

Section 01454

TESTING LABORATORY SERVICES

PART 1 GENERAL

1.1 SECTION INCLUDES

1. Testing laboratory services and responsibilities related to those services.

1.2 REFERENCES

1. ASTM C 1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation.
2. ASTM D 3666 - Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials.
3. ASTM D 3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
4. ASTM E 329 - Standard Specification for Minimum Requirements for Agencies Engaged the Testing and/or Inspection of Materials Used in Construction.
5. ISO/IEC 17025 - General Requirements for the Competence of Calibration and Testing Laboratories.

1.3 SELECTION AND PAYMENT

1. The City will select, employ, and pay for services of independent testing laboratory to perform inspection and testing identified in Part 3 of individual Specification sections.
 2. Employ and pay for services of independent testing laboratory or laboratories to perform inspection and testing identified in Part 2 of individual Specification sections.
 3. Employment of testing laboratory by the City does not relieve the Contractor of obligation to perform the Work in accordance with requirements of Contract Documents.
 4. City deducts minimum 2-hour charge for testing laboratory time from periodic progress payment when operations requiring testing or inspection are canceled without prior notification.
 5. City deducts cost of retesting from periodic progress payment whenever failed work is removed, replaced and retested.
- F. City Engineer schedules and monitors testing. Provide 24 hours notice of testing to City Engineer to avoid delay of the Work.

1.4 QUALIFICATION OF LABORATORY

1. Meet laboratory requirements of ASTM E 329 and applicable requirements of ASTM C 1077, ASTM D 3666 and ASTM D 3740.
2. Meet ISO/IEC 17025 conditions for accreditation by the American Association for Laboratory Accreditation (A2LA) in specific fields of testing required in individual Specification sections.
3. If laboratory subcontracts are part of testing services, such work will be placed with laboratory complying with requirements of this Section.

1.5 LABORATORY REPORTS

1. Testing laboratory provides and distributes copies of laboratory reports to distribution list provided by City Engineer at preconstruction conference.
2. Keep one copy of each laboratory report distributed or faxed at site field office for duration of project.
3. Laboratory will fax material supplier, Contractor and City Engineer no later than close of business on working day following test completion and review, reports which indicate failing test results.

1.6 LIMITS ON TESTING LABORATORY AUTHORITY

1. Laboratory may not release, revoke, alter, or enlarge requirements of Contract.
2. Laboratory may not approve or accept any portion of the Work.
3. Laboratory may not assume duties of Contractor.
4. Laboratory has no authority to stop the Work.

1.7 CONTRACTOR RESPONSIBILITIES

1. Provide safe access to the Work and to manufacturer=s facilities for City Engineer and for testing laboratory personnel.
2. Provide testing laboratory with copy of construction schedule and copy of each update to construction schedule.
3. Notify City Engineer and testing laboratory during normal working hours of day previous to expected time for operations requiring inspection and testing services. When Contractor fails to make timely prior notification, then do not proceed with operations requiring inspection and testing services.

4. Notify Design Consultant 24 hours in advance when Specification requires presence of Design Consultant for sampling or testing.
 5. Request and monitor testing as required to provide timely results and avoid delay to the Work. Provide samples to laboratory in sufficient time to allow required test to be performed in accordance with specified test methods before intended use of material.
 6. Cooperate with laboratory personnel in collecting samples on site. Provide incidental labor and facilities for safe access to the Work to be tested; to obtain and handle samples at site or at source of products to be tested; and to facilitate tests and inspections including storage and curing of test samples.
- G. Arrange with laboratory through City Engineer. Payment for additional testing will be made in accordance with Document 00700 - General Conditions:
1. Retesting required for failed tests
 2. Retesting for nonconforming Work
 3. Additional sampling and tests requested beyond specified requirements
 4. Insufficient notification of cancellation of tests for Work scheduled but not performed

PART 2 P R O D U C T S - Not Used

PART 3 E X E C U T I O N

1.8 CONDUCTING TESTING

1. Conform laboratory sampling and testing specified in individual Specification sections to latest issues of ASTM standards, TxDOT methods, or other recognized test standards as approved by City Engineer.
2. Requirements of this section also apply to those tests for approval of materials, for mix designs and for quality control of materials as performed by employed testing laboratories.

END OF SECTION