

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 subplot tests used for acceptance.

Revise 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)