PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Cable Trays and Accessories.

B. Cable tray specified herein shall apply to all cable tray application, except where required for structured cabling. Refer to Section 27 10 00 for cable tray requirements for structured cabling.

1.02 RELATED SECTIONS

1. Section 26 05 19 Building Wire and Cable
2. Section 26 05 29 Supporting Devices
3. Section 27 10 00 Structured Cabling

1.03 REFERENCES

1. ANSI/NFPA 70—National Electrical Code
2. NEMA VE 1—Metallic Cable Tray Systems

1.04 SUBMITTALS

A. Submit under provisions of Division 01

B. Shop Drawings: Indicate tray type, dimensions, support points, and finishes

C. Product Data: Provide data for fittings and accessories

D. 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.

1.05 PROJECT RECORD DOCUMENTS

A. Submit under provisions of Section 26 05 10

B. Record actual routing of cable tray and locations of supports

1.06 QUALIFICATIONS

Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three (3) years’ experience.

1.07 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

2.01 MANUFACTURERS

1. Square D
2. B-Line Systems
3. Substitutions: Under provisions of Division 01

2.02 LADDER-TYPE CABLE TRAY

A. Description: NEMA VE 1, Class 12A, ladder type tray designed to support 50 pounds per linear foot

B. Material: Aluminum

C. Inside Width: As indicated on drawings

D. Inside Depth: Four inches (4")

E. Straight Section Rung Spacing: Six inches (6") on center

F. Inside Radius of Fittings: Twelve inches (12")

G. Supports: The tray system shall be center hung and shall be supported on 4 foot centers by a single 3/8 inch threaded rod.

H. Provide all horizontal and vertical 90 degree elbows, tees, and crosses required by the layout shown on the drawings.

I. All edges of cable trays, fittings, and connectors shall be rounded and smooth to prevent injury to the cable during its installation.

J. Provide manufacturer's standard clamps, hangers, brackets, splice plates, reducer plates, blind ends, barrier strips, connectors, and grounding straps, as required.

2.03 WARNING SIGNS

Engraved Nameplates: 1/2 inch high black letters on yellow laminated plastic nameplate, engraved with the following wording:

WARNING! DO NOT USE CABLE TRAY AS WALKWAY, LADDER, OR SUPPORT! USE ONLY AS MECHANICAL SUPPORT FOR CABLES AND TUBING!

PART 3 - EXECUTION

3.01 INSTALLATION

1. Install in accordance with manufacturer's instructions and NEMA VE 1

B. Use expansion connectors where required

C. Ground and bond cable tray per NFPA 221

1) Provide continuity between tray components.

2) Use anti-oxidant compound to prepare aluminum contact surfaces before assembly.

3) Bond together by approved means.

4) Connections to tray may be made using mechanical or exothermic connectors.

D. Install warning signs at 30 feet centers along cable tray, located to be visible.

E. Support trays in accordance with Section 26 05 29. Provide supports at each connection point, at the end of each run, and at other points to maintain spacing between supports of 4 feet maximum.

F. Provide fire stopping using UL listed assemblies for all penetrations of rated walls. Use metallic sleeves with grounding type bushing on each end. Terminate two (2) AWG aluminum to bushing.

G. Coordinate cable tray routing with ducts, piping, and work of other trades.

**END OF SECTION**