

ORIGINATION FORM

Specification: 400
Subject: 400-17.4 Alternate Procedure
Origination date: August 14, 2008
Originator: Tom Malerk
Phone: State Materials Office/(352) 955-6620

Problem statement: This subarticle was previously revised to allow contractors to break cylinders; however, the revision did not completely address the cylinder requirements *for acceptance*.

Proposed solution: This revision will ~~further~~ clarif*iesy* the ~~test method and specific~~ *acceptance* requirements when cylinders are used instead of beams.

Information source: For more information, contact Michael Bergin at 352-955-6666.

Recommended Usage Note: The revision will apply to concrete structures and loading of these structures prior to the minimum required compressive strength is met.

Estimated fiscal impact, if implemented: ~~There should be a reduction in the cost to test since the required testing will be compressive strength of cylinders instead of flexural strength of beams so additional equipment typically used to test beams will not be needed.~~ *Minimal impact because this is a clarification of acceptance criteria and not changing the work to be performed.*

For State Specifications Office Use Only

Begin date: September 25, 2008
File Number: 4001704
Scheduled completion date: December 23, 2008
Implementation date: July 2009
Implementation team member: Frances Thomas
Usage Note: All Jobs

Notes:

1. This will be a revision to a supplemental. The lead-in sentence needs to be corrected and make sure this is the latest.
2. After talking with Susan, the other changes requested will not be made because these are covered in 346-5.



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: October 29, 2008

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: 4001704 Concrete Structures – Protection of Concrete

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Tom Malerk of the State Materials Office to align the titles of qualified personnel with the Construction Training Qualification Manual and to clarify the acceptance requirements when cylinders are used instead of beams.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after November 26, 2008 may not be considered. Your input is encouraged.

RP/ft
Attachment

CONCRETE STRUCTURES – PROTECTION OF CONCRETE.**(REV ~~8-14-08~~10-27-08)**

SUBARTICLE 400-17.4 (of the Supplemental Specifications) is deleted and the following substituted:

400-17.4 Alternate Procedure: As an alternate procedure, in lieu of the time delay periods set forth in 400-17.1 and 400-17.3, test beams or cylinders may be cast from representative concrete and cured identically with the concrete in the corresponding structural component. Make the test beams in accordance with ASTM C 31 and test them in accordance with ASTM C 78. When the test results indicate a minimum flexural strength of 550 psi *for beams* or ~~indicate~~ a minimum required compressive strength *of 5,500 psi for cylinders*, concrete bridge decks and culverts may be opened to traffic or the superstructure and beams may be placed on caps.