



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: November 15, 2013

TO: David Sadler, Director, Office of Construction; Rudy Powell, State Construction Engineer; Calvin Johnson, General Counsel's Office; Michael Shepard, State Roadway Design Office; Greg Davis, State Estimates Office; Charles Boyd, State Structures Design Office; and, Tim Lattner, State Maintenance Office

CC: Daniel Scheer, State Specifications Engineer; Bob Burleson, FTBA; Darrell Broxsie, General Counsel's Office; Trey Tillander, Manager, Specifications & Estimates

FROM: Debbie Toole, Specifications Development Specialist

SUBJECT: Proposed Specification: 4001606 Concrete Structures.

Attached for your review and comments is a copy of the subject proposed specification.

The changes are proposed by Steve Plotkin of the State Construction Office to allow the use of Type 1 curing compounds with fugitive dye in lieu of Type 2 curing compounds in the construction of traffic barriers, railings, parapets and endposts.

Please review and offer your comments within five days so that we may continue with the review process.

Attachment

CONCRETE STRUCTURES.
(REV 11-15-13)

SUBARTICLE 400-16.6 is deleted and the following substituted:

400-16.6 Traffic Barriers, Railings, Parapets and End Post: Ensure concrete is cured in accordance with 400-16.2(b), *except that a clear Type 1 curing compound that must contain a fugitive dye may be used in lieu of Type 2. If Type 1 is used, its removal per 400-15.1 during finishing is not required.* When construction is by the slip form method, coat all concrete surfaces with a curing compound that meets the requirements of 925-2, either within 30 minutes of extrusion or before the loss of water sheen, whichever occurs first. Ensure a curing compound coating period of not less than seven days after application. Prior to each concrete placement, submit to the Engineer the method that will be used to periodically measure the rate of application in gallons/sq ft. Also, prior to each placement, submit to the Engineer the anticipated quantity of curing compound in gallons that will be used to meet the coverage rate specified in 400-16.2 along with the corresponding square footage of barriers, railings, parapets and end posts to be coated with that quantity. Compute the actual quantity of curing compound that is applied during each concrete placement and submit the quantity to the Engineer. Applied Finish Coatings, that are on the Qualified Products List and that are flagged as permitted for use as a curing compound, may be used in lieu of a curing compound; If an Applied Finish Coating is used in lieu of a curing compound, have a backup system that is in full compliance with 400-16.2(b) available at all times to ensure that an effective alternative system will be immediately available if the Applied Finish Coating cannot be applied within 30 minutes of extrusion or before the loss of water sheen.