



MEMORANDUM

TO: District Engineers

DATE: June 26, 2003

FROM: Mary Lou Ralls, P.E.

SUBJECT: New Prestressed Concrete Slab Beam Standard Drawings (English)

New prestressed concrete slab beam standard drawings with an issue date of June 2003 are posted on the TxDOT web site and are available for immediate use. The designs reflected by these drawings are based on HL93 live loading as required by the *AASHTO LRFD Bridge Design Specifications*.

Prestressed concrete slab beams are good for bridges needing expedited construction or shallow superstructure depth. Slab beam bridges usually cost more than prestressed concrete I-beam bridges but less than box beam bridges. Because slab beams are new, specific cost comparisons are unreliable.

Key features of these standard drawings include the following:

- Superstructure and substructure details are provided for roadway widths of 24, 28, and 30-feet. These details accommodate 0-, 15-, and 30-degree skew angles.
- Beam depths are 12 and 15 inches, which provide maximum span lengths of 40 and 50 feet, respectively.
- Beams are topped with a 5-inch minimum cast-in-place concrete slab. Asphaltic concrete pavement (ACP) can be used only in conjunction with this slab.

Prestressed concrete slab beam and other standard drawings are available from the Bridge Standards (English) web pages in MicroStation® "dgn" and Adobe® Acrobat® "pdf" formats. Please distribute this information to the appropriate district staff and area offices as well as consulting engineers working on TxDOT projects.

If you have questions or comments concerning these standard drawings, please contact John M. Holt, P.E., at (512) 416-2212, or Jon T. Ries at (512) 416-2191.

Note: Original signed by Mary Lou Ralls

cc: Federal Highway Administration
Bridge Design Consultants
Administration
Division and Office Directors
Directors of Transportation Planning and Development
District Bridge Engineers
Bridge Division Employees