Chapter 13.16 - ELECTRICAL CODE

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Editor's note— Ord. No. 6104, § 1, adopted November 8, 2010, repealed the former CBMC 13.16.010—CBMC 13.16.480, and enacted a new CBMC 13.16 as set out herein. The former CBMC 13.16 pertained to similar subject matter and derived from Ord. No. 5279, 1996; Ord. No. 5560, 2001; Ord. No. 5680, 2002 and Ord. No. 5992, 2008.

13.16.010 Adoption ~~By Reference~~

That a certain document being designated as the National Electrical Code, 2020 Edition, as published by National Fire Protection Association of Quincy, Massachusetts, including the Electrical Standards referenced herein, are hereby adopted as the Electrical Code of the City of Council Bluffs, Iowa, one copy of which is on file and open for inspection by the public in the office of the building official, is hereby referred to, adopted, and made part hereof as if fully set out in this chapter.

The City of Council Bluffs Electrical Code shall coincide with the state of Iowa Electrical Code, as amended and mandated by the State of Iowa Public Safety Department as described in the Iowa ~~Admin.~~ Administrative Code, § 661-301.5(103A) entitled "Electrical Requirements."

(Ord. No. 6104, § 1, 11-8-2010)

13.16.020 Administrative Provisions

The administrative provisions for this electrical code shall be as provided for in CBMC 13.01.

(Ord. No. 6104, § 2, 11-8-2010)

~~**13.16.025 Electrical Standards**~~

~~The following electrical standards shall be adopted and made a part of the Council Bluffs Electrical Code.~~

~~A. The Electrical Service Manual as published by Midwestern Energy;~~
~~B. The Standards For Safety For Electrical Signs as published by Underwriters Laboratories, Inc.;~~
~~C. The NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment;~~
~~D. The NFPA 820 Fire Protection in Wastewater Treatment & Collection Facilities;~~
~~E. The NFPA 30 Flammable and Combustible Liquids Code;~~
~~F. The NFPA 99 Health Care Facilities;~~
~~G. The NFPA 20 Standard for the Installation of Centrifugal Fire Pumps;~~
~~H. The NFPA 101 Life Safety Code;~~
~~I. The NFPA 73 Electrical Inspection Code for Existing Dwellings;~~

~~J. The NESC National Electrical Safety Code.~~

~~(Ord. No. 6104, § 2, 11-8-2010)~~

13.16.030 General Provisions

This electrical code shall regulate the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacements, additions to, use of maintenance of electrical systems that are permanently installed and utilized to provide control of electrical systems and electrical equipment within buildings, structures, and facilities.

This electrical code shall be enforced within the city limits of Council Bluffs, Iowa, which provides for issuance of permits and collection of fees thereof; and each and all of the regulations, provisions, conditions and terms of the National Electrical Code as published by the NFPA.

(Ord. No. 6104, § 2, 11-8-2010)

13.16.090 Compensation

Article 80.15(D) deleted.

(Ord. No. 6104, § 2, 11-8-2010)

13.16.200 Electrical Standards

These additional electrical standards are also adopted in full in their most current published edition as follows:

A. The Electric Service Manual as published by MidAmerican Energy;
B. The Standards for Safety for Electric Signs by Underwriters Laboratories, Inc.;
C. The NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment;
D. The NFPA 820 Fire Protection in Wastewater Treatment & Collection Facilities;
E. The NFPA 30 Flammable and Combustible Liquids Code;
F. The NFPA 99 Health Care Facilities;
G. The NFPA 20 Standard for the Installation of Centrifugal Fire Pumps; and
H. The NFPA 101 Life Safety Code;
I. The NFPAA 73 Electrical Inspection Code for Existing Dwellings; and
J. The NESC National Electrical Safety Code;

The above standards shall serve as additional rules and requirements where applicable for electrical construction work. The provisions set forth in these regulations shall govern when requiring a higher minimum standard than set out in the National Electrical Code as adopted.

(Ord. No. 6104, § 3, 11-8-2010)

13.16.310 Vertical Clearance From Ground

Article 230.24(B)(2) shall be deleted and replaced to read as follows:

2) Twelve (12) feet over residential occupancies, sixteen (16) feet over driveways and those commercial areas not subject to truck traffic where the voltage is limited to three hundred volts to ground.

(Ord. No. 6104, § 2, 11-8-2010)

~~**13.16.330 Article 230.79(C)**~~
~~Deleted in its entirety.~~

~~(Ord. No. 6104, § 2, 11-8-2010~~

13.16.485 Fence, Electrically Charged ~~Security~~

The construction and use of electrically charged ~~security~~ fencing shall be installed within the corporate limits of the City of Council Bluffs as provided in this chapter, subject to the following:

A. Installation. Unless otherwise specified herein, electrically charged ~~security~~ fences shall be constructed or installed in conformance with the specifications set forth in the International Electro Technical Commission (IEC) Standard No. 60335-2-76, 2018 3rd Edition, and in compliance with the zoning regulations of the City of Council Bluffs.
B. Electrification.
    1. The energizer for electrically charged security fencing must be driven by a commercial storage battery not to exceed twelve (12) volts DC. The storage battery shall be charged primarily by a solar panel, however, the solar panel may be augmented by a commercial trickle charger.
    2. The electric charge produced by the fence upon contact shall not exceed energizer characteristics set forth in paragraph 22.108 as depicted in figure 102 of the IEC Standard No. 60335-2-76, 2018 3rd Edition.
    3. Non-low voltage electrical components (e.g. controllers, transformers) of the electric fencing system shall be approved and listed by an Occupational Safety and Health Act (OSHA) Nationally Recognized Testing Laboratory (NRTL).
~~C. Perimeter Fence or Wall. No electrically charged security fence shall be installed or used unless it is completely surrounded by a non-electrical fence or wall that is not less than eight feet in height.~~
~~D. Height. Electrically charged security fences shall not exceed ten (10) feet in developed height.~~
E. Warning Signs. An electrically charged security fence shall be clearly identified with warning signs that read, "Warning-Electric Fence-High Voltage" at intervals not to exceed sixty (60) feet in developed spacing with a minimum of two per longitudinal length of fencing and within ten (10) feet of any means of ingress/egress through the fencing barrier. Signage shall be provided in both English and Spanish. Additionally, symbolic icon signage shall be provided at each required location as established in the IED Standard 60335-2-76 2018 3rd Edition, depicting electrified fencing.
~~F. Means of Disconnection of Electrical Components at Primary Entrance; Emergency Access. A Knox Box shall be installed for emergency access by Council Bluffs Fire Department. A means to disconnect the electrical power to the fence shall be readily accessible for the fire department. Disconnect switches and controls shall be in an accessible location on the property and shall not be obscured in any manner from the street/private ingress/egress access. Approved signage stating the identification of such switches and controls in addition to informational instructions as to how to disable the electrical system shall be installed to the satisfaction of the Council Bluffs Fire Marshal. In the event that access by the city of Council Bluffs Fire Department and/or Police Department personnel to where a permitted electrical fence has been installed and is operating is required due to an emergency or urgent circumstance, and the Knox Box~~

~~device referenced above is absent or nonfunctional, and the owner, manager, employee or custodian, or any other individual with control over the property is not present to disable the electric fence, fire and police personnel shall be authorized to disable the electric fence in order to gain access to the property. As a condition of permit issuance, all applicants issued permits to install and use an electric fence as provided in this chapter will agree to waive any and all claims for damage to the electric fence against the City of Council Bluffs and/or city personnel directly responding to an alarm, notice or threat under such circumstances.~~

~~All applicants for electrically charged security fencing shall provide the Council Bluffs Police Department with an "emergency access plan" which shall outline, in detail, how police personnel will be able to safely access the property during an emergency. This plan must be approved by the Chief of Police or his designee prior to the issuance of a permit for said fence.~~ Means of Disconnection. Access to means of disconnection must be provided to the Council Bluffs Fire Department either through a readily accessible route or by providing an approved Knox Box. Signage shall be posted stating the means of disconnection location.

~~G. Registration. All fences defined as "fence, electrically charged security" shall require an initial permit with the fee established in CBMC 2.08, "Schedule of Fees." Additionally, all electrically charged security fence installations and their associated electrical components shall be inspected annually by the permits and inspections division and the fire marshal for adequacy and compliance based on the initial approval of said fencing. An annual registration shall be required and the fee shall be established in CBMC 2.08, "Schedule of Fees."~~ Permit Fees. All electric fences shall require a permit fee as established in CBMC 2.08 “Schedule of Fees.”

(Ord. No. 6256, § 1, 1-11-2016)