

CITY OF KILLEEN
ELECTRICAL CODE LOCAL AMENDMENTS
Ordinance 22-004
(Effective March 01, 2022)

Subdivision 1. - Code Adoption

Sec. 8-210. - Adopted.

There is hereby adopted by the city the *National Electrical Code, 2020 Edition*, a copy of which is attached hereto and made a part of this chapter for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.

Secs. 8-211—8-219. - Reserved.

Subdivision 2. - Additional Local Requirements

Sec. 8-220. - General installation requirements for residential and commercial buildings and structures.

- (a) All electrical construction and all materials and appliances used in connection with the installation, maintenance, and operation of electrical wiring, apparatus or equipment for the utilization of electrical energy for light, heat or power shall conform to the rules and regulations of this section, the adopted electrical code, and in harmony with the electrical service guidelines of the local electrical utility provider.
- (b) Abandoned wiring. Whenever new wiring is replacing old wiring, the old wiring shall be completely removed where possible. Abandoned wiring that cannot be removed shall be rendered unusable for future use before final approval shall be given for the new wiring.
- (c) Additions to existing wiring. Where additions or extensions are made, and part of the existing wiring remains in use, and if defects exist in same, the existing wiring must be corrected and shall meet standards for new work.
- (d) Electrical service upgrade required. The electrical service shall be upgraded on a structure when electrical power is disconnected for any of the following conditions:
 - (1) Dangerous or unsafe electrical hazards;
 - (2) Substantial damage to electrical service over fifty percent (50%);
 - (3) Loss of electrical power for a period of one (1) year or longer.

- (e) Electrical system upgrade required (total rewire). The electrical system shall be upgraded on a structure when any of the following occur:
 - (1) Dangerous or unsafe electrical hazards.
 - (2) Substantial damage to electrical system over fifty percent (50%).
 - (3) Change from residential use to commercial use. For the purpose of this section, apartment dwellings are considered residential use and hotel/motel structures are considered commercial use.
- (f) Service masts as supports. In addition to the requirements in the NEC, section 230-28, all service masts installed as support for service-drop conductors shall meet the following:
 - (1) Service conduit extending through the roof and used for a service support shall be sealed at the roof with an approved flashing and extend a minimum of thirty of thirty-six (36) inches above the roof. Such service conduit shall be anchored just before entering the roof.
 - (2) A minimum size of two (2) inches rigid conduit shall be used for service mast. E.M.T. or I.M.C are not acceptable for service masts supports.
- (g) Services—general. In addition to the requirements in the NEC, Section 230, all services installed shall meet the following:
 - (1) All entrance service conductors shall be enclosed in galvanized conduit or electrical metallic tubing. A minimum of one and one-quarter inch (1-1/4") conduit shall be used for service other than for service masts.
 - (2) Length of outside service wire extension beyond service weather-head shall not be less than (1) one foot.
 - (3) Unless otherwise allowed in Section 230 of the adopted NEC, tenant or lease space buildings shall have only (1) electrical service meter allowed for each individual tenant space. Reconfigured tenant spaces that combine the interior, through doors or other access points, of two or more originally separate tenant spaces in order to serve one (1) tenant exclusively shall be required to remove all but one (1) electrical service meter.
- (h) Electrical metallic tubing installation. Electrical metallic tubing shall not be permitted for direct burial in earth or installed in or under concrete on grade or below grade. (REF. NEC Article 348-10 Uses Permitted.)
- (i) Main disconnects. Service entrance conductors hereafter installed on all buildings, shall require a single main disconnect or manual shunt-trip device located outside the building or structure. When a remote shunt-trip button is installed, it shall be located on the exterior of the building or structure and shall have a visual indication that the service has been disconnected when the trip has been activated. The shunt-trip button

shall be in a sturdy, exterior cabinet that can be secured with a padlock. The cabinet shall be permanently marked on the exterior, stating "shunt-trip disconnect."

Sec. 8-221. - Reserved.

Sec. 8-222. - Additional commercial requirements for hotel, motel, and other non-residential use buildings or structures.

- (a) Wiring requirements. All electrical wiring installed in nonresidential buildings and dwelling buildings over three (3) stories tall shall be installed with code approved conduit materials and methods. Non-metallic sheathed cable (Romex type wire) shall not be used.
- (b) Receptacle requirements. Receptacles and switches in commercial buildings shall be rated a minimum of twenty (20) ampere.
- (c) Minimum building service. Except for small unoccupied buildings and structures such as ATM booths, billboards, and similar uses all nonresidential buildings shall have a minimum of a two hundred (200) ampere service.

Secs. 8-223—8-239. - Reserved.