



Oregon

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Bridge Engineering Section

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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 Sections 1.6, 1.15 and 2.5. 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 January 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 April 2024 BDM to Emily Clyburn at: emily.clyburn@odot.oregon.gov.

Thank you,

Raymond BOTTENBERG

Raymond BOTTENBERG (Oct 24, 2023 16:31 PDT)

Raymond Bottenberg, P.E., S.E.

State Bridge Engineer

Attachment: BDM Update Summary October 2023

October 2023 Update
[ODOT Bridge Design Manual](#)
Update Summary

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

Section 1 – Design Standards and Practices

- 1.2.3.1 Specified a minimum of one site visit is required on all projects.
- 1.2.9.2 Clarified the requirement for Structure ID markers is optional for local agency projects.
- 1.2.10.1 Moved accessibility and inspection related items to BDM 1.15.5.
- 1.3.3.1 Provided plot with EV3 loading included.
- 1.5.1 Resolved inconsistencies of the requirements of concrete strength and aggregate size in the BDM and general notes.
- 1.6 Reformatted to two column format.
- 1.9.2.1 Clarified that ACP is not allowed on new or existing bare concrete decks.
- 1.9.3.1.6.1 Deck protection system is required for local agency projects using federal funds.
- 1.12.6.2 Provided design guidelines on insert locations or when applied loads are significant that would require a different size and number of inserts.
- 1.13.7 Clarified rail retrofits are required on bridge preservation projects that are part of a 4R project.
- 1.13.9.2 Added section for rail requirements on structures over railroads.
- 1.13.11 Added clarification on design criteria for exclusionary fencing.
Removed splashboard requirements to reflect current RR practices.
- 1.15 Reformatted to two column format and rewrote section to reflect ODOT knowledge and practice of repair and strengthening.
 - 1.15.1.1.3 Added a minimum spacing for ISA for constructability.
 - 1.15.2.1 Wrote Concrete Repair Section
 - 1.15.2.2 Wrote BDM Expansion Joint Repair
 - 1.15.2.4 Revised the epoxy injection article to reflect ODOT practice.

Rewrote BDM 1.15.5 Inspection and Maintenance Accessibility to align with OSHA, better define fall protection requirements, and bridge accessibility design criteria.

Section 2 – Processes

- 2.5 Update quality plan to align with Statewide Quality Discipline Template.
- 2.10.8 Updated load rating calculation book procedure to align with current practice.

General Notes

Misc:

Update Technical Specialists and BDM Section Owners.