

# MEMORANDUM

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**DEPARTMENT OF TRANSPORTATION**

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Date: July 19, 2012

To: All Bridge Design Manual Users

*Signature on File*

From: Mark A. Leonard

Subject: CDOT Bridge Design Manual Revisions

Section 9.1, Revision Log and Table of contents of the CDOT Bridge Design Manual have been updated:

- AASHTO Standard Specifications references are eliminated.
- Metric units are eliminated.
- Imperial units are changed to KSI to be consistent with LRFD Code.
- Document is edited for readability.
- Unbonded tendons restrictions are relaxed.
- Partial prestressed design of many members is allowed.
- Monostrand tendons use guidance is provided.
- Construction joints and at the ends of thickness tapers now require through the thickness reinforcement.
- Cross tie requirements at curved tendons are changed.
- Cross tie minimum size is reduced to #2.
- Tendons curvature out of plane is limited.
- Shear limited liveload capacity is to match moment limited liveload strength capacity of bridges.
- Spliced girder segments prior to tensioning have added tensile stress requirements, including a reduction for tensile zone depth.
- Spliced girders of some types, in appropriate situations, require consideration in the selection report.
- Initial and final concrete strength recommendations are adjusted to match current reliable capabilities.
- AASHTO LRFD principal web stress limitations guidance is added.
- Positive restraint moment calculation guidance is added.
- Mixed design (bonded/unbonded and tensioned/partial tensioned) guidance is provided.
- Camber variations have expanded commentary.

**July 19, 2012**  
**Mark A. Leonard**  
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Please change this section of your copy of the Bridge Design Manual. These revisions are available electronically through the CDOT bridge web page.

<http://www.dot.state.co.us/DesignSupport/>

Structural personnel should review and become familiar with these revisions. If you have any questions or recommendations for improvement please contact:

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