

**Part 1            General**

**1.1                SECTION INCLUDES**

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

**1.2                RELATED SECTIONS**

- .1        Section 01 33 00 - Submittal Procedures.
- .2        Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .3        Section 26 05 00 - Common Work Results - Electrical.

**1.3                REFERENCES**

- .1        Canadian Standards Association (CSA International)
  - .1        CSA-C22.2 No.42, General Use Receptacles, Attachment Plugs and Similar Devices.
  - .2        CSA-C22.2 No.42.1, Cover Plates for Flush-Mounted Wiring Devices (Bi-national standard, with UL 514D).
  - .3        CSA-C22.2 No.55, Special Use Switches.
  - .4        CSA-C22.2 No.111, General-Use Snap Switches (Bi-national standard, with UL 20, twelfth edition).

**1.4                SHOP DRAWINGS AND PRODUCT DATA**

- .1        Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.

**1.5                WASTE MANAGEMENT AND DISPOSAL**

- .1        Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2        Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3        Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4        Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Departmental Representative.

**Part 2            Products**

**2.1                SWITCHES**

- .1      15 A, 120 V, single pole, momentary-contact (spring actuated), three-way switches to: CSA-C22.2 No.55 and CSA-C22.2 No.111.
- .2      Manually-operated general purpose ac switches with following features:
  - .1          Terminal holes approved for No. 10 AWG wire.
  - .2          Silver alloy contacts.
  - .3          Urea or melamine moulding for parts subject to carbon tracking.
  - .4          Suitable for back and side wiring.
  - .5          Ivory toggle.
- .3      Toggle operated fully rated for tungsten filament and fluorescent lamps, and up to 80% of rated capacity of motor loads.
- .4      Switches of one manufacturer throughout project.
- .5      Acceptable materials: Leviton.

**2.2                RECEPTACLES**

- .1      Duplex receptacles, CSA type 5-15 R, 125 V, 15 A, U ground, to: CSA-C22.2 No.42 with following features:
  - .1          Ivory brown urea moulded housing.
  - .2          Suitable for No. 10 AWG for back and side wiring.
  - .3          Break-off links for use as split receptacles.
  - .4          Eight back wired entrances, four side wiring screws.
  - .5          Triple wipe contacts and rivetted grounding contacts.
  - .6          Tamper-resistant type as shown on the plans.
- .2      Single receptacles CSA type 5-15 R, 125 V, 15 A, U ground with following features:
  - .1          Ivory urea moulded housing.
  - .2          Suitable for No. 10 AWG for back and side wiring.
- .3      Other receptacles with ampacity and voltage as indicated.
- .4      Receptacles of one manufacturer throughout project.
- .5      Acceptable materials: Leviton, Hubbell.

**2.3                COVER PLATES**

- .1      Cover plates for wiring devices to: CSA-C22.2 No.42.1.
- .2      Cover plates from one manufacturer throughout project.
- .3      Sheet steel utility box cover for wiring devices installed in surface-mounted utility boxes.

- .4 Unbreakable nylon. Ivory cover plates, thickness 2.5 mm for wiring devices mounted in flush-mounted outlet box.
- .5 Sheet metal cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .6 Weatherproof double lift spring-loaded cast aluminum cover plates, complete with gaskets for duplex receptacles as indicated.
- .7 Weatherproof spring-loaded cast aluminum cover plates complete with gaskets for single receptacles or switches.
- .8 Provide tamper-resistant spanner head screw to all cover plates (switches and receptacles). Provide one (1) spanner head tamper proof screw driver to the Departmental Representative for every 15 cover plates in this project.

### **Part 3 Execution**

#### **3.1 INSTALLATION**

- .1 Switches:
  - .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 in accordance with Section 26 05 00 - Common Work Results – Electrical or as indicated.
- .2 Receptacles:
  - .1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.
  - .2 Mount receptacles at height in accordance with Section 26 05 00 - Common Work Results – Electrical or as indicated.
- .3 Cover plates:
  - .1 Install suitable common cover plates where wiring devices are grouped.
  - .2 Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.

**END OF SECTION**