



# MEMORANDUM

**TO:** District Engineers

**DATE:** April 4, 2008

**FROM:** William R. Cox, P.E.

**SUBJECT:** New Prestressed Concrete Decked Slab Beam Standard Drawings

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New prestressed concrete decked slab beam standard drawings with an issue date of April 2008 are posted on the TxDOT web site and are available for immediate use. Decked slab beams are a good selection when rapid construction is desirable and when minimal superstructure section depth is necessary for bridges on low-volume roadways.

Key features of these standard drawings include the following:

- 24-ft roadway width with 0-, 15-, and 30-degree skews
- Span details accommodate a 2-in minimum overlay comprised of a two course surface treatment and asphaltic concrete pavement
- Foundation options include drilled shafts (30-inch), prestressed concrete piling (16-, 18-, and 20-inch), and steel H-piling (HP14x73 and HP14x117)
- Drawings accommodate abutment header slopes of 2:1 and 3:1.

Decked slab beams are ill suited for bridges that have both a skew and a roadway vertical curve as well as for bridges that have a transition in the roadway crown. Developing a roadway surface with either of these geometric features requires vertical offsets in the deck surface at each beam to beam joint. Accommodating the offsets may require an overlay thicker than 2-inches.

These and other bridge standard drawings are available on the Bridge Standards web pages in MicroStation® “dgn” and Adobe® Acrobat® “pdf” formats. See <http://www.dot.state.tx.us/business/standardplanfiles.htm> .

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 William R. Cox

cc: Federal Highway Administration  
Bridge Design Consultants  
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Division and Office Directors

Directors of Transportation Planning and Development  
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