PART 1 - GENERAL

1.01 WORK INCLUDED

1. Indoor Busway and Fittings
2. Busway Plug-in Units

1.02 RELATED WORK

Section 26 28 16 Disconnect Switches

1.03 REFERENCES

1. ANSI/NEMA ICS 2—Industrial Control Devices, Controllers, and Assemblies
2. FS W-C-375—Circuit Breakers, Molded Case, Branch Circuit, and Service
3. FS W-F-870—Fuse 3Holders (For Plug and Enclosed Cartridge Fuses)
4. FS W-S-865—Switch, Box (Enclosed), Surface-mounted
5. NEMA AB 1—Molded Case Circuit Breakers
6. NEMA BU 1—Busways
7. NEMA KS 1—Enclosed Switches

1.04 SUBMITTALS

A. Submit shop drawings and product data under provisions of Division 01.

B. Indicate busway ratings, dimensions, and finishes. Include dimensioned layout diagram, installation details, and locations of supports and fittings, including firestops and weather seals. Include details of wall and floor penetrations.

C. Submit manufacturer’s installation instructions under provision of Division 01.

1.05 OPERATION AND MAINTENANCE DATA

A. Submit data under provisions of Division 01.

B. Include joint re-tightening schedule.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site under provision of Division 01.

B. Store and protect products under provisions of Division 01.

C. Protect busway from moisture with appropriate coverings. Store in dry, interior location.

D. Prevent damage to internal components, housing, and finish.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS – BUSWAY AND PLUG-IN UNITS

1. Square D
2. Cutler Hammer
3. Siemens
4. Substitutions: Under provisions of Division 01

2.02 INDOOR BUSWAY

A. Plug-In Busway: NEMA BU1; 3-phase, 4 wire plug-in busway rated 120/208 and 277/480 volts, 60 Hz. Provide non-ventilated housing with plug-in openings on 24 inch (600 mm) centers one side, with hinged doors to protect opening where plug-in unit is not installed. Ampere ratings as scheduled and shown on the drawings.

B. Conductors: Copper bars, fully insulated expect at joints. Provide full neutral. Provide insulated ground bus.

C. Joints: Provide single bolt type, with silver-plated contact surface for bus and splice plate.

D. Provide fittings in accordance with manufacturer’s instructions.

E. Finish: Baked gray enamel

2.03 PLUG-IN UNITS

A. Units: Compatible with busway; enclosure with hinged door and operating handle for stick operation. Provide insulated grounding stab.

B. Molded Case Thermal-Magnetic Circuit Breakers: NEMA AB 1 and FS W-C-375 circuit breakers with integral thermal and instantaneous magnetic trip in each pole.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Do not install busway until building is closed in and moisture-tight.

B. Install busway and accessories in accordance with manufacturer’s instructions.

C. Tighten joints using a torque wrench, to manufacturer’s specified values.

D. Mounting and Support: Mount horizontal busway runs in upright position, as indicated. Support busway at intervals as recommended by manufacturer.

**END OF SECTION**