

SECTION 16141

WIRING DEVICES

1. PART 1 GENERAL

1.1 SECTION INCLUDES

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

1.2 REFERENCES

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

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300 - Submittals.
- B. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.
- C. Manufacturer's Instructions: Included instructions for storage, handling, protection, examination, preparation and installation.
- D. Indicate application conditions and limitations of use stipulated by product testing agency specified under regulatory requirements.
- E. Include instructions for storage, handling, protection, examination, preparation, operation and installation of product.

1.4 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years experience.

1.5 REGULATORY REQUIREMENTS

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

2. PART 2 PRODUCTS

2.1 WALL SWITCHES

- A. Description: NEMA WD 1, heavy-duty, AC only general use snap switch.

- B. Device Body: plastic.
- C. Voltage Rating: 120-277 volts, AC.
- D. Current Rating: 20 amperes.
- E. Ratings: Match branch circuits and load characteristics.

2.2 RECEPTACLES

- A. Description: NEMA WD 1; heavy-duty general-use receptacle.
- B. Device Body: plastic.
- C. Configuration: NEMA WD 6; type as specified and indicated.
- D. Convenience Receptacle: Type 5-20.
- E. All receptacles shall be GFCI convenience receptacle with integral ground fault circuit interrupter to meet regulatory requirements.
- F. Outdoor receptacles shall include weatherproof cover, which maintains its weatherproof rating with a cord plugged into the receptacle.

2.3 WALL PLATES

- A. Decorative cover plate: brushed stainless steel.
- B. Weatherproof Cover Plate: Gasketed device cover to meet requirements of the NEC.

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify conditions under provisions of Section 01039 – Coordination and Meetings.
- B. Verify outlet boxes are installed at proper height.
- C. Verify wall openings are neatly cut and will be completely covered by wall plates.
- D. 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 bottom.
- E. Connect wiring device grounding terminal to branch circuit equipment grounding conductor.
- F. Connect wiring devices by wrapping conductor around screw terminal.
- G. Install weatherproof plates on all outlet boxes and junction boxes.

3.4 INTERFACE WITH OTHER PRODUCTS

- A. Coordinate locations of outlet boxes provided under Section 16130 – Boxes, to obtain mounting heights specified and indicated on plans.
- B. Install wall switches 48 inches above finished floor.
- C. Install convenience receptacles 24 inches above finished floor.
- D. Install telephone jack inside control panel housing, and as shown on plans.
- E. Install coaxial cable jack inside of control panel housing, and as shown on plans.

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.
- F. Verify that each telephone and cable jack is properly connected and circuits are operational.
- G. Verify all wall plates are free of dirt, sticker labels, and scratches. Contractor shall replace all scratched or damaged plates at Contractor's own expense.

3.6 ADJUSTING

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

END OF SECTION