

PART 1 - GENERAL

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| <u>1.1 Section Includes</u>               | .1 | Switches, receptacles, wiring devices, cover plates and their installation.   |
| <u>1.2 Related Sections</u>               | .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.  |
| <u>1.3 References</u>                     | .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).   |
| <u>1.4 Shop Drawings and Product Data</u> | .1 | Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.   |
| <u>1.5 Waste Management and Disposal</u>  | .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 and 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 Engineer.   |
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## PART 2 - PRODUCTS

- 2.1 Switches .1 15 or 20 A, 120 V, single pole, three-way and 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 Side wiring only.
  - .5 White toggle.
  - .6 Standard of Acceptance: 15A, 120V, single pole, Hubbell #CS1201W.
  - .7 Standard of Acceptance: 15A, 120V, three-way, Hubbell #CS1203W.
  - .8 Standard of Acceptance: 20A, 120V, four-way, Hubbell #CS1224W.
- .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 manufacturers: Hubbell, Leviton or Cooper.
- 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 White thermoplastic base, nylon face.
  - .2 Suitable for No. 10 AWG for side wiring only.
  - .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 Standard of Acceptance: Hubbell #CR5262W.
- .2 Other receptacles with ampacity and voltage as indicated.
- .3 All receptacles on emergency power shall be "red" in color and of one shall be of manufacturer throughout project.
- .4 Acceptable manufacturers: Hubbell, Leviton or Cooper.
- 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.

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| <u>2.3 Cover Plates</u><br><u>(Cont'd)</u> | .4 | Stainless steel, vertically brushed, 1 mm (1/25") thick cover plates for wiring devices mounted in flush-mounted outlet box. |
|  | .5 | Cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.                                 |

### PART 3 - EXECUTION

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| <u>3.1 Installation</u> | .1 | Switches: <ul style="list-style-type: none"><li>.1 Install single throw switches with handle in "UP" position when switch closed.</li><li>.2 Install switches in gang type outlet box when more than one switch is required in one location.</li><li>.3 Mount toggle switches at height in accordance with Section 26 05 00 - Common Work Results - Electrical as indicated.</li></ul>                                       |
|                         | .2 | Receptacles: <ul style="list-style-type: none"><li>.1 Install receptacles in gang type outlet box when more than one receptacle is required in one location.</li><li>.2 Mount receptacles at height in accordance with Section 26 05 00 - Common Work Results - Electrical or as indicated on the drawings.</li><li>.3 Where split receptacle has one portion switched, mount vertically and switch upper portion.</li></ul> |
|                         | .3 | Cover plates: <ul style="list-style-type: none"><li>.1 Protect stainless steel cover plate finish with paper or plastic film until painting and other work is finished.</li><li>.2 Install suitable common cover plates where wiring devices are grouped.</li><li>.3 Do not use cover plates meant for flush outlet boxes on surface-mounted boxes.</li></ul>  |