



Oregon
Theodore R. Kulongoski, Governor

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FILE CODE:

November 14, 2007

To: Users of Oregon DOT Bridge Design and Drafting Manual

Subject: Changes to the ODOT Bridge Design and Drafting Manual

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

[http://www.oregon.gov/ODOT/HWY/BRIDGE/standards_manuals.shtml#Bridge Design Drafting Manual](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 new changes include revisions to drilled shaft design, deck design, steel girder detailing, and others in 21 areas of the Manual. The changes are listed in the attached BDDM Update Summary November 2007.

The BDDM changes will apply to new design projects as of November 14, 2007. However, it is expected that existing projects may make use of the new changes, if agreed with the CPM or Project Team Leader.

We are very interested in comments or suggestions on these proposals. Please provide comments or questions about the changes to Kevin Davidson at 503-986-3342, Kevin.F.DAVIDSON@odot.state.or.us or Bruce Johnson at 503-986-3344.

Bruce Johnson
State Bridge Engineer

BVJ/MP

Attachment: BDDM Update Summary November 2007.doc
BDDM Update Summary October 2007

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Updates\Changes_to_BDDM_11_14_07.doc

1.1.2.9 Aesthetics – add criteria for Ornamental Protective Screening

1.1.5.5 Drilled Shafts: diameters, reinforcement, horizontal tolerances, column splice. New Figures 1.1.5.5A & B, existing 1.1.5.5A revised, became 1.1.5.5C. Subsections inserted, remaining subsections renumbered.

(6) Shaft Rock Embedment – additional shaft length discussion.

(12) Shaft Reinforcement – section renamed, expanded.

(13) Shaft Concrete – concrete grade specified

(14) Cover Requirements – shaft diameters revised

(19) Shaft Diameter for Seismic Analysis – new section

1.1.5.7 Overall Stability Evaluation – New heading, expanded discussion for landslides

1.1.9.5 Column Design, General – misc. details, non contact drilled shaft splice

1.1.9.7 Column Steel Clearance in Footings – revise Fig. 1.1.9.7A w/ English units

1.1.10.1 Seismic Design, General – Remove TE-3 references, clarify load factors for EQ with Live Load

1.1.10.6 Liquefaction Evaluation and Mitigation Procedures – revised section title, liquefaction text moved from 1.1.10.5 to 1.1.10.6

1.1.13.6 Unused Heading - Deleted

1.1.14.1 Precast Prestressed Elements – corrected nomenclature for tension

1.1.20.1 Deck Design – effective deck thickness for design, misc. edits.

Figures 1.1.20.1A & B revised, 1.1.20.1C & D added

1.1.20.1 Deck Detailing – delete figure references from previous update

1.1.20.1 Deck Vibrations – misc. edits, clarifications

1.1.20.6 Deck Construction Joints – Revise Fig. 1.1.20.6A

1.1.21.1 (6) Rail Transitions – add text, first post off structure

1.1.21.3 Joints In Bridge Rail – add maximum skew angle 20° through rail

1.1.23.2 Resin bonded anchors – add limitations on sustained loads

- 1.2.1 Steel Girders-Design – add discussion on top ½” of deck thickness
- 1.2.1.3 Revise Figures 1.2.1.3A, B, C & D, diaphragm connection plates
- 1.2.1.4 Revise Fig. 1.2.1.4A, intermediate web stiffeners
- 1.2.1.5 Revise Fig. 1.2.1.5A, bearing stiffener details

- 1.4.4.2 Inspection and Maintenance Accessibility – add reference to standard drawings BR190 and BR191 “Horizontal Fall Arrest Lifeline” details

- 1.4.4.5 Protective Screening – add criteria for ornamental screening

- 2.2.5A Added new structural steel callouts
Structural tubing callouts change

- 2.7.2 Added stage construction to the sheet order
Stage Construction was missing from sheet order

- 2.7.4 Level notes for Foundation Data sheets
Add comment that bridge foundation data sheets will follow Geo-Environmental levels

- 2.7.10 Where to find “For Information Only Drawings”
Use Bridge Data System to find “For Information Only” drawings

- 2.8.2 Bridge Plotting Using Plotypus
Instructions and example deleted; refers user to Plotypus “help”

- A2.2.2 Updated lines styles
Changed the acceptable line styles for a couple of levels