



Oregon

John A. Kitzhaber, M.D., Governor

Department of Transportation

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

FILE CODE:

December 31, 2012

To: Users of Oregon DOT Bridge Design and Drafting Manual

Subject: New changes and additions to the ODOT Bridge Design and Drafting Manual

The ODOT Bridge Design and Drafting Manual (BDDM), 2004 has been updated with several changes and additions. The revised Manual is being released in web-based Acrobat files, which can be access at the following web site:

http://www.oregon.gov/ODOT/HWY/BRIDGE/standards_manuals.shtml#Bridge_Design_Drafting_Manual

The Manual and changes can be viewed from the site, or downloaded and printed. The update covers 9 changes in Section 1 & Section 2 of the manual, which are listed in the attachment.

The BDDM changes apply to new design projects as of the effective date of December 31, 2012. New projects for ODOT designed projects 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 new changes, if agreed to by the CPM or Project Team Leader.

We are very interested in comments and suggestions on any of the provisions in the manual. Please send questions about the manual to Craig Shike at (503) 986-3323, Craig.L.Shike@odot.state.or.

Bruce V. Johnson
State Bridge Engineer

Attachment: BDDM Update Summary December 2012

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December 2012 Update
ODOT Bridge Design & Drafting Manual

Update Summary

Section 1 – Design and Detailing Practices

1.1.7.2 Live Loads – For design of new structures, use AASHTO LRFD distribution factors, not finite element or grillage analysis.

1.1.12.5 Permanent Strengthening of Reinforced Concrete Bridges – Clarify use of FRP strengthening based on critical rating factors.

1.1.20.1 Decks Design and Detailing – Add guidance to mitigate potential cracking at deck closure pours due to vibration from adjacent traffic.

1.1.20.5 Deck Overlays – Update overlay nomenclature. For ACWS, make waterproofing membrane mandatory.

1.1.25 Corrosion Protection – For ACWS, make waterproofing membrane mandatory. Rolled type membranes are no longer allowed. Emphasize likelihood of deicing chemical use statewide and need for deck protection.

1.2.2.1 Welding, General – Remove welded splices of bridge deck reinforcement due to AASHTO LRFD 9.7.2.5 concerns about fatigue.

Section 2 – Drafting Practices

2.1.3.1 Drawings Start to Finish – Changed As-Constructed section reference.

2.1.3.2 What Bridge Section Needs At Completion of a Design Project – Add As-Constructed section reference.

2.4.2 Title Block Signatures – Engineer of Record's name will be printed, because engineer's seal will be removed at the as-constructed phase.