

## SECTION 16141 WIRING DEVICES

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Wall switches.
- B. Receptacles.
- C. Device plates.

#### 1.2 RELATED SECTIONS

- A. Section 16130 - Boxes.

#### 1.3 REFERENCES

- A. NEMA WD 1 - General Purpose Wiring Devices.
- B. NEMA WD 6 - Wiring Device Configurations.

#### 1.4 SUBMITTALS

- A. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.

#### 1.5 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by Underwriters Laboratories, Inc. as suitable for purpose specified and shown.

### PART 2 - PRODUCTS

#### 2.1 WALL SWITCHES

- A. Manufacturers:
  - 1. Hubbell.
  - 2. Leviton.
  - 3. Bryant.
  - 4. Substitutions: Approved Equal.
- B. Switch Types: Leviton model numbers are listed below to establish configuration and type of switch. Equal devices by other manufacturers will be accepted.
- C. SPST Switches:

1. Description: NEMA WD 1, heavy-duty, AC only general-use snap switch.
  2. Device Body: Ivory plastic with toggle handle.
  3. Voltage Rating: 120-277 volts, AC.
  4. Current Rating: 20 amperes.
  5. Model Number: 5621-2I.
- D. 3-Way Switches:
1. Description: Identical to SPST switches except 3-way operation.
  2. Model Number: 5623-2I.
- E. Boiler Cut-Off Switches:
1. Description: DPST switch with red handle.
  2. Voltage Rating: 120-277 volts AC.
  3. Current Rating: 20 Amperes.
  4. Faceplate: Red color, engraved "EMERGENCY."
  5. Model Number: 1122-2R.

## 2.2 RECEPTACLES

- A. Manufacturers:
1. Hubbell.
  2. Leviton.
  3. Bryant.
  4. Substitutions: Approved equal.
- B. Receptacle Types: Leviton model numbers are listed below to establish configuration and type of receptacles. Equal devices by other listed manufacturers will be accepted.
- C. General Use:
1. Description: NEMA WD 1; heavy-duty type, 125-volt grounded duplex receptacle.
  2. Device Body: Ivory, nylon face.
  3. Configuration: NEMA 5-20.
  4. Model number: 16323-I.
- D. Ground Fault:
1. Description: UL 498, 544, 943; commercial grade, 125-volt, ground-fault interrupt type duplex receptacle with TEST and RESET.
  2. Device Body: Ivory, Thermoplastic.
  3. Configuration: NEMA 5-15R.
  4. Model Number: 6898-I.
- E. Electric Range:
1. Description: 125/250 volt, 50-ampere surface receptacle.
  2. Device Body: Black thermoplastic.
  3. Configuration: NEMA 14-50R.
  4. Model Number: 55050.
- F. Electric Clothes Dryer:
1. Description: 125/250-volt, 30-ampere surface receptacle.

2. Device Body: Black Thermoplastic.
3. Configuration: NEMA 10-30R.
4. Model Number: 5054-2

### 2.3 WALL PLATES

- A. Manufacturers:
  1. Hubbell.
  2. Leviton, #80401-I.
  3. Bryant.
  4. Substitutions: Approved Equal.
- B. Description: Smooth plastic, ivory.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify outlet boxes are installed at proper height.
- B. Verify wall openings are neatly cut and will be completely covered by wall plates.
- C. Verify branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

### 3.2 PREPARATION

- A. Provide extension rings to bring outlet boxes flush with finished surface.
- B. Clean debris from outlet boxes.

### 3.3 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install devices plumb and level.
- C. Install switches with OFF position down.
- D. Install receptacles with grounding pole on top.
- E. Connect wiring device grounding terminal to branch circuit equipment grounding conductor.
- F. Install decorative plates on switch, receptacle, and blank outlets in finished areas.
- G. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.

- H. Provide GFCI-type receptacles at all receptacle locations within six (6) feet of a sink, whether indicated as such on the Drawings or not.

#### 3.4 INTERFACE WITH OTHER PRODUCTS

- A. Coordinate locations of outlet boxes provided under Section 16130 to obtain mounting heights specified and indicated on Drawings.
- B. Install wall switch 48 inches above finished floor.
- C. Install convenience receptacle 18 inches above floor, or as noted on the Drawings.

#### 3.5 FIELD QUALITY CONTROL

- A. Inspect each wiring device for defects.
- B. Operate each wall switch with circuit energized and verify proper operation.
- C. Verify that each receptacle device is energized.
- D. Test each receptacle device for proper polarity.
- E. Test each GFCI receptacle device for proper operation.

#### 3.6 ADJUSTING

- A. Adjust devices and wall plates to be flush and level.

END OF SECTION