

**Part 1 General**

**1.1 SHOP DRAWINGS AND PRODUCT DATA**

- .1 Submit shop drawings and product data in accordance with 26 05 01.

**1.2 OPERATING AND MAINTENANCE DATA**

- .1 Provide data for incorporation into Electrical Maintenance Manual specified in Section 26 05 01.

**Part 2 Products**

**2.1 RECEPTACLES**

- .1 Receptacles of one Manufacturer throughout project.
- .2 Receptacles to: CSA C22.2 No. 42.
- .3 Specification grade duplex receptacle shall be CSA type 5-20R, 125V, 20A, U-ground with the following features:
  - .1 Heavy-duty, one-piece, chromate plate steel mounting strap secured to body of receptacle at both ends.
  - .2 Heavy-duty white nylon rectangular face ("decorator" style).
  - .3 Suitable for #10 AWG conductors side and back wiring.
  - .4 Break off links for use as split receptacle.
  - .5 Triple wipe constant pressure power contacts with fingers in contact when receptacle is not in use.

**2.2 COVERPLATES**

- .1 Weatherproof "while in use" coverplates, complete with gaskets for duplex receptacles as indicated. Coverplates shall be suitable for wet locations whether or not a plug is inserted into the receptacle.

**2.3 WALL MOUNTED OCCUPANCY SENSORS**

- .1 Sensor shall be passive infrared technology type, wall mounted, providing minimum coverage of 149 m<sup>2</sup> (1600ft<sup>2</sup>), 180°.
- .2 Manual timer adjustment of 15 seconds to 30 minutes for delayed off time setting. (Set at 15 minutes)

- .3 Sensor to be complete with power pack to provide a 24V DC power supply for the occupancy sensor
- .4 The sensor shall have a CSA listed rating of: Motor: 1 HP, 120/240 VAC and be complete with an isolated relay with both normally open and normally closed contacts rated for 1 Amp at 24VDC/VAC

## **2.4 ELECTRONIC TIMER SWITCH**

- .1 The timer shall be a solid state electronic control, capable of permitting 40 event settings to be distributed through a 7-Day time period, plus one Astro ON and one Astro OFF setpoint per day. The time-of-day event settings shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes.
- .2 The timer shall have a digital LCD to show mode and time of day using a 12 hour AM/PM indicator.
- .3 The timer shall provide a manual override control for both temporary and permanent overrides.
- .4 The timer shall operate over a temperature range of 0°C to 40°C.
- .5 A lithium battery provides up to 2+ years of time keeping without AC power. User program selections are stored in a non-volatile memory.
- .6 Switch configuration to be SPST with a CSA listed rating of: Motor: 1 HP, 120 VAC; 2 HP, 240 VAC;
- .7 The timer must fit a standard wall box and accept a rectangular decorator wall plate.
- .8 Timer contacts shall make or break current according to user adjustable program.
- .9 The timer shall be white in colour.
- .10 Program timer as follows:
  - .1 Temporary Manual Override On
    - 1. 60 min duration (adj.)

## **Part 3 Execution**

### **3.1 INSTALLATION**

- .1 Receptacles:
  - .1 Mount receptacles at height specified in Section 26 05 01 or as indicated.

.2 Device Identification:

- .1 Identify all receptacle coverplates with clear self-adhesive mylar tape with black lettering (i.e. "A-32"). Alternatively, coverplates can be mechanically engraved.

.3 Occupancy Sensor:

- .1 Position occupancy sensors based upon manufacturer's recommendations so that sensor is not activated by movement outside the room door.

**END OF SECTION**