

# MEDICAL EQUIPMENT SUPPORT SYSTEM

## PART 1 – GENERAL

### 1.01 SUMMARY

- A. Provide all materials, hardware and labor required for the supply of the medical equipment support structures.
- B. Provide all labor supervision, engineering and fabrication required for the supply of the medical equipment support structures in accordance with the contact documents.

### 1.02 SUBMITTALS

- A. Shop Drawings: Successful vendor shall submit layout drawings showing the complete mounting system including plans, sections and attachment details of the system. Layout drawings shall show all manufactured parts by part number and all fasteners and hardware.
- B. Calculations: The medical support system shall lend itself to a rational structural analysis with section properties of framing members being able to be supplied and demonstrated by calculation.

### 1.03 DESIGN REQUIREMENTS

- A. Support Structure: The support structure shall be designed to withstand the maximum load produced by the medical equipment located at its most eccentric position under full load and shall be designed with a minimum safety factor of two (2) based upon ultimate strength under static loading conditions.
- B. Attachment: The support structure shall be designed utilizing clipped connections to attach the support structure to the existing building structure. Welding to the existing structure is not permitted. Connection of the support structure to concrete

portions of the building structure shall be by means of Powers Power Stud anchors of appropriate size and quantity.

- C. Materials: All materials utilized for the manufacture of the mounting structure shall be structural steel. Materials used in the fabrication and assembly of the support structure shall conform to the following specifications: ASTM A36, ASTM A572, ASTM A53, ASTM A572 GR 50, ASTM A325, ASTM A490.
- D. Finish: All manufactured and fabricated components shall be mechanically cleaned and zinc plated or powder coated to protect from corrosion.

#### 1.04 QUALITY ASSURANCE

- A. Vendor Qualifications: The successful vendor shall not have less than 6 years experience in the manufacturing and installation of pre-engineered and fabricated structural steel medical equipment support systems.
- B. Safety Assurance: Vendor shall demonstrate experience with projects of similar scope and size and shall maintain a continuing quality assurance program.
- C. Warranty: The vendor shall warranty the completed support system against defective workmanship and materials for a period of two (2) years from date of acceptance by Architect / Owner. The completed support system shall be plainly marked with the suppliers Identification tag showing suppliers name and telephone number.

#### 1.05 SEQUENCING AND SCHEDULING

- A. Coordinate with medical equipment supplier, contractor, architect and engineer of record.
- B. Install system prior to ceiling installation and coordinate system location and attachment details with MEP trades and architect.

## PART 2 – PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS

- A. Products supplied and manufactured by any of the following listed manufacturers shall be provided:
  - 1. Healthcare Technology Corporation – Accu-Mount Support Systems  
[www.healthcaretec.com](http://www.healthcaretec.com)
- B. Substitutions shall be in accordance with the Contract Documents and shall be approved in writing by the Architect / Engineer.

### 2.02 MATERIALS

- A. All components shall be manufactured from structural grade steel conforming to one of the following ASTM specifications ASTM A36, ASTM A572, ASTM A53, and ASTM A572 GR 50.
- B. Materials that appear damaged, distressed or rusted shall not be used and will not be accepted.

### 2.03 FINISHES

- A. All manufactured and fabricated components shall be mechanically cleaned and zinc plated or powder coated to protect from corrosion.