

**PART 1 - GENERAL****1.1 RELATED SECTIONS**

- .1 Section 26 05 00 - Common Work Results - Electrical.

**1.2 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. 42, General Use Receptacles, Attachment Plugs and Similar Devices.
  - .5 CSA-C22.2, No. 111, 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.

**PART 2 - PRODUCTS****2.1 RECEPTACLES**

- .1 Duplex receptacles, "Specification Grade" type, 125 V, 15 A, "U" ground, according to CSA C22.2 No. 42, Grade Heavy Duty Specification Grade with the following characteristics:
  - .1 Urea moulded housing ivory for normal network, red for the emergency network and receptacles with isolated grounding to be colour orange.
  - .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.

## WIRING DEVICES

- .2 Outlets simple type CSA 5 15 R, 125 V, 15 A, socket grounding "U", with the following characteristics.
  - .1 Molded resin urea ivory.
  - .2 For connection side or rear son size 10 AWG.
  - .3 Four rear connection ports, two screw terminals for connection side.
- .3 Other receptacles with ampacity and voltage as indicated in drawing.
- .4 Receptacles for cleaning, designed for 15 A and 20 A must be 5-20R configuration.
- .5 Receptacles of one manufacturer throughout project.

**2.2 GROUND RECEPTACLE (GFI)**

- .1 Double protected receptacle for 15 A circuit, 120 V, including:
  - .1 Leak detector land, semi-conductors.
  - .2 Test device and reset.
  - .3 CSA approved enclosure, mounted flush with stainless steel faceplate.

**2.3 COVER PLATES**

- .1 Provide cover plates for wiring devices according to CSA C22.2 No. 42.1.
- .2 Cover plates from one manufacturer throughout project.
- .3 Sheet metal cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.
- .4 Stainless steel, vertically brushed, 1 mm thick cover plates for wiring devices mounted in flush-mounted outlet box.
- .5 Cover plate: plate for wiring devices mounted in boxes for conduit type FS or FD, mounted projection.
- .6 Weatherproof metallic while-in-use covers, NEMA 3R, held in place by at least 4 screws.

**PART 3 - EXECUTION****3.1 INSTALLATION**

- .1 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 Do not connect wiring only with screws.
- .2 Ground Receptacle (GFI):
  - .1 The neutral must not be grounded on the load side of relay ground fault.
  - .2 The phase conductors including the neutral must pass through transformers homopolar field.
  - .3 Install receptacle at the height prescribed in Section 26 05 00 - Common Work Results - Electrical for the results of Work or as directed by the drawings.
  - .4 Connect the power wiring and load the appropriate equipment, as indicated, following the manufacturer's instructions.
- .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.
- .4 All the receptacles installed at less than 1 m from a wash basin or a sink must be protected by a GFI breaker at the panelboard or GFI receptacle.
- .5 Do not install back to back outlets. A minimum 150 mm horizontal space must be left between boxes.

**3.2 TESTS**

- .1 Demonstrate for receptacle ground (GFI) by simulating grounded fault.

**END OF SECTION**