

Sampling and Testing Frequency Table
for projects OFF the SHS

Sample for Local Agency QAPs

Sampling and Testing Frequency Table
for projects OFF the SHS.

HOT MIX ASPHALT (HMA) / ASPHALT CONCRETE (AC)

| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
|---|---|---|-----------------------------------|
| Aggregate Gradation (Sieve) | CT 202 | 1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day. | At Plant Per CT 125 (a) |
| Sand Equivalent | CT 217 | | Loose Mix Behind Paver Per CT 125 |
| Asphalt Binder Content | CT 382 | | |
| In-Place Density and Relative Compaction (Nuclear) | Nuclear (b) CT 375 or ASTM D2950 (c) | 1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day. (b) | Random Locations Per CT 375 (c) |
| Theoretical Maximum Specific Gravity and Density (Rice) | CT 309 | 1 Per Day During Production/Placement of At Least 300 Tons Per Day | Loose Mix Behind Paver Per CT 125 |
| HMA Moisture Content | CT 226 or CT 370 | | |
| Stabilometer Value (d) | CT 366 | | |
| Asphalt Binder | Sample per Section 92 | Sample 1 min. per day for production over 300 tons per day; See (f) regarding testing. | At Plant Per CT 125 |
| Smoothness | 12-foot Straightedge | As necessary to confirm contract compliance. | Final Pavement Surface |

- (a) Exact tonnage of sample location to be determined by Random Sampling Plans
- (b) Compaction determined by Nuclear Density Device. Core testing required if compaction fails the nuclear test
- (c) Correlation between core densities and nuclear device required only if compaction fails the nuclear test
- (d) Report the average of 3 tested briquettes from a single split source
- (e) Use CT 309 to determine maximum theoretical density in lieu of CT 367 calculated maximum theoretical density
- (f) No testing required unless warranted by concern ; sample and store until completion of project

SUBGRADE (DISTURBED BASEMENT SOIL) OR EMBANKMENT

| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
|---|---------------|--|---|
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test per 5000 sq ft under vehicle traveled way and shoulder 1 Min. Test Per 300 linear foot under sidewalk | Random locations as determined by the Engineer in place after compaction. |

AGGREGATE BASES AND SUBBASES, IMPORTED BORROW

| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
|---|---------------|--|---|
| Sieve Analysis | CT 202 | 1 Min. Test Per Material Source | Sample from site stockpile/plant prior to placement. |
| R-Value | CT 301 | | |
| Sand Equivalent | CT 217 | | |
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test per 5000 sq ft | Random locations as determined by the Engineer in place after compaction. |

STRUCTURE BACKFILL, SELECT BACKFILL

| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
|---|---------------|---|---|
| Sieve Analysis | CT 202 | 1 Min. Test Per Material Source | Sample from site stockpile/plant prior to placement |
| R-Value | CT 301 | | |
| Sand Equivalent | CT 217 | | |
| Maximum Density and Relative Compaction | CT 216/CT 231 | 1 Min. Test Per 2 Vertical Lifts of Placement | Random locations as determined by the Engineer in place after compaction. |

PORTLAND CEMENT CONCRETE (PCC) - STRUCTURAL AND SIGNAL/LIGHTING FOUNDATIONS

| COARSE AGGREGATE | | | |
|-------------------------|-------------|--|---|
| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
| Sieve Analysis | CT 202 | 1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck. | Sample from site stockpile/plant prior to placement |
| Cleanness Value | CT 227 | | |

| FINE AGGREGATE | | | |
|------------------------|-------------|--|---|
| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
| Sieve Analysis | CT 202 | 1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck. | Sample from site stockpile/plant prior to placement |
| Sand Equivalent | CT 217 | | |

| WET MIX | | | |
|------------------------|-------------|---|-----------------------------|
| Quality Characteristic | Test Method | Minimum Sampling and Testing Frequency | Location/Time of Sampling |
| Slump/Penetration | CT 533 | 2 per day | Sample from truck/work site |
| Cylinders | CT 539/540 | 1 min. set of 3 per day; If bridge, 1 min. set per separate pour of abutment/pier/deck. | |