



*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.  
SECRETARY

December 4, 2014

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office  
Section **346**  
Proposed Specification: **3460902SL Portland Cement Concrete - Acceptance  
Sampling and Testing.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Special Provision.

This is an administrative change to include 346-9.2 in the SP as well revisions made to Section 346 that were not included in the Streamline language.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us).

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

Sincerely,

Signature on file

Daniel Scheer, P.E.  
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

All Contracts less than \$2,000,000 and less than 2,000 tons of asphalt - Streamline.  
For Bridge repair/rehab projects, contact the DCE prior to use.

**PORTLAND CEMENT CONCRETE – ACCEPTANCE SAMPLING FREQUENCY.**

(REV ~~6-25-10~~~~10-8-14~~)(~~FA 7-8-10~~)(~~1-15~~)

SUBARTICLE 346-9.2 is deleted and the following substituted:

**346-9.2 Sampling Frequency ~~for Quality Control Tests:~~**

As a minimum, sample and test concrete of each design mix for water to cementitious materials ratio, air content, temperature, slump and compressive strength once per LOT as defined by Table 8. *When a mix design is used for a different application, the LOT is defined by the application.* When more than one concrete production facility is used for the same mix design, describe the method of sampling, testing and LOT numbering in the QC Plan. The Engineer will randomly verify one of every eight consecutive LOTs of each design mix based on a random number generator, ~~and may perform additional Independent Verification tests.~~ *The Department may perform Independent Verification testing to verify compliance with specification requirements.* All QC activities, calculations, and inspections will be randomly confirmed by the Department.

TABLE 8	
Class Concrete*	Maximum LOT Size
I	one day's production
I (Pavement)	<del>250 lane ft</del> <i>2000 square yards</i> , or one day's production, whichever is less
II, II (Bridge Deck), III, IV, V (Special), V, VI	50 <i>cubic yards</i> <sup>3</sup> , or one day's production, whichever is less
IV (Drilled Shaft)	50 <i>cubic yards</i> <sup>3</sup> , or two hours between <i>the end of one</i> placements, <i>and the start of the next placement</i> , whichever is less
III (Seal)	Each Seal placement
<i>*For any class of concrete used for roadway barrier wall, the lot size is defined as 100 cubic yards, or one day's production, whichever is less.</i>	

**346-9.2.1 Reduced Frequency for Acceptance Tests:** *The LOT size may represent 100 cubic yards when produced at the same mix design at the same concrete production facility for the same prime contractor and subcontractor on a given Contract. Submit test results indicating the average compressive strength is greater than two standard deviations above the specified minimum strength for that class of concrete. Base calculations on a minimum of ten consecutive strength test results for a Class IV or higher; or a minimum of five consecutive strength results for a Class III or lower.*

*The average of the consecutive compressive strength test results, based on the class of concrete, can be established using historical data from a previous Department project. The tests from the previous Department project must be within the last 60 calendar days or may also be established by a succession of samples on the current project. Only one sample*

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*can be taken from each LOT. Test data must be from a laboratory meeting the requirements of  
Section 105. Obtain Department approval before beginning reduced frequency LOT's.*

*If at any time a strength test is not verified or the average strength of the  
previous ten or five consecutive samples based on the class of concrete from the same mix design  
and the same production facility is less than the specified minimum plus two standard deviations,  
return to the maximum production quantity represented by the LOT as defined in Table 8. Notify  
the Engineer that the maximum production rate is reinstated. In order to reinitiate reduced  
frequency, submit a new set of strength test results.*

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**PORTLAND CEMENT CONCRETE – ACCEPTANCE SAMPLING FREQUENCY.  
(REV 10-8-14)**

SUBARTICLE 346-9.2 is deleted and the following substituted:

**346-9.2 Sampling Frequency:**

As a minimum, sample and test concrete of each design mix for water to cementitious materials ratio, air content, temperature, slump and compressive strength once per LOT as defined by Table 8. When a mix design is used for a different application, the LOT is defined by the application. When more than one concrete production facility is used for the same mix design, describe the method of sampling, testing and LOT numbering in the QC Plan. The Engineer will randomly verify one of every eight consecutive LOTs of each design mix based on a random number generator. The Department may perform Independent Verification testing to verify compliance with specification requirements. All QC activities, calculations, and inspections will be randomly confirmed by the Department.

TABLE 8	
Class Concrete*	LOT Size
I	one day's production
I (Pavement)	2000 square yards, or one day's production, whichever is less
II, II (Bridge Deck), III, IV, V (Special), V, VI	50 cubic yards, or one day's production, whichever is less
IV (Drilled Shaft)	50 cubic yards, or two hours between the end of one placement, and the start of the next placement, whichever is less
III (Seal)	Each Seal placement
*For any class of concrete used for roadway barrier wall, the lot size is defined as 100 cubic yards, or one day's production, whichever is less.	

**346-9.2.1 Reduced Frequency for Acceptance Tests:** The LOT size may represent 100 cubic yards when produced at the same mix design at the same concrete production facility for the same prime contractor and subcontractor on a given Contract. Submit test results indicating the average compressive strength is greater than two standard deviations above the specified minimum strength for that class of concrete. Base calculations on a minimum of ten consecutive strength test results for a Class IV or higher; or a minimum of five consecutive strength results for a Class III or lower.

The average of the consecutive compressive strength test results, based on the class of concrete, can be established using historical data from a previous Department project. The tests from the previous Department project must be within the last 60 calendar days or may also be established by a succession of samples on the current project. Only one sample can be taken from each LOT. Test data must be from a laboratory meeting the requirements of Section 105. Obtain Department approval before beginning reduced frequency LOT's.

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If at any time a strength test is not verified or the average strength of the previous ten or five consecutive samples based on the class of concrete from the same mix design and the same production facility is less than the specified minimum plus two standard deviations, return to the maximum production quantity represented by the LOT as defined in Table 8. Notify the Engineer that the maximum production rate is reinstated. In order to reinstate reduced frequency, submit a new set of strength test results.