



MEMORANDUM

TO: District Engineers

DATE: August 11, 2004

FROM: Mary Lou Ralls, P.E.

SUBJECT: Revised Rail Anchorage Details Standard Drawings (English)

Revised rail anchorage details standard drawings for prestressed double-T beam bridges and concrete slab and girder (pan form) bridges, with a revision date of August 2004, are posted on the TxDOT web site and are available for immediate use.

Key revisions to these standard drawings (DTBRA-S, DTBRA-O, and CGRAD) include:

- These standard drawings are revised to reflect anchorage details for currently approved bridge rail types.
- Optional rail anchorage details are provided for prestressed double-T beam bridges for select concrete barrier rails.
- Standard drawing DTBRA-O presents rail anchorage details for prestressed double-T beam bridges topped with a 2-inch minimum overlay and only with design speeds of 45 mph and less, regardless of higher approved design speeds noted on rail standard drawings. This restriction is based on the inability to achieve the anchorage embedment shown on the bridge rail standard drawings with this superstructure system. However, for select cases, this design speed restriction may be removed through appropriate design modifications to this standard drawing. The Bridge Division is available to assist as needed with modifications.

These revised standard drawings apply to all construction projects beginning with the January 2005 letting. Prior use of these standard drawings is at the district's option.

These rail anchorage details standard drawings 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