



MEMORANDUM

TO: District Engineers

DATE: February 12, 2003

FROM: Mary Lou Ralls, P.E.

SUBJECT: Bridge Railing Standard Drawings (English)

The bridge railing standard drawings have been reissued with a date of February 2003 and are posted on the TxDOT web site and available for immediate use. Significant changes include the following:

- The terminal connection for T201, T203, T4(S), T4(A), T411, T501, T502, T503, T504, HT, SSTR, C201, C203, C4(S), C411, C501, and C502 rails was strengthened with additional reinforcing steel to minimize repair needs if this portion of railing suffers impact damage.
- The use of T504 traffic rail on prestressed concrete box beams is now limited to bridges with a 5-inch minimum cast-in-place concrete topping due to beam camber issues. This rail can also be used with prestressed concrete slab beams with the same topping requirements.
- Base plate anchor bolt projections for the T101 and C101 rails are increased to simplify rail construction. Also for these two rails, the minimum distance between rail posts and bridge deck joints is noted as requiring possible adjustment with skewed bridge deck joints. This was necessary to prevent conflicts between bolt anchorage plates and bridge deck joints at acute corners of skewed bridge decks. Previously issued standards for these rails permitted the field bending or cutting of bolt anchorage plates. This practice is now disallowed.
- For the T6 traffic rail, the practice of using only the front two anchor bolts in temporary rail applications is now disallowed. Additionally, the spacing of the slotted holes in the rail post is increased.

The T101RC, T1-101R, T501R, T6R, TRF, OPA-4, PR1, PR2, and B201 railing standard drawings were updated to reflect the new issue date.

These 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 revised standard drawings, please contact Mark J. Bloschock, P.E., (512) 416-2178, 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