

## SECTION 260529 – SUPPORTING DEVICES

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Conduit and equipment supports.
- B. Anchors and fasteners.
- C. Concrete equipment supports

#### 1.2 REFERENCES

- A. NECA - National Electrical Contractors Association.
- B. ANSI/NFPA 70 - National Electrical Code.

#### 1.3 SUBMITTALS

- A. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by Product testing agency specified under Regulatory Requirements. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of Product.

#### 1.4 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and shown.

### PART 2 - PRODUCTS

#### 2.1 PRODUCT REQUIREMENTS

- A. Materials and Finishes: Provide adequate corrosion resistance.
- B. Provide materials, sizes, and types of anchors, fasteners and supports to carry the loads of equipment and conduit. Consider weight of wire in conduit when selecting products.
- C. Anchors and Fasteners:
  - 1. Concrete block walls: Use expansion anchors.
  - 2. Steel Structural Elements: Use welded fasteners.
  - 3. Concrete Surfaces: Use expansion anchors.

## 2.2 CHANNEL SYSTEMS

- A. Manufacturer:
  - 1. Unistrut
  - 2. B-Line
  - 3. Allied
  - 4. Power -Strut
  - 5. or Equal
  
- B. Description:
  - 1. Galvanized steel – General locations
  - 2. Aluminum – Wet, damp areas
  - 3. Stainless steel – Wet, damp corrosive areas where compatible with chemicals
  - 4. Fiberglass – Wet, damp, corrosive areas where compatible with chemicals
  
- C. Size: 1-5/8" x 1-5/8"

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
  
- B. Provide anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
  
- C. Do not fasten supports to pipes and conduit except as shown on Drawings.
  
- D. Obtain permission from Engineer before drilling or cutting structural members.
  
- E. Fabricate supports from structural steel, galvanized steel, aluminum or stainless steel channel. Rigidly weld members or use stainless steel hex head bolts and hardware to present neat appearance with adequate strength and rigidity. Use spring-lock washers under all nuts.
  
- F. Install surface-mounted cabinets and panel boards with minimum of four anchors.
  
- G. In wet and damp locations use stainless steel or aluminum channel supports with stainless steel fasteners.
  
- H. In wet and damp locations use stainless steel or aluminum spacers to stand cabinets and panel boards one inch off wall.

- I. Spray coat cut end of galvanized steel channel or rigid steel conduit with spray cold galvanizing.
- J. Galvanized pipe used as equipment supports are to have the open ends capped with galvanized end caps.
- K. Provide concrete equipment pad, housekeeping pads, for all equipment that will be floor mounted. Pads to be formed, chamfer edges, and have a troweled finish. Concrete shall be smoothed around conduits. Equipment panels shall be anchored using concrete anchors. Equipment pads for outdoor mounted panels shall extend from the front of the equipment panel 3'-6" min. to allow for opening and standing.

END OF SECTION 260529