Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

December 17, 2010

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section **353**
Proposed Specification: **3530200 Concrete Pavement Slab Replacement.**

Dear Ms. Gourdine:

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

These changes were proposed by Susan Blazo of the State Materials Office to delete reference to a specific class of concrete and to specify it is the contractor's option to use pozzolans and slag.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

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

RP/dt
Attachment
cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

CONCRETE PAVEMENT SLAB REPLACEMENT.
(REV ~~10~~*12*-~~19~~*18*-10)

ARTICLE 353-2 (Page 363) is deleted and the following substituted:

353-2 Materials.

~~**353-2.1 General:**~~ Meet the following requirements:

Portland Cement Concrete ~~(Class I Paving)*~~ .....Section 346
Coarse Aggregate.....Section 901
Fine Aggregate.....Section 902
Portland Cement.....Section 921
Water.....Section 923
Admixtures.....Section 924
Curing Materials .....Section 925
Epoxy Compounds.....Section 926
Pozzolans and Slags~~*~~.....Section 929*
Embedded Items.....Section 931
Calcium Chloride ..... AASHTO M-144, Type 1

~~* Concrete will meet the requirements of Section 346 (Class I Paving) with the changes described in this Section.~~

~~*~~**For concrete pavement slab replacement, the use of pozzolans and slag is optional.*

Concrete pavement containing only dowel bars will be considered non-reinforced concrete.

SUBARTICLE 353-3.1 (Page 363) is deleted and the following substituted:

353-3.1 Mixture Proportions: Designate the actual proportions to be used to produce a concrete with a minimum 6-hour compressive strength of 2,200 psi and a minimum 24-hour compressive strength of 3,000 ps*i*.

Prior to producing concrete, submit the design mix for approval on a form acceptable to the Department. Ensure the 24-hour acceptance strength has a minimum over design of 400 psi. Indicate slump before and after addition of accelerator. Use mixes approved by the Department and from an approved concrete production facility meeting the requirements of ~~Chapter 9.2 of the Materials Manual - Concrete Production Facilities Guidelines~~*Section 105*.

When an accelerating admixture is used in solution, the amount of water in the solution is considered to be part of the mixing water. Make necessary adjustment to the concrete mix-water to account for the amount of water in the accelerating admixture solution. Test the concrete for consistency subject to the following values from the approved mix design values:

Slump Tolerance** ..... ~~±~~*plus or minus* 1.5 ~~-~~inches
Entrained Air**.....1% to 6%
Temperature not to exceed 100~~-~~ºF

**For values as specified in the approved Design Mix prior to the addition of accelerating admixture.

CONCRETE PAVEMENT SLAB REPLACEMENT.
(REV 12-18-10)

ARTICLE 353-2 (Page 363) is deleted and the following substituted:

353-2 Materials.

Meet the following requirements:

Portland Cement Concrete	Section 346
Coarse Aggregate	Section 901
Fine Aggregate	Section 902
Portland Cement	Section 921
Water	Section 923
Admixtures	Section 924
Curing Materials	Section 925
Epoxy Compounds	Section 926
Pozzolans and Slags*	Section 929
Embedded Items	Section 931
Calcium Chloride	AASHTO M-144, Type 1

*For concrete pavement slab replacement, the use of pozzolans and slag is optional.

Concrete pavement containing only dowel bars will be considered non-reinforced concrete.

SUBARTICLE 353-3.1 (Page 363) is deleted and the following substituted:

353-3.1 Mixture Proportions: Designate the actual proportions to be used to produce a concrete with a minimum 6-hour compressive strength of 2,200 psi and a minimum 24-hour compressive strength of 3,000 psi.

Prior to producing concrete, submit the design mix for approval on a form acceptable to the Department. Ensure the 24-hour acceptance strength has a minimum over design of 400 psi. Indicate slump before and after addition of accelerator. Use mixes approved by the Department and from an approved concrete production facility meeting the requirements of Section 105.

When an accelerating admixture is used in solution, the amount of water in the solution is considered to be part of the mixing water. Make necessary adjustment to the concrete mix-water to account for the amount of water in the accelerating admixture solution. Test the concrete for consistency subject to the following values from the approved mix design values:

Slump Tolerance**	plus or minus 1.5 inches
Entrained Air**	1% to 6%

Temperature not to exceed 100ºF

**For values as specified in the approved Design Mix prior to the addition of accelerating admixture.