

SECTION 01 45 00

CONTRACT QUALITY CONTROL

PART GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Quality control and assurance of products and workmanship.
- B. Manufacturer's instructions.
- C. Manufacturer's certificates and field services.

1.02 RELATED REQUIREMENTS

- A. Submittals: Submittal of manufacturer's instructions.

1.03 DESCRIPTION

- A. Maintain quality control and assurance over supervision, subcontractors, suppliers, manufacturers, products, services, workmanship, and site conditions to produce Work in accordance with Contract Documents.
- B. Contractor is required to submit a "Quality Control and Assurance Plan" for this project in writing for approval from the Engineer. QC/QA Plan is required to be submitted and approved prior to processing of the first Application for Payment.
- C. Contractor shall assign a person whose duties shall be quality control (QC/QA). The person assigned to this position shall submit his/her qualifications to the Engineer for acceptance.
- D. Quality Control Services: Tests, inspections, procedures and related actions during and after execution of the work to evaluate that actual products incorporated into the work and completed construction comply with Contract Documents.

1.04 WORKMANSHIP

- A. Comply with industry standards of the region except when more restrictive tolerances or specified requirements indicate more rigid standards or precise workmanship.
- B. Provide suitably qualified personnel to produce Work of specified quality.
- C. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration and cracking.
- D. Provide finishes to match approved samples.
- E. All items shall be installed in a workmanlike manner in accordance with the best recognized practice in the field concerned. Manufactured items shall be installed in strict accordance with manufacturer's printed directions, pre-functional checklist, specifications and/or recommendations for installation of highest quality. All working parts shall be properly adjusted after installation and left in perfect working order.

Unless otherwise indicated, items exposed to weather or subject to flooding or wetting shall be installed so as to shed and not hold water. Items shall in all cases be installed plumb and true and/or in proper relation to surrounding materials.

- F. Unless otherwise specifically specified, all items and parts thereof that are made of steel, iron or other ferrous metal that are not galvanized, plated, or otherwise specified to be factory finished, shall be cleaned and painted with one shop coat of the best quality rust inhibitive metallic primer. After installation, all exposed metal connections and abrasions shall be touched up with the same materials as the shop coat and left in good condition for final finishing.
- G. Maintain an Inspection Log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for Engineers and Project Manager to reference during normal working hours.

1.05 MANUFACTURER'S INSTRUCTIONS

- A. Require compliance with instructions in full detail, including each step in sequence.
- B. Should instructions conflict with Contract Documents, request clarification from Engineer before proceeding.

1.06 MANUFACTURER'S CERTIFICATES

- A. When required in individual Specifications section, submit manufacturer's certificate, in duplicate, certifying that products meet or exceed specified requirements, executed by responsible officer.

1.07 MANUFACTURER'S FIELD SERVICES

- A. When required in individual Specifications section, have manufacturer provide qualified representative to observe field conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment and test, adjust, and balance of equipment, as applicable, and make written report of observations and recommendations to the Engineer.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION