

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Section 26 05 00 – Common Work Results – Electrical.

1.2 REFERENCES

- .1 Unless otherwise indicated, all the works must be done in accordance with the latest edition of the Quebec Construction Code (QCC).
- .2 Furthermore, works must be designed and carried out in accordance with any other code or standard having jurisdiction, as per the latest edition, including, but not limited to:
 - .1 Canadian Standards Association (CSA) / CSA International.
 - .1 CSA-C22.2 No. 42, General Use Receptacles, Attachment Plugs and Similar Devices.
 - .2 CAN/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).

1.3 SUBMITTALS

- .1 Shop drawings:
 - .1 Submit shop drawings in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Product data:
 - .1 Submit required product data in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .3 Samples:
 - .1 N/A.

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1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Separate for recycling and place in designated containers packaging material in accordance with Waste Management Plan.
- .3 Fold up metal banding, flatten and place in designated area for recycling.

PART 2 - PRODUCTS

2.1 SWITCHES

- .1 15 A, 120 V, 20 A, 347 V, single pole, double pole, three-way, four-way commercial grade switches.
- .2 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 side wiring;
 - .5 Toggle;
 - .6 Colour: white for normal system and red for emergency system.
- .3 Toggle operated, fully rated for tungsten filament and fluorescent lamps, and up to 120% of rated capacity of motor loads.
- .4 Switches of one manufacturer throughout project.
- .5 Acceptable products:

	Pass & Seymour	Hubbell	Leviton
120 V - 15 A - 1 P	15AC1-I	HBL-1201-I	1201-2-I
120 V - 15 A - 3 P	15AC3-I	HBL-1203-I	1203-2-I
120 V - 15 A - 4 P	15AC4-I	HBL-1204-I	1204-2-I
347 V - 20 A - 1 P	372010-I	HBL-18221-I	18201-I
347 V - 20 A - 3 P	372030-I	HBL-18223-I	18203-I
347 V - 20 A - 4 P	372040-I	HBL-18224-I	18204-I

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2.2 RECEPTACLES

- .1 Commercial/hospital grade duplex receptacles, CSA type 5-15 R, 125 V, 15 A, U ground, with the following features:
 - .1 Urea moulded housing, unless otherwise indicated;
 - .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 Double wipe contacts and rivetted grounding contacts;
 - .6 Colour: white for normal system, red for emergency system and orange for outlets with insulated grounding.
- .2 Other receptacles with ampacity and voltage as indicated on plans.
- .3 Receptacles of one manufacturer throughout project.
- .4 Acceptable products:

	Pass & Seymour	Hubbell	Leviton
15 A - 125 V (5-15R)	5262-B	HBL-5262-B	5262-B
15 A - 125 V (5-15R) (Hospital)	8200-B	HBL-8200-B	8200-B

- .5 Maintenance outlets designed for 15 A and 20 A plugs must be 5-20R configuration.

2.3 COVER PLATES

- .1 Cover plates for wiring devices.
- .2 Cover plates from one manufacturer throughout project.
- .3 Stainless steel, 1 mm thick cover plates cover plates, for wiring devices mounted in flush-mounted outlet box.
- .4 Cast cover plates for wiring devices mounted in surface-mounted FS or FD type conduit boxes.

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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. Provide the necessary accessories and supports.
- .3 Mount toggle switches at height in accordance with Section 26 05 00 or as indicated on plans.
- .4 Install switches near doors on the door handle side.

.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 or as indicated on plans.
- .3 Where split receptacle has one portion switched, mount vertically and switch upper portion.
- .4 Connect wiring using clamping screws only.

.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 Identification:
 - .1 On each cover plate, identify outlets and switches using self-adhesive plastic labels (Brother P-Touch), size 1 or as per Owner instructions, indicating the panel number and the power circuit. The label holder must be transparent matt with white lettering on a black background for the normal system and white lettering on a red background for the emergency system.
- .5 Perform tests as per standards in effect and submit test report.
- .6 All outlets installed less than 1,500 mm from a washbasin, sink or tank must be protected by ground-fault circuit interrupters (GFCI) in the breaker box or must be differential circuit breakers.
- .7 Installing outlets back to back on a wall is not permitted. Allow a minimum horizontal clearance of 150 mm between boxes.

END OF SECTION