I N T E R O F F I C E M E M O

TECHNICAL SERVICES
Bridge Engineering Section
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DATE: July 7, 2016

TO: Alex Lim
Bridge Design Standards Engineer

FROM: Alex Lim
Bridge Design Standards Engineer
ODOT
Phone: 503-986-3402

SUBJECT: Proposed Revision to Bridge Design & Drafting Manual

RE: BDDM Section 3.2.3 – MathCAD Template Library

Problem Statement:

Update link and file information

Proposal:

Modify Section 3.2.3 as follows:

3.2 BRIDGE DESIGN SOFTWARE

3.2.3 MathCAD Template Library

3.2.3 MathCAD Template Library

The following MathCAD Standard Bridge Rail Calculations are posted on the Bridge Standards website under the "Software Tools for Design" section. The calculations document the bridge rail design and capacity:

- BR200_Calcs_2016 for *BR200*
- BR206_Calcs_2014 for *BR206* (will be updated in the near future)
- BR208_Calcs_2014 for *BR208* (will be updated in the near future)
- BR214_Calcs_2014 for *BR214* (will be updated in the near future)
- BR221_Calcs_2016 for *BR221*
- BR290_Calcs_2016 for *BR290*

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The spreadsheet "Summary of ODOT Standard Rail Capacities" summarizes all the bridge rail capacities for deck overhang design.
~~A MathCAD Bridge Calculation Template is located on the Bridge Intranet.~~

~~The template is a resource for ODOT designers to use when starting calculations to standardize the format of calculations at ODOT. Its use is optional, not required. The Bridge Standards Unit uses it for their calculations.~~

Also available on the Bridge Intranet are the following Calculation Templates available for ODOT designers use to promote standardization and efficiency~~.~~:

- Deck Overhang with Concrete Bridge Rail (MathCAD and MathCAD Prime)

Analysis / Research / Other Supporting Data:

☒ None
☐ Attached:

Bridge Engineering Section Response:

☐ Accepted for consideration as submitted ☐ Accepted for consideration as noted ☐ Proposal tabled, see Remarks ☐ Proposal not accepted, see Remarks		
Remarks:		
Craig Shike Bridge Design Standards Reviewer		Date
Alex Lim Digitally signed by Alex Lim DN: cn=Alex Lim, o=ODOT, ou=BDDM Standards Engineer, email=Alex.K.LIM@odot.state.or.us, c=US Date: 2016.09.29 10:41:00 -07'00'		
Alex Lim Bridge Design Standards Engineer		Date 9/29/2016

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