

PART 1 - GENERAL

1.1 RELATED SECTIONS .1 Section 26 05 00 - Common Work Results - for Electrical.

1.2 REFERENCES .1 Canadian Standards Association (CSA International)  
.1 CSA C22.1-12, Canadian Electrical Code, Part 1 (22nd Edition), Safety Standard for Electrical Installations.

1.3 PRODUCT DATA .1 Submit product data in accordance with Section 01 33 00.

1.4 WASTE MANAGEMENT AND DISPOSAL .1 Separate and recycle waste materials in accordance with Section 01 74 20.

PART 2 - PRODUCTS

2.1 SWITCHES .1 Extra heavy duty specification grade.  
.2 20 A, 120 V, single pole, double pole, three-way, four-way switches as indicated.  
.3 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 White toggle (red toggle for emergency power circuits).  
.4 Toggle operated fully rated for tungsten filament and fluorescent lamps, and up to 80% of rated capacity of motor loads.  
.5 Switches of one manufacturer throughout project.

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2.2 RECEPTACLES -  
GENERAL

- .1 Extra heavy duty specification grade.
- .2 Duplex receptacles, CSA type 5-15 R, 125 V, 15 A, U ground, with following features:
  - .1 White nylon molded housing (red for emergency power circuits).
  - .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.
- .3 Receptacles of one manufacturer throughout project.

2.3 RECEPTACLES  
- 20A

- .1 Extra heavy duty specification grade.
- .2 Duplex receptacles, CSA type 5-20R, 125 V, 15/20 A, U ground, with following features:
  - .1 White nylon molded housing (red for emergency power circuits).
  - .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 non riveted grounding contacts.

2.4 DIMMERS

- .1 Flush mounted - Specification grade.
- .2 Electronic ballast application: compatible with ballasts specified.
- .3 Radio interference suppression.
- .4 Thin profile: slide to OFF feature.
- .5 Finished in white or as indicated.

2.5 INTERVAL  
TIMERS

- .1 Range: 0-30 minutes.
- .2 Spring wound without hold feature.
- .3 Single pole 120 volt, 20 Amp contacts to open at end of timing cycle.
- .4 Flush mounting.
- .5 White finish.

2.6 COVER PLATES

- .1 Stainless steel: Type 302 or 304, No. 4 finish, 1 mm thick, accurately die cut, protective cover for shipping. For general interior flush mounted wiring devices and surface type FS or FD type boxes.
  - .2 Steel: sheet steel hot dip galvanized with rolled edges for surface mounted utility boxes.
  - .3 Wall plates to be flush mounting with "positive bow" feature to ensure that all edges of plate are flush with wall or surface box when installed.
  - .4 All plates to be bevelled type with smooth rolled outer edge and smooth face. Exposed sharp edges are not acceptable.
  - .5 Cast metal: die cast profile, ribbed for strength, flash removed, primed with grey enamel finish and complete with four mounting screws to box for special purpose wiring devices.
  - .6 Weatherproof double lift spring-loaded cast aluminum cover plates, complete with gaskets for wiring devices. Double doors for standard duplex receptacles. Coverplates to fasten to box by four tamper-proof screws.
  - .7 Gaskets: resilient rubber or close cell foam urethane. All gaskets inside inmate cells shall be air tight type to maintain negative air pressure in the cells.
  - .8 Cover plates for all wiring devices to be from one manufacturer throughout project.
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PART 3 - EXECUTION

- 3.1 INSTALLATION - GENERAL
- .1 Mount wiring devices to height specified in Section 26 05 00 or as indicated.
  - .2 Upper edge of plates located on separate outlets immediately alongside one another to be at exactly the same height above finished floor.
  - .3 All plates to be installed parallel or perpendicular to building lines.
- 3.2 INSTALLATION - PARTICULAR
- .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.
  - .2 Receptacles:
    - .1 Install all receptacles in the vertical plane unless otherwise noted.
    - .2 Generally install the 5-15/20R U ground pin down unless otherwise noted.
    - .3 Install receptacles in gang type outlet box when more than one receptacle is required in one location.
    - .4 Where split receptacle has one portion switched, mount vertically and switch the upper portion.
    - .5 Ground fault interrupter duplex receptacles to be used, adjacent sinks or water sources.
  - .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 Use weatherproof cover plates in wet locations and where indicated.
    - .5 Provide a label on every switch and receptacle cover plate indicating panel and circuit number.