

SECTION 01410

PRODUCT AND MATERIAL TESTING

PART 1 GENERAL

1.1 REFERENCES

- A. ANSI/ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- B. ANSI/ASTM E329 - Standard Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.

1.2 SELECTION

- A. Contractor shall employ and pay for services of an independent testing laboratory to perform specified inspection and testing where required by the WSD.
- B. Employment of testing laboratory shall in no way relieve Contractor of obligation to perform Work in accordance with this document.

1.3 QUALITY ASSURANCE

- A. Comply with requirements of ANSI/ASTM E329 and ANSI/ASTM D3740.
- B. Laboratory shall maintain a full-time registered Engineer on staff to review services.
- C. Laboratory shall be authorized to operate in the State of Tennessee.
- D. Testing equipment shall be calibrated at reasonable intervals with devices of an accuracy traceable to either NBS Standards or accepted values of natural physical constants.

1.4 CONTRACTOR SUBMITTALS

- A. Prior to start of Work, submit testing laboratory name, address, and telephone number, and names of full-time registered Engineer and responsible officer.
- B. Submit copy of report of laboratory facilities inspection made by Materials Reference Laboratory of National Bureau of Standards during most recent

tour of inspection, with memorandum of remedies of any deficiencies reported by the inspection.

1.5 LABORATORY RESPONSIBILITIES

- A. Test samples of mixes submitted by Contractor.
- B. Provide qualified personnel at site after due notice; cooperate with the WSD and Contractor in performance of services.
- C. Perform specified inspection, sampling, and testing of products in accordance with standards specified by the WSD.
- D. Ascertain compliance of materials and mixes with requirements of Contract Documents.
- E. Promptly notify the WSD and Contractor of observed irregularities or non-conformance of Work or products.
- F. Perform additional inspections and tests required by Architect/Engineer.
- G. Attend preconstruction conferences and pertinent progress meetings.

1.6 LABORATORY REPORTS

- A. After each inspection and test, promptly submit two copies of laboratory report to the WSD and to Contractor. Include: Date issued, Project title and number, name of inspector, date and time of sampling or inspection, identification of product, location in the Project, type of inspection or test, date of test, results of tests. When requested by the WSD, provide interpretation of test results.

1.7 LIMITS ON TESTING LABORATORY AUTHORITY

- A. Laboratory may not approve or accept any portion of the Work.
- B. Laboratory may not assume any duties of Contractor.
- C. Laboratory has no authority to stop Work.

1.8 CONTRACTOR RESPONSIBILITIES

- A. Deliver to laboratory at designated location adequate samples of materials proposed to be used which require testing, together with proposed mix designs.

- B. Cooperate with laboratory personnel, and provide access to Work and to manufacturer's facilities, as applicable.
- C. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
- D. Notify WSD and laboratory 24 hours prior to expected time for operations requiring inspection and testing services.

END OF SECTION 01410 – PRODUCT AND MATERIAL TESTING