



## MEMO

November 25, 2014

**To:** District Engineers

**From:** Gregg A. Freeby, P.E.  
Division Director, Bridge Division

**Subject:** Prestressed Box Beam Standard Drawings

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The Prestressed Box Beam standard drawings for superstructures with overlay are withdrawn from the Bridge Standards webpage and no longer recommended for new construction. Box beam superstructures with overlay consistently develop leakage between beams, which is detrimental to the durability of the beams.

Drawings that are removed include:

- Post-Tensioning Details w/Overlay (BBPT)
- Rail Anchorage Details w/Overlay (BBRAO)
- Standard Designs w/Overlay (BBSDO) for all roadway widths
- Span w/Overlay (SBB0) for all roadway widths

Many options exist to use in lieu of box beam with overlay. For bridges specifically requiring a shallow superstructure, designers should consider Prestressed Slab Beams, Prestressed Box Beam with slab, Prestressed Decked Slab Beams, and Prestressed X-Beams.

Other bridge standard drawings are available on the Bridge Standards web page in MicroStation® “dgn” and Adobe® Acrobat® “pdf” formats. See <http://www.dot.state.tx.us/business/standardplanfiles.htm>.

For questions or comments concerning these standard drawings, please contact Amy E. Smith, P.E. at (512) 416-2261 or Jon T. Ries, at (512) 416-2191.

Note: Original Signed By Gregg A. Freeby

**CC:** Federal Highway Administration  
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Bridge Division Employees

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