

UDOT Minimum Sampling and Testing Requirements

Specification - Material: 03055 Portland Cement Concrete

Assurance: Sieve Analysis

Reference: AASHTO T 27 / T 11

Lot Size: Weekly production

Frequency per Lot: One test per stockpile during any week concrete is being provided to a UDOT project

Point of Acceptance: Supplier Stockpile

Sampling Reference: AASHTO T 2

Report/Form:

Assurance: Slump, Air Content, and Concrete Temperature

Reference: AASHTO T 119, AASHTO T 152, AASHTO T 309

Lot Size: Production Day

Frequency per Lot: For each mix design test until two consecutive batches meet specification at beginning of placement, after shutdowns of 1 hour or more, and after each failed batch, Randomly thereafter for each 50 cubic yard minimum. If the first determination fails, immediately retest. If the second test meets specification, immediately retest. Batch is rejected on two failed determinations.

Point of Acceptance: Point of Placement

Sampling Reference: WAQTC TM 2

Report/Form:

Assurance: Compressive Strength Test

Reference: Cast in accordance with AASHTO T 23 Tested in accordance with AASHTO T 22. One compressive strength test consists of a set of three cylinders.

Lot Size: Production Day

Frequency per Lot: One determination for each 50 cubic yards or fraction thereof for each mix design. Visual acceptance and laboratory testing is done at Engineers discretion for daily quantities between 4 cubic yards and less than 8 cubic yards.

Point of Acceptance: Point of Placement

Sampling Reference: WAQTC TM 2

Report/Form: Materials Database

Assurance: Visual Acceptance of very small quantities of material

Reference: Acceptance is limited to materials being furnished from sources found satisfactory under normal sampling and testing procedures.

Lot Size: Not to exceed 4 cubic yards per day and not to exceed 50 cubic yards of total continuous visual acceptance quantities.

Frequency per Lot: One report for each day material is accepted.

Point of Acceptance: Point of Placement

Sampling Reference:

Report/Form:

Assurance: Visual Acceptance of Class B and B(AE) Concrete

Reference: As directed by Engineer

Lot Size: Daily placement

Frequency per Lot: One report for each day material is accepted

Point of Acceptance: Point of Placement

Sampling Reference:

Report/Form:

Assurance: Verification of cementitious blends in volumetric truck bins

Reference: Materials Manual of Instruction Section 978

Lot Size: Daily placement

Frequency per Lot: One test from the truck bin at the yard after blend is added. One test from the bin at point of placement

Point of Acceptance: Point of Placement

Sampling Reference: Materials Manual of Instruction Section 978

Report/Form:
