Florida Department of Transportation

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GOVERNOR

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STEPHANIE KOPELOUSOS
SECRETARY

May 20, 2010

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

Re: Office of Design, Specifications
Section 460
Proposed Specification: 4600706 Structural Steel And Miscellaneous Metals – Tightening of Anchor Rod Nut.

Dear Ms. Gourdine:

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

These changes were proposed by Rodney Chamberlain to address the different anchor bolt (rod) installation requirements for pot bearings versus bearing pads and to make the spec requirement consistent with the anchor bolt details as shown on the bearing pad and pot bearing details from the Structures Detailing Manual.

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

STRUCTURAL STEEL AND MISCELLANEOUS METALS
(REV ~~3-26-10~~*5-18-10*)

SUBARTICLE 460-7.6 (Page 624) is deleted and the following substituted:

460-7.6 Tightening of Anchor *Bolt/*Rod Nuts:

460-7.6.1 Fixed *and Expansion Pot* Bearings~~s~~: Tighten anchor *bolts*~~nuts~~ *or rod nuts,* to a 'snug tight' condition such that the different mating surfaces (such as the top of concrete, neoprene and steel) are in firm contact. The nut *or bolt* is to be tight enough to develop friction between surfaces to prevent sliding, but not over-tightened that bulging or damage occurs in any of the mating materials.

460-7.6.2 *Fixed and* Expansion Bearings *with Elastomeric Bearing Pads*: Draw down the *lower* nut such that a total gap of 1/*2*~~16~~ inch exists between the ~~washer and~~ nut ~~and washer~~ and bearing *plate*~~surface~~. Tighten a second nut of the same specification to a snug tight condition against the ~~first~~*lower* nut maintaining the required gap.

STRUCTURAL STEEL AND MISCELLANEOUS METALS
(REV 5-18-10)

SUBARTICLE 460-7.6 (Page 624) is deleted and the following substituted:

460-7.6 Tightening of Anchor Bolt/Rod Nuts:

460-7.6.1 Fixed and Expansion Pot Bearing: Tighten anchor bolts or rod nuts to a 'snug tight' condition such that the different mating surfaces (such as the top of concrete, neoprene and steel) are in firm contact. The nut or bolt is to be tight enough to develop friction between surfaces to prevent sliding, but not over-tightened that bulging or damage occurs in any of the mating materials.

460-7.6.2 Fixed and Expansion Bearings with Elastomeric Bearing Pads: Draw down the lower nut such that a total gap of 1/2 inch exists between the nut and bearing plate. Tighten a second nut of the same specification to a snug tight condition against the lower nut maintaining the required gap.