



MEMORANDUM

TO: District Engineers

DATE: April 16, 2003

FROM: Mary Lou Ralls, P.E.

SUBJECT: TxDOT New Cast-In-Place Concrete Slab Span Standard Drawings (English)

New cast-in-place (C-I-P) concrete slab span standard drawings with an issue date of April 2003 are posted on the TxDOT web site and are available for immediate use.

These are TxDOT's first standard drawings designed according to AASHTO Load and Resistance Factor (LRFD) Bridge Design Specifications. The FHWA has mandated the use of LRFD Specifications for all bridges by 2007. Implementation of the LRFD Specifications requires bridges be designed for a new design live load, HL93. HL93 live load better represents the effects of actual trucks, including NAFTA trucks, on Texas' bridges than previous HS20 or HS25 design live loads.

Other items of interest regarding these standard drawings include the following:

- Superstructure and substructure details are provided for roadway widths of 24, 28, 30, 38, and 44 feet. These details accommodate 0, 15, and 30-degree skew angles.
- Slab depth is 14 or 16 inches, depending on span length and type.
- Expansion joint details are included on the standard CS-MD, "Miscellaneous Details for C-I-P Concrete Slab Spans". Please refer to the CS-MD standard for guidance in labeling and locating joints, expansion bents, and fixed bents on bridge layouts.

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 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