



MEMORANDUM

TO: District Engineers

DATE: October 23, 2009

FROM: David P. Hohmann, P.E.

SUBJECT: Revised Prestressed Concrete I-Beam and I-Girder Standard Drawings

Revised prestressed concrete I-beam and I-girder standard drawings with a revision date of October 2009 are posted on the TxDOT web site and are available for immediate use.

This revision removes a requirement to partially debond strands in I-beams and I-girders that experience cracks in their ends and replaces it with a requirement to seal cracks wider than 0.005-inches and for the fabricator to take an approved remedial action if such cracks form on a repetitive basis.

The revised standard drawings are IBND, IBSD-ABC&IV-24, IBSD-ABC&IV-28, IBSD-ABC&IV-30, IBSD-C&IV-38, IBSD-C&IV-44, IGND, IGSD-24, IGSD-28, IGSD-30, IGSD-38, and IGSD-44. The revision does not alter the design of the beams or girders.

The cracks this revision addresses occur in a region approximately 3-feet long from the beam/girder end. They are oriented along the beam/girder length or diagonally downward from the top flange toward the bottom flange. Their likelihood of occurrence is in proportion to the prestressing force. Standard reinforcement is required in all I-beam and I-girder ends to control these cracks to an acceptable width.

These revised prestressed concrete I-beam and I-girder standard drawings are applicable to bridge projects beginning with the April 2010 letting. Prior use is at the option of each District.

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 David P. Hohmann

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

District Bridge Engineers
Bridge Division Employees