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**PART 1**      **GENERAL**

**1.1**      **SECTION INCLUDES**

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

**1.1**      **RELATED REQUIREMENTS**

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

**1.2**      **REFERENCES**

- .1      Canadian Standards Association (CSA International)
  - .1      CSA-C22.2 No.42-99(R2002), General Use Receptacles, Attachment Plugs and Similar Devices.
  - .2      CSA-C22.2 No.42.1-00, Cover Plates for Flush-Mounted Wiring Devices (Bi-national standard, with UL 514D).
  - .3      CSA-C22.2 No.55-M1986(July 2001), Special Use Switches.
  - .4      CSA-C22.2 No.111-00, General-Use Snap Switches (Bi-national standard, with UL 20, twelfth edition).

**1.3**      **SHOP DRAWINGS AND PRODUCT DATA**

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

**1.4**      **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.

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**PART 2**      **PRODUCTS**

**2.1**      **SWITCHES**

- .1      15 A, 120 V, or 347 V as indicated single pole three-way, four-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.
  - .6      Specification grade.
- .3      Toggle operated locking 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.

**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 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      Specification grade.
- .2      Single receptacles CSA type 5-15 R, 125 V, 15 A, U ground with following features:
  - .1      Ivory brown urea moulded housing.
  - .2      Suitable for No. 10 AWG for back and side wiring.
  - .3      Four back wired entrances, 2 side wiring screws.
- .3      Other receptacles with ampacity and voltage as indicated.
- .4      Receptacles of one manufacturer throughout project.

**2.5**      **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 Stainless steel, 1 mm thick cover plates 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 spring-loaded cover plates, complete with gaskets for duplex receptacles as indicated. Weatherproof cover plates shall be capable of being closed while in use.

### **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 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 as indicated.
  - .3 Where split receptacle has one portion switched, mount vertically and switch upper portion.
- .3 Cover plates:
  - .1 Protect stainless steel 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.

**END OF SECTION**