

This bridge fence can only be used on sidewalk installations separated from traffic by a traffic railing.

FENCE INSTALLATION:

Install posts plumb (within a tolerance of $\pm 1\frac{1}{2}$). Use shim plates as required to achieve plumb. The required quantity and thickness of shim plates will be determined in the field. Install chain link fence in accordance with ASTM F 567 as applicable.

CONCRETE PARAPET DETAILS:

See Index No. 820 - Pedestrian/Bicycle Bullet Railing for Concrete Parapet details. Provide fencing in lieu of aluminum bullet railing as shown on Index No. 820.

LIMITS OF FENCING:

Limits of fencing are from begin of approach slab at Begin Bridge to end of approach slab at End Bridge, unless otherwise shown in the plans.

Payment will be made under Fencing, Type R. Payment includes posts, horizontal and expansion rails, brace bands, rail ends, combination rail ends, boulevard clamps, chain link fabric, ties, tension bars and bands, post and loop caps, base plates, anchor rods, bolts, nuts, washers, shim plates, neoprene pads, miscellaneous fence fittings and hardware and all incidental materials and labor required to complete installation of the fence.

CROSS REFERENCE:

For Table of Fence Components and Pull Post Assembly Detail see Sheet No. 2 of 3. For Table of Post Attachment Components and Detail "A" see Sheet No. 3 of 3.

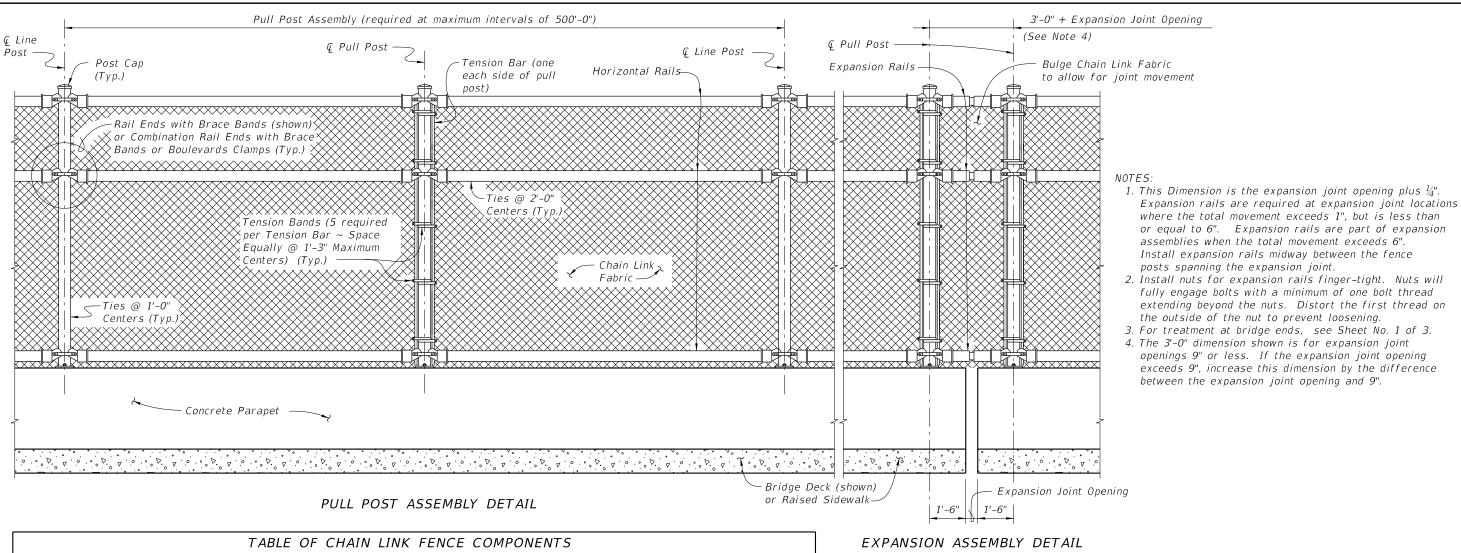
REVISION 01/01/12

FY 2016-17 DESIGN STANDARDS

BRIDGE FENCING (CURVED TOP)

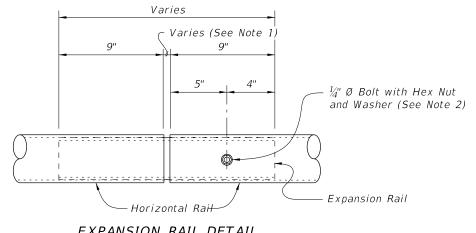
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ASTM COMPONENT COMPONENT INFORMATION DESIGNATION Posts F 1083 Galvanized Steel Pipe - 3½" NPS, Schedule 40 (4.000" Outside Diameter, 0.226" Wall Thickness) Horizontal Rails Galvanized Steel Pipe - 3" NPS, Schedule 40 (3.500" Outside Diameter, 0.216" Wall Thickness) F 1083 Expansion Rails Galvanized Steel Pipe - $2\frac{1}{2}$ " NPS, Schedule 40 (2.875" Outside Diameter, 0.203" Wall Thickness) F 1083 Bolts $\frac{1}{4}$ " Ø x $4\frac{1}{4}$ " Hex Head Bolts for Expansion Rail Connections A 307 Nuts A 563 Hex Nuts for Expansion Rail Connections Washers F 436 Flat Washers for Expansion Rail Connections Zinc Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating A 392 Chain Link Fabric (2" mesh with twisted Aluminum Coated Steel - No. 9 gage (coated wire diameter) A 491 top and knuckled Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc Coated Wire (metallic-coated core wire bottom selvage) F 668 diameter) ~ Specify the color of the polymer coating in the General Notes Zinc Coated Steel Wire - No. 9 gage Tie Wires F 626 Brace Bands F 626 No. 12 Gage (Min. thickness) $x \frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy) 3/6" (Min. thickness) x 3/4" (Min. width) x Variable Height Steel Bars \sim F 626 Tension Bars Height = Post Length along inside Post - 2" Max. F 626 No. 14 Gage (Min. thickness) $x \frac{3}{4}$ " (width) Steel Bands Tension Bands Miscellaneous Fence Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail F 626 Components ends, boulevard clamps and all other miscellaneous fittings and hardware)

(Required only at expansion joint locations where total movement exceeds 6")



EXPANSION RAIL DETAIL

LEGEND: NPS = Nominal Pipe Size

DESCRIPTION:

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FY 2016-17 DESIGN STANDARDS

BRIDGE FENCING (CURVED TOP)

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TABLE OF POST ATTACHMENT COMPONENTS		
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
Base Plates	A 36 or A 709 Grade 36	3/4" Steel PL
Shim Plates	A 36 or A 709 Grade 36 or B 209 Alloy 6061-T6 or B 221 Alloy 6063-T5	Plate thicknesses as required, Holes in shim plates will be $^{34}\!\!\!/^{\!\!\!/}$ Ø
Adhesive Anchor Rods	F 1554 Grade 36	Fully threaded Headless Anchor Rods $\sim \frac{7}{8}$ " Ø x $14\frac{1}{2}$ "
C-I-P Anchor Rods	F 1554 Grade 36	Hex Head Anchor Rods $\sim \frac{7}{8}$ " Ø x $14\frac{1}{2}$ "
Nuts	A 563	Hex Nuts for Base Plate Connections
Washers	F 436	Flat Washers for Base Plate Connections
Neoprene Pads	-	In accordance with Specification Section 932

POST ATTACHMENT NOTES

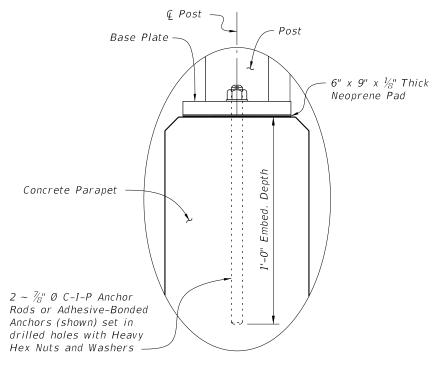
ANCHOR RODS, NUTS AND WASHERS:

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.

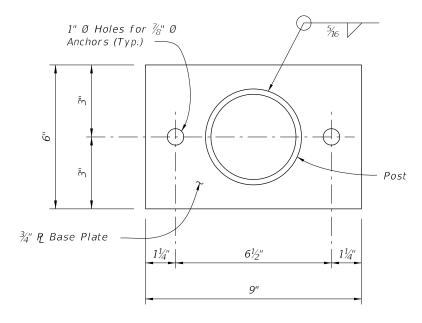
Hot-dip galvanize all Nuts, Washers, Bolts, C-I-P Anchor Rods, Adhesive Anchors and Fence Framework (Posts, Internal Sleeves, Shim Plates and Base Plates) in accordance with Specification Section 962. Hot-dip galvanize Fence Framework after fabrication. ADHESIVE-BONDED ANCHORS AND DOWELS:

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 installation.

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.



DETAIL "A"



BASE PLATE DETAIL

CROSS REFERENCE:

For location of Detail "A" see Sheet No. 1 of 3.

REVISION 07/01/15

DESCRIPTION: