



Arizona Department of Transportation
Intermodal Transportation Division – Bridge Group
205 South Seventeenth Avenue Phoenix, Arizona 85007-3213

Janice K. Brewer
Governor

John S. Halikowski
Interim Director

Floyd Roehrich Jr.
State Engineer

BRIDGE BULLETIN 2009-1
Issue Date 3-24-2009

To: All Bridge Designers

From: Jean A. Nehme, Ph.D., P.E.
State Bridge Engineer

Subject: Structure Detail Drawings SD 1.01, SD 1.02, SD 1.04 and SD 1.05

Web Site: <http://www.azdot.gov/Highways/bridge/DetailDwg/Railing.asp>

Please note that the following F-Shape Bridge Concrete Barrier and Transition (32" and 42") sheets, and the Combination Pedestrian-Traffic Bridge Railing and Pedestrian Fence sheets have been updated:

1. SD 1.01; the following modifications were made:
 - a. Revise Barrier Lip: Back of barrier lip is extended beyond the abutment to the beginning of the taper. Back of barrier lip is added at Continuous Barrier with Footing.
 - b. General Update: Changes to details, notes and revised title block.
2. SD 1.02; the following modifications were made:
 - a. Revise Barrier Height: Barrier height increased by 2 inches to accommodate future wearing surface thickness.
 - b. Revise Barrier Lip: Back of barrier lip is extended beyond the abutment to the beginning of the taper. Back of barrier lip is added at Continuous Barrier with Footing.
 - c. General Update: Changes to details, notes and revised title block.
3. SD 1.04; the following modifications were made:
 - a. Revise Parapet Size: Parapet width changed from 10 inches to 12 inches. Parapet height changed to 3'-0" measured at back (deck edge).
 - b. Revise Sidewalk Size: Sidewalk changed to a minimum 6'-0" width. Sidewalk height changed to 8 inches measured at edge of roadway.
 - c. Revise Deck Thickness: The minimum deck overhang thickness changed to 9 inches.
 - d. Revise Reinforcing: Changes to parapet and sidewalk bars size and spacing.
 - e. Revised Wing Wall Location: Wing wall moved to outside of approach slab. Parapet length outside the limits of the bridge is now mounted on approach slab, anchor slab or separate footing.
 - f. General Update: Changes to details, notes and revised title block.
4. SD 1.05; the following modifications were made:
 - a. Revise Material Specifications: All tubing shall be ASTM A500 Grade B. Expanded metal shall conform to ASTM F1267 Type II, Class 2, Grade A.
 - b. General Update: Changes to details, notes and revised title block.