

**Part 1 General**

**1.1 RELATED SECTIONS**

- .1 Division 01 – General Requirements.
- .2 Section 26 05 01 – Common Work Results – Electrical.

**1.2 SECTION INCLUDES**

- .1 Switches, receptacles, wiring devices, cover plates and their installation.

**1.3 REFERENCES**

- .1 Canadian Standards Association (CSA International) Latest Edition of the following:
  - .1 CSA-C22.2 No.42.1-00 (R2004), Cover Plates for Flush-Mounted Wiring Devices (Bi-national standard, with UL 514D).
  - .2 CSA-C22.2 No.55-M 1986 (R2003), Special Use Switches.
  - .3 CSA-C22.2 No.111-00, General-Use Snap Switches (Bi-national standard, with UL 20, twelfth edition).
  - .4 CSA-C22.2 No. 42-99 (R2004) general use receptacles, attachment plugs and similar devices.

**1.4 SUBMITTALS**

- .1 Submit shop drawings in accordance with Section 26 05 01 – Common Work Results – Electrical.

**Part 2 Products**

**2.1 COVER PLATES**

- .1 Cover plates for wiring devices to: CSA-C22.2 No.42.1.
- .2 Cover plates from one manufacturer throughout project.
- .3 FS-type cover plates for wiring devices installed in surface-mounted FS-type outlet boxes.
- .4 Sheet steel utility box cover for wiring devices installed in surface mounted utility boxes.
- .5 Sheet metal cover plates for wiring devices mounted in surface mounted FS or FD type conduit boxes.

**2.2 EQUIPMENT IDENTIFICATION**

- .1 Provide equipment identification in accordance with Section 26 05 01 – Common Work Results – Electrical.
- .2 Label size: 1.
- .3 Provide one label for each wiring device (light switches and receptacles) indicating circuit number that the wiring device is connected to. Example: “A-23”.

## 2.3 RECEPTACLES

- .1 Specification grade U-ground duplex receptacles, CSA Types 5-20R 125V to CSA-C22.2 No. 42 with following features:
  - .1 Impact resistant nylon face.
  - .2 Thermoplastic back body.
  - .3 White urea moulded housing.
  - .4 Suitable for No. 10 AWG for back and side wiring.
  - .5 Break-off links for use as split receptacles.
  - .6 Triple wipe contacts and riveted grounding contacts.
  - .7 Plated steel mounting strap with integral ground contacts.
  - .8 Color: White
- .2 Receptacles of one manufacturer throughout project.
- .3 Switches and dimmers:
  - .1 Install single throw switches with handle in "UP" position when switch closed.
  - .2 Install switches in gang type outlet box when more than one switch is required in one location.
  - .3 Mount toggle switches at height specified in Section 26 05 01 - Common Work Results - Electrical or as indicated.
  - .4 Install 3-way switches such that load is "OFF" when both toggles are down.
- .4 Receptacles:
  - .1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.
  - .2 Where 2 receptacles are fed from different panelboards and installed in a common 2-gang outlet box, install voltage barrier between the receptacles.
  - .3 Mount receptacles at height specified in Section 26 05 01 - Common Work Results - Electrical or as indicated.
  - .4 All receptacles shall be installed with the "U" ground at the top.
  - .5 All receptacles mounted horizontal shall be oriented with ground to the left.

## 2.4 SWITCHES

- .1 15A, 120V single-pole switches, commercial specification grade to CSAC 22.2 No. 55 and CSA C22.2 No. 111.
- .2 Manually operated commercial specification grade AC switches with the following features:
  - .1 Terminal holes approved for #10 AWG wire.
  - .2 Silver alloy contacts.
  - .3 High strength thermoplastic polycarbonate toggle.
  - .4 Urea or melamine moulding for parts subject to carbon tracking.
  - .5 Suitable for back and side wiring.
  - .6 Toggle colour: white.

## **2.5 EMERGENCY STOP PUSHBUTTON**

- .1 Jumbo red mushroom head, push-pull pushbutton with wording "E-Stop" with the following features:
  - .1 Red colour cap.
  - .2 One normally open and one normally closed contact block.
  - .3 Complete with stainless steel jumbo protection guard.

## **Part 3 Execution**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

### **3.2 INSTALLATION**

- .1 Cover plates:
  - .1 Protect cover plate finish with paper or plastic film until painting and other work is finished.
  - .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.
- .2 General:
  - .1 All surface mounted wiring devices shall be installed in FS-type outlet boxes, c/w FS-type coverplates.

END OF SECTION