

SECTION 01400
QUALITY CONTROL

1.1 GENERAL

- A. The Contractor is the primary party responsible for quality control of all construction to ensure that the Work is in complete conformance with the Contract Documents.
- B. The Contractor shall establish a quality control program and shall implement and report specific quality control requirements described in the Specifications. Key elements of this program are the quality control organization, the Earthwork Management Plan, and the Plant Installation Staging Plan.
- C. The quality control organization for construction shall include preliminary pre-planned checklists to be used to verify acceptable construction and an organizational chart indicating the applicable project management, site supervision and inspection personnel. This chart shall indicate how these personnel interface. The Contractor shall also provide resumes of all key staff proposed for the project.
- D. The Contractor's attention is directed to MDOT, 1.05.06, which requires the presence of a competent superintendent or a foreman on the project at all times.
- E. At the pre-construction meeting the Contractor shall review with the project manager and Wetland Consultant the previously submitted Plant Installation Staging Plan. An organizational chart indicating the applicable project management, site supervision and inspection organization shall also be submitted. This chart shall indicate how these personnel interface. The Contractor shall also provide resumes of all key personnel proposed for the project.

1.2 CONTRACTOR'S TESTING AGENCY RESPONSIBILITIES (INDEPENDENT TESTING COMPANY)

- A. The Contractor shall employ and pay the cost of independent inspection and testing agency to provide the quality control requirements specified in the technical section of the Specifications, such as subgrade approval, soil material testing, soil compaction testing, concrete material testing, etc.
- B. All material must be tested and approved in accordance with MDOT, 1.06.05.
- C. Work will be checked by representatives of the testing agency as it progresses, but failure to detect any defective work or product will not in any way prevent later rejection when such defect is discovered, nor will it obligate the Owner to final acceptance.

D. Materials Acceptance

The basis of acceptance for the following materials listed in the current MDOT Sampling Guide will be modified from certification or V.I. to testing.

<u>Specification Section</u>	<u>Material</u>
902.03, .04 & .05	Coarse Aggregate
902.09, .10 & .11	Fine Aggregate
902.05	Dense Graded Aggregate
902.08	Granular Material Class I or Grade "B"
902.08	Class II Subbase or Porous "A"
902.08	Class II Abutment B.F. or Porous "A"
902.08	Class III or Porous "D"
905.03	Bar Reinforcement
905.03C	Epoxy-Coated Bar Reinforcement (Epoxy Coating Certification is required)
905.06	Fabric Reinforcement
909.04A & B	Reinforced Concrete Pipe
909.04C	Non-Reinforced Concrete Sewer Pipe
909.04E	Precast Concrete End Sections
913.06	Precast Reinforced Concrete Units for Drainage Structures
913.07	Precast Concrete Bases, Sumps and Handholes
914.03	Fiber Joint Filler
914.09	End-of-Pour Joint Devices A. Hook Bolts B. Deformed Bars

Certifications for the above-listed materials may be required as directed by the Project Manager.

1.3 CONTRACTOR RESPONSIBILITIES

A. To facilitate the work of the testing agencies, the Contractor shall:

1. Provide facilities for access to the work at all times for representatives of each testing agency and the Wetland Designer so that the agency may properly perform its functions and the Wetland Designer may observe these functions.
2. Furnish such casual labor as is necessary to obtain and handle samples at the project site or at the source of the materials to be tested.

3. Advise Project Manager sufficiently in advance of operations to allow time for completion of pre-qualification tests and for the assignment of personnel.
 4. Provide and maintain for the sole use of the testing agency for concrete materials, adequate facilities for the safe storage and proper curing of concrete test cylinders for the first 24 hour period of curing at the site and thereof.
- B. Submit affidavits of testing laboratory certificates per the conditions of the Contract, for the particular products and portions of the work so specified in the respective sections of the Specifications.
1. Affidavits: When submittal of affidavits is called for in the Specifications section, such affidavits shall be a notarized statement from the manufacturer certifying that the product conforms to the requirements of the regulatory agency or reference standard, as applicable, named in the Specifications. Each affidavit shall be identified by name of project, Wetland Consultant's job number, name of product, and Specification section number-letter designation and title.
 2. Test Reports: When submittal of test reports is required by the Contractor, such reports shall be complete and factual, citing the methods used for obtaining characteristics, and values obtained, the parts of the Project involved, and similar pertinent data which indicates compliance or noncompliance with the Specifications. Each test report shall be identified by name of testing agency, name of Contractor, date of inspection or test, and Specification section number-letter designation and title, and exact location of test.

END OF SECTION 01400