

**Part 1            General**

**1.1                RELATED SECTIONS**

- .1        Section 26 05 00 – Common Work Result for Electrical.
- .2        Section 26 05 21 – Wire and Cables.
- .3        Section 26 05 34 – Outlet Boxes, Conduit Boxes and Fittings.

**1.2                REFERENCE STANDARDS**

- .1        Institute of Electrical and Electronics Engineers (IEEE):
  - .1        IEEE C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits.
- .2        Underwriters Laboratories of Canada (ULC)
  - .1        UL 1449-06 (R2009), Transient Voltage Surge Suppressors.

**1.3                SHOP DRAWINGS AND PRODUCT DATA**

- .1        Submit product data in accordance with Section 26 05 00 - Common Work Results for Electrical.

**1.4                MANUFACTURE**

- .1        Receptacles shall be the products of a single manufacturer.

**1.5                RECEPTACLES**

- .1        CSA type 5-20R, 5-15 R, 125 V, 20A, 15 A, U-ground, with voltage, current and poles, single or duplex as indicated, with following features:
  - .1        Urea molded housing with colours as per base building standards.
  - .2        Suitable for back and side wiring.
  - .3        Break-off links for use as split receptacles.
  - .4        Eight (8) back wired entrances, four side wiring screws.
  - .5        Triple wipe contacts and riveted grounding contacts.
  - .6        Heavy duty one-piece grounding system.
  - .7        Heavy duty, corrosion resistant double plated yoke.
  - .8        Commercial Specification Grade.

**1.6                COVERPLATES**

- .1        Provide cover plates for wiring devices. Cover plates from one manufacturer throughout project.
- .2        Brushed finish stainless steel type 301, minimum 1.0 mm thick, chrome plated screws. Protective film for removal after finishing.
- .3        Sheet steel utility box cover for wiring devices installed in surface-mounted utility boxes.

- .4 Cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .5 In Janitor's Rooms, mechanical and electrical service rooms and parking garages: galvanized pressed steel.
- .6 In damp and exterior locations: weatherproof, spring loaded, cast aluminum coverplates with gaskets.

### **1.7 HANDICAP DOOR OPERATORS**

- .1 Hardware supplied by General Contractor.
- .2 Outlet boxes, conduit and 120 volt power supply by Division 26.
- .3 Low voltage wiring and required transformation by Hardware Contractor.

### **1.8 BASE BOARD UNIT HEATERS**

- .1 Electric Unit heaters, 120 volts, single phase, wattage as indicated.
- .2 Built-in thermostat.
- .3 Slim profile, surface/wall mounted.

## **Part 2 Execution**

### **2.1 INSTALLATION**

- .1 Install electric heating units and wire to manufacturer's instructions.
- .2 Test system to ensure all heaters and controls are operating correctly.
- .3 Test cut-out protection for all forced air heating units when air movement is obstructed.
- .4 Test fan delay switch to assure dissipation of heat after element shutdown.
- .5 Install and wire radiant heating units to manufacturer's instructions.
- .6 Maintain manufacturer's recommended clearances from ceiling, walls or combustible material.

## **Part 3 Execution**

### **3.1 INSTALLATION**

- .1 Gang outlets occurring at the same location under common covers.
- .2 Provide blank coverplates for all unused outlet boxes.
- .3 Provide weatherproof devices as per specifications and as indicated.
- .4 Cover plates:
  - .1 Protect stainless steel cover plate finish with paper or plastic film until painting and other work is finished. Remove protective film from covers after painting.
  - .2 Install suitable common cover plates where wiring devices are grouped.

- .3 Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.
- .5 Receptacles:
  - .1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.
  - .2 Identify all receptacles as specified in Section 26 05 00 - Common Work Results for Electrical.
  - .3 Provide extension box for recessed receptacle and surface mounted box.

**END OF SECTION**