

DIVISION 26 - ELECTRICAL

SECTION 26 27 26 – WIRING DEVICES

PART 1: GENERAL

1.01 RELATED DOCUMENTS

- A. The Conditions of the Contract and applicable requirements of Division 0, Division 1 and Section 26 00 01, “Electrical General Provisions” govern this Section.

1.02 SCOPE OF STANDARD

- A. A. This standard provides general guidance concerning the specific preferences of Texas State University for Wiring Devices.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.
- C. Products shall be designed, manufactured, tested and installed in compliance with NEMA WE 1 (General-purpose wiring devices) and NEMA WD 5 (Specific-purpose wiring devices).

1.03 DESCRIPTION OF WORK

- A. Work Included: Provide wiring device work as shown, scheduled, indicated, and specified. The types of wiring devices required include, but are not limited to, receptacles, switches, wall dimmers, pushbuttons, and wall plates.
- B. This is a design standard and is not intended to be used as a construction specification.

PART 2: PRODUCTS

- A. Provide products complying with the following Basis of Design.
 - 1. All electrical switches and outlets shall be Hubbell heavy duty, specification grade or equivalent quality.
 - 2. Minimum 20 ampere rated switches shall be used for lighting and power loads. In cases where wall dimmers are used, the dimmer shall be state-of-the-art solid state design with flicker noise control. Minimum accepted manufacturer and quality – Lutron Nova Series or approved equal.
 - 3. Device faceplates shall be smooth finish nylon. Designer shall coordinate color requirements with building architectural. Use of vinyl or plastic faceplates is strictly prohibited. Galvanized face plates shall be used for all surface mounted devices.

PART 3: EXECUTION

3.01 DESIGN REQUIREMENT

- A. A typical single person office space should contain a minimum of two duplex receptacles and (two) communications outlets.
- B. A typical open office cubicle shall contain a minimum of two duplex receptacles per workstation.
- C. Locate power and communications outlets on interior walls. Do not locate any outlets on exterior walls under windows or on the exterior of the building.
- D. Receptacles shall not be used as feed through devices. All receptacles shall be pig-tailed except those at the end of the run and/or dedicated. Basis of Design for receptacles: Leviton #5340 or approved equal.
- E. All wire connections on wiring devices (convenience outlets and switches) shall be wrapped around the screw in the proper direction. Exception: those with factory "pigtailed" leads. Basis of Design: Leviton #1243-I single pole ivory & #1244-I 3-way Ivory or approved equal.
- F. Stab-in wiring to devices shall not be used.
- G. Housekeeping Circuits
 - 1. "Housekeeping" circuits and receptacles shall be dedicated, rated at 20 amps, 120 volt and under no circumstances include any other loads or circuits (such as classroom and/or offices). Provide one, dedicated, single receptacle/circuit at no more than 40 linear feet in hallways.
- H. Vending machine receptacles.
 - 1. Shall be located at a minimum height of 7 feet above finished floor. *Exception:* if there is a minimum of 3 feet between the back of machines and receptacles with proper access (min. = 6' 8" x 32"), and provision is made to keep this distance.
 - 2. Due to the possibility of plugging more than one high amp draw machine into a duplex receptacle ALL vending receptacles should be 20 A. single receptacles with one circuit to each. Vending machine = drink, cold food, candy, copiers, laminators, or any other large type vending machine.
- I. Emergency generator receptacles and covers are to be RED in color.
- J. General purpose receptacles to be installed 18" to the bottom from the finished floor or grade except when installed above counter tops. *Exception:* Areas that require differing heights and are within code parameters.
- K. All duplex receptacles to be installed with ground pointing down.
- L. Life Safety Code shall dictate switch locations.

- M. General purpose receptacles shall be labeled with panel name and circuit number on front side of cover or face plate. Labels shall be made with a P-touch labeler, black lettering on clear tape and the font size to be 9mm.
- N. Switches shall be labeled with panel names and circuit number on the back side of the cover plate. Labels shall be made with a P-touch labeler, black lettering, on clear tape. Font size is to be 9mm.
- O. All floor boxes used in new construction shall be cast-in-place.

END OF SECTION 26 27 26