



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

June 24, 2010

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 005
Proposed Specification: **0050104a Control of the Work – Beam and Girder
Temporary Bracing.**

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

These changes were proposed by Christina Freeman of the State Structures Design Office to make the language consistent with Structures Design Bulletin C10-01 New Temporary Bracing Requirements for Beams on New Bridge Projects.

<http://www.dot.state.fl.us/structures/Memos/TemporaryDesignBulletinC10-01.pdf>

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to ST986RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

Rudy Powell, Jr., P.E.
State Specifications Engineer

RP/dt
Attachment

cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

CONTROL OF THE WORK – BEAM AND GIRDER TEMPORARY BRACING.
(REV ~~43112-7241421-1009~~)

SUBARTICLE 5-1.4.5.6 (Page 35) is deleted and the following substituted:

5-1.4.5.6 Beam and Girder Temporary Bracing: The Contractor is solely responsible for ensuring stability of beams and girders during all handling, storage, shipping and erection. Adequately brace beams and girders to resist wind, weight of forms and other temporary loads, especially those eccentric to the vertical axis of the products, considering actual beam geometry and support conditions during all stages of erection and deck construction. *At a minimum, provide temporary bracing at each end of each span beam or girder.* Develop the required *bracing* designs *in accordance with following the AASHTO LRFD Bridge Design Specifications (LRFD) using wind loads found specified in Section 2.4.3 of the Structures Design Guidelines (SDG). For information not included in the SDG or LRFD, refer to the AASHTO Guide Design Specifications for Bridge Temporary Works and Construction Handbook for Bridge Temporary Works and the Contract Documents.*

For Construction Affecting Public Safety, ~~submit signed and sealed calculations for stability for all beams and girders.~~ *and when temporary bracing requirements are shown in the plans, submit plans and calculations signed and sealed by a Specialty Engineer for the design of temporary bracing members and connections based on the loads forces shown in the plans. In addition, submit a written certification that construction loads do not exceed the assumed loads shown in the plans.*

For Construction Affecting Public Safety, and when temporary bracing requirements are not shown in the plans or a different alternate temporary bracing system is proposed, submit plans and calculations signed and sealed by a Specialty Engineer for including the stability analysis of stability and the design of temporary bracing members and connections.

**CONTROL OF THE WORK – BEAM AND GIRDER TEMPORARY BRACING.
(REV 4-7-10)**

SUBARTICLE 5-1.4.5.6 (Page 35) is deleted and the following substituted:

5-1.4.5.6 Beam and Girder Temporary Bracing: The Contractor is solely responsible for ensuring stability of beams and girders during all handling, storage, shipping and erection. Adequately brace beams and girders to resist wind, weight of forms and other temporary loads, especially those eccentric to the vertical axis of the products, considering actual beam geometry and support conditions during all stages of erection and deck construction. At a minimum, provide temporary bracing at each end of each beam or girder. Develop the required bracing designs in accordance with the AASHTO LRFD Bridge Design Specifications (LRFD) using wind loads specified in the Structures Design Guidelines (SDG). For information not included in the SDG or LRFD, refer to the AASHTO Guide Design Specifications for Bridge Temporary Works and Construction Handbook for Bridge Temporary Works.

For Construction Affecting Public Safety, when temporary bracing requirements are shown in the plans, submit plans and calculations signed and sealed by a Specialty Engineer for the design of temporary bracing members and connections based on the forces shown in the plans. In addition, submit a written certification that construction loads do not exceed the assumed loads shown in the plans.

For Construction Affecting Public Safety, when temporary bracing requirements are not shown in the plans or an alternate temporary bracing system is proposed, submit plans and calculations signed and sealed by a Specialty Engineer including the stability analysis and design of temporary bracing members and connections.