



# MEMO

March 9, 2023

**To:** Directors of Transportation Planning and Development

**From:** Robert Owens, P.E. DocuSigned by:  
R.D. Owens  
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Bridge Design Section Director, Bridge Division

**Subject:** New and Revised Miscellaneous, Bridge Railing, Culvert, I-Girder and U-beam Standard Drawings

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New and revised Miscellaneous, Bridge Railing, Culvert, I-Girder, and U-beam standards drawings, with issue date of March 2023, are posted on the TxDOT website and available for immediate use.

Notable revisions to the standard drawings include the following:

- Miscellaneous Standards
  - BAS-C – The Bridge Approach Slab for Concrete Pavement standard’s Note 5 was revised to be consistent with the Continuously Reinforced Concrete Pavement (CRCP) standards with respect to the material between the sleeper slab and the CRCP.
  - CP – The Prestressed Concrete Piling standard was updated to include 0.6” strand option.
  - CSAB – The general notes on the Cement Stabilized Abutment Backfill were updated to clarify which material and construction specifications are applicable to the flowable backfill option. Note 6 was added to sheet 2 for a variable dimension for the thickness of the CSAB.
  - NBIS – NBI Bridge Identification Sign Standard is a new standard for mounting NBI sign to concrete structure.
  - PCP – The Prestressed Concrete Panels Desk Details standard drawings were updated to remove the restriction on panels in negative moment regions.
- Bridge Railing Standards
  - RAP – The Rail Anchorage over PCP standard is a new standard to modify the rail anchorage to accommodate a bridge rail over precast panels, typically used with inboard rail.
  - T631 and T631LS – These railing standards were revised to add the restriction to install the end treatment tangent to the primary roadway. These rails and the anchoring MBGF cannot turn a corner to follow a driveway or cross street.
- Culvert and Drainage Standards
  - PRM – The Precast Round Manhole standard was updated to correct the dimension callout for TS and RS.

- Prestressed Concrete I-Girders
  - IGD – The Prestressed Concrete I-Girder Details standard was updated to clarify C and CH requirements.
- Prestressed Concrete U-Beams
  - UBD – The Prestressed Concrete U-beam Details standard was updated to increase the beam weights to 155 pcf instead of 150 pcf. In addition, the lap lengths of bars were modified to reflect current design practices.

These revised standard drawings apply to construction projects beginning with the September 2023 letting. Prior use is at the option of each District.

These and other bridge standard drawings are available on the Bridge Standards web page (<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/standard/bridge-e.htm>) in MicroStation® “dgn” and Adobe® Acrobat® “pdf” formats.

For questions or comments concerning these standard drawings, please contact Taya Retterer, P.E. at 512/416-2719.

**CC:** Federal Highway Administration  
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District Design Engineers  
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