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 and SD 1.03
Web Site: http://www.azdot.gov/Highways/bridge/DetailDwg/Railing.asp

Please note that the following Bridge Concrete Barrier and Transition sheets have been updated:

1. **SD 1.01;** the following modifications were made:
   a. Revise Barrier Height: Barrier and transition barrier height increased by 2 inches to accommodate future wearing surface thickness.
   b. Revise Barrier Width: Barrier width changed to 1 ft-3 in at base, and transition barrier width changed to 1 ft-0 in.
   c. Revise footing width: Footing changed to a constant 5 ft-5 in width.
   d. Revise Reinforcing: Sleeved bars added at barrier expansion joints. Changes to barrier anchor bars and stirrups size and spacing. Changes to footing stirrups size and spacing.
   e. General Update: Changes to details, notes and revised title block.

2. **SD 1.02;** the following modifications were made:
   a. Revise Barrier Height: Transition barrier height increased by 2 inches to accommodate future wearing surface thickness.
   b. Revise Deck Thickness: Minimum thickness of deck overhang increased to 10 inches.
   c. Revise Barrier Width: Transition barrier width changed to 1 ft-2 in.
   d. Revise footing width: Footing changed to a constant 6 ft-7 in width.
   e. Revise Reinforcing: Sleeved bars added at barrier expansion joints. Changes to barrier anchor bars and stirrups size and spacing. Changes to footing stirrups size and spacing.
   f. General Update: Changes to details, notes and revised title block.
   g. Barrier design is updated to meet crash test level TL-5, from previous test level TL-5A.

3. **SD 1.03;** the following modifications were made:
   a. Revise bolt length: Length of bolts at concrete connection changed to accommodate revised transition barrier width.
   b. General Update: Changes to details, notes and revised title block.