Oregon
John A. Kitzhaber, M.D., Governor

Department of Transportation
Technical Leadership Center
ODOT Bridge Section MS #4
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FILE CODE:

May 5, 2011

To: Users of Oregon DOT Bridge Design and Drafting Manual

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

ODOT Bridge Section is proposing several updates and additions that are intended to be added to the Bridge Design and Drafting Manual (BDDM). We anticipate that these changes will be effective late May of 2011, after a two week review and comment period. The new updates and additions are being released for review in web-based Acrobat files, which can be accessed at the following web site:

http://www.oregon.gov/ODOT/HWY/BRIDGE/bddm_proposals.shtml

The Manual and changes can be viewed from the site, or downloaded and printed. The changes consist of 17 files covering changes listed in the attachment.

The changes will apply to new projects. 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 and suggestions on these proposals from those who use the manual. Please provide comments and questions about the changes by May 19th to Kevin Davidson at (503) 986-3342, Kevin.F.Davidson@odot.state.or.us or Craig Shike at (503) 986-3323.

Bruce V. Johnson
State Bridge Engineer

Attachment: BDDM Proposed Update Summary April 2011

BVJ/jdj

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April 2011 Update
ODOT Bridge Design & Drafting Manual

Update Summary

Section 1 – Design and Detailing Practices

1.1.2.7 Bridge End Panels and Supports – Remove references to local agency bridges and optional end panels.

1.1.2.9.12 ODOT Accelerated Bridge Construction (ABC) Guidelines – add explanation and figures for new Analytic Hierarchy Process (AHP) decision and cost analysis tool

1.1.2.12 Final Design, General – clarify language regarding P.E. stamping

1.1.8.3 Wingwall Design and Construction – add background and explanation on longtime Region 4 preference of having bottom of wingwalls level.

1.1.8.4 End Bents, Integral Abutments – use integral abutments where possible

1.1.8.6 Pile Cap Abutment Details – add guidance for girders which are set on elastomeric pads, then fixed to bent. Fig. 1.1.8.6A: convert metric dimensions

1.1.10.2-1 Seismic Retrofit – clarify Performance Levels for Lower Level Ground Motion with respect to FHWA-HRT-06-032 retrofitting manual

1.1.10.6 Liquefaction Evaluation and Mitigation Procedures – Note 3: add note for design submittals to HQ Bridge Section

1.1.20.1A Decks, Design and Detailing – new section for Precast Deck Panels

1.1.20.5 Deck Overlays – general cleanup, revise & clarify bid basis for Class 2 and Class 3 deck preparation

1.2.1.5 Bearing Stiffeners – delete skewed weld detail, add instructions for skewed bearing stiffeners.

1.2.1.8 Beam Camber, (2) Shrinkage Camber – remove numeric values from Ec and f'c, make generic.

1.4.9.4 Falsework, General – clarify capacity of jacking systems

1.4.11 Bat Habitat – added guidance for bat habitat on bridges

1.6 ODOT Design Instructions for AASHTO LRFD Bridge Design Specifications – add LRFD-BDDM Cross-Reference Table

Section 2 – Drafting Practices

2.1.1 Standard File Format – clarify MicroStation requirements

2.1.3.1 Drawings Start to Finish – various revisions