



MEMO

April 17, 2023

To: Directors of Transportation Planning and Development

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

Subject: New OBM Templates

New templates modeling standard bridges for Open Bridge Modeler (OBM) are posted on the TxDOT website and available for immediate use. Each *.zip file includes a select number of roadway widths. Not all roadway widths for every beam type are provided.

- Prestressed Concrete I-Girders – Representative widths for 4 girders (24 ft roadway width), 5 girders (40 ft. roadway width) and 6 girders (48 ft. roadway width).
- Prestressed Concrete Slab Beams – 24 ft, 28 ft, and 30 ft. roadway widths.
- Prestressed Concrete X-Beams Representative widths for 4 girders (32 ft roadway width), 5 girders (38 ft. roadway width) or 6 girders (44 ft. roadway width).
- Prestressed Concrete Box Beams – 24 ft, 28 ft, and 30 ft. roadway widths.
- Prestressed Concrete U-Beams – Representative widths for 4 girders (40 ft roadway width) and 5 girders (48 ft. roadway width).

In addition, each *.zip file includes the “How to use the 3D Standard Bridge Templates”. This guide document assumes the user of the templates has a basic knowledge in the use of OBM.

These templates are provided as a starting point for inserting a standard bridge into OBM. Once inserted the bridge will need to be attached to the project roadway alignment and the beam spacing and span lengths will need to be modified to match the bridge layout. The use of these templates does not waive the engineer’s responsibility for ensuring the OBM bridge model is as accurate as the software allows.

These templates are available on the Bridge Standards web page (<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/standard/bridge-e.htm>).

For questions or comments concerning these OBM templates, please contact BRG_ Bridge3DDesign <bridge3ddesign@txdot.gov>.

CC: Federal Highway Administration
Bridge Design Consultants
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District Bridge Engineers
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