



Oregon

Tina Kotek, Governor

Department of Transportation

Technical Leadership Center
ODOT Bridge Section MS #4
4040 Fairview Industrial Dr. SE
Salem, OR 97302

April 30th, 2024

To: Users of Oregon DOT Bridge Design Manual

Subject: Revisions to the ODOT Bridge Design Manual

The BDM has been updated with multiple technical revisions, including major rewrites of Section 1.12.6. See the attachment for an update summary. The revised BDM and format guide are being released in web-based Acrobat files, which can be accessed at the following web site:

<http://www.oregon.gov/ODOT/Bridge/Pages/Bridge-Design-Manual.aspx>

The revised BDM can be viewed from the site or downloaded and printed. The documents are also available on Projectwise.

These revisions apply to new design projects as of the effective date of July 1st, 2024. New projects for in-house designs are those that do not have an approved DAP by the effective date. New projects for outsourced projects are those that do not have an executed work order contract for PE. However, existing projects may make use of these revisions, if agreed to by the Agency Project Manager or Project Team Leader.

We would like to thank the many people who provided comments and suggestions for this BDM update. Please send comments or suggestions for the October 2024 BDM to Emily Clyburn at: emily.clyburn@odot.oregon.gov

Raymond Bottenberg
State Bridge Engineer

Attachment: BDM Update Summary April 2024

April 2024 Update
[ODOT Bridge Design Manual](#)
Update Summary

The following revisions are in reference to current BDM section numbers:

Section 1 – Design Standards and Practices

- 1.2.9.2 Clarified the Name of Structure requirement for Structure ID markers.
- 1.3.9 Provided updated wind loading map.
- 1.5.1 Revised “compression members” to “columns” in Class of Concrete table
- 1.5.1.1 Provided guidance on concrete reinforcement in corrosive environments.
- 1.5.11.3.2 Moved design guidelines for coil inserts to this section, and revised to apply to more than utility installation.
- 1.5.5.12 Linked Distribution of Flexural Reinforcement modifier due to exposure conditions to areas defined in BDM 1.2.4
- 1.6.5.1 Added guidance on appropriate diameters of high strength bolts.
- 1.9.2.1 Provided guidance on requirements between parallel structures that are 10 feet apart or less.
- 1.9.2.1.3 Clarified guidance on reinforcement protection in corrosive areas.
- 1.9.3.3 Added general discussion of deck removal using hydrodemolition.
- 1.10.5.4.1 Revised guidance on pile corrosion protection systems. Revised to two column format.
- 1.12.6 Reformatted to two column format and general update.
- 1.13.11.1 Added requirement for protective fencing between parallel structures 10 feet apart or less.
- 1.17.2.1, 1.17.2.3, 1.17.2.6 Ground improvement mitigation guidelines.

Section 2 – Processes

- 2.14.12 Provided guidance on external distribution of bridge plans.

General Notes

Removed 4000 - 1 from class of concrete for columns, footings, footing caps, and crossbeams.