

SECTION 23 05 10  
HVAC-GENERAL

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The requirements of this Section shall apply to all sections of Division 23. All Division 1 sections shall apply to the Division 23 HVAC sections as applicable.

1.2 RELATED WORK

- A. Section 01 00 00, GENERAL REQUIREMENTS.
- B. Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- G. Section 23 05 11, COMMON WORK RESULTS FOR HVAC.
- H. Section 23 05 12, GENERAL MOTOR REQUIREMENTS FOR HVAC AND STEAM GENERATION EQUIPMENT
- I. Section 23 05 41, NOISE AND VIBRATION CONTROL FOR HVAC PIPING AND EQUIPMENT
- K. Section 23 09 23, DIRECT DIGITAL CONTROL SYSTEM FOR HVAC
- M. Section 23 22 13, STEAM AND CONDENSATE HEATING PIPING.

1.3 SUBMITTALS

- A. Submittals shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES and individual Plumbing sections as required.
- B. Contractor shall make all necessary field measurements and investigations to assure that the equipment and assemblies will meet contract requirements.
- C. Prior to developing shop drawings and coordination plans, the Contractor shall submit his drawings to all other trades for review.

1.4 REQUIREMENTS

- B. All drawings and portions of the drawings, floor plans, risers, details, schematics and specifications indicated shall apply and are to be considered for the HVAC scope of work. All other trades of work (Architectural, Structural, Hazardous Material Abatement, Plumbing, Electrical, Fire Protection) shall be used in the coordination and layout of the new HVAC work. The Contractor's failure to properly coordinate his work with the work of the other disciplines shall not be grounds for additional costs.
- C. Any discrepancy or conflict noted between or within the above referenced documents shall be brought to the attention of the Engineer, in writing, prior to submittal of bids in accordance with the Contract Documents for resolution.

- D. This Contractor shall carefully read the above mentioned documents and study the drawings of all trades. He shall be responsible for neglect to read, or attend to, any paragraph or items contained therein. Failure to bring any conflicts or discrepancies to the attention of the Engineer, in writing, prior to bid submittal shall not constitute grounds for extras and/or change orders. Costs resultant from this failure shall be borne by this Contractor.
- E. This section applies to all Division sections and all HVAC, Contract Drawings and Documents.

#### 1.5 WORK INCLUDED

- A. These specifications and accompanying drawings are intended to cover the furnishing by the Contractor of all labor, material and all equipment of every kind necessary for the complete installation of the various systems, and such other materials and equipment as hereinafter specified, and shall include, but not be limited to the following:
  - 1. Phasing of Work as required to meet Phasing sequence as indicated on Contract Documents. Contractor shall coordinate phasing and work sequencing as per plans and VA Hospital requirements. Contractor shall insure HVAC services in later Phases of work are maintained during earlier phases of work through temporary connections, and re-routing as necessary.
  - 2. Demolition of existing HVAC systems including but not necessarily limited to piping, fittings, valves, supports, piping insulation, and HVAC equipment as shown on the drawings. Demolition shall include sealing and firestopping of existing floor/wall/ceiling penetrations where piping and equipment have been removed.
  - 3. All required coordination drawings of the HVAC piping systems, including all HVAC equipment shall be developed, and distributed to all Sub Contractor for review, and then submitted to the Architect/Engineer. Coordination drawings without sign-off from the other sub- contractors will be grounds for rejection.
  - 4. New condensate transfer pump to serve the project area to include, but not be limited to excavation, pump unit, piping, valves, fittings, hangers/supports, piping insulation, piping and valve identification, testing/startup, restoration of concrete slab and connections to existing facility piping. New condensate pump shall be furnished with the respective equipment and wired by the Electrical Contractor.
  - 5. Coordination with the VA on connections and modifications to existing HVAC infrastructure including steam, condensate, and building management controls. Connections or modifications to these existing systems shall only be performed upon approval by the VA and performed during the time periods permitted by the VA.
  - 6. Extension of existing HVAC Direct Digital Control system, including but not limited to control wiring, relays, transformers, sensors, transducers, contacts, master controllers, sub-controllers, programming, commissioning, testing, calibration and additional items as necessary to

permit status and alarm monitoring of the new pump.

7. All required piping and duct, piping and duct insulation, hangers and supports for new piping. Piping insulation shall include all new piping and those portions of existing piping where piping has been removed for connections to new work, or where asbestos containing materials have been removed.
8. All required firestopping of wall and floor penetrations per the Contract Documents and VA requirements.
9. All necessary valves (manual, control, and balancing) and shutoffs steam condensate and drain.
10. Testing, adjusting, and balancing of all new (and existing as necessary) air and water systems.
11. Setting of all sleeves and inserts in place.

- B. The above list is presented for general guidance only and does not necessarily cover the entire requirement of the project as shown on the drawings and/or as specified hereinafter.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 23 05 10