

**SECTION 16140**  
**WIRING DEVICES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section describes general provisions, products and methods of execution relating to line voltage wiring devices for use at ANC.

**1.2 QUALITY ASSURANCE**

- A. Manufacturers mentioned and catalog numbers specified are for establishment of type, configuration and quality.

**PART 2 - PRODUCTS**

**2.1 DEVICES**

- A. Provide wiring devices indicated. Catalog numbers shown are Hubbell unless noted otherwise. Equal devices manufactured by Arrow Hart, or Bryant are acceptable. Provide all similar devices of same manufacturer. Model numbers are for type and configuration only. Color shall be as selected by the Tenant.

**2.2 SWITCHES**

- A. Provide 20 AMP, 277V rated switches with UL listing for tungsten lamp loads or inductive loads without derating. Switches shall be as follows:

	<u>20A</u>
Single Pole	CAT. NO. 1221
Three-way	CAT. NO. 1223
Four-way	CAT. NO. 1224
Key Operated	CAT. NO. 1221-L
Momentary Cont.	CAT. NO. 1557
Double Pole	CAT. NO. 1222
Pilot Switch	CAT. NO. 1221-PL

- B. Multiple 277V switches shall be installed in partition boxes or shall be furnished with shields.  
C. Other switch types shall be provided as required by the application.

**2.3 INCANDESCENT DIMMERS**

- A. Provide slide-type electronic incandescent dimmers with square-law dimming and silent mechanical "off" switch. Faceplate shall cover cooling fins. Slide control shall prevent damage to the electronics from mechanical abuse. Lutron "NOVA" series, N-600, 1000, 1500, 2000, or equal, as required by the application. Provide dimmers certified for "low voltage" applications where low voltage fixtures are served.

## 2.4 FLUORESCENT DIMMERS

- A. Provide slide-type electronic dimmer with 500:1 dimming range, square-law dimming and silent mechanical "off" switch. Provide low-end trim control for minimum level preset. Faceplate shall cover cooling fins. Slide control shall prevent damage to the electronics from mechanical abuse. Lutron "NOVA" series NF-10, 20, 30, or equal, as required by the application. Provide compatible ballasts for affected fixtures. Coordinate with Sections 16500 and 16501.

## 2.5 RECEPTACLES

- A. Insofar as commercially available, receptacles shall be of nylon construction. Provide grounding type receptacles as follows, or as required to match equipment furnished in this or other divisions.

### Single Phase, 3-Wire Devices

15A-250V	CAT. NO. 5662	NEMA #6-15R
Clock hanger 125V	CAT. NO. S-373-3SS	NEMA #5-15R
20A-125V	CAT. NO. 5362	NEMA #5-20R
20A-125V GFCI	CAT. NO. GF-5362	NEMA #5-20R
20A-125V Tamper Proof	PASS & SEYMOUR CAT NO. SG-63-H	NEMA #5-20R
20A-250V	CAT. NO. 5462	NEMA #6-20R
30A-250V Dryer	CAT. NO. 9430A	NEMA #14-30R
50A-250V Range	CAT. NO. 9450A	NEMA #14-50R

- B. Outlets requiring ratings and configurations different from those listed above shall be provided as required by the equipment served.
- C. Outlets connected to emergency or standby power shall be red. All others shall be as noted in 2.1.

## 2.6 DEVICE PLATES

- A. Device plates shall be satin-finished 302 stainless steel, unless otherwise approved by ANC.
- B. Indoor device plates for surface-mounted boxes shall be stainless or galvanized steel, with design to match the box and device type being used.
- C. Weatherproof switch plates shall be cast, gasketed type, Bell 216-LS-series or approved equal.
- D. Weatherproof outlet plates shall be of the safety outlet enclosure type that can be closed to remain weatherproof while in use. The outlet cover/enclosure shall be clearly marked "Suitable for Wet Locations While In Use" and "UL Listed". A gasket shall be provided between the enclosure and the mounting surface, and between the hinged cover and the mounting plate/base to assure a proper seal. Enclosure shall be oversized depth, single-gang, vertical-mount, with non-locking latch, GFCI opening, cord openings, and cover; TayMac; Specification Grade or approved equal.
- E. Engrave branch circuit designation (panel and circuit number) on receptacle and light switch device plates, e.g., "81NPA-30". Verify final panel designations with ANC prior to engraving nameplates.

## **2.7 OCCUPANCY SENSORS**

- A. Occupancy sensors in individual offices and similar small rooms shall be wall-mounted, passive infrared; Universal Energy Control, Inc. "Switchomat" model SOM-1000-A-2 with two circuit capability, each with manual override switches.
- B. Other products may be utilized if they provide equal or better performance to the sensor specified as the Basis of Design.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Install all wiring devices indicated complete with cover plates. Cover plates shall fit snugly against finished surfaces and line up true with adjacent building lines, and be symmetrical in location and appearance.
- B. All switches shall be installed so their handles move in a vertical plane.
- C. Door swings shall be checked and, if necessary, switches shall be relocated to place them on the strike side of the door.
- D. Unless otherwise noted on the drawings, receptacles shall be installed in the vertical position with the grounding pin down unless wording on the face of the device requires other mounting.

**END OF SECTION**