



# Florida Department of Transportation

JEB BUSH  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.  
SECRETARY

November 1, 2006

Mr. Greg Williams  
Program Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: Office of Design, Specifications  
Section 446  
Proposed Specification: 4460301-Design Concrete Mix

Dear Mr. Williams:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Design Concrete Mix.

This change was proposed by Michael Bergin of the State Materials Office to replace the State Materials Office, as the party responsible for verification of the proposed mix design.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or [duane.brautigam@dot.state.fl.us](mailto:duane.brautigam@dot.state.fl.us).

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Duane F. Brautigam, P.E.  
State Specifications Engineer

DFB/sh

Attachment

cc: General Counsel  
Florida Transportation Builders' Assoc.  
State Construction Engineer

**CONCRETE DESIGN MIX.****(REV 10-16-06)**

SUBARTICLE 446-3.1 (Pages 438 and 439) is deleted and the following substituted:

**446-3.1 Concrete Design Mix:** Submit the proposed design mix prior to production, on the “Concrete Mix Design” form, for the Engineer’s approval. Use only draincrete design mixes having prior approval of the Engineer. Do not change the design mix component materials except as per 446-3.2.

Furnish sufficient material of each component to the Engineer, for verification of the proposed mix design by the ~~State Materials Office~~ *Department*. Meet the unit weight requirements as determined in accordance with FM 5-530, and the drain rate in accordance with FM 5-570. Also, provide one of the following with the design mix submittal:

(1) Evidence from three sets of production data, either from Department acceptance tests or independently verifiable commercial mixes, that draincrete produced in accordance with the proposed design mix meets the requirements of this Section.

(2) Test data from a single trial batch of 0.10 yd<sup>3</sup> [0.10 m<sup>3</sup>] minimum is required, which demonstrates that the draincrete produced using the proposed mix, designated ingredients, and designated water-cement ratio meets the requirements of this Section.

**CONCRETE DESIGN MIX.****(REV 10-16-06)**

SUBARTICLE 446-3.1 (Pages 438 and 439) is deleted and the following substituted:

**446-3.1 Concrete Design Mix:** Submit the proposed design mix prior to production, on the “Concrete Mix Design” form, for the Engineer’s approval. Use only draincrete design mixes having prior approval of the Engineer. Do not change the design mix component materials except as per 446-3.2.

Furnish sufficient material of each component to the Engineer, for verification of the proposed mix design by the Department. Meet the unit weight requirements as determined in accordance with FM 5-530, and the drain rate in accordance with FM 5-570. Also, provide one of the following with the design mix submittal:

(1) Evidence from three sets of production data, either from Department acceptance tests or independently verifiable commercial mixes, that draincrete produced in accordance with the proposed design mix meets the requirements of this Section.

(2) Test data from a single trial batch of 0.10 yd<sup>3</sup> [0.10 m<sup>3</sup>] minimum is required, which demonstrates that the draincrete produced using the proposed mix, designated ingredients, and designated water-cement ratio meets the requirements of this Section.