

SECTION 1004

TESTING LABORATORY SERVICES

PART 1: GENERAL

- 1.1 The Contractor shall be responsible for providing materials which meet the requirements indicated. For manufactured materials such as reinforcing steel, expansion joint materials, concrete pipe, cement, miscellaneous steel, cast iron materials, etc., the Contractor will be required to furnish a manufacturer's certificate that the material meets the requirements specified for this project.
- 1.2 The Engineer shall monitor all materials incorporated into the project and their placement by testing at the Contractor's expense. The Engineer does not guarantee the accuracy or validity of the data nor does the Project Engineer or Owner assume any responsibility for the Contractor's interpretation of the data. Materials or work which do not meet the specifications shall be removed or modified.
- 1.3 All retesting for work rejected on the basis of the initial test results will be at the expense of the Contractor and the extent of the retesting shall be determined by the Engineer. The Engineer may require additional testing for failing tests and may required two passing retests. Acceptance will be made by the Engineer.
- 1.4 The testing laboratory will be approved by the Engineer and shall perform all work in a professional manner.

PART 2: LABORATORY DUTIES AND LIMITS OF AUTHORITY

- 2.1 Cooperate with Engineer and Contractor: provide qualified personnel as required promptly on notice.
- 2.2 Acquaint Engineer's personnel with testing procedures and with all special conditions encountered at the site.
- 2.3 Perform specified inspections, sampling and testing of materials and construction methods:
 - A. Comply with specified standards, ASTM and other recognized authorities.
 - B. Ascertain compliance with contract requirements.
- 2.4 Promptly notify the Engineer of irregularities or deficiencies of work which are observed during performance of services.
- 2.5 Promptly submit 3 copies of reports of observations and tests to the Engineer including but not limited to:
 - A. Date issued
 - B. Project title and number
 - C. Testing laboratory name and address
 - D. Name and signature of technician

- E. Date of sampling
 - F. Record of temperature and weather
 - G. Date of test
 - H. Identification of product and specification section
 - I. Location of product
 - J. Type of test
 - K. Observations regarding compliance with contract documents
- 2.6 Perform additional services ordered by the Engineer.
- 2.7 Laboratory is not authorized to:
- A. Release, revoke, alter or enlarge on contract requirements.
 - B. Approve or accept any portion of work.
 - C. Perform any duties of the Contractor.

PART 3: CONTRACTOR'S RESPONSIBILITIES

- 3.1 Furnish product concrete mix design together with the applicable design work sheets and data to meet or exceed contract requirements.
- 3.2 Cooperate with laboratory personnel, provide access to the work or to the manufacturer's operations.
- 3.3 Provide to laboratory preliminary representative samples of materials to be tested in specified quantities.
- 3.4 Furnish copies of mil test reports.
- 3.5 Furnish verification of compliance with contract requirements for materials and equipment.
- 3.6 Furnish casual labor and facilities:
- A. To provide access to work to be tested
 - B. To obtain and handle samples at site
 - C. To facilitate inspections and tests
 - D. For laboratory's exclusive use for storage and curing of test samples.
- 3.7 Notify Engineer 24 hours in advance of operations to allow for the assignment of personnel.

- 3.8 Notify laboratory 24 hours in advance of operations to allow for the assignment of personnel.
- 3.9 Correct work which is defective or which fails to conform to the contract documents. Corrective work shall not delay the project or the work of other Contractors.
- 3.10 Pay all costs of retesting when test results indicate non-compliance with contract requirements.
- 3.11 Patch all surfaces and areas disturbed by testing operations.