Section 716  QMP Ancillary Concrete

716.1 Description

(1) This section describes contractor mix selection and testing requirements for class II and class III concrete.

716.1.1 Quality Control Program

716.1.1.1 General

(1) Conform to the general requirements under 701 and 710 as modified here in 716 for class II and class III concrete defined as follows:
   - Class II: ancillary concrete the department accepts based on field testing during placement.
   - Class III: ancillary concrete the department accepts by certification.

716.1.1.2 Quality Control Plan

(1) The contractor need only submit an abbreviated quality control plan as defined in 701.1.2.3.

716.2 Materials

716.2.1 Class II Concrete

(1) Determine mixes for class II concrete used under the contract according to 501. If a grade A mix is allowed under standard spec 501.3.1.3, the contractor may use a class I mix design approved under 715.2. Ancillary concrete placed integrally with mainline pavement is accepted using tests of class I concrete but not eligible for incentive payment under 715.5. Document the locations and quantities of integral concrete and identify the class I sublot tests used for acceptance.

Revised 716.2.1(2) to require air and slump testing every 100 CY and cylinders every 200 CY for base patching.

(2) Perform random QC testing at the following frequencies:
   1. Test air content and slump a minimum of once per 100 cubic yards for each mix grade and placement method.
   2. Cast one set of 2 cylinders per 200 cubic yards for each mix grade and placement method. Cast a minimum of one set of 2 cylinders per contract for each mix grade and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.
   3. For deck overlays, perform tests and cast cylinders once per 50 cubic yards of grade E concrete placed.
   4. For concrete base, one set of tests and one set of cylinders per 250 cubic yards.

(3) Conform to the initial curing requirements under 710.5.5 except the contractor may extend initial curing for 72 hours before transporting the cylinders to a department-qualified laboratory.

(4) Test aggregate gradations, including P200, as specified in 710.5.6 at the frequency listed below which results in the least number of tests:
   - A maximum of one test per day.
   - A minimum of one test per 400 cubic yards of cumulative concrete placed.

Alternatively the engineer may accept aggregate based on documented previous testing.

(5) Department verification testing is optional for aggregate used in class II concrete.

716.2.2 Class III Concrete

(1) Acceptance of class III concrete is based on a certificate of compliance. Submit the certificate of compliance at least 3 business days before producing concrete along with the initial concrete mix documentation as required under 710.4(2).

(2) Contractor testing for the mix and mix aggregates is not required for the items contained within the certificate of compliance. Conform to 716.2.1 for items not contained within the certificate of compliance.

(3) Department verification testing is optional for class III concrete. Correct any deficiencies found during the QV testing.

716.3 (Vacant)

716.4 (Vacant)

716.5 (Vacant)