

## CHAPTER 15.10. – NFPA 70 – NATIONAL ELECTRICAL CODE

### 15.10.010. - Adopted.

There is adopted by reference, as if fully set out in this chapter, that certain code known as the National Electrical Code, 2020 edition (NFPA 70-2020), as sponsored and published by the National Fire Protection Association, together with the additions, insertions, deletions and changes hereinafter set forth, one copy of which has been for a period of more than 30 days prior to the effective date of the ordinance from which this chapter is derived and now is on file in the office of the village clerk.

**State Law reference—** Adoption by reference, 65 ILCS 5/1-3-1 et seq., 50 ILCS 220/1 et seq.

### 15.10.020. - Amendments.

The following additions, insertions, deletions and changes are made to the National Electrical Code, 2020 edition, adopted in [section 15.10.010](#):

Add Article 90.4.1 Contractors - Contractors and homeowners shall comply with Chapter 5.14 of the Lemont Municipal Code when performing electrical work within the Village of Lemont.

Add Article 90.4.2 Service Protection - Electrical service will be approved only after the service panel is adequately protected from the weather.

Add Article 90.4.3 Rough Inspections - Rough electrical inspection shall be approved only after all piping is completed and conductors have been pulled unless otherwise approved in advance.

Add Article 90.4.4 – Homeowner - The owner of a single-family residence may perform their own electrical wiring providing they obtain a permit and prove that the dwelling has been their primary residence for a period of not less than six months.

Article 210.12 – Arc Fault Circuit Interrupter Protection – Delete in its entirety.

*Delete Article 230.43 and replace as follows: **230.43 Wiring Methods for 1000 Volts, Nominal , or Less.** Service-entrance conductors shall be installed in accordance with the applicable requirements of this code covering type of wiring method used and shall be limited to rigid metal conduit (RMC) or intermediate metal conduit (IMC) above ground, and PVC or RMC underground.*

*Article 250.53(D)(2) Supplemental electrode required. A metal underground water pipe shall be supplemented by an additional electrode of a type specified in 250.52(A)(2) through (A)(7). Where the supplemental electrode is a made electrode of the rod, pipe, or plate type, it shall comply with 250.56. The supplemental electrode shall be bonded to the grounding electrode conductor or the grounded service entrance conductor.*

Article 230.85 – Emergency Disconnects – Delete in its entirety.

*Add article 310.3(B).1 - All conductors under 500 amp service must be copper. Conductors for services 500 amps and higher may be aluminum under approval of the Building Official.*

Add new Article 314.27.A.3 – Future Fixtures:

Any location which could reasonably have a ceiling fan (or large heavy light fixture) now or in the future, should have a fan rated box. Though many factors can influence the location, these specific factors should be considered as locations likely to have a fan and therefore a rated box:

- A light fixture box located in, or near, the center of any bedroom, living room, 3-season room, covered porch, multi-purpose/recreation room, multi-story foyer, etc.
- A light fixture box located at an even interval or 1/3 points along a large room
- A light fixture box located in, or near the center of a table location for a breakfast area, kitchen table, dining room table, etc.

- A light fixture box located over the center of a large or “eat at” kitchen island

Additional factors that should be considered in these areas is the size of the room and the location of any fixed book cases or cabinets that would prohibit enough space for a ceiling fan.

A fan rated box should not be required to be installed in the following locations unless it is known based on the plans that a fan will be installed there: bathroom, garage, laundry room, hallway

*Article 320 Armored cable: Type AC. Delete in its entirety.*

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

*Article 326 Integrated gas spacer cable: Type IGS. Delete in its entirety.*

*Article 330 Metal-clad cable: Type MC. Insert 330.3 Use of Type MC. MC shall only be permitted when installed as a manufactured product in Article 604 or when the length of any section of MC is less than 6 feet with a dedicated ground wire installed.*

*Article 332 Mineral-insulated, metal-sheathed cable: Type MI. Delete in its entirety.*

*Article 334 Nonmetallic-sheathed cable: Types NC, NMC, and NMS. Delete in its entirety.*

*Article 338 Service-entrance cable: Types SE and USE. Delete in its entirety.*

*Article 340.10 Uses permitted. Delete Article 340.10 in its entirety.*

*Article 352 – Rigid PVC – Delete in its entirety section 352.10-A – Concealed*

*Article 362 Electrical nonmetallic tubing: Type ENT. Delete in its entirety.*

*Article 382 Nonmetallic extensions. Delete in its entirety.*

*Article 394 Concealed knob-and-tube wiring. Delete in its entirety.*

*Article 396 Messenger supported wiring. Delete in its entirety.*

*Article 398 Open wiring on insulators. Delete in its entirety.*

*Article 410.36(B) Suspended ceilings.* Delete in its entirety and in lieu thereof substitute the following new article 410.36(B) (C):

Article **410.36(B) (Means of Support)** Lighting fixtures two pounds and heavier installed in or above a suspended type ceiling shall be supported from at least 2-sides or opposite corners to the main structure of the building.

Add section 408.30.1 – Minimum size of residential service: (1) Two hundred (200) amp, Forty (40) Space panel, for dwellings under 2,500 square feet. The square footage of dwellings is based on the living space, excluding basements and garages.