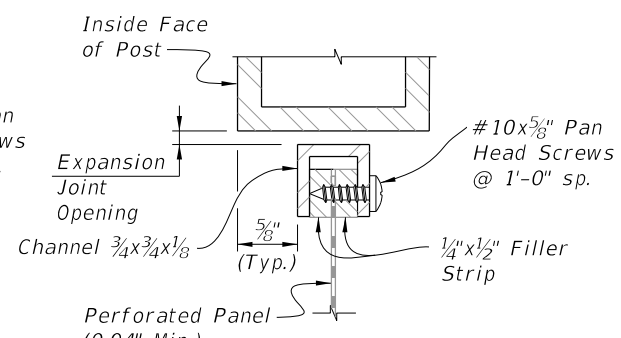
LAST REVISION 11/01/16	DESCRIPTION:  FY 2027-28 STANDARD PLANS	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)	INDEX 515-062	SHEET 7 of 9
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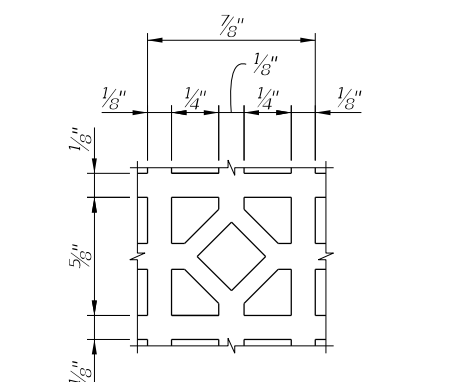
TYPE 5 - PERFORATED INFILL PANEL



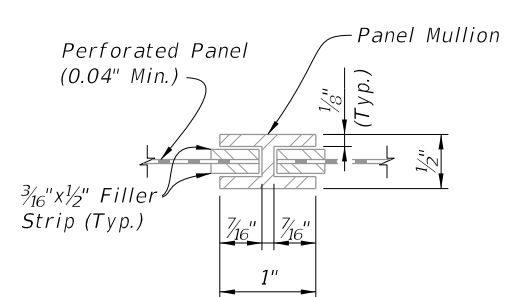
DETAIL "5A"
PANEL/RAIL CONNECTION
(Top Shown, Bottom Similar)



DETAIL "5B"
PANEL END CONNECTION
(Expansion Joint Shown, Sides Similar)



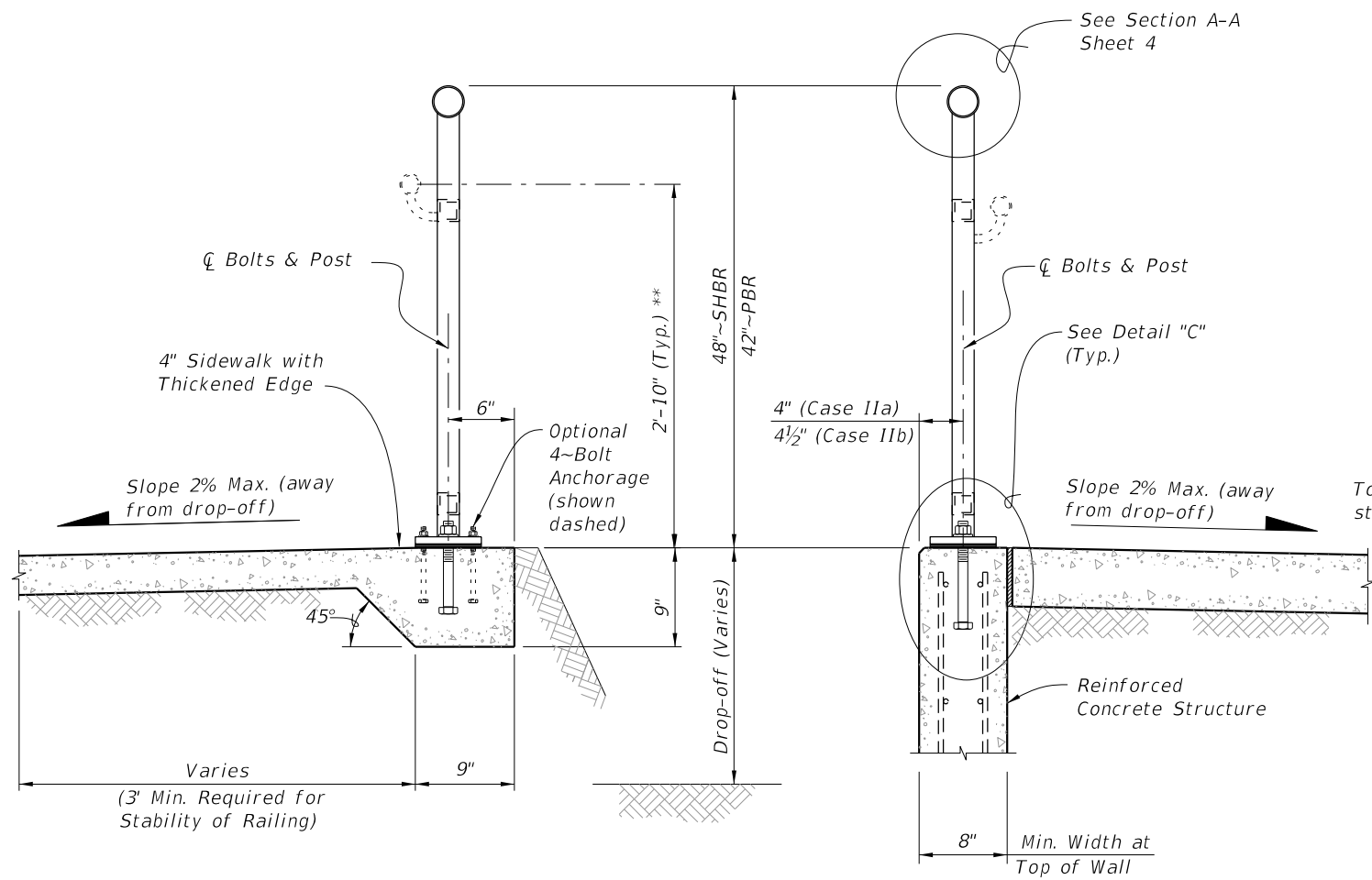
REPEATING PATTERN DETAIL
FOR PERFORATED PANEL



SECTION C-C
PANEL/SPLICE CONNECTION

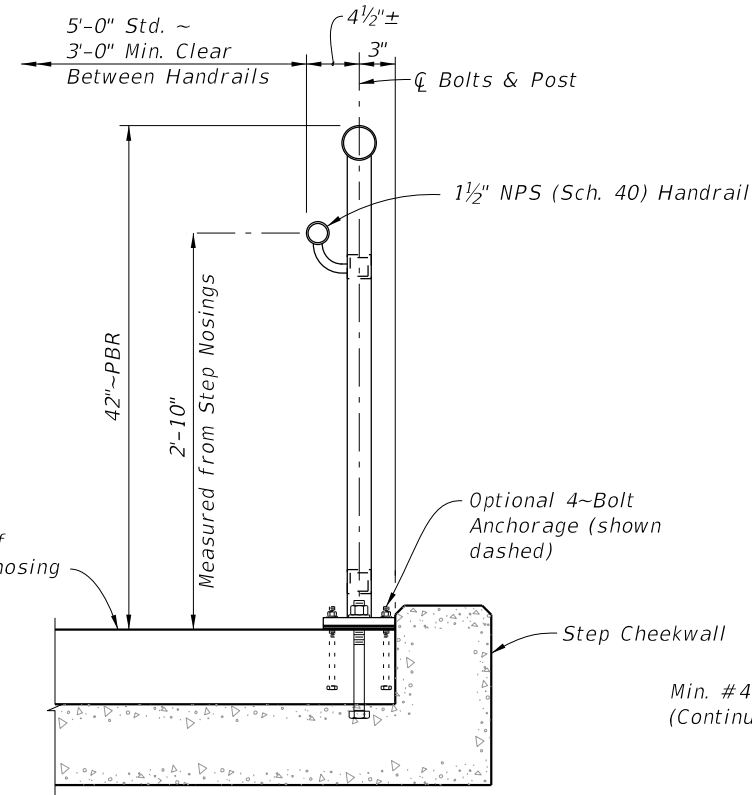
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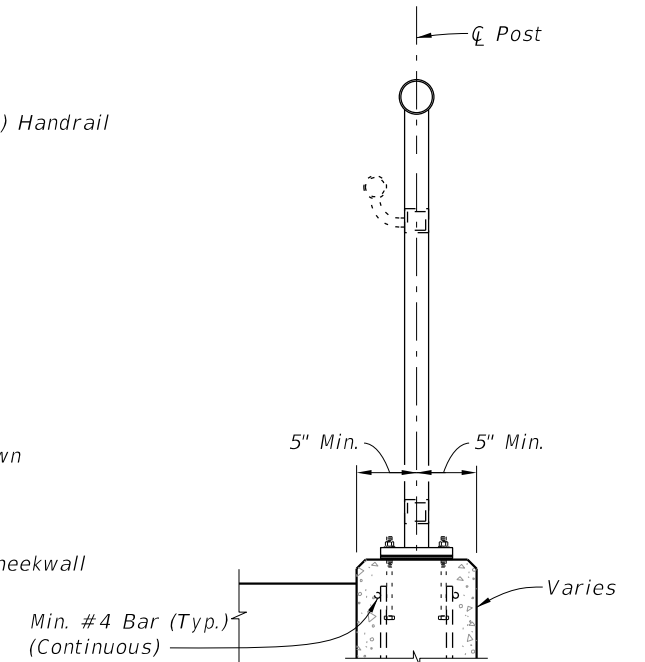


TYPICAL SECTION ON CONCRETE SIDEWALK (Case I)

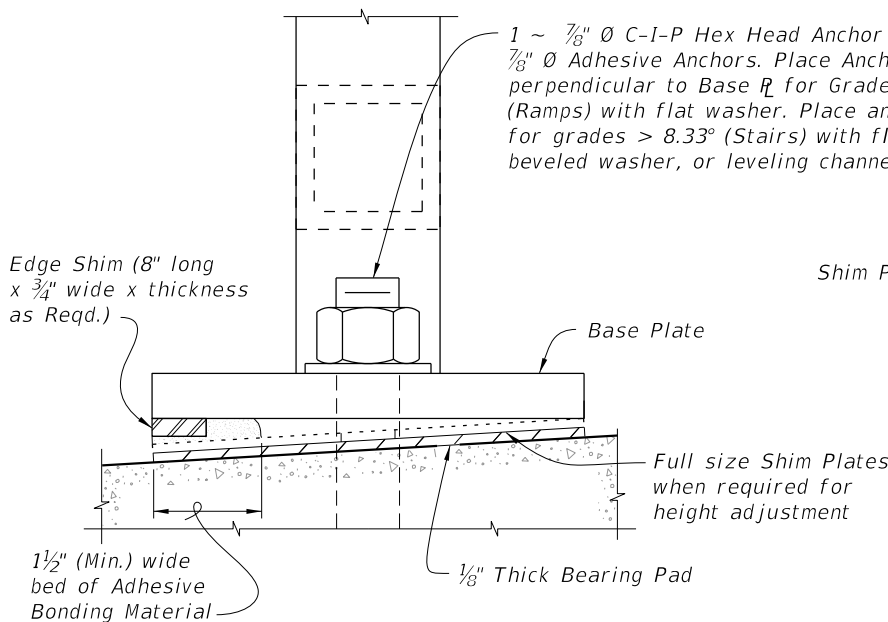
TYPICAL SECTION ON RETAINING WALL (Case II)



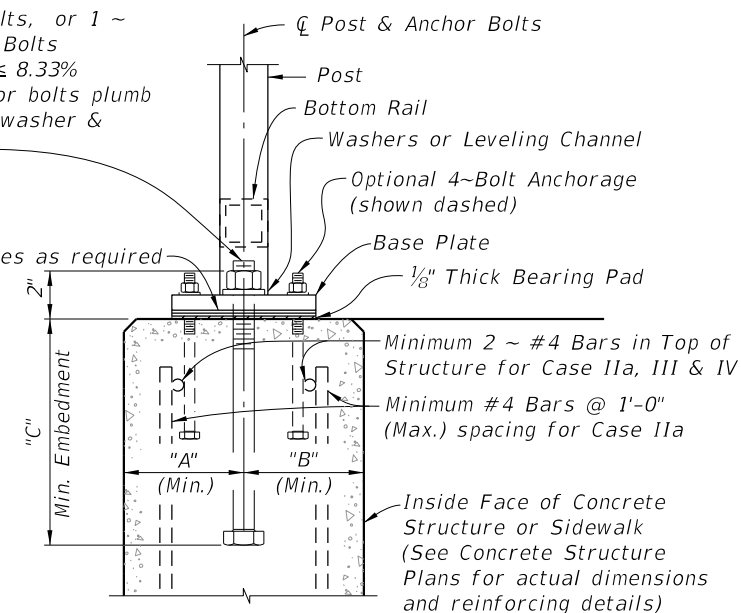
TYPICAL SECTION ON STEPS & STAIRS (Case III)



TYPICAL SECTION FOR 4-BOLT ANCHORAGE (Case IV)



DETAIL "D" (OPTIONAL SHIMMING DETAIL FOR CROSS SLOPE CORRECTION)
(Used in lieu of Beveled Shim Plates)



DETAIL "C"
(Cast-In-Place Anchor Bolts shown, Adhesive Anchors similar)

ANCHOR BOLT TABLE							
CASE	STRUCTURE TYPE	DIMENSIONS			ANCHOR LENGTH		ANCHOR SIZE
		"A" Edge Dist.	"B" Edge Dist.	"C" Embedment	C.I.P. Hex Head Bolt	Adhesive Anchor	
I	Unreinforced Concrete	6"	1'-2"	6"	7 1/2"	8"	7/8" Ø
IIa	Reinforced Concrete	4"	4"	9"	10 1/2"	11"	7/8" Ø
IIb	Gravity Wall Index 400-011	4 1/2"	3 1/2" @ top	9"	10 1/2"	11"	7/8" Ø
III	Step Cheekwall	4 1/2"	4 1/2"	9"	10 1/2"	11"	7/8" Ø
IV	Varies	5"	5"	5"	6 1/2"	7"	7/16" Ø

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

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