



Florida Department of Transportation


JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

August 30, 2005

TO: District Directors of Operations, District Directors of Production, District Design Engineers, District Structures and Facilities Engineers, District Geotechnical Engineers, District Maintenance Engineers, District Construction Engineers, District Structures Design Engineers

FROM: William Nickas, P.E., State Structures Design Engineer 

COPIES: Bob Greer, Jeffrey Ger (FHWA), Brian Blanchard, John Harris, David Sadler, Duane Brautigam, Sharon Holmes, Robert Robertson, David O'Hagan, Larry Sessions, Larry Jones, Henry Bollmann, Steve Plotkin, Elwin Broome.

SUBJECT: Temporary Design Bulletin C05-15
Adoption of the 2005 Interim Revisions to the AASHTO LRFD Bridge Design Specification

REQUIREMENTS (2)

1. Add the following revised reference to **Introduction, Section I.6, References**, of the July 2005 Structures Design Guidelines:

LRFD Bridge Design Specification, 3rd Edition (2004), with 2005 Interim Revisions **excluding** Section 6.
2. Replace **Sections 5.1.A and 5.1B, Superstructure - Steel - General**, of the July 2005 Structures Design Guidelines with the following:
 - A. Design straight steel bridge components in accordance with **LRFD** 3rd Edition (2004), with 2005 Interim Revisions excluding Section 6, and the requirements of this Chapter (for commentary see Section I.6).
 - B. For a bridge with curved steel members for part or all of its length, design the entire bridge, including substructure (with the exception of the traffic railing barriers) in accordance with the **2003 AASHTO Guide Specifications for Horizontally Curved Highway Bridges** and the **AASHTO Standard Specifications for Highway Bridges, 17th Edition**, with a HS-25 live load.

- C. Design the traffic railing barriers and all other bridges within the same project in accordance with the AASHTO *LRFD Bridge Design Specifications*. On all bridges, use the current Structures Design Guidelines as appropriate.

COMMENTARY

Add the following commentary to **Introduction, Section I.6, References**, of the Structures Design Guidelines:

Section 6 of the LRFD 2005 Interim Revisions includes a new, comprehensive model for designing both straight and curved steel girder bridges. Since the Department is still evaluating the effects of the new model, Section 6 of the 2005 Interims has not been adopted by FDOT. For other FDOT steel requirements and exceptions, see Chapter 5.

BACKGROUND

On FDOT projects, this policy only affects straight steel girder bridge designs. Curved steel bridges will continue to be designed with Structures Design Guidelines Section 5.1.B with the dated references shown in the requirements.

Once new curved steel girder design software is available that complies with Section 6 of the 2005 Interim Revisions, and design results are verified, the Department will issue a revised policy on both curved and straight steel girder bridges. This process is expected to take more than one year.

IMPLEMENTATION

This policy is effective on all designs started on or after June 3, 2005 (2005 AASHTO LRFD Interim Revisions were released June 3, 2005). No changes are required for designs started before June 3, 2005.

CONTACT

David C. O'Hagan, PE
Assistant State Structures Design Engineer
(850) 414-4283
david.ohagan@dot.state.fl.us