

**SECTION 13 50 00**  
**LOADING DOCK HVAC AND PLUMBING MODIFICATIONS**

**PART 1 - GENERAL****1.1 DESCRIPTION**

- A. Modification to HVAC, plumbing, and fire suppression systems, including piping, equipment and all necessary accessories as designated in this section.
- B. Work shall include modification to existing electrical and communications systems as required.
- C. Work shall include modifications to any other system required to provide adequate space and clearances for new vertical lift and access to the loading dock.

**1.2 RELATED WORK**

- A. Section 07 84 00, FIRESTOPPING: Penetrations in rated enclosures
- B. Section 09 91 00, PAINTING: Preparation and finish painting and identification of piping systems.
- C. Section 21 05 11, COMMON WORK RESULTS FOR FIRE SUPPRESSION.
- D. Section 21 12 00, FIRE-SUPPRESSION STANDPIPES.
- E. Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING.
- F. Section 22 11 00, FACILITY WATER DISTRIBUTION.
- G. Section 22 13 00, FACILITY SANITARY SEWER.
- H. Section 22 14 00, FACILITY STORM DRAINAGE.
- I. Section 23 05 11, COMMON WORK RESULTS FOR HVAC.
- J. Section 23 07 11, PLUMBING PLANT INSULATION.
- K. Section 23 21 13, HYDRONIC PIPING.
- L. Section 23 22 13, STEAM AND CONDENSATE HEATING PIPING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data for material and equipment:  
Manufacturer's literature shall be submitted under the pertinent section rather than under this section.
- C. Loading Dock/Shaft #3 Systems Adjustments:
  - 1. Contractor proposed approach to HVAC, plumbing, fire suppression, electrical, communication, and other required system modifications to accommodate required space and clearances for new vertical lift (Specification 14 55 00) and access to the loading dock.

2. Submittal shall include detailed plan and elevation drawings and a detailed materials and equipment/parts list of those items required for the completion of the work.
  3. Drawings should include an existing conditions set and a proposed conditions set that illustrate modifications being completed.
  4. Proposed conditions drawings should include the actual vertical lift being supplied by the Contractor to VA.
- D. As-Built Drawing: Provide drawing(s) that document the as-built conditions of the modifications.
1. One complete set of full size drawings.
  2. One complete set of drawings in electronic Autocad and pdf format.

#### **1.4 APPLICABLE PUBLICATIONS**

- A. Applicable Publications shall be as found in the pertinent sections listed in Section 1.2 above.

#### **1.5 QUALITY ASSURANCE**

- A. Resolve any piping and equipment conflicts before starting installation of new vertical lift and completing loading dock modifications.
- B. Design and materials shall conform to VA Specifications, VA Design Manuals, and New York State Building Code.

### **PART 2 - PRODUCTS**

- A. Applicable Products shall be as found in the pertinent sections listed in Section 1.2 above.

### **PART 3 - EXECUTION**

#### **3.1 PREPERATION**

- A. Field Investigation: Contractor shall review, field verify, and document existing conditions for use in preparation of required modifications.
1. Field measurements shall include the necessary piping, equipment, structural relationship of piping to building, and all other information needed to properly complete modifications.
  2. Materials and Equipment identification shall include identification of existing systems and features related to the proposed work area.
  3. Generally, small diameter piping, some equipment, and other services are not shown on drawings but must be modified by the Contractor.

### **3.2 LAYOUT DESIGN**

- A. Review existing conditions and layout proposed HVAC, plumbing, fire Suppression, electrical, communication, and any other system modifications required to provide adequate space and clearances for new mechanical lift and loading dock access.
- B. Layout design shall be submitted to VA for review and approval.

### **3.3 CONSTRUCTION**

- A. Upon VA approval of submittals, Contractor shall construct modifications as per approved drawings and as found in the pertinent sections listed in Section 1.2 above.
- B. At completion of construction contractor shall provide As-Built drawings to VA.

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