



MEMORANDUM

TO: District Engineers **DATE:** February 4, 2004

FROM: Mary Lou Ralls, P.E.

SUBJECT: Revised Prestressed Concrete I-Beam Details Standard Drawing (English)

The Bridge Division has revised the prestressed concrete I-beam details standard drawing, IBA, to include additional top flange reinforcement in end regions of Type IV beams with strand end eccentricities of 14.0 inches and greater. Changes also include various editorial adjustments.

The additional reinforcement addresses top flange vertical cracks that have appeared in end regions of some Type IV beams. Although these cracks do not diminish a beam's structural capacity, they can be better controlled with the addition of mild reinforcement to enhance long-term performance.

This standard drawing, with a revision date of February 2004, is posted on the TxDOT web site and is available for immediate use. The metric version of this drawing, IBA(M) has been removed from the TxDOT web site and is no longer available as a standard drawing. However, use of the English version IBA standard drawing for metric projects is acceptable.

This standard drawing is to be used for all projects, including metric projects, beginning with the March 2004 letting. For projects where contracts have already been let, the current standard drawings include measures to mitigate cracking. The revised IBA now provides an additional option to mitigate cracking on projects already let; if the additional top flange reinforcement is placed, no reimbursement will be made.

The IBA standard drawing 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 appropriate district staff and area offices as well as consulting engineers working on TxDOT projects.

If you have questions or comments concerning this standard drawing, 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