

and not to indicate all offsets, fittings and accessories which may be required, nor to show exact locations of piping, ductwork or equipment except where actual dimensions are given. All vertical piping shall be located in walls in finished spaces unless otherwise noted.

- B. It is the intent of the Drawings and Specifications to call for finished Work, tested, and ready for operation, and in complete conformance with all applicable codes, rules and regulations. Minor details not usually shown or specified, but manifestly necessary for the proper installation and operation of the various systems, shall be included in the Work and in the proposal, the same as if specified or shown on the Drawings.
- C. If any departures from the Drawings and Specifications are deemed necessary, details of such departures and the reasons therefore shall be submitted to the Engineer for approval. No departures shall be made without prior approval of the Engineer.
- D. Specific reference in the Specifications to any article, device, product, material, fixture or type of construction, etc., by proprietary name, make or catalog number shall be interpreted as establishing a standard of quality and shall not be construed as limited competition. Substitutes may be used subject to compliance with requirements set forth in the General Requirements. Division 1, and the requirements of this section.

#### 1.8 APPROVED ALTERNATE MANUFACTURERS AND PRODUCT SUBSTITUTIONS

- A. Equipment substitutions other than the basis of design scheduled on drawings shall comply in every respect with the applicable schedules and specifications contained in the contract documents, and shall meet the requirements of any relevant architectural administrative specification requirements on product substitutions. Equipment scheduled on Drawings was used to arrive at performance, space, maintenance, and utility service requirements. If other equipment is submitted and approved, take responsibility for providing the space, maintenance, and utility service requirements of this substituted equipment, and ensure the capacities, accessories and features as indicated for the scheduled manufacturer are provided. This responsibility shall include the costs associated with any resulting changes during and following installation, including costs to change electrical service required by substituted equipment, to obtain required clearances, or to provide missing accessories and features. Approval of equipment substitutions during the submittal review process or listing of alternate approved manufacturers in these specifications represents an acceptance of the general level of product quality and reliability, and does not imply that the alternate manufacturer's have been reviewed for compliance with the performance, features, materials and accessories already specified for the equipment scheduled on the drawings. It is the ultimate responsibility of the contractor to ensure any equipment substituted for what was scheduled on the drawings meets the contract document requirements.
- B. Where the name of a concern or manufacturer is mentioned on the drawings or in Specifications in reference to his required service or product, and no qualifications or specification of such is included,