

## ORIGINATION FORM

**Date:** 1-17-12

**Originator:** Timothy J. Ruelke

**Contact Information:** State Materials Office/352-955-6620

**Specification Title:** Concrete Structures

**Specification Section, Article, or Subarticle Number:** 400

**Why does the existing language need to be changed?** To remove conflict between Section 346 and 400 current language.

**Summary of the changes:**

Revise Section 400 to current 346 requirements for air temperature only. A change to Section 346 is being done in conjunction with this change to have the requirements only in one Section.

**Are these changes applicable to all Department jobs? If not, what are the restrictions?**

These changes are applicable to all Department jobs.

**Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs?** The changes should not change project costs. The purpose is to clarify current requirements.

**With who have you discussed these changes?** State Construction Office

**What other offices will be impacted by these changes?** Construction.

**Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual?** No.

**Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed?** No.

Contact the State Specifications Office for assistance in completing this form.

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### **M E M O R A N D U M**

**DATE:** February 29, 2012  
**TO:** Specification Review Distribution List  
**FROM:** Duane F. Brautigam, Director, Office of Design  
**SUBJECT:** Proposed Specification: **4000701 Concrete Structures.**

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

This change was proposed by Tim Ruelke to remove conflict between Section 346 and Section 400 language.

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 RD967DB or duane.brautigam@dot.state.fl.us. Comments received after **March 28, 2012**, may not be considered. Your input is encouraged.

DB/cah  
Attachment

**CONCRETE STRUCTURES.**  
**(REV 1-23-12)**

SUBARTICLE 400-7.1.1 (Page 385) is deleted and the following substituted:

**400-7.1.1 Concreting in Cold Weather:** Do not place concrete when the *air* temperature ~~of the concrete~~ at placement is below 45°F.

Meet the air temperature requirements for mixing and placing concrete in cold weather as specified in Section 346. During the curing period, if NOAA predicts the ambient temperature to fall below 35°F for 12 hours or more or to fall below 30°F for more than 4 hours, enclose the structure in such a way that the ~~concrete and~~ *air temperature* within the enclosure can be kept above 65°F for a period of 3 days after placing the concrete or until the concrete reaches a minimum compressive strength of 1,500 psi.

Assume all risks connected with the placing and curing of concrete. Although the Engineer may give permission to place concrete, the Contractor is responsible for satisfactory results. If the placed concrete is determined to be unsatisfactory, remove, dispose of, and replace the concrete at no expense to the Department.