Florida Department of Transportation

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605 Suwannee Street
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JIM BOXOLD
SECRETARY

December 16, 2016

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section: **353**
Proposed Specification: **3531002 Concrete Pavement Slab Replacement.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Donnie Bagwell of the State Materials Office (SMO) to update the language.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to dan.hurtado@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Dan Hurtado, P.E.
State Specifications Engineer

DH/dt
Attachment
cc: Florida Transportation Builders' Assoc.
State Construction Engineer

CONCRETE PAVEMENT SLAB REPLACEMENT.
(REV 10-27-16)

SUBARTICLE 353-10.2 is deleted and the following substituted:

353-10.2 Maturity Method Testing: Use a maturity curve to estimate the strength of the concrete for opening to traffic for each day of production. Embed temperature sensors at mid-depth in the slab, at 6 inches from the leading edge of the transverse joint and at 6 inches from the longitudinal joint or at locations designated by the Engineer.

~~Provide~~Develop a strength-maturity relationship curve using the Arrhenius maturity function with an activation energy of 33,500 J/mol as outlined in FM 3-C1074, in a laboratory with personnel qualified to perform the method. Compressive strength tests, as specified in FM 3-C1074, will be performed to produce a five point curve with points before and after the anticipated time for opening to traffic. Submit the mix design supporting data and the maturity curve to the Engineer for his approval.

Any changes of a material source or proportion in the concrete mixture will require a new maturity curve.

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