

SECTION 153 CONTRACTOR QUALITY CONTROL

153.02 **CONTRACTOR QUALITY CONTROL PLAN** – Delete and revise the paragraph to read as follows:

Before the start of the work, the contractor is to submit a written quality control plan for approval by the Contracting Officer. Quality Control Plan is to include all items of work not immediately schedule to begin.

(a) Process Control Testing. Delete and revise the item to read as follows:

List the material to be tested, type of test required as specified for the material item, location of sampling, and the frequency of testing as specified for that material item.

(b) Inspection/Control Procedures. Add the following sentence to the paragraph to read as follows:

Contractor is responsible to maintain quality control over suppliers, manufacturer's products, services, site conditions, and workmanship to produce the work of specified quality.

(c) Description of Records. Add the following sentence to the paragraph to read as follows:

Identify the format for reporting test results and the procedures to be used to maintain the inspection record.

(d) Personnel Qualification. Add the following sentence to the paragraph to read as follows:

Contractor to obtain approval from the Contracting officer for the testing laboratory, their personnel and their qualifications, responsible for all inspection and testing services.

153.03 **TESTING** – Add the following to paragraphs to this Subsection as follows:

Whether on-site or off-site, the services of the laboratory facility approved to perform the material testing are at the expense of the Contractor.

Reference for the standard method for testing shall be the "American Association of State Highway and Transportation Officials" (AASHTO) and the "American Society for Testing and Materials (ASTM) unless noted otherwise. The test methods listed below, but not limited to, are some of the material test standards, and shall be used by the Contractor to determine the quality or acceptability of the materials to be used on this project.

The Contractor is responsible for retesting and re-inspection where results prove unsatisfactory and do not comply with the contract documents. Cost of retesting and re-

inspection are at the expense of the Contractor.

References are indicated in ASSHTO Standards with equivalent ASTM Standard in parenthesis:

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| ASSHTO M20 | Penetration Graded Asphalt Cement |
| ASSHTO M140 | Emulsified Asphalt |
| ASSHTO R12 | Bituminous Mixture Design Using the Marshall and Hveem Procedures |
| ASSHTO T11 | Material Finer than No. 200 sieve in Mineral Aggregates by Washing |
| ASSHTO T22 (ASTM C39) | Compressive Strength of Cylindrical Concrete Specimens |
| ASSHTO T23 (ASTM C31) | Making and Curing Concrete Test Specimens in the Field |
| ASSHTO T27 (ASTM C136) | Sieve Analysis of Fine and Coarse Aggregates |
| ASSHTO T30 | Mechanical Analysis of Extracted Aggregates |
| ASSHTO T84 (ASTM C128) | Specific Gravity and Absorption of Fine Aggregates |
| AASHTO T85 (ASTM C127) | Specific Gravity and Absorption of Coarse Aggregates |
| ASSHTO T89 | Determining the Liquid Limits of Soils |
| ASSHTO T90 | Determining the Plastic Limit and Plasticity Index of Soils |
| ASSHTO T96 | Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine |
| ASSHTO T102 | Spot Test of Asphaltic Materials |
| ASSHTO T119 (ASTM C143) | Slump of Hydraulic Cement Concrete |
| ASSHTO T121 (ASTM C138) | Mass per Cubic Foot, Yield and Air Content of Concrete |
| ASSHTO T146 | Wet Preparation of Disturbed Soil Samples for Test |
| ASSHTO T164 (ASTM D2172) | Quantitative Extraction of Bitumen from Bituminous Paving Mixtures |

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| ASSHTO T180 | Moisture Density Relation of Soils Using a 10-lb Rammer and an 18-inch Drop |
| ASSHTO T190 (ASTM D2844) | Resistance R-Value and Expansion Pressure of Compacted Soils |
| ASSHTO T191 (ASTM D1556) | Density of Soil In-Place by the Sand Cone Method |
| ASSHTO T193 | The California Bearing Ratio |
| ASSHTO T201 (ASTM D2170) | Kinetic Viscosity of Asphalts (Bitumen) |
| ASSHTO T238 (ASTM D2922) | Density of Soils and Soil Aggregate In-Place by Nuclear Methods (Shallow Depth) |
| ASSHTO T239 (ASTM D3017) | Moisture Content of Soil and Soil Aggregate In-Place by Nuclear Methods (Shallow Depth) |
| ASSHTO T245 | Resistance to Plastic Flow of Bituminous Mixture Using Marshall Apparatus |

Use of any of other test method or procedures not indicated in the plans, or specifications is not acceptable. All other test methods or procedures concerning characteristics or qualities not subject to testing by these methods remain unchanged.

153.04 **RECORDS** – Add the following after the first paragraph:

Furnish all test results within a reasonable amount of time and transmit the results to the Contracting Officer. When tests are on material being incorporated into the work, submit the results within 24 hours to the Contracting Officer.

Add the following to the second paragraph:

Include also a detailed description of the type of inspection performed indicating any deficiencies observed and the corrected actions taken.

153.06 **MEASUREMENT AND PAYMENT** - Delete and revise the paragraph to read as follows:

The Contractor's Quality Control Plan, system, and testing will not be measured separately for payment. It is considered as a subsidiary obligation of the Contractor under the other pay item listed in the Bid Schedule.

END OF SECTION 153