PART 1 - GENERAL

1.01 DESCRIPTION OF WORK:

A. The extent of wiring device work is indicated by drawings and schedules. Wiring devices are defined as single discrete units of electrical distribution systems which are intended to carry but not utilize electric energy.

B. Types of electrical wiring devices in this section include the following:

- Receptacles.
- Switches.
- Wall plates.
- Plugs.
- Plug connectors.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

- Bryant Electric Co.
- Eagle Manufacturing
- Harvey Hubbell Inc.
- Pass and Seymour Inc.
- Leviton Manufacturing

2.02 FABRICATED WIRING DEVICES:

A. General: Provide factory-fabricated wiring devices, in types, colors, and electrical ratings for applications indicated and complying with NEMA Stds pub No. WD 1. Where types and grades are not indicated, provide proper selection as determined by Installer to fulfill wiring requirements, and complying with NEC and NEMA standards for wiring devices. Wiring devices other than those listed shall be of the type and rating required for service.
B. Wiring device color shall be IVORY.

C. Receptacles:

1. General-Duty Duplex: 2 pole, 3 wire, 20 amp 125 volt grounding receptacle. Molded urea or nylon face, side wired, screw terminals, self grounding. Hubbell Cat. No. HBL5352, or equal by Bryant, P & S, Leviton, or Eagle.

2. General-Duty Simplex: 2 pole, 3 wire, 30 amp 250 volt grounding receptacle. Black color molded urea or nylon face, side wired, screw terminals, self grounding. Hubbell Cat. No. HBL9330, or equal by Bryant, P & S, Leviton or Eagle.

3. Special-Duty Combination: One boss 2 pole, 3 wire, 20 amp 125 volt, second boss 2 pole, 3 wire, 20 amp 250 volt, grounding receptacle. Molded urea or nylon face, side wired, screw terminals, self grounding. Bryant Cat. No. 5492-I, or equal by Hubbell, P & S, Leviton or Eagle.

4. Special-Duty Isolated Ground: 2 pole, 3 wire, 20 amp 125 volt isolated ground receptacle. Orange color molded urea or nylon face, side wired, screw terminals. Hubbell Cat. No. 5362IG, or equal by Hubbell, P & S, Leviton, or Eagle.

5. Special-Duty GFI Duplex: 2 pole, 3 wire, 20 amp, 125 volt grounding, ground fault, feed through, receptacle. Molded urea or nylon face, with wiring leads. Hubbell Cat. No. GF5362, or equal by Bryant, P & S, Leviton, or Eagle.

6. Special-Duty Range: 3 pole, 3 wire, 50 amp, 125/250 volt, straight blade, flush receptacle. Black molded melamine or phenolic face, back wired, screw terminals. Hubbell Cat. No. HBL8430A, or equal by Bryant, P & S, Leviton, or Eagle.
D. Switches


2. Double Pole: General use snap switch rated 20 amp, 120/277 volt, (red face), side wired, screw terminals. Hubbell Cat. No. 1222-I or equal by Bryant, P & S, Leviton or Eagle.

3. Three Way: General use snap switch rated 20 amp, 120/277 volt, (red face), side wired, screw terminals. Hubbell Cat. No. 1223-I, or equal by Bryant, P & S, Leviton or Eagle.


5. Single Pole With 120/277 Volt Pilot Light: Special application snap switch rated 20 amp, (red face), clear handle with red pilot light, side wired, screw terminals. Hubbell Cat. No. 1221 PL, or equal by Bryant, Leviton, P & S., or Eagle.

E. Plugs and Connectors:

1. Plugs: Provide 15-ampere, 125-volts, 3-wire grounding, armored cap plugs, parallel blades with cord clamp, and 0.4” cord hole; match NEMA configuration with power sources.

2. Connectors: Provide 15-ampere, 125-volts, bakelite-bode armored connectors, 3-wire grounding, parallel blades, double wipe contact, with cord clamp, and 0.4” cord hole, match NEMA configuration to mating plug’s.

2.03 WIRING DEVICE ACCESSORIES:

A. Wall Plates: Provide single-switch and duplex outlet wall plates for wiring devices, of types, sizes, and with ganging and cutouts as indicated. Construct with metal screws for securing plates to devices; screw heads colored to match finish of plates; plate color shall match wiring devices. Provide wall plates possessing the following additional construction features:

1. Receptacle Wall Plates: Molded high impact nylon, smooth finish. Bryant Series 88000, or equal by Hubbell, Leviton, P & S, or Eagle.
2. Switch Wall Plates: Molded high impact nylon, smooth finish. Bryant Series 88000, or equal by Hubbell, Leviton, P & S, or Eagle.

B. Floor Service Outlets: Provide floor service outlets and fittings of types and ratings indicated. Floor box shall be constructed of 14 ga. galvanized steel with 5/32" steel reinforced hinged floor plate. Floor box shall have 90 cu. in. total capacity with two 24 cu. in. wiring compartments. Floor box shall be easily leveled and provide concealed service for power receptacles and communication connections. Hinged floor plate shall have a decorator top which may be covered with carpet or tile. Decorator top shall be painted color as selected by the Owner’s Representative. Floor box shall be equal to Steel City Cat. No. 664. Concealed service top shall be equal to Steel City Cat. No. 644 CST.

PART 3 - EXECUTION

3.01 INSTALLATION OF WIRING DEVICES:

A. Install wiring devices as indicated, in compliance with manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation", and in accordance with recognized industry practices to fulfill project requirements.

B. Coordinate with other work, including painting, electrical box and wiring work, as necessary to interface installation of wiring devices with other work.

C. Install wiring devices only in electrical boxes which are clean; free from excess building materials, dirt, and debris.

D. Install galvanized steel wall plates in unfinished spaces.

E. Delay installation of wiring devices until wiring work is completed.

F. Delay installation of wall plates until after painting work is completed.

3.02 PROTECTION OF WALL PLATES AND RECEPTACLES:

A. Upon installation of wall plates and receptacles, advise Contractor regarding proper and cautious use of convenience outlets. At time of Substantial completion, replace those items which have been damaged, including those burned and scored by faulty plugs.
3.03 GROUNDING:

A. Provide electrically continuous, tight grounding connections for wiring devices, unless otherwise indicated.

3.04 TESTING:

A. Prior to energizing circuitry, test wiring devices for electrical continuity and proper polarity connections. After energizing circuitry, test wiring of devices to demonstrated compliance with requirements.

END OF SECTION 26 27 26