PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. This Section specifies the wiring devices for buildings and structures.
   2. Provide all labor, materials, and equipment as necessary to complete all work as indicated on the drawings, and as specified herein.

B. Related Sections include the following:
   1. Applicable sections of Division 26 - Electrical

1.3 SUBMITTALS

A. Shop Drawings:
   1. Switches
   2. Receptacles
   3. Receptacle and switch cover plates
   4. Floor boxes and all associated fittings and components
   5. Relays
   6. Time switches

1.4 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with NFPA 70, “National Electrical Code”
PART 2 - PRODUCTS

2.1 SWITCHES

A. Switches, single, 2 pole, 3 way, 4 way and key type, shall be lifetime quiette type, Cooper 2200 series, Hubbell HBL1200 series, Leviton 1200 series, or equal P. and S., color brown.

B. Switch and pilot light combination shall consist of switch, Cooper 2200 series, and a flush neon pilot light, 125 volt with red plastic jewel, Cooper 277 or Leviton catalog no. 5336.

C. Switch and pilot light combination shall be Leviton catalog no. 5226, 15A., 120 VAC single pole switch and 1/25W, 125V. neon pilot light, red jewel face.

D. Presswitch single, 2 pole, 3 and 4 way, shall be Hubbell 1200 series, color brown.

E. Three position, two circuit, momentary contact switches shall be such as Hubbell catalog no. 1556, 15A., 120-277V. color brown or equal Cooper, Leviton, or P. and S.

2.2 RECEPTACLES

A. In general, duplex receptacles shall be 20 ampere, 125 volt, 3 wire, grounding type, heavy duty, specification grade, color brown. Receptacles shall be:

1. Cooper 5362
2. Hubbell HBL5362
3. Leviton 5362
4. Pass and Seymour 5362A

B. 15 ampere, 125 volt, 3 wire grounding type duplex receptacles shall be heavy duty, specification grade, color brown. Receptacles shall be:

1. Cooper 5262
2. Hubbell HBL5262
3. Leviton 5262
4. Pass and Seymour 5262A

C. Ground fault circuit interrupter receptacles shall be self-testing, specification grade 20 ampere, 125 volt, with feed through, color brown. GFCI receptacles shall be:

1. Eaton TWRSGF20FB
2. Leviton G5362-OWT

D. 15 ampere, 125 volt, 3 wire duplex receptacles with isolated ground, shall be Hubbell catalog no. IG-5262, Leviton catalog no. 5262-IG, Cooper catalog no. IF5262, or equal P. & S.

E. 15 ampere, 125 volt, 3 wire, grounding type with transient voltage surge suppressor for computer outlets, shall be Leviton catalog no. 5280.
26 ampere, 250 volt, 3 wire twist-lock receptacle, shall be Hubbell catalog no. 2320, Leviton catalog no. 2320, or equal Cooper or P. & S.

G. 30 ampere, 125 volt, 2 pole, 3 wire receptacle shall be such as Hubbell catalog no. HBL9308, Leviton catalog no. 5371, or equal Cooper or P. & S.

H. 30 ampere, 125 volt, 2 pole, 3 wire twist-lock receptacle with isolated ground, shall be Hubbell catalog no. IG-2610, Leviton catalog no. 2610-IG, or equal Cooper or P. & S.

I. 30 ampere, 250 volt, 2 pole, 3 wire receptacle shall be such as Hubbell catalog no. HBL9330, Leviton catalog no. 5372, or equal Cooper or P. & S.

J. 30 ampere, 250 volt, 2 pole, 3 wire twist-lock receptacle, shall be Hubbell catalog no. 2620, Leviton catalog no. 2620, or equal Cooper or P. & S.

K. 15 ampere, 250 volt, 3 wire grounding type, single receptacle for window a.c. unit shall be Hubbell catalog no. 5652 or Leviton catalog no. 5661.

L. 20 ampere, 250 volt, 3 wire, single receptacle for window a.c. unit shall be Hubbell catalog no. 5461 or Leviton catalog no. 5461.

M. 20 ampere, 250 volt, 2 pole, 3 wire, single phase, duplex receptacle shall be Hubbell catalog no. 5462 or Leviton catalog no. 5462.

N. 20 ampere, 125/250 volt, 3 pole, 4 wire grounding, single phase receptacle shall be Hubbell catalog no. HBL8410.

O. 20 ampere, 250 volt, 3 pole, 4 wire grounding, 3 phase single receptacle shall be Hubbell catalog no. HBL8420.

P. Floor receptacles shall be Walker 500 AL series, G.E. Co. SP-400RG, or National no. 7903-LGC.

Q. Clock outlets shall be Leviton catalog no. 5261-CH. Clock outlets to be mounted 6 inches to center below suspended ceiling or 7 feet above the floor in rooms without suspended ceiling.

2.3 COVER PLATES

A. Switch and receptacle plates shall be stainless steel, non-magnetic type 302, such as Hubbell 97000 series, except where specified otherwise.

B. Switch and receptacle plates in corrosion areas such as chemical laboratories shall be Leviton unbreakable nylon, color brown.

Indicate on the drawings were the following plates should be used.

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C. Switch and receptacle plates shall be brown bakelite, such as Hubbell 91000 series, Leviton 84000 series, or approved equal.

D. Weatherproof receptacle rain tight while in use covers shall be Hubbell WP826 series, Leviton 5970 or 5990 series, or equal Cooper or P. & S.

E. Weatherproof switch plates shall be Hubbell catalog no. 1750 gray hypalon pressswitch plate.

F. Weatherproof switch plates shall be Hubbell catalog no. 1785 gray hypalon pressswitch plate with 125V. red pilot light.

2.4 FLOOR BOXES

A. Floor box shall be Steel City Series 600 cast iron box with P60-DS bronze floor plate assembly and P60-CP bronze carpet plate (use when floor finish is carpet).

2.5 SPECIAL CONTROLS

A. As specified, special controls shall be furnished by the contractor furnishing the associated equipment. These controls shall be connected by the electrical contractor.

B. Refer to Mechanical Specifications.

2.6 TIME SWITCHES

A. Connect time clock controlling supply, exhaust, and recirculating air fans as specified in the Mechanical Sections. Time clocks to be furnished by Mechanical Contractor.

B. Time switches for outside building lights shall be Intermatic no. V45471CR Astronomic Dial Series, DPST, 40 amperes, 125 volt.

C. 6 hour spring wound time switches, 20 ampere, 125 volt AC, SPST, shall be Dayton catalog no. 4A218A, without hold position, or approved equal.

D. Time switches to control individual room lights shall be Intermatic catalog no. T101, SPST, 125 volt, 40 amp., or approved equal.

2.7 RELAYS

A. Multiple pole relays shall be Square D Class 8501, Type X, 600 volt, 10 ampere, or approved equal, Westinghouse, General Electric, Challenger, Cutler-Hammer, or Siemens number of poles and type of enclosure as noted on drawing.
2.8 EMERGENCY-OFF STATION

A. Emergency-off station to control contactor panel shall be such as Square D, Class 9001, Type K-15 break-glass operator with KA-2 N/O contact block, K-25 stainless steel plate, flush mounting, and KN-299 EMERGENCY-OFF legend plate.

Include the following paragraph if emergency-off is to shut down air conditioning as well as contactor panel.

B. Emergency-off station to control contactor panel and air conditioning system shall be such as Square D, Class 9001, Type K-15 break-glass operator with 2 KA-2 N/O contact blocks, K-25 stainless steel plate flush mounting, and KN-299 EMERGENCY-OFF legend plate.

PART 3 - EXECUTION

3.1 SWITCHES

A. Switches, unless otherwise noted, shall be mounted 48 inches to center above finished floor.

3.2 RECEPTACLES

A. Receptacle outlets, unless otherwise noted, shall be mounted 18 inches to center above finished floor.

END OF SECTION 262726