

## ORIGINATION FORM

**THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR**

Modify Specification \_\_\_\_\_400\_\_\_\_\_.  
Section/File number

New Section \_\_\_\_\_.  
Section number

**Subject:** Concrete Structures- Placing Concrete

**Origination date:** November 3, 2006

**Originator:** Tom Malerk  
**Office/Phone:** State Materials Office / 352-955-6620  
**Email address/** [tom.makerk@dot.state.fl.us](mailto:tom.makerk@dot.state.fl.us)  
**Userid:** rt820tm

**Problem statement:** Section 400 is modified to reduce restrictions to allow deviations concerning the use of materials in placing concrete and to clarify the use of "LOTS".

**Information source:** Michael Bergin, State Materials Office (352) 955-6666

**Background data:** The proposed changes will delete the use of the word "LOT" in association with the sampling and testing.

**Recommended Usage Note:** All contracts let after July 2007

**Estimated fiscal impact, if implemented:** None

**Implementation of these changes, if and when approved, will begin with the July 2007 letting.**



# Florida Department of Transportation

JEB BUSH  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.  
SECRETARY

## MEMORANDUM

**DATE:** November 20, 2006  
**TO:** Specification Review Distribution List  
**FROM:** Duane F. Brautigam, P.E., State Specifications Engineer  
**SUBJECT:** Proposed Specifications Change: 4000705-Concrete Structures

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

This change was proposed by Tom Malerk of the State Materials Office to delete the use of the word "LOT" in association with the sampling and testing.

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 SP965DB or duane.brautigam@dot.state.fl.us. Comments received after December 18, 2006 may not be considered. Your input is encouraged.

DFB/sh

Attachment

COMMENTS:

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Submitted by:

Phone #:

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**CONCRETE STRUCTURES.**  
**(REV 11-20-06)**

SUBARTICLE 400-7.5 (Pages 369 and 370) is deleted and the following substituted:

**400-7.5 General Requirements for Placing Concrete:** Do not place any concrete prior to approval of the Contractors quality control plan in accordance with 6-8. Deposit concrete as nearly as possible in its final position. Do not deposit large quantities at one point and then run or work it along the forms. Take special care to fill each part of the forms, to work coarse aggregate back from the face, and to force concrete under and around reinforcing bars without displacing them.

Use a method and manner of placing concrete that avoids the possibility of segregation or separation of aggregates. If the Engineer determines that the quality of concrete as it reaches its final position is unsatisfactory, remove it and discontinue or adjust the method of placing until the Engineer determines that the quality of the concrete as placed is satisfactory.

Use metal or metal-lined open troughs or chutes with no aluminum parts in contact with the concrete. *As an exception, chutes made of aluminum for Ready Mix concrete trucks, no longer than 20 feet, may be used. This exception does not apply to any other means of concrete conveyance.* Where steep slopes are required, use chutes that are equipped with baffles or are in short lengths that reverse the direction of movement. Where placing operations would involve dropping the concrete freely more than 5 feet, deposit it through pipes, troughs, or chutes of sheet metal or other approved material. Use troughs, chutes, or pipes with a combined length of more than 30 feet only with the Department's authorization. Keep all troughs, chutes, and pipes clean and free from coatings of hardened concrete by thoroughly flushing them with water after each run or more often if necessary.

Place all foundation concrete against supporting material that is moist at the time of concrete placement. If additional water is required, uniformly apply it ahead of the concrete placement as directed by the Engineer. Do not place concrete on supporting material that is frozen. The Contractor may use a moisture barrier in lieu of controlling the foundation grade moisture when approved by the Engineer.

SUBARTICLE 400-7.7 (Pages 370 and 371) is deleted and the following substituted:

**400-7.7 Placing Concrete by Pumping:** In general, use concrete pumping equipment that is suitable in kind and adequate in capacity for the work proposed. Use a pump discharge line that has a minimum diameter of 4 inches. Use a pump and discharge lines that are constructed so that no aluminum surfaces are in contact with the concrete being pumped. Operate the pump to produce a continuous stream of concrete, without air pockets. When using cement slurry or similar material to lubricate the discharge line when pumping begins, collect such material at the point of discharge. Dispose of the collected slurry in areas provided by the Contractor. Control the pump discharge locations so that the placement locations of the various *QC samples* lots of concrete represented by strength test cylinders can be identified in the event the test cylinders indicate deficient strength. When concrete is placed by pumping, take all test samples of concrete at the end of the discharge line, except in accordance with the provisions of Section 346.