

ORDINANCE NO. 06-O-68

**ORDINANCE ADOPTING THE INTERNATIONAL
ICC ELECTRICAL CODE ADMINISTRATIVE PROVISIONS, 2006 EDITION, SUBJECT TO
SPECIFIED AMENDMENTS**

An ordinance of the Village of Round Lake adopting the 2006 edition of the *International ICC Electrical Code Administrative Provisions* regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of electrical systems in the Village of Round Lake; providing for the issuance of permits and collection of fees therefore; repealing Chapter 15.20 of the Municipal Code of the Village of Round Lake and all other ordinances and parts of the ordinances in conflict therewith.

NOW THEREFORE, BE IT ORDAINED BY THE VILLAGE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ROUND LAKE, LAKE COUNTY, ILLINOIS as follows:

SECTION 1: That the Municipal Code of the Village of Round Lake be amended by striking and deleting Chapter 15.20 of the Municipal Code and substituting in its place the following new Chapter 15.20 adopting the International ICC Electrical Code .Administrative Provisions, 2006 Edition subject to specified amendments, all as follows:

Chapter 15.20

ICC Electrical Code Administrative Provisions Adopted

Sections:

15.20.010 International ICC Electrical Code Administrative Provisions, 2006 Edition, adopted.

15.20.020 Amendments and Revisions.

15.20.010 International ICC Electrical Code Administrative Provisions, 2006 Edition, adopted.

That a certain document, three (3) copies of which are on file in the office of the Clerk of Round Lake, being marked and designated as the *International ICC Electrical Code .Administrative Provisions*, 2006 edition, as published by the International Code Council, be and is hereby adopted as the ICC Electrical Code Administrative Provisions of the Village of Round Lake, in the State of Illinois regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of electrical systems as herein provided; providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, penalties, conditions and terms of said ICC Electrical Code .Administrative Provisions on file in the office of the Village of Round Lake are hereby referred to, adopted, and made a

part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes, if any, prescribed in Section 15.20.050 of this chapter.

15.20.020 Amendments and Revisions.

The following sections of the International ICC Electrical Code Administrative Provisions, 2006 Edition, are amended and revised as hereinafter stated:

Section 101.1. Insert: Village of Round Lake

Section 404.2. Insert: as per fees indicated in Chapter 15.08 of the Village of Round Lake

Municipal Code

Section 1201.1.1. Amendments to NFPA 70 also known as the National Electric Code (NEC) shall be as follows and labeled in this section as Article 110.12 thru Article 720.11

Article 110.12 (D) Add new Article as follows:

Article 110.12 (D): Removal of Abandoned Materials: All abandoned wiring, conductors, conduit systems, raceways, junction boxes, electrical devices, electrical materials and/or equipment, etc. shall be removed prior to a final electrical inspection.

Article 210.8 (b) (3) Add new Article as follows:

Article 210.8 (b) (3) Duplex Receptacle Requirements: All receptacles that are installed in locker rooms, or installed in and/or associated with foliage, plants, and the like, shall be ground fault protected.

Article 210.10 (b) (5) Add new Article as follows:

Article 210.10 (b) (5) Receptacles: All duplex receptacles in other than dwelling units shall be a minimum of twenty (20) ampere rated.

Article 210.70 (2) (d) Add new Article as follows:

Article 210.70 (2) (d) Add new Article as follows: Panel-boards shall have a minimum of one (1) lighting fixture installed within three (3) feet of the panel-board cover.

Article 210.70 (2) (e) Add new Article as follows:

Article 210.70 (2) (e) Three and Four Way Switch Locations: A three (3) way switch shall be installed at each entrance and/or exit in all hallways for the purpose of controlling the lighting fixtures that are required. A four (4) way switching arrangement may be required in hallways where the length and/or the construction layout of the walls are installed in a manner where it is deemed necessary by the electrical inspector having jurisdiction to require the four (4) way switching arrangement.

All rooms that have more than one (1) entrance and/or exit to said rooms (such as kitchens, dining rooms, etc.) shall have the lighting fixtures and/or a wall mounted receptacle that is installed for general lighting purposes be controlled by a three (3) way switching arrangement.

A four (4) way switching arrangement may be required in rooms as noted above where the wall construction of said rooms is installed in a manner where it is deemed necessary by the electrical inspector having jurisdiction to require.

Article 230.54 (b) (2) Change Article as follows:

Article 230.54 (b) (2) Service Cable Equipped with Rain-tight Service Head or Gooseneck: Delete Article with reference to use of gooseneck.

Article 230.70 (A) Add to Article as follows:

Article 230.70 (A) Location: The Main Service Disconnecting Means (circuit breaker or fused switch device) shall be located within five (5) feet of the point where the service conductors enter the building and/or five (5) feet of the metering device.

Where the use and installation of multi-metering devices are required in buildings and/or structures such as apartment type complexes, condominiums, multi-family type structures, etc., all service entrance equipment, (such as tenant metering equipment, main service disconnecting means, etc.) shall be grouped and shall be installed in a dedicated electrical room so approved for the purpose.

Article 230.79 (C) Change Article as follows

Article 230.79 (C): Single Family Dwelling. In single family attached dwellings the service size shall be a minimum of 100 amps per dwelling unit. In detached single family dwellings the service size shall be a minimum of 200 amps.

Article 240.87 Add new Article as follows:

Article 240.87 Bolt-In Circuit Breakers: All commercial and industrial installations shall use bolt-in type circuit breakers.

Article 240.88 Add new Article as follows:

Article 240.88 Number of Conductors Permitted on a Circuit Terminal: The application and/or installation of more than one (1) conductor to a circuit breaker terminal or a fuse holder terminal shall not be approved and will not be accepted.

Exception: In wiring installations where it is required to install parallel sets of conductors, each conductor shall be connected and/or attached to a lug or terminal so designated or sized as to accept not more than one (1) conductor.

Article 250.53 (I) Add new Article as follows:

Article 250.53 (I) Residential Grounding, Primary Ground: When interior water pipe is utilized for grounding method, grounding shall be installed to the street side of the water meter ahead of any shut-off valves.

(a) All ground conductors shall be installed in EMT, rigid heavy wall galvanized steel conduit or IMC.

(b) An approved ground clamp and a metal identification tag shall be installed where the ground is connected to the grounding conductor. Grounding connector shall terminate at a grounding electrode/water pipe.

Article 300.3 (D) Add new Article as follows:

Article 300.3 (D) Voltage Identification: When more than one (1) voltage is installed or when voltages exceed 240 volts in a building, tenant space, etc., black lettering on an orange sticker shall be installed on the following covers:

- (a) Switchgear
- (b) Panelboard
- (c) Junction Box
- (d) Pull and/or Tap Box
- (d) Disconnects

Article 300.5 (L) Add new Article as follows:

Article 300.5 (L) Detached Structures: All conduits that contain conductors for the purpose of supplying electricity to detached structures such as garages, storage sheds, etc., shall be rigid heavy wall galvanized steel conduit, intermediate metallic conduit, or non-metallic raceway.

Article 314.3 Change Article as follows:

Article 314.3 Nonmetallic Boxes: Delete Article in its entirety.

Article 314.6 Add new Article as follows:

Article 314.6 Sizes of Junction Boxes: In all single family dwellings, apartment units and/or apartment type complexes, condominiums, townhouses, multi-family structures, detached structures, general outdoor electrical installations, storage sheds, etc. all junction boxes shall be metallic. The minimum dimensions of any junction box, splicing box, pull box, etc. shall be four (4) by four (4) by one and one half (1 ½) inches in depth or larger.

Note: Junction boxes required for use for the proper installation and/or mounting of lighting fixtures may be of the eight (8) sided type but shall be a minimum of one and one half (1 ½) inches deep.

(a) Junction boxes that are required to be installed in brick and/or masonry walls or structures need not be of the sizes as stated in the paragraph above; however, said junction boxes shall be of the masonry type and approved for location by the electrical inspector having jurisdiction.

Article 314.17 (C) Change Article as follows:

Article 314. 17 (C) Nonmetallic Boxes: Delete Article in its entirety.

Article 314.27 (D) Change Article as follows:

Article 314.27 (D) Ceiling Fixtures: Ceiling openings in residential living rooms, dining rooms, breakfast rooms, kitchens, and bedrooms shall have a fan rated junction box installed.

Article 314.43 Change Article as follows:

Article 314.43 Nonmetallic Boxes: Delete Article in its entirety.

Article 320 Change Article as follows:

Article 320 Armored Cable: Type AC: Delete Article in its entirety.

Article 324 Change Article as follows:

Article 324 Flat Conductor Cable: Type FCC: Delete Article in its entirety.

Article 326 Change Article as follows:

Article 326 Integrated Gas Spacer Cable: Delete Article in its entirety.

Article 328 Change Article as follows:

Article 328 Medium Voltage Cable: Type MV: Delete Article in its entirety.

Article 330 Change Article as follows:

Article 330 Metal-Clad Cable: Type MC: Delete Article in its entirety.

Article 334 Change Article as follows:

Article 334 Nonmetallic-Sheathed Cable: Delete Article in its entirety.

Article 338 Change Article as follows:

Article 338 Service-Entrance Cables: Delete Article in its entirety.

Article 340 Change Article as follows:

Article 340 Underground Feeder and Branch-Circuit Cable: Delete Article in its entirety.

Article 354 Add article as follows:

Article 354.11 Nonmetallic Underground Conduit with Conductors: Rigid nonmetallic conduit may only be used:

 Inside a building when installed beneath a four inch thick concrete slab, or

 Outside of a building when buried at least eighteen inches below grade or twenty four inches under driveways, roadways and parking lots and,

When the conduit transitions into approved metallic conduit before emerging from the slab below ground.

Article 356 Change Article as follows:

Article 356 Liquid-tight Flexible Nonmetallic Conduit: Delete Article in its entirety.

Article 362 Change Article as follows:

Article 362 Electrical Nonmetallic Tubing: Delete Article in its entirety.

Article 382 Change Article as follows:

Article 382 Nonmetallic Extensions: Delete Article in its entirety.

Article 394 Change Article as follows:

Article 394 Concealed Knob and Tube Wiring: Delete Article in its entirety.

Article 396 Change Article as follows:

Article 396 Messenger Supported Wiring: Delete Article in its entirety.

Article 398 Change Article as follows:

Article 398 Open Wiring on Insulators: Delete Article in its entirety.

Article 408.8 Add new Article as follows:

Article 408.8 Electrical Equipment Rooms and/or Closets: In all commercial buildings, industrial buildings, and to include residential buildings, (such as apartment type complexes, condominium type structures, etc.), where vaults, transformers, electrical equipment (such as switchgear, panelboards, distribution points, etc.) are established throughout various floors of the building, all such electrical equipment shall be grouped and installed in an approved electrical closet and/or switch room so designed and designated for the purpose. Such electrical closets shall be for the exclusive use of the electrical equipment and/or electrical system and shall be so constructed as to provide the required working space around and/or in front of all electrical equipment installed therein.

Article 408.9 Add new Article as follows:

Article 408.9 Rooms to be Vented: All electrical closets, switch rooms, electrical equipment rooms, transformer rooms and/or vaults, and the like, that contain transformer(s) that are rated one hundred (100) kva or larger, shall be power vented to the outside air environment. Ventilation requirements shall be of sufficient size so that said rooms shall not exceed an operating temperature of eighty (80) degrees F.

Article 720.11 Amend Article as follows:

Article 720.11 Mechanical Execution of Work: All conductors installed for low voltage applications such as door bells, door lock release devices, thermostat control, control wiring in general, music systems,

communication systems, TV and cable TV systems, etc. shall be installed in electrical metallic tubing, rigid heavy wall galvanized steel conduit, intermediate metallic conduit, and the like, or other approved raceway within walls or other inaccessible locations in areas where said low-voltage installations may be subject to mechanical damage, or where exposed below the bottom of the lowest structural support of the ceiling or floor above.

SECTION 2: All Ordinances in conflict with this Ordinance to the extent of such conflict are hereby repealed.

SECTION 3: That if any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The Board of Trustees hereby declares that it would have passed this ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

SECTION 4: That nothing in this ordinance or in the ICC Electrical Code .Administrative Provisions hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in Section 3 of this ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this ordinance.

SECTION 5: This Ordinance shall be in full force and effect from and after ten (10) days of its passage, approval and publication in pamphlet form.

APPROVED:

Village President – William Gentes

ATTEST:

Village Clerk – Jeanne Kristan

PASSED:

APPROVED:

**PUBLISHED IN
PAMPHLET FORM:**

AYES:

NAYS:

ABSENT: