

ORDINANCE NO. 2017-08-031

**AN ORDINANCE OF THE CITY OF LANCASTER, TEXAS, REPEALING THE NATIONAL ELECTRICAL CODE 2014 EDITION IN ITS ENTIRETY AND REPLACING IT WITH THE ADOPTION OF THE NATIONAL ELECTRICAL CODE 2017 EDITION BY ADOPTING CHAPTER 6 BUILDING REGULATIONS, ARTICLE 6.04 TECHNICAL AND CONSTRUCTION CODES AND STANDARDS, DIVISION 4 ELECTRICAL CODE TO PROVIDE FOR THE AMENDMENTS TO THERETO; PROVIDING A PENALTY OF FINE NOT TO EXCEED TWO THOUSAND DOLLARS (\$2,000.00); PROVIDING FOR SEVERABILITY; PROVIDING A SAVINGS CLAUSE; PROVIDING A REPEALING CLAUSE; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the City Council of the City of Lancaster, Texas ("City Council") has investigated and determined that it would be advantageous and beneficial to the citizens of the City of Lancaster, Texas ("Lancaster") to adopt the 2017 Edition of the National Electrical Code, save and except the deletions and amendments set forth below;

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LANCASTER, TEXAS:**

**SECTION 1.** That Chapter 6 of the Lancaster Code of Ordinances be, and the same is, hereby repealed the National Electric Code 2014 in its entirety and replacing it with National Electric Code 2017, adopting National Electrical Code 2017 Edition by adopting Article 6.04, Division 4, Electrical Code, to provide for the amendments to thereto, which shall read as follows:

**"ARTICLE 6.04 TECHNICAL AND CONSTRUCTION CODES AND STANDARDS**

**Division 4. Electrical Code**

**Sec. 6.04.151. Adoption**

There is hereby adopted as the electrical code for the city for the purpose of regulating and governing the design, construction, quality of materials, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance, of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; and optical fiber cables and raceways, subject to the exceptions and amendments provided in Section 6.04.152, and the same are incorporated by reference herein as if fully copied. One copy of each such code, together with the exceptions and amendments thereto, shall be kept at all times in the office of the city secretary. This code shall serve as the electrical provisions of the International Residential Code, as adopted elsewhere.

**Sec. 6.04.152. Exceptions and Amendments**

The Electrical Code adopted in this article shall be subject to the exceptions and amendments to the 2017 National Electrical Code, as follows:

The following articles, paragraphs, and sentences of the *2017 National Electrical Code (NEC)* are hereby amended as follows: Standard type is text from the NEC. Highlighted with gray shading is text inserted. Lined through type is deleted text from NEC.

***To amend Article 100 by adding the following to definition:***

Engineering Supervision. Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations.

**To amend Article 100 by removing the amendment to the following definition:**

**Intersystem Bonding Termination.** A device that provides a means for connecting intersystem bonding conductors for communication systems ~~and other systems such as metallic gas piping systems~~ to the grounding electrode system. ~~Bonding conductors for other systems shall not be larger than 6 AWG.~~

**To amend Article 110.2; to read as follows:**

**110.2 Approval.** The conductors and equipment required or permitted by this Code shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third party inspection agency approved by the AHJ.

*Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third party inspection agency approved by the AHJ.*

~~Manufacturer's self-certification of any equipment shall not be used as a basis for approval by the AHJ.~~

Informational Note **No. 1:** See 90.7, Examination of Equipment for Safety, and 110.3, Examination, Identification, Installation, and Use of Equipment. See definitions of *Approved*, *Identified*, *Labeled*, and *Listed*.

Informational Note No. 2: Manufacturer's self-certification of equipment may not necessarily comply with U.S. product safety standards as certified by an NRTL.

Informational Note No. 3: National Fire Protection Association (NFPA) 790 and 791 provide an example of an approved method for qualifying a third party inspection agency.

**To amend Article 210.52(G) (1) Garages by removing the amendment that deleted the following:**

**(1) Garages.** In each attached garage and in each detached garage with electric power. ~~The branch circuit supplying this receptacle(s) shall not supply outlets outside of the garage.~~ At least one receptacle outlet shall be installed for each car space.

**To amend Article 230.71(A) by removing the amendment that added the following exception:**

~~Exception: Multi-occupant buildings. Individual service disconnecting means is limited to six for each occupant. The number of individual disconnects at one location may exceed six.~~

**To amend Article 300.11 by removing the amendment that added the following exception:**

~~Exception: Ceiling grid support wires may be used for structural supports when the associated wiring is located in that area, not more than two raceways or cables supported per wire, with a maximum nominal metric designation 16 (trade size 1/2").~~

**To amend Article 310.15(B) (7) by removing the amendment that changed the following to read as follows:**

~~(7) This Article shall not be used in conjunction with 220.82.~~

**To amend Article 500.8 (A) (3); to read as follows:**

**500.8 Equipment.**

Articles 500 through 504 require equipment construction and installation that ensure safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance.

Informational Note No. 2: Since there is no consistent relationship between explosion properties and ignition temperature, the two are independent requirements.

Informational Note No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C (-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

**(A) Suitability.** Suitability of identified equipment shall be determined by one of the following:

- (1) Equipment listing or labeling;
- (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation; or,
- (3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or an owner's engineering judgment. ~~an engineering judgment signed and sealed by a qualified Registered licensed Professional Engineer in the State of Texas.~~

Informational Note: Additional documentation for equipment may include certificates demonstrating compliance with applicable equipment standards, indicating special conditions of use, and other pertinent information.

**To amend Article 505.7 (A); to read as follows:**

**505.7 Special Precaution.**

Article 505 requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to the installation and maintenance of electrical equipment in hazardous (classified) locations.

Informational Note No. 2: Low ambient conditions require special consideration. Electrical equipment depending on the protection techniques described by 505.8(A) may not be suitable for use at temperatures lower than -20°C (-4°F) unless they are identified for use at lower temperatures. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified Class I, Zones 0, 1, or 2 at normal ambient temperature.

**(A) Implementation of Zone Classification System.** Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed by a qualified persons Registered licensed Professional Engineer in the State of Texas.

**To amend Article 517.30 Essential Electrical Systems for Hospitals by removing the amendment that created a new (H) and added the following language:**

**(G) Coordination.** Overcurrent protective devices serving the equipment branch of the essential electrical system shall be coordinated for the period of time that a fault's duration extends beyond 0.1 second.

Exception No. 1: Between transformer primary and secondary overcurrent protective devices, where only one overcurrent protective device or set of overcurrent protective devices exists on the transformer secondary.

Exception No. 2: Between overcurrent protective devices of the same size (ampere rating) in series.

Informational Note: The terms coordination and coordinated as used in this section do not cover the full range of overcurrent conditions.

~~**(H) Selective Coordination.** Overcurrent protective devices serving the life safety, and critical branches of the essential electrical system shall be selectively coordinated with all supply-side overcurrent protective devices.~~

~~Exception No. 1: Between transformer primary and secondary overcurrent protective devices, where only one overcurrent protective device or set of overcurrent protective devices exists on the transformer secondary.~~

~~Exception No. 2: Between overcurrent protective devices of the same size (ampere rating) in series.~~

~~Informational Note: The terms coordination and coordinated as used in this section do not cover the full range of overcurrent conditions.~~

**To amend Article 600.6(A) (1) At Point of Entry to a Sign; Exception 1; to read as follows:**

Exception No.1: A disconnect shall not be required for branch circuit(s) or feeder conductor(s) passing through the sign where enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. The conductor(s) shall not serve the sign body or sign enclosure where passing through.

**To amend Article 600.6(A) (1) At Point of Entry to a Sign by creating a new Exception No. 2 to add the following language:**

Exception No. 2. A disconnect shall not be required at the point of entry to a sign body, sign enclosure, or pole for branch circuit conductor(s). The conductors shall be enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. The conductor(s) shall be routed to a device box which contains the disconnect. A field-applied permanent warning label that is visible during servicing shall be applied to the raceway at or near the point of entry into the sign enclosure or sign body. The warning label shall comply with 110.21(B) and state the following: "Danger. This raceway contains energized conductors." The marking shall include the location of the disconnecting means for the energized conductor(s). The disconnecting means shall be capable of being locked in the open position in accordance with 110.25.

**To amend Article 600.6(A) (1) At Point of Entry to a Sign; move the original Exception 2 to create a new Exception No. 3 and add the following language:**

Exception No. 3: A disconnect shall not be required at the point of entry to a sign enclosure or sign body for branch circuit(s) or feeder conductor(s) that supply an internal panelboard(s) in a sign enclosure or sign body. The conductors shall be enclosed in a Chapter 3 listed raceway or metal-jacketed cable identified for the location. A field-applied permanent warning label that is visible during servicing shall be applied to the raceway at or near the point of entry into the sign enclosure or sign body. The warning label shall comply with 110.21(B) and state the following: "Danger. This raceway contains energized conductors." The marking shall include the location of the disconnecting means for the energized conductor(s). The disconnecting means shall be capable of being locked in the open position in accordance with 110.25.

(2017 Code) Informational Note: The location of the disconnect is intended to allow service or maintenance personnel complete and local control of the disconnecting means.

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**To amend Article 680.25(A) by removing the amendment that added the following language and exception:**

**680.25 Feeders.**

These provisions shall apply to any feeder on the supply side of panelboards supplying branch circuits for pool equipment covered in Part II of this article and on the load side of the service equipment or the source of a separately derived system.

**(A) Wiring Methods.**

**(1) Feeders.** Feeders shall be installed in rigid metal conduit, intermediate metal conduit. The following wiring methods shall be permitted if not subject to physical damage:

- (1) Liquidtight flexible nonmetallic conduit
- (2) Rigid polyvinyl chloride conduit
- (3) Reinforced thermosetting resin conduit
- (4) Electrical metallic tubing where installed on or in a building

- (5) Electrical nonmetallic tubing where installed within a building
- (6) Type MC Cable where installed within a building and if not subject to corrosive environment
- ~~(7) Nonmetallic-sheathed cable~~
- ~~(8) Type SE cable~~

~~Exception: A feeder within a one-family dwelling or two-family dwelling unit between remote panelboard and service equipment shall be permitted to run in flexible metal conduit or an approved cable assembly that includes an insulated equipment grounding conductor within its outer sheath. The equipment grounding conductor shall comply with 250.24(A) (5)."~~

**SECTION 2.** Regional Amendments to the 2017 National Electrical Code. The 2017 National Electrical Code is further amended as specified in the regional amendments recommended by the North Central Texas Council of Governments, as amended and as outlined in Exhibit "A" (the "Regional Amendments"). The Regional Amendments are attached hereto as Exhibit "A" and incorporated herein for all purposes.

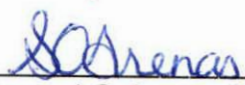
**SECTION 3.** Any person, firm, corporation or business entity violating this Ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be subject to a fine not to exceed the sum of Two Thousand (\$2,000.00) dollars for each offense, and each and every day such offense shall continue shall be deemed to constitute a separate offense.

**SECTION 4.** That should any word, sentence, paragraph, subdivision, clause, phrase or section of this ordinance, or of the Code of Ordinances, as amended hereby, be adjudged or held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said ordinance, or the Code of Ordinances, as amended hereby, which shall remain in full force and effect.

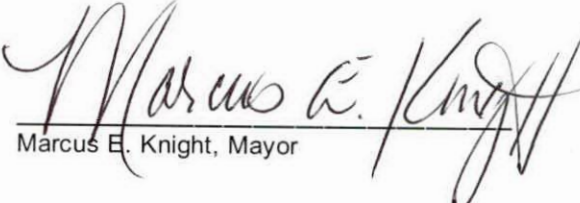
**SECTION 5.** That this Ordinance shall become effective September 1, 2017.

**DULY PASSED** and approved by the City Council of the City of Lancaster, Texas, on this the 14th day of August, 2017.


**ATTEST:**

  
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Sorangel O. Arenas, City Secretary

**APPROVED:**

  
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Marcus E. Knight, Mayor

**APPROVED AS TO FORM:**

  
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David T. Ritter, City Attorney