CHAPTER 152: - ELECTRICAL CODE[2]

Section

~~Footnotes:~~

~~(2)~~

~~**Editor's note—** Ord. No. 13-001, § 1, adopted Jan. 8, 2013, amended ch. 152 in its entirety to read as herein set out. Former ch. 152, §§ 152.01—152.108, pertained to similar subject matter and derived from: Ord. 07-086, adopted June 26, 2007; Ord. 08-036, adopted Feb. 26, 2008; Ord. 08-151, adopted Nov. 25, 2008; Ord. 10-029, adopted Apr. 13, 2010; Am. Ord. 12-033, adopted Mar. 13, 2012; and Ord. 12-132, adopted Dec. 11, 2012.~~

§ 152.01 - ADOPTED.

The 2014~~2011~~ edition of the National Electrical Code (NFPA 70), (hereinafter the "2014 NEC") and latest amendments, with local amendments herein~~and as modified by this chapter~~, is adopted by reference.

In the event any provisions, articles, and/or wording of the 2014~~2011~~ edition of the National Electrical Code and latest amendments are in conflict with any ordinances, amendments, and/or addendum, ~~as recognized and approved by the Electrical Commission of the Village of Schaumburg and/or~~ as adopted by the Village of Schaumburg, or are in conflict with the state law, the most restrictive provisions, articles, and/or wording, shall prevail.

~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.02 ~~—~~ LOCAL AMENDMENTS TO THE 2014 NEC.

Article 100 (Definitions) is hereby amended by adding the following new definitions:

Commercial and Industrial Occupancy: Includes any buildings and/or structures not used or occupied for residential type occupancies and/or purposes. Further, buildings and/or structures, such as retail establishments, buildings and/or structures used for the purpose of manufacturing, buildings and/or structures so constructed for the use and/or installation of office systems and/or office personnel, buildings and/or structures, such as motels, hotels, daycare centers, nursing homes, and retirement type complexes, etc., shall be classified as commercial and/or industrial occupancies.

Residential Type Occupancy: Includes single-family detached and attached dwelling units, apartment unit(s) and/or apartment complexes, condominium(s) and/or condominium complexes, and any other multi-family type construction, and to include any additional attached or detached buildings and/or structures that are constructed on said premises, but are not a commercial and/or industrial use.

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Regulations – Electrical: Are related to all buildings and/or structures for the purpose of the installation of electrical wiring systems, electrical equipment, electrical materials, devices, apparatus, and appliances as recognized in all village codes and standalone ordinances adopted by the Village.

Electrical Commission – Local or Village: For purposes of this code, the local or village electrical commission is defined in chapter 31 of this code.

Electrical Inspector - Village: For purposes of this code, the village electrical inspector shall be defined as the individual or contract service provider designated as the village's chief electrical inspector, together with any other authorized village electrical inspectors.

Article 100 (Definitions) (Appliance) is hereby repealed in its entirety and replaced with the following new definition:

Appliance: As used in this code, an appliance is hereby defined as any device, machine, or piece of apparatus or tool which utilizes or transmits electrical current or energy. Examples of appliances are as noted: any electric tools, toasters, irons, dryers, washers, dishwashers, stoves, ranges, ovens, rotisseries, fry pans, radios, televisions, office machines, computers, electrical toys, signs, points of display, fixtures, heaters, and, in general, any and all electrical appliances or devices or machines intended by their nature and construction to utilize or transform electrical current in their normal usage.

> *Exception: The provisions of the electrical regulations are not intended to include apparatus, conductors or equipment installed for or by public utilities, common carriers or commercial radio or television stations, which are under the jurisdiction of the Illinois Commerce Commission, or other state or federal regulatory bodies, for their use in their specific operation.*

Article 100 (Definitions) (Equipment) is hereby repealed in its entirety and replaced with the following new definition:

Electrical Equipment, Wiring, Device and Material: Apparatus installed for the utilization of electricity for light, heat, power, and or visual communication or signal transmission or convenience. Examples of electrical equipment are as noted: conduit, wire way, trough, duct, switchboard, panelboard, distribution center, motor control center, conductor, cable, cord, junction box, cabinet, connector, coupling, tape fitting, switch, receptacle, circuit breaker, fuse, meter fitting, combination of any of the foregoing and, in general, anything that would be utilized in making an electrical installation.

Article 110.13 (B) (Cooling) is hereby amended by adding the following paragraph at the end of the section:

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All electrical closets, switchgear rooms, electrical equipment rooms, transformer rooms, and/or vaults, containing transformer(s) collectively that are rated at two hundred (200) KVA or more shall be power vented to the outside environment. Ventilation requirements shall be of sufficient size to keep said rooms at an average ambient temperature of the building.

Article 110.14 (Electrical Connections) is hereby amended by adding the following new section:

110.14 (D) (Conductor Attachment to Devices)

(1) All branch circuit conductors shall be connected to receptacles and switches by means of the screw terminal(s) that are so designed and/or manufactured with the said device. The insertion and/or installation of any conductor into the screw-less terminals of any electrical device shall not be the accepted method of connection and/or installation of the conductor and will not be permitted.

(2) All branch circuit conductors shall be made up and/or spliced in such a manner as to provide a single conductor to be connected and/or installed to any electrical device screw terminal, such as the terminal(s) so designed and manufactured on receptacles, switches, and lighting fixtures.

Note: In a typical wiring installation where the branch circuit conductor and/or the grounded neutral conductor is required to be cut and/or have open ends at the device, the conductors shall be spliced in such a manner as to provide a pigtail to properly attach and/or install the branch circuit conductor and/or the grounded neutral conductor to the said device.

(3) The continuity of any branch circuit conductor and/or to include any identified grounded neutral conductor shall not depend upon device connections, such as lamp holders, and receptacles, where the removal of such devices would interrupt the continuity.

Article 110 (Requirements for Electrical Installations) is hereby amended adding the following new sections:

110.20 (Electrical Equipment Rooms and/or Closets)

(A) In all commercial buildings, industrial buildings, and residential buildings where vaults, transformers, electrical service equipment and sub feed service equipment are located and rated at eight hundred (800) amperes or more, or transformers rated at more than (200) KVA, shall be grouped and installed in an approved electrical closet and/or switchgear room so designed and designated for the purpose.

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(B) Such an electrical closet shall be for the exclusive use of the electrical equipment (see exceptions) and/or electrical system, and shall be so designed and constructed as to provide the required working space around and/or in front of all of the electrical equipment.

Exceptions:

1) Fire alarm or any other system install for life safety.

2) Systems installed in junction with lighting or H.V.A.C equipment for Energy Management.

110.29 (Remodeling and Upgrading Existing Materials)

(A) All existing commercial, industrial, and residential buildings, and tenant spaces that apply for a permit for remodeling purposes and/or additions to existing structures shall be in full compliance with all electrical codes and/or ordinances.

(B) If existing wiring systems, devices, materials, and installation methods are not in compliance with present electrical code and/or requirements, then said wiring, devices, materials, and installation methods shall be upgraded to present code and/or requirements as per the Village electrical inspector's approval.

(C)Remodeling as identified in this section shall be defined as the following:

(1) Remodeling of more than fifty percent (50%) of a ceiling area in a typical tenant space, building, structure, and/or residence.

(2) Remodeling of more than fifty percent (50%) of walls in a typical tenant space, building, structure, and/or residence.

(3) Remodeling of more than fifty percent (50%) of any service equipment in a typical tenant space, building, structure, and/or residence.

(4) Categorization of "areas" shall be interpreted as walls, ceilings, or service equipment within or associated with a typical tenant space, building, structure, and/or residence.

(D) For inspection purposes, compliance with code requirements will only pertain to areas as identified above that undergo remodeling for which a permit has been obtained.

(E) In a situation where a Village electrical inspector observes any electrical code violation in a location other than an area undergoing remodeling,

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where said violation may constitute a hazard or unsafe condition to any occupant or tenant, said violation shall be upgraded to present code requirements, as approved by the director of community development or his designee having jurisdiction.

Article 210 (Branch Circuits) is hereby amended by adding the following new section:

Article 210.14 (Built-In Appliances) All electrically operated built-in dishwashers, in-sink waste disposers and trash compactors shall be connected in either of two (2) ways:

(a) hard-wired with the use of electrical metallic tubing and a minimum of three-eighths inch (3/8 ") trade size flexible metal conduit, and said flexible conduit shall not exceed six feet (6') in length. Each electrically operated built-in dishwasher, in-sink waste disposer and trash compactor shall have an approved disconnecting means for the purpose of disconnecting the ungrounded conductors. The disconnecting means, as required in this section, shall be a minimum of twenty (20) ampere rated; or

(b) cord-and-plug connected with a flexible cord identified as suitable in the installation instructions of the appliance manufacturer. The flexible cord installation shall meet the requirements as set forth in Article 422.16 (Flexible Cords), herein.

Article 210.52 (E) (Outdoor Outlets) is hereby amended by adding the following new section:

210.52 (E) (4) (Switched Receptacles) All receptacles required by 210.52 (E) (1) through (E) (3) herein, shall be controlled by an interior wall switch located within three feet (3') of the door serving the area.

Article 210.70 (A) (2) (Additional Locations) is hereby amended by adding the following new section:

210.70 (A)(2)(d) (Outdoor Lighting Fixtures) A minimum of one switched weatherproof lighting fixture shall be installed on the exterior of all structures such as patios, balconies, sunrooms, and screened in porches, in residential dwellings, for the purpose of providing illumination in the immediate area of the entrance.

Note: The illumination, as prescribed in this subsection, shall be as determined by the Village electrical inspector.

Article 210.70 (A) (3) (Storage or Equipment Spaces) is hereby repealed in its entirety and replaced with the following new section:

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210.70 (A) (3) (Storage or Equipment Spaces) For attics, underfloor spaces, utility rooms, laundry rooms, walk-in closets, storage areas and basements, at least one (1) lighting outlet, controlled by a wall switch, shall be required. The location of said switching device shall be so installed as to be within three feet (3') of the entrance of the areas listed herein, opposite of a hinge side of door, or as otherwise approved by the Village electrical inspector.

Article 210.70 (A) (Dwelling Units) is hereby amended by adding the following new sections:

210.70 (A) (4) (Illumination in Basement Areas)

(1) Panelboards that are installed in basement areas shall have a minimum of one lighting fixture installed within three feet (3') of the panelboard cover.

(2) A minimum of one lighting fixture shall be installed within four feet (4') of the furnace and/or heating system that is installed in the basement area.

Note: Said lighting fixture shall be positioned or located to adequately provide illumination in front of any furnace or heating appliance where servicing of said appliance is necessary at removable manufactured service panels.

(3) A minimum of one lighting fixture shall be installed over any laundry tub or laundry equipment located and/or installed in a basement area.

Note: In installations where the lighting fixtures, as required above, are located in areas where the illumination is obstructed by ducts, beams, said lighting fixtures may require relocation, and/or additional lighting fixtures may be required as per the Village electrical inspector.

(4) A minimum of one lighting fixture shall be installed above or no more than three feet (3') from any fire suppression system.

210.70 (A) (5) (Three-Way and Four-Way Switch Locations) All rooms that have more than one entrance and/or exit to said room(s), such as hallways, kitchens, dining rooms, living rooms, and family rooms, shall have lighting fixtures, and/or a wall-mounted receptacle that is installed for general lighting purposes controlled by a three-way switching arrangement. A four-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 Village electrical inspector to require the four-way switching arrangement.

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Article 210.70 (C) (Other Than Dwelling Units) is hereby amended by adding the following new items:

(1) In all commercial and industrial buildings, a minimum of one night light shall be required for any office, warehouse area, and sales area, for entering or exiting the building.

Note: Where an office and/or warehouse area has more than one entrance and/or exit, night lights shall be installed throughout the building. Night lights shall be located throughout the building by the Village electrical inspector having jurisdiction. Selected lighting in bathrooms, showers, and locker rooms shall be connected to night light circuit (to be the same as emergency circuit).

Exception: Switched lighting fixtures may not be required providing sufficient illumination is maintained from un-switched lighting fixtures that are served from dedicated night lighting circuits. Said lighting circuit shall have a lock on device installed on the circuit breaker.

(2) All switching devices installed in any commercial and/or industrial structure shall be a minimum of twenty (20) ampere rated.

Article 225 (Outside Branch Circuits and Feeders) is hereby amended by adding the following new section:

Article 225.41 (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, IMC (intermediate metallic conduit) or PVC, schedule 40, conduit.

Article 230.2 (Number of Services) is hereby amended by adding the following new section**:**

230.2(F~~f~~): No single family detached or attached residential occupancy or property shall have more than one (1) service installed. ~~There shall be no exception made to this ruling without approval from the Schaumburg Electrical Commission~~.

Article 230.23(B~~b~~)~~:~~ (Minimum Size): is hereby repealed in its entirety and replace with the following new section:

230.23 (Minimum Size): All service conductors shall not be smaller than number three (#3) copper THW and installed in a minimum of 1¼-inch rigid heavy-wall galvanized steel conduit or other conduit systems as required by this code~~hereinafter stated in this ordinance~~.

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Article 230.44 (Cable Trays) is hereby deleted in its entirety and replaced with the following new section:

230.44 (Service Entrance Conduit Systems)

(1) All service entrance conductors shall be installed in rigid heavy wall or IMC galvanized steel conduit.

(2) All fittings, such as couplings, and connectors, employed for the service entrance conduit installation located between the electrical meter and electric panel shall be of the threaded type. Compression type fittings and/or set screw type fittings shall not be permitted and will not be accepted.

Exception: Where service entrance conduit systems are concrete encased, one compression type fitting may be utilized in the concrete encased conduit system.

Article 230.62 (Service Equipment - ~~General~~Enclosed or Guarded) is hereby amended by adding the following new sections**:**

232.62 (C) In buildings zoned as commercial or industrial, and in buildings that are zoned as residential (such as apartment complexes, daycare or nursing homes, condominiums, retirement centers, and the like) where vaults, transformers and/or distribution points are established throughout the various floors of the building, all such electrical equipment shall be grouped and installed in an approved electrical closet and/or electrical equipment room. Such closet and/or room shall be for the exclusive use of the electrical system, and shall be so constructed as to provide the required working space around all of the electrical equipment installed therein.

230.62 (D) The use of auxiliary gutters, wire ways, troughs, junction boxes, except utility supply company stub boxes, used in conjunction with underground services, and/or raceways as enclosures for service entrance conductors, or the tapping of service entrance conductors, is prohibited unless approved by the EPW department and the Village electrical inspector.

Article 230 (Services) is hereby amended by adding the following new sections:

230.73 (Main Service Disconnect Locations (Commercial & Industrial)) Shunt Trip: When a commercial or industrial building or structure is being, built, remodeled, or the main electrical service is being upgraded and depending on the location of the main service disconnect a shunt trip may be required and installed in a location per the village fire prevention bureau or the village electrical inspector.

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Article 230.79(Cc) (One-Family Dwellings): is hereby deleted in its entirety and replaced with the following new section:

230.79 (C) (One Family Dwelling) For a new one-family dwelling, the service disconnecting means shall have a rating of not less than two hundred (200) amperes. Regardless of the minimum number of circuit breakers or fusing devices that may be installed and/or required as noted in this chapter, there shall be a minimum of four (4) empty spaces provided in said panelboard to accept fully sized branch circuit breakers or fuse devices for future use.

Exception: In existing dwellings where an electrical permit is obtained for the purpose of remodeling, the existing electrical service and related equipment may not be required to be upgraded to two hundred (200) amperes, provided the existing electrical service and related equipment are adequate for the connected load.

Article 230.79(Dd) (All Others) is hereby deleted in its entirety and replaced with the following new section:

230.79 (D) ~~All Others~~: For other installations, the service disconnecting means, and/or electrical panel boards, shall have a rating of not less than one hundred (100) amperes.

Exception: Service equipment or subpanels Installed for special use, such as aerators, fountains, signboards, site lighting, U.P.S. or I.G. equipment associated with any computer system, may be permitted to be rated less than one hundred (100) amperes.

Article 230.-79 (Rating of Service Disconnections Means) is hereby amended by adding the following new section:

230.79 (E)(e) (**Branch Circuits in Panelboards (Breakers):** Panelboards shall not exceed forty-two (42) single-pole spaces. If additional panelboards are connected, at no time shall more than eighty-four (84) spaces be used without a main disconnecting means, and shall not exceed eighty (80) percent of the rating of the panel.

Article 230.91 (Location) is hereby amended by adding the following ~~a~~ new sentence to the end of the section:

When installing electrical equipment outside only the main service disconnect or metering sections that contain built in main disconnects will be accepted, however, the installation of service distribution sections outside will not be permitted.

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Article 240.24 (Location in or on Premises) is hereby amended by adding the following new section:

240.24 (G) (Public Panelboards) A public meter and public panelboard, and including the required number of branch circuit breakers or branch circuit fuse devices, as approved by the Village electrical inspector, shall be installed in a designated public area, in any apartment complex, type housing, townhouse complex, condominium, etc., that may require electricity to operate any electrical device, such as pumps, outdoor lighting fixtures, receptacles for general use, etc., and does not directly pertain to or encompass the immediate direct structure of an apartment, multi-type housing, townhouse, and/or condominium type units.

Article 250.24 (C) (Grounded Conductor Brought to Service Equipment) is hereby amended by deleting items (1) and (2), renumbering the remaining items, and adding the following items to the end of the article:

(3) All neutral conductors shall be equal in size to the service entrance conductor(s), sub-feed conductor(s), and/or the branch circuit conductor(s).

(4) Derating of any neutral conductor will not be an accepted practice and shall not be approved.

Article 250 (Grounding and Bonding) is hereby amended by adding a new section as follows:

250.87 (Conduit Installed Underground or Under Concrete Slabs) All underground conduit systems, such as rigid heavy wall galvanized steel conduit, intermediate metallic conduit, IMC or PVC conduit, shall have an insulated grounding conductor installed in each conduit system.

Exception: Service entrance PVC conduit(s) from a utility company transformer to a metering section or metering device is not required to have a grounding conductor installed in the conduit system(s).

Article 300.2. (Limitations) is hereby amended by adding the following new section:

300.2 (C) (Electrical Conduit Requirements)

1) All conductors that carry electrical current rated at fifty (50) volts or greater shall be installed in rigid heavy wall galvanized steel conduit, intermediate metallic conduit, electrical metallic tubing, or PVC conduit unless hereinafter stated in this chapter.

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Exception: Flexible metal conduit and liquid-tight, flexible metal conduit may be used, but shall not exceed six feet (6') in length, shall contain a green in color, or green with yellow stripe, insulated grounding conductor, and shall be approved for use and location by the electrical inspector having jurisdiction.

2) All conduit systems that are exposed to any type of weather condition shall be rigid heavy wall galvanized steel conduit or (IMC) intermediate metallic conduit.

3) All wiring systems installed within and/or connected to any building and/or structure shall be copper. All references to wiring or conductors other than copper shall be deemed as deleted from this code.

Article 300.6 (Protection against Corrosion and Deterioration) is hereby amended by adding the following new sections:

300.6 (E) (Deterioration of Electrical Equipment)

(1) All incoming electrical service entrance equipment, and to include any existing switchgear, bussing detail, branch circuit panelboards, and/or parts thereof, and to include any electrical equipment that is not mentioned in this section, shall be completely free from any corrosion, rust, and/or deterioration of any type.

(2) If, in the opinion of the Village electrical inspector, there is evidence of any electrical equipment and/or parts thereof that are observed to be corroded, rusted, deteriorated, and/or of an unsafe nature, said electrical equipment, switchgear, and/or panelboards shall be completely replaced with electrical equipment that is manufactured in new condition.

300.6 (F) (Temporary or Abandoned Wiring) All temporary wiring and/or abandoned wiring, conductors, conduit systems, raceways, junction boxes, electrical devices, electrical materials and/or equipment, shall be completely removed prior to a final electrical inspection.

Article 300.18 (Raceway Installations) is amended by adding the following new subsection:

300.18 (C) (Electrical Conduit Support for Rooftop Installations)

(1) All conduit systems that are installed upon roofs and the like shall be supported at intervals not to exceed seven feet (7').

(2) All conduit clamps and/or straps shall be galvanized steel or cast iron.

(3) No service entrance conduits shall be installed on rooftops.

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(4) All abandoned or unused rooftop equipment, condensers, furnaces, air handlers, ventilators and any associated electrical fittings and/or devices shall be removed and disposed of properly.

Article 310 (Conductors for General Wiring) is hereby amended by adding the following new section:

310.11 (Temporary and Abandoned Wiring) All temporary and/or abandoned wiring systems, raceways, conduit systems, boxes, metering devices, and/or service entrance materials shall be removed from any building and/or premises, and properties prior to final inspection.

Article 310.15 (A) (General) is hereby amended by adding the following new section:

310.15 (A)(4) (Branch Circuit Conductors) All branch circuit conductors, and to include neutral conductors or grounding conductors, that are installed within and/or associated with any commercial and industrial building, and to include any parking structure, detached structure, and outline lighting, shall be a minimum of number 12 AWG gauge copper wire size.

Article 312.5 (Cabinets, Cutout Boxes, and Meter Socket Enclosures) is amended by adding the following new section:

312.5 (D) All meters, main disconnects, and panelboards that are wall-mounted to concrete, masonry or conductive surfaces shall have a minimum of one-half inch (½") of plywood installed behind main disconnect panelboards for the purpose of supporting and mounting equipment. No exceptions to this ruling will be allowed.

Article 314.23 (Supports) is hereby amended by adding the following new section:

314.23 (I) (Junction Boxes)

(1) All panelboards, junction boxes, pull boxes, splice boxes, troughs, wire ways, and raceways shall be mounted and/or secured to a permanent member of the building structure or by other means, as approved by the Village electrical inspector.

(2) Electrical equipment, panelboards, junction boxes, pull boxes, troughs, wire ways, raceways, and/or conduit systems shall not be mounted on wallboard (drywall) as a sole support of said electrical equipment or materials as noted above, shall not be installed as to be suspended. Said materials, as noted, shall not be installed as to be supported by the means of drywall, wallboard, and ceiling tile.

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Article 314.27 (C) (Boxes at Ceiling-Suspended (Paddle) Fan Outlets)) is hereby amended by removing the following words "spare, separately switched, ungrounded" from the first sentence of the second paragraph with no replacement.

Article 320 (Armored Cable: Type AC) is hereby deleted in its entirety without replacement.

Article 330 (Metal-Clad Cable: Type MC) is hereby deleted in its entirety without replacement.

Article 332 (Flat Cable Assemblies: Type FC) is hereby deleted in its entirety without replacement.

Article 334 (Non-metallic-Sheathed Cable: Types NM, NMC and NMS) is hereby deleted in its entirety without replacement.

Article 338 (Service-Entrance Cable: Types SE and USE) is hereby deleted in its entirety without replacement.

Article 352.30 (Securing and Supporting) is hereby amended by adding the following new section:

352.30 (C) (PVC at Grade or Under Grade Slab) All PVC tubing installations shall be firmly attached and/or supported, to prevent movement in concrete pours, at intervals not to exceed seven feet (7').

Article 394 (Concealed Knob-and-Tube Wiring) is hereby deleted in its entirety without replacement.

Article 398 (Open Wiring on Insulators) is hereby deleted in its entirety without replacement.

Article 406.4 (D) (Replacements) shall be amended by adding the following new Item:

(7) (Increasing Number of Duplex Outlets) In existing commercial or industrial buildings, the village electrical inspector may order the installation of additional duplex outlets in order to prevent the proliferation of the use of extension cords or other devices that create an over loading of existing duplex outlets.

Article 408 (Switchboards, Switchgear, and Panelboards) is hereby amended by adding the following new sections:

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408.8 (Split Buss Panelboards) Split buss or multiple service disconnects in panelboards are not accepted and will not be approved.

Exception: Switchgear so designed and approved as sequence switching, and said fused switching devices or circuit breakers that are so constructed and installed in a common enclosure, does not pertain to this section.

Exception: Panelboards installations that may contain split bussing for the purpose of contactors or backup generators may be exempt from this section.

408.9 (Panelboard Enclosures Used as a Junction) Panelboard enclosures, switchgear enclosures, and service metering devices shall not be used as junction boxes, pull boxes, and splicing enclosures, etc., and will not be accepted for such use.

Exception: Panelboard enclosures, and switchgear enclosures, that may contain ground fault, arc fault interruption devices and time clock's that may require splicing of the neutral or switch leg conductors shall be exempt from this section. Panelboards that are changed or updated may have splices installed only for the means of extending to the branch circuit breaker and approved by the Village electrical inspector.

Article 408.36 (Overcurrent Protection) is hereby amended by adding the following new section:

Article 408.36 (E) (Panelboard Rating and Circuit Breaker and/or Fuse Capacity) All circuit breakers shall be fully sized in dimensions and for proper insertion into the panelboard, as set forth by the switchgear and panelboard manufacturer and as listed by a recognized testing laboratory. Substitution of two (2) or more circuit breakers in a space so designed or previously occupied by a lesser number shall not be approved and will not be accepted.

Article 408.54 (Maximum Number of Overcurrent Devices) is hereby repealed in its entirety and replaced with the following new section:

408.54 (Tandem Circuit Breakers)

(A) Tandem (duplex), mini-circuit breakers are not permitted and will not be accepted or any installation regardless of the type of construction.

(B) All circuit breakers shall be fully sized in dimensions for proper insertion into the panelboard, as set forth by the switchgear or panelboard manufacturer and as listed by a recognized testing laboratory.

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~~(A)~~(C) Substitution of two (2) or more circuit breakers in a space so designed or previously occupied by a lesser number shall not be approved and will not be accepted.

Article 410 (Luminaires, Lamp holders, and Lamps)~~:~~ is hereby amended to add the following new section:

Article 410.9 (Parking Lot and Site Lighting Systems)

(A) Parking lots, alleyways, and driveways related to apartment type complexes, car sales, shopping and/or sales centers, multi-family type housing, or any other parking areas not mentioned in this subsection shall be illuminated as described in chapter 151 of this code. The locations and types of pole and luminaries; and light levels and photometric criteria, shall be as described in chapter 151 of this code.

(B) All parking lot, driving lane, or streetlight supporting structures, poles, heads, lamps, glass and/or lens, wiring, and/or other related devices shall be properly maintained in an approved and safe condition and in strict conformity with all electrical regulations, as adopted by the Village of Schaumburg and as acceptable by the director of community development, or his designee having jurisdiction or judgment.

(C) All parking lot pole handholds, electrical junction boxes, and/or electrical pull boxes, shall have approved covers installed at each location, and said cover(s) shall be properly maintained for the intended use and shall not admit stormwater.

(D) All parking lot pole anchor bolts shall have approved covers installed, and said covers shall be properly secured in place.

Exception: Aluminum parking lot poles, and/or mast arms, may be exempt from painted surfaces.

(E) Paint shall be equal to an enamel base and contain rust preventers. Paint color(s) shall be compatible with the existing color and/or as approved by the Village electrical inspector.

(F) In the event that any parking lot lighting pole, supporting structure, and/or wiring system is found to be unsafe or is not properly maintained, as determined by the director of community development, or his designee, it shall be the full responsibility of the landlord, leasing agent, owner, and tenant, to repair or replace as deemed necessary to obtain compliance as determined by said code official.

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(G) It shall be the full responsibility for any landlord, leasing agent, owner, tenant, etc., to obtain a structural engineer, as deemed necessary by the director of community development or his designee, to examine or evaluate any parking lot, drive lane, or street lighting standard, pole, or related structure where found to be questionably unsafe by said code official.

(H) A full written report shall be submitted to the community development department for review and record from any structural engineer who examines or is involved with evaluation of any parking lot, drive lane, or street lighting standard, pole, or related supporting structure, as requested by the director of community development or his designee.

(I) Said examination and written report shall be at the expense of any landlord, leasing agent, owner, and tenant, who is owner of, related to, or associated with, any parking lot, drive lane, or street lighting system.

(J) Any post or supporting structure which has been displaced, through the settling of its foundation or as the result of an accident, shall be restored to its original upright position.

(K) All revised, replaced, or new parking lot, drive lane, or street lighting standards (poles) shall be grounded.

(L) An approved grounding conductor shall be installed in each conduit system from the electrical panelboard where the circuits originate to said lighting standard (light pole).

(M) Said grounding conductor shall be insulated green or green with yellow stripe in color and shall not be less in size than the branch circuit conductor(s) serving any parking lot, drive lane, street lighting pole or system.

(N) In addition to the grounding conductor as required above, an approved grounding electrode shall be installed at each parking lot, drive lane, or street lighting standard (pole) location. Said grounding electrode shall be installed as required by the 2014 NEC, Article 250.

(O) All grounding electrodes shall not be less than ten feet (10') in length and five-eighths inch (5/8 ") in diameter. All grounding electrodes shall be copper or copper clad.

(P) An inspection of all grounding electrodes shall be required and shall be approved by the Village electrical inspector, prior to the placement of any concrete.

Article 410.36 (B) (Suspended Ceilings) is hereby repealed in its entirety and replaced with the following new section:

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Article 410.36 (B) (Means of Support) Lighting fixtures 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.

~~**410.36(b)** Means of Support:~~

~~Lighting fixtures 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.~~

~~All electrical subpanels, sub feed conductors, and the like, shall be a minimum of one hundred (100) ampere rated in all commercial and industrial installations.~~

~~All subpanels installed on residential property to serve attached or detached garages shall be a minimum of 40-amp rated.~~

~~Exception: Service equipment or subpanels Installed for special use, such as aerators, fountains, signboards, site lighting, U.P.S or I.G equipment associated with any to computer system, may be permitted to be rated less than one hundred (100) ampere.~~

~~Minimum size: Service-entrance conductors shall not be smaller than number three (#3) gauge AWG THW copper conductors.~~

Article 410 (Luminaires, Lamp holders, and Lamps) is hereby amended by adding the following new section:

410.57 (Fuse Protection of Parking Lot Lighting Systems)

(A) Each new, revised, or replaced parking lot lighting fixture, street lighting fixture, and/or electric lamppost shall be in line fuse protected.

Note: Where more than one fixture on a parking lot pole is installed, each fixture shall be fused at the base independently.

(B) The fuse holder shall be bussman in line, type HEBA or equal, with an approved manufactured rubber cover "boot" to be inserted over the crimped area of the fuse holder. The rubber cover "boot" shall be an approved type, manufactured and designed for the type of fuse holder installed.

(C) The in line fuse holder shall be installed (located) in the hand hole of each pole of said lighting system.

(D) Lighting fixtures that may contain an internal fuse holding device shall not be approved as the disconnecting means and/or recognized as the proper fuse protection device of said lighting fixture(s).

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~~**Article 604 Manufactured Wiring Systems:**~~

~~LISTED MANUFACTURED WIRING SYSTEMS (LIGHTING ONLY) are acceptable in the following installations and shall be installed per manufacture specifications.~~

~~(1) Lighting installed within display shelving units used for the purpose accenting product.~~

~~(2) Lighting installed in display type cases that are listed as an assembly.~~

~~(3) Lighting installed for decorative or ambiance purposes.~~
~~NOTE: The installation of any Manufactured Wiring System to serve as main lighting for any building or structure shall have approval from the Schaumburg Electrical Commission before installation.~~

Article 695.3 (D) (On-Site Generator as Alternate Source) is hereby amended by adding the following new first sentence:

In buildings where emergency generators are required by government agencies, the fire pump shall be required to be connected to the emergency generator system.

Article 700.12 (General Requirements) is hereby amended by adding the following new sections:

700.12 (G) (Special Uses Requiring Emergency Generator Power)

(1) An on-site generator shall be the source of the exit and emergency lighting system for all apartment buildings, apartment type complexes, hotels, motels, condominiums, nursing homes, retirement type complexes, and offices, where the construction of said structure exceeds four (4) or more floors or four (4) or more levels in height above grade.

Note: All ceiling mounted lighting fixtures and/or exit signs used for emergency lighting from a generator source of power shall contain an in line type fuse located in the first junction box serving said fixture.

Note: Floors or levels as noted above shall be counted to include floors or levels constructed for use as boiler room and mechanical room.

(2) The generator installation and related equipment emergency wiring systems, and the like, shall also be in full compliance with all code requirements as indicated in this chapter, and to include any reference to article 700 of the 2014 NEC and the local code requirements herein. Fuel source for emergency generator may be of diesel fuel, propane type fuel, or public utility natural gas.

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(3) An approved lockable valve assembly shall be installed on the piping system and shall be completely operable from floor level. Where propane type fuel or public utilities gas fuel is employed, an approved detection system shall be installed within the generator room for the purpose of automatic fuel shut down in the event of gas leakage. An approved alarm device shall be installed that will indicate activation of the detection system. Approved metal signs shall be installed and properly labeled to identify the type of fuel employed and fuel source shutoff valve to remain in the "open" position.

(4) The generator designated as the source for the emergency lighting system for all apartment buildings, apartment type complexes, hotels, motels, condominiums, nursing homes, retirement type complexes, and offices, where the construction of said structure exceeds four (4) or more floors or four (4) or more levels in height above grade shall not be installed out of doors of the main building structure. The generator shall be located in a separate room that is designated for the generator and emergency equipment, such as transfer switches, disconnects and panelboards only.

(5) Generators so designated for the source of emergency lighting systems and housed in approved weatherproof type enclosures may be permitted for installation out of doors only for existing apartment buildings, apartment type complexes, condominiums, retirement centers, and nursing homes.

(6) All emergency generators, utilized for emergency lighting and exiting of buildings requiring generators, shall be exercised or tested a minimum of once each week.

(7) A monthly maintenance program is required for the generator or each battery system, control ignition, auxiliary, and all other related components (per manufacturer) that serve said generator.

Note: All maintenance records shall be located adjacent to each generator and made available to any authority having jurisdiction.

700.12 (H) (Emergency Generator Rooms)

(1) All rooms that contain a generator set for the purpose of supplying emergency power for illumination and/or other electrically operated apparatus, and/or devices, for emergency purposes, shall be a minimum of two (2) hour rated construction, and said rooms shall contain a fully functional, operating combination smoke and heat detection system.

(2) The designated emergency generator room shall contain only equipment that is part of, or associated with, the emergency generator system, with the exception of fire pump(s) and fire pump controller.

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Article 720.11 (Mechanical Execution of Work) is hereby repealed in its entirety and replaced with the following new section:

Article 720.11 (Mechanical Execution of Work)

(A) Circuits operating at less than 50 volts shall be installed in a neat ad workmanlike manner. Cables shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use.

(B) All conductors installed for low voltage applications under fifty (50) volts such as doorbells, door lock release devices, thermostat control, control wiring in general, music systems, and communication systems, shall be installed in electrical metallic tubing, rigid heavy wall galvanized steel conduit, and/or intermediate metallic conduit, in all areas that are not accessible, or in areas where said low voltage installations may be subject to mechanical damage or are located exposed within ten feet (10') from the surrounding finished floor level.

Note: All abandoned or unused low voltage cable shall be removed.

(C) Residential only: Low voltage wiring used for the installation of music systems, telephone systems, and to include conductors used for the purpose of receiving communications, may be exempt from subsections (A) and (B) of this section.

(D) All ends of each conduit system shall have a bushing or coupling installed for the purpose of providing protection of conductors in the event of conductor replacement.

(E) In installations where said low voltage wiring is not required to be installed in a metal raceway, as noted in this section or in other sections as recognized in this chapter, the wiring systems shall be supported to a permanent part of the building structure by insulated staples, nylon tie wraps, and approved metal supporting devices, at intervals not to exceed every five (5) to seven feet (7'), unless hereinafter stated in this chapter.

(F) All low voltage conductors shall be so installed as to "run" ninety degree (90°) bends to building walls and/or perpendicular to building walls.

Note: Low voltage wiring installations as noted in this chapter shall not be installed to be supported and/or laying on the ceiling grid systems and ceiling tile.

~~(Ord. No. 13-001, passed 1-8-2013)~~

~~§ 152.03 - RESIDENTIAL OCCUPANCIES.~~

~~The definition of residential type occupancy shall include dwellings such as single-family dwelling, apartment unit(s) and/or apartment complex, condominium(s), multi-family type construction, townhouses, and to include any attached or detached buildings and/or structures that are constructed on said premises, and that are not of a commercial and/or industrial use. (Ord. No. 13-001, passed 1-8-2013)~~

Chapter 152 (Electrical Code) is hereby amended by adding the following new article:

General Requirements

§ 152.~~??~~61 - ELECTRICAL PERMIT REQUIRED.

(A) ~~(A)~~ An electrical permit is required and shall be obtained from the community development department prior to any electrical installation, alteration, or repair of any electrical wiring system, materials, devices, equipment, apparatus, and/or to include the repair of any existing electrical wiring system, material, device, equipment, and apparatus in the Village ~~of Schaumburg~~.

(B) ~~(B)~~ It shall be the full responsibility of any person, firm, corporation, and establishment obtaining an electrical permit, to be in full compliance with all code related.

(C) Permit Fee: Where an electrical installation has been started prior to the issuance of a permit for such work, the established permit fee per §41.01, et seq. of this code for such work, shall be doubled.

~~Note: Permit Fee: Where an electrical installation has been started prior to the issuance of a permit for such work, the permit fee for such work shall be increased per Section 41.01, "Village Fee Schedule".~~

(D) ~~EXCEPTION (RESIDENTIAL ONLY)~~ Permit Required: No electrical equipment shall be installed, repaired, or altered, except upon a permit first issued by the community development department authorizing the installation, alteration or repair of electrical equipment ~~except for those exceptions as noted below for residential occupancies only:~~.

Exception: For single family detached and attached residential occupancies only, permits are not required for the following:

(1) Low voltage wiring which does not exceed fifty (50) volts.

(2) Communication wiring such as telephone wiring and security systems.

(3) Receptacles and snap switches which are being replaced without change or addition to existing wiring.

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(4) Lighting fixtures which are being changed without increase of current circuit size.

~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.??~~63~~ - DRAWINGS REQUIRED FOR ELECTRICAL INSTALLATIONS.

(A) All applications for an electrical permit to install, repair, and alter any electrical wiring systems, devices, equipment, and apparatus shall include drawings indicating the minimum following information:

(1) The number of power consuming devices (receptacles), lighting fixtures, switches, etc., connected to a new circuit and/or an existing circuit.

(2) The number of circuits proposed to be installed.

(3) The wire gauge and the type of wire proposed for the installation.

(4) The number of conductors that will be installed in a new conduit system and/or an existing conduit system when the total wiring installation is complete.

(B) If a new electrical service is proposed to be installed or an existing electrical service is proposed to be upgraded, the following information must be submitted:

(1) The complete electrical service distribution system which shall include the following:

(a) The size of the service conductors.

(b) The type of insulation on the service conductors.

(c) The size and type of the service conduit.

(d) The size and rating of the service main disconnect and the panelboard.

(e) The size of the grounding conductor, size and type of the conduit that will be used to enclose the grounding conductor, and the location of the grounding conductor attachment (street side of the incoming water service).

(f) The location(s) of all electrical service equipment, transformers, and/or generators.

~~(Ord. No. 13-001, passed 1-8-2013)~~

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§ 152.64 - FIRE DAMAGE REQUIREMENTS.

(A) Three (3) complete and detailed sets of drawings shall be submitted to the community development department indicating the minimum following information:

Note: If one hundred twenty (120) volt battery backup smoke detectors are not existing, units shall be noted on drawings and shall be installed before final approval.

(1) The number of power consuming devices (receptacles), lighting fixtures, and switches that will be replaced or upgraded to a new circuit and/or an existing circuit.

(2) The number of circuits proposed to be installed or replaced.

(2) The wire gauge and the type of wire proposed for the replacement or installation.

(3) The number of conductors that will be installed in a new conduit system and/or an existing conduit system when the total wiring installation is complete.

~~(B)~~ (B) If a new electrical service is proposed to be installed or an existing electrical service is proposed to be upgraded that is associated or related to fire damages, ~~the following information must be submitted:~~

~~(1)~~ ~~T~~the complete electrical service distribution system, which shall include the following must be submitted:

~~(a)~~1) The size of the service conductors.

~~(b)~~2) The type of insulation on the service conductors.

~~(c)~~3) The size and type of the service conduit.

~~(d)~~4) The size and rating of the service main disconnect and the panelboard.

~~(e)~~5) The size of the grounding conductor, site and type of the conduit that will be used to enclose the grounding conductor, and the location of the grounding conductor attachment (street side of the incoming water service).

~~(f)~~6) The location(s) of all electrical service equipment, transformers, and generators that are associated with the fire damage(s), and itemized material or equipment to repair or replace any associated equipment.

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(C) The Village electrical inspector will ~~shall be required to~~ inspect all materials and installations that are directly related or directly associated with fire damages and fire repairs only.

(D) In the event the Village electrical inspector observes any violation(s) that may not be related or associated with fire repair and/or fire damages and said violation(s) may be subject to safety of the occupant, said violation(s) shall be required to be corrected as determined ~~stipulated~~ by the electrical inspector.

(E) The following are guidelines to aid the Village electrical inspector in reviewing violation(s) that may not be directly related or associated to fire damages or fire repairs, and yet shall be the responsibility of the homeowner, tenant, or landlord to correct violations to assure compliance with adopted code requirements.

~~(Ord. No. 13-001, passed 1-8-2013)~~

Chapter 152 (Electrical Code) is hereby amended by adding the following article:

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Other Local Requirements – Residential Occupancies

§ 152.??~~04~~ - ZONED RESIDENTIAL RENTAL PROPERTIES AND HOME DAYCARE PROPERTIES.

All home daycare and rental properties located within the corporate boundaries ~~of the Village of Schaumburg~~ and zoned as residential shall be required to be in conformance with this chapter ~~the most recently adopted National Electrical Code and village adopted electrical codes~~ and any standalone ordinances pertaining to same ~~as listed below~~. A registered electrical contractor shall obtain a permit to upgrade, repair or correct any code violations as listed in herein.

Exception: The owner/operator of a home daycare property and the owner of a residential rental property may replace light switches, outlets and receptacles on a one for one basis without the hiring of a registered electrical contractor, to include the replacement of older receptacles with ground fault circuit interrupter (GFCI) protected receptacles.

(A) Rental properties:

(1) Furnaces shall be checked and cleaned and certified by a licensed heating, ventilation and air conditioning (HVAC) contractor to be in safe working condition.

(2) All receptacles in bathrooms and above kitchen countertops shall be ground fault circuit interrupter (GFCI) protected.

(3) All painted over receptacles and switches shall be replaced.

(4) Smoke detectors shall be installed on each level of a home, in each bedroom and within fifteen feet (15') of all bedrooms. Smoke and carbon monoxide detectors shall be installed according to information provided in the Illinois Carbon Monoxide Alarm Detector Act.

(5) Outside weatherproof (WP) receptacles shall be GFCI protected, and shall have a listed "extra duty" outlet box hood (in-use cover).

(6) All clothes closet lights shall be surface mounted or a recessed fluorescent or LED fixture with a completely enclosed lamp.

(B) Home daycare properties:

(1) Furnace shall be checked and cleaned and certified by a licensed HVAC contractor to be in safe working condition.

(2) All receptacles in bathrooms and above kitchen countertops shall be GFCI protected.

(3) Smoke detectors shall be installed on each level of a home, in each bedroom and within fifteen feet (15') of all bedrooms. Smoke and carbon monoxide detectors shall be installed according to information provided in the Illinois Carbon Monoxide Alarm Detector Act.

(4) Shock protectors shall be installed in all unused openings of all receptacles in rooms occupied by children.

(5) Any outside WP receptacle ~~on a deck or patio subject to use by children~~ shall be GFCI protected, and shall have a listed "extra duty" outlet box hood (in-use cover).

Chapter 152 (Electrical Code) is hereby amended by adding the following article:

Administration of Electrical Code

§ 152.??~~65~~ - SUPERVISING BUILDING AND CODE REGULATIONS. ~~ENFORCEMENT.~~

The Village building official or village electrical inspector supervising such enforcement of the electrical codes, ordinances, addendum, and/or amendments as ~~required by the Electrical Commission of the Village of Schaumburg and as~~ adopted by the Village ~~of Schaumburg~~, is responsible for interpreting the requirements and/or rules, for giving approval of wiring methods, devices, equipment, materials, and methods of installations. ~~and for granting special permission deliberated in a number of the requirements and/or rules.~~

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~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.~~66~~?? ~~–~~ ENFORCEMENT OF ELECTRICAL REGULATIONS ~~DEFINED~~.

~~Definition: Electrical regulations related to all buildings and/or structures for the purpose of the installation of electrical wiring systems, electrical equipment, electrical materials, devices, apparatus, and appliances as recognized in all ordinances as adopted by the Village of Schaumburg.~~

(A) It shall be unlawful for any person, company, or and corporation, to sell, offer for sale, give away gratis, install, alter, repair or use any electrical wiring, device, material, equipment, and appliance intended for use in the Village does not conform to the standards set forth in the codes and/or ordinances as adopted by the Village.

~~(A)~~(B) The installation of all electrical wiring, devices, materials, and electrical equipment, as provided for and as recognized in the electrical code, ~~as adopted by the Village of Schaumburg,~~ shall be done in strict accordance with all ~~the~~ electrical regulations herein ~~of the electrical codes and/~~or standalone ordinances ~~as~~ adopted by the Village ~~of Schaumburg~~.

~~(B)~~(C) The Village electrical inspector ~~and/or the electrical inspector(s) of the Village of Schaumburg~~ shall administer the electrical regulations of the codes and/or ordinances as adopted by the Village ~~of Schaumburg~~.

~~(C)~~(D) The electrical regulations ~~of the codes~~ shall not be construed to relieve from or lessen the responsibility of any person owning, operating, selling, offering for sale or installing any electrical wires, appliances, apparatus, construction, or equipment, for damages to anyone injured by any defect therein by reason of the inspection authorized herein, or by any defect therein by reason of the inspection authorized herein, or the certificate of inspection issued by the community development department; nor shall the Village ~~of Schaumburg~~ be held liable for any damages resulting from the enforcement of the electrical regulations ~~of the electrical codes and/or ordinances, as adopted by the Village of Schaumburg~~.

(E) In all cases where any action is taken by the Village electrical inspector ~~and/or the electrical inspector(s)~~ to enforce the provisions of any of ~~the sections, paragraphs, and chapters contained in~~ the electrical regulations ~~of the codes and/or ordinances~~, it shall be done in the name of and on behalf of the Village ~~of Schaumburg~~, and the Village electrical inspector in so acting for the Village ~~of Schaumburg~~ shall not be considered ~~render himself~~ liable for any damage that may accrue to persons or property as a result of the Village electrical inpsector's ~~his~~ duties~~,~~.

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~~(D)~~(F) ~~and a~~Any legal action ~~suit~~ brought against the Village electrical inspector as a result of performing the duties assigned by the Village ~~and/or the electrical inspector by reason thereof~~ shall be defended by the Village ~~of Schaumburg~~.

~~(E)~~(G) The electrical regulations ~~of the codes and/or ordinances~~ may be modified or waived by special permission of the Electrical Commission in particular cases where such modification or waiver is specifically permitted, or in particular cases where advancement in the technology of electricity makes such modification or waiver advisable in the best interest of ~~the people of~~ the Village ~~of Schaumburg~~ as described in the Appeals section of this chapter. Such "special permission" shall in all cases be obtained from the ~~e~~Electrical ~~c~~Commission, ~~so representing on behalf of the Village of Schaumburg,~~ in writing, prior to the commencement of installation of any electrical wiring, devices, materials, and equipment, and in accordance with the Appeals section of this chapter.

~~(F)~~(H) The Village electrical inspector~~(s)~~ shall have the power to enter any building or premises at any reasonable hour in the discharge of the Village electrical inspector's ~~their~~ duties, and ~~it shall be competent for them,~~ when necessary, to order the removal of ~~remove~~ any existing obstructions which may prevent a complete and thorough inspection of any electrical device, material, wiring, and equipment; and it shall be unlawful for any person to interfere with ~~them in~~ the performance of the Village electrical inspector's ~~of their~~ duties.

~~(G)~~(I) Whenever, in the opinion of the director of community development or an authorized ~~his~~ designee, it shall be necessary to call upon the Village police department ~~of police~~ for aid and assistance in carrying out or enforcing any of the provisions of the electrical regulations ~~codes and/or ordinances as adopted by the Village of Schaumburg, governing the inspection of electrical wiring devices, material, and equipment~~, the director of community development ~~he~~ shall have the authority to do so, and it shall be the duty of any member of the polilce department ~~of police, when called upon by said director of community development or his designee,~~ to act according to the instructions of and to perform such duties as may be required by the ~~such~~ director of community development or an authorized ~~his~~ designee ~~in order to enforce or put into effect the provisions of the electrical codes and/or ordinances relating to the inspection of electrical wiring, devices, material, and equipment~~.

~~(A) The electrical inspector who may be designated, and who is under the direction of the director of community development or his designee shall have full police enforcement and shall have the right to arrest any person, firm, and corporation, who violates any of the electrical regulations of the electrical codes and/or ordinances as adopted by the Village of Schaumburg.~~

~~(H)~~(J) No landlord, homeowner, person leasing space and/or property, individual person, or electrical contractor, etc., shall install any electrical wiring, material, devices, and equipment in any building or structure for which an electrical permit is required, until such permit has been secured. In case any work is begun on the installation, alteration, repair of said electrical equipment, or the installation, alteration, repair of said electrical equipment in any building or structure without a permit authorizing the same being first issued ~~therefore~~, or the aforesaid installation is being made in violation of the electrical regulations~~codes and/or ordinances as adopted by the Village of Schaumburg~~, the Village ~~senior~~ electrical inspector ~~and/or the electrical inspector(s)~~ shall have the authority to stop such work at once, and to order any and all person(s) engaged therein to stop and desist ~~there from~~ until the proper permit is secured.

§ 152.?? – APPEALS.

(A) In the event an electrical permit is denied and or there is a request for an appeal relative to the application, interpretation, order, determination or decision of the Village electrical inspector regarding the village's adopted codes, or a waiver or modification to the electrical regulations by special permission, the applicant shall have the right to file for an appeal.

(B) An application for appeal shall be based on a claim that the true intent of this code or other regulations legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed.

(C) The appeal process would begin with a written appeal detailing the basis of the appeal. It shall be filed with the director of community development, who will set it for a preliminary hearing with the Village electrical inspector, the director of community development and the applicant. If requested by the director of community development, a representative of the village attorney's office may be present as well.

(D) In the event the applicant is not satisfied with the preliminary hearing, the applicant may further appeal to the Electrical Commission. Once a second written appeal is made, a public hearing shall be set by the community development director, or an authorized designee, before the Electrical Commission within a reasonable period of time.

(E) Written notice of the hearing will be provided to the applicant. At the hearing, evidence shall be received from the applicant, village staff and any other interested party. The applicant shall provide evidence which demonstrates that the true intent of this code or other regulations legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed.

(F) The Electrical Commission shall recommend granting or denying the appeal to the village board according to §31.027 (D) of this code, however, the granting of the appeal will not endanger the public health, safety and welfare and will result in a

standard of construction which is at least as strict as that required by the existing codes. No appeal may be granted without final action by the village board.

§ 152.??~~53~~ - INSPECTION REQUIREMENTS.

(A) All electrical installations, including remodeling and/or renovation of electrical systems in any structure, or alterations of equipment, materials, and/or devices, shall be inspected before any of the electrical installation, repairs, and/or alterations is concealed.

(B) If any electrical equipment, material, and/or devices are found to be unsafe and/or not in compliance with all code requirements, addendum, and amendments, as approved by the Village electrical inspector, then said equipment, materials, and/or devices shall be upgraded and/or reinstalled, as necessary, and the required inspections shall be performed before any concealment and/or backfill.

(C) Any person, firm, company or corporation shall notify the Village electrical inspector or his duly authorized deputy twenty-four (24) hours before the required electrical inspection.

(D) The Village electrical inspector or his duly authorized deputy is therein empowered to remove, and/or cause to be removed, from said building and/or premises any material that might interfere with a thorough inspection. Said removal shall be at owner, tenant, and/or landlord's expense.

(E) After wires are drawn in the conduit and properly spliced, it shall be the duty of the person, firm, company or corporation to notify the Village electrical inspector or his duly authorized deputy, who shall inspect such work within twenty-four (24) hours of such notice being given.

(F) The Village electrical inspector or his duly authorized deputy shall issue a final certificate of approval after the completion of installation of all wiring or all apparatus, if said work is found to be in full compliance with the terms of this code and with the rules adopted.

(G) It shall be unlawful to use or turn on power into, or induce any electric current to flow through, any wires or equipment hereafter installed for which a certificate has not been issued. The public utility company shall not be permitted to activate a service unless the certificate has been issued.

(H) The foregoing does not restrict the issuance of a temporary certificate by the electrical inspector or his duly authorized deputy for the use of electricity for construction purposes.

~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.??~~68~~ - PERMITS; GENERAL.

(A) No electrical equipment, materials, devices, apparatus, and the like, shall be installed, repaired, or altered, except upon an electrical permit first being issued by the community development department authorizing the installation, alteration, or repair of electrical equipment, materials, devices, and/or apparatus.

Notice: In any case when ~~whereas~~ an electrical permit is waived because of an exception, as recognized by the village board, or when ~~whereas~~ a fee has been paid for services rendered to a department of the municipality, the electrical regulations shall continue to be enforced, and all electrical installations, materials, devices, and apparatus shall be in full compliance with all electrical regulations~~codes and/or ordinances as adopted by the Village of Schaumburg~~.

(B) Where an electrical installation has been started prior to the issuance of a permit for such work, the normal permit fee, as specified in §41.01, et seq., ~~required by this section~~, shall be doubled.

(C) Where an electrician or electrical contractor is found doing electrical work without a permit on two (2) ~~three (3)~~ separate occasions in one (1) calendar year, a hearing shall be held by the ~~electrical inspector and the e~~Electrical Ce~~c~~ommission, at which time the permit privileges of said electrician or electrical contractor may be suspended for a period of time not to exceed one (1) year. ~~The members of the electrical commission shall be present at such hearings and shall act as advisors to the electrical inspector in determining what course of action shall be taken.~~

(D) The community development department shall issue permits for such installation and alteration of electrical equipment in all cases where application for such permit shall be made in accordance with the rules and regulations applicable thereto, and as required throughout any section(s) of this chapter; provided, however, that no permit shall be issued for installing or altering by contract electrical equipment unless the person applying for such permit is registered, as required in this chapter~~section~~, or is owner or occupant of a residential occupancy. A registered electrical contractor shall obtain a permit to install all new installations in commercial and industrial buildings, and in residential rental properties.

~~(1)~~ *Exception: The director of community development or an authorized ~~his~~ designee may issue a permit for maintenance and installation of new equipment in a commercial or industrial building of a minor proportion. A responsibility form shall be filled out by the person receiving the permit.*

~~(2) Exception: The director of community development or his designee may issue a permit to the Village of Schaumburg when electrical work is performed on village-owned facilities or equipment by an employee of the Village of~~

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~~Schaumburg Department of Engineering and Public Works and who may not be registered as a licensed electrical contractor. The director of engineering and public works or his designee shall sign the application for permit which indicates the employee is approved and qualified to perform the work.~~

(E) The Village electrical inspector ~~having jurisdiction or the electrical inspector(s) of the community development department~~ shall inspect all electrical equipment installed or altered, except such electrical equipment as may be lawfully exempt, and shall require that it conforms to the electrical regulations ~~of this chapter and/or ordinances as adopted by the Village of Schaumburg~~.

(F) Upon completion of such installation or alteration in compliance with the electrical regulations, the Village electrical inspector ~~having jurisdiction and/or the electrical inspector(s)~~ shall, on request made by a registered electrical contractor, issue a certificate of inspection covering such installation or alteration, provided, however, that no such certificate shall be issued until all the inspection fees for such installation have been paid.

(G) The director of community development, or an authorized ~~his~~ designee is hereby empowered to reinspect any electrical equipment within the scope of the electrical regulations ~~of the codes and/or ordinances, as adopted by the Village of Schaumburg~~, and if the ~~when said~~ electrical equipment is found to be unsafe to life or property, the director of community development, or an authorized representative, shall have the authority to undertake immediate action necessary to ~~disconnect or~~ cause disconnection or removal of any electrical wires or electrical devices that may be energized, and shall proceed to notify in writing either the owner, or an ~~his~~ agent who ~~for the purpose of~~ manages~~ing, controlling~~ or collects~~ing~~ rents, or any other person who manages~~ing~~, controls~~ling~~, uses~~ing~~ or operates~~ing~~ the owner's property ~~same~~ to place ~~such~~ electrical equipment in a safe and secure condition in compliance with the electrical regulations, within such time as the Village ~~senior~~ electrical inspector shall consider just and reasonable. In no event shall this time exceed fifteen (15) days from the date of such notice.

(H) Refusal to comply with the requirements of such notice shall subject the person owning, managing, operating or using such electrical equipment to the penalties provided for in the electrical regulations~~codes and/or ordinances as adopted by the Village of Schaumburg~~. The Village ~~senior~~ electrical inspector ~~and/or the electrical inspector(s) are~~ is hereby empowered to order the cut off of power ~~and stop current~~ to any electrical equipment found to be unsafe to life or property.

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~~(H)~~(I) The community development department shall keep complete records of all permits issued and inspections made and other official work performed under the electrical regulations ~~of the codes and/or ordinances as adopted by the Village of Schaumburg~~.

~~(I)~~(J) When any electrical equipment has been installed or altered, no electrical current shall be used on such equipment previous to the inspection of such equipment by the Village electrical inspector ~~having jurisdiction~~.

(K) ~~(J)~~ Failure on the part of any registered electrical contractor, landlord, homeowner, person leasing space and/or property, and individual person(s) to correct any violation, defect, error or deficiency in any electrical installation that has and/or is installed under the authority of a permit issued ~~to him~~ by the community development department within ten (10) days after written notification ~~thereof~~ by said department~~bureau~~, or within such reasonable time as may, upon request, be prescribed, the Village electrical inspector~~(s)~~ shall without further notice stop the issuance of permits to such registered electrical contractor, landlord, homeowner, person leasing space and/or property, and individual person(s), until such corrections have been made, inspected and approved.

(L) In addition to an order to stop working and to correct deficiencies, the penalty provided in the electrical regulations, may be enforced. The Village electrical inspector is hereby empowered to suspend the permit privileges of any registered electrical contractor, landlord, homeowner, person leasing space and/or property, and individual person(s) who fails to pay any just indebtedness for inspection fees for electrical work until such contractor shall discharge and pay to the Village all just indebtedness then due and owing from the registered electrical contractor.

~~In addition, the penalty provided in the electrical codes and/or ordinances, as adopted by the Village of Schaumburg, may be enforced~~.

~~The electrical inspector having jurisdiction is hereby empowered to suspend the permit privileges of any registered electrical contractor, landlord, homeowner, person leasing space and/or property, and individual person(s) who fails to pay any just indebtedness for inspection fees for electrical work until such contractor shall discharge and pay to the municipality all just indebtedness then due and owing from such registered electrical contractor.~~

~~(J)~~(M) The Village electrical inspector ~~having jurisdiction and/or the electrical inspector~~ is authorized to revoke any permit or certificate obtained by fraud, misrepresentation, or in any way contrary to the provisions of the electrical regulations ~~of the electrical codes and/or ordinances as adopted by the Village of Schaumburg,~~ for the installation, alteration, repair and use of any electrical equipment, materials, devices, and apparatus.

~~(K)~~(N) It shall be unlawful for any person to install, alter or repair any electrical wires or apparatus by authority of a permit issued to ~~and for the use of some~~ another person.

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~~(L)~~(O) It shall be unlawful for any registered electrical contractor, landlord, homeowner, person leasing space and/or property, and individual person(s), to secure or furnish a permit for the installation, alteration and repair of electrical wires and apparatus to any person not entitled to such permit under the electrical regulations ~~of this Code~~.

~~(M)~~(P) It shall be unlawful for any person to change, add to, or mutilate so as to change, any written or printed permit form issued to a registered electrical contractor~~so as to change the original working~~, unless authorized by the community development department~~electrical inspector, of any written or printed form issued to registered electrical contractors by the community development department~~.

~~(N)~~(Q) Any person violating any of the sections of the electrical regulations~~requirements as adopted by the Village of Schaumburg~~ shall be subject to the penalties provided as noted in subsection (~~P~~R) of this section, and in addition thereto, the permit, certificate, or any printed form issued to a registered electrical contractor, landlord, homeowner, person leasing space and/or property, individual person(s), etc., shall be revoked by the Village electrical inspector ~~having jurisdiction and/or the electrical inspector(s)~~. Notice of revocation shall be in writing to the person violating any of those sections of the electrical regulations~~codes and/or ordinances as adopted by the Village of Schaumburg~~.

(R)~~(P)~~ Any person who violates any of the provisions of the electrical regulations ~~requirements as adopted by the Village of Schaumburg~~, or who maintains any electrical wiring and apparatus found to be dangerous to life and property, may incur a ~~shall be~~ fine~~d~~ according to §10.99 of this code ~~not more than five hundred dollars ($500.00)~~ for each offense. Each day such violation continues shall constitute a separate and distinct offense.

(S) ~~Each day such violation continues shall constitute a separate and distinct offense, and so much of a~~Any electrical installation as may be erected or altered and maintained in violation of this code~~section~~ shall be considered a threat to the life, health and safety of the general public~~condemned~~; and the Village electrical inspector ~~having jurisdiction and/or the electrical inspector(s) are~~ is hereby empowered to order the discontinuation of power ~~cut off and discontinue current~~ to such electrical wires and apparatus.

~~(A)~~(T) The Village electrical inspector ~~having jurisdiction~~ shall have authority to dispose of any unclaimed materials or equipment after written notice has been furnished to the landlord, tenant, leasing agent, and owner of such materials or equipment not to exceed fifteen (15) working days upon receipt of said notice.

~~(Ord. No. 13-001, passed 1-8-2013; Am. Ord. 15-002, passed 1-13-2015)~~

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§ 152.69 - ELECTRICAL CONTRACTOR BUSINESS LICENSINGREGISTRATION.

(A) Application and Issuance of a Business LicenseCertificate: Any person desiring to engage in the business of electrical contractingor shall apply for an electrical contractor business license through registration to the community development departmentelectrical inspector having jurisdiction and/or the electrical commission. Upon filing of such application in proper form and the payment of the license registration fee as provided in subsection (C) hereinof this section, the community development department electrical inspector having jurisdiction and/or the electrical commission shall issue a license to register the applicant as licensed an electrical contractor, and shall issue to the applicant a certificate of registration, which will authorize the applicant to engage in such business for the period in which it is issued. Pprovided, however, before any permits shall be issued to the electrical contractor, the electrical contractor he shall have complied with the Supervising Electrician section of this chapterSection 152.103 of this chapter.

(B) Expiration of LicenseCertificate: The electrical contractor's license certificate of registration shall expire on December 31st of the year in which it is issued, and the license. A certificate of registration shall not be transferable.

(C) License Fee for Registration: The fee for registration as an electrical contractor shall be according to the provisions of §41.01 et seq., of this codefully governed by the electrical commission.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.??70 - SUPERVISING ELECTRICIAN.

(A) (A) Appointment: Before any permit to install, repair or alter any electrical installation, materials, devices and apparatus, shall be issued to any person entitled to secure permits under the electrical regulations of this chapter, that person he shall appoint or employ a person who may be known by himself, or some other person, for the purpose of the electrical regulations of this municipality, as a supervising electrician.

(B) Permits: The supervising electrician shall perform work or supervise and direct the installation authorized by permits issued by the Village. All applications for permits shall be countersigned by the supervising electrician. The supervising electrician must provide proof of licensing or a certificate from another Illinois municipality where electrical testing is provided to certify qualifications.

The supervising electrician shall perform work or supervise and direct the installation authorized by permits issued under the authority of this chapter. All applications for permits shall be countersigned by said supervising electrician.

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~~Supervising electrician must provide proof of licensing or a certificate from a community having an electrical commission where testing is provided to certify qualifications~~.

~~(B)~~(C) Notice of Discharge: Whenever a supervising electrician shall leave or be discharged from the employment of any person who is required by this section to appoint or employ a supervising electrician, a notice in writing thereof shall be given within five (5) days by both the employer and the supervising electrician to the community development department, and the permit privileges of such person shall, without further order or action by the community development department ~~electrical inspector and/or the electrical commission~~, stand suspended until the employment or appointment by such a person of another supervising electrician, as provided for in subsection (A) herein ~~of this section~~.

~~(C)~~(D) Expiration of Village ~~Schaumburg~~ Certificate: Certification of a supervising electrician issued by the Village shall expire on December 31st ~~every three (3)~~ years, and may be renewed ~~upon filing an application for renewal~~ as prescribed by the community development department~~electrical inspector and/or the electrical commission~~, and by paying the renewal filing fee according to the provisions of §41.01, et seq., herein, for the next three (3) years. Only Village of Schaumburg Certificates existing on November 1, 2012 shall be renewed.

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~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.71 - ELECTRICAL TESTING LABORATORIES.

The electrical regulations ~~codes and/or ordinances, amendments, and addendum, as recognized and/or adopted by the Village of Schaumburg,~~ require all electrical equipment, materials, devices, and/or apparatus be evaluated by and bear the label of a recognized testing laboratory per the most current ~~(see 2011~~ National Electrical Code, with local amendments, as adopted by reference by the Village~~article 100 - listed)~~. The recognized ~~T~~testing laboratories include the following~~, as required and as noted in this chapter, and all other electrical codes and/or ordinances, as adopted by the Village of Schaumburg, are recognized as follows~~:

AGA -	American Gas Association.
CSA -	Canadian Standard Association.
ETL -	Electrical Testing Laboratories.
FMRC -	Factory Mutual Research Corporation.
IITRI -	Illinois Institute of Technology Research Institute (~~s~~Specialized medical equipment only).
UL -	Underwriters Laboratories, Inc.

Note: Final approval of listed items shall be determined by the community development department~~Schaumburg Electrical Commission~~.

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~~(Ord. No. 13-001, passed 1-8-2013)~~

~~§ 152.72 - COMMISSION CREATED; MEMBERSHIP.~~

~~There is hereby established a commission to be known as the Schaumburg Electrical Commission, pursuant to the provisions of 65 Illinois Compiled Statutes 5/11-37-1 et seq. The commission shall consist of six (6) members, as follows: The electrical inspector of the village having jurisdiction shall be a member and ex officio chairman of the commission; of the other five (5) members, one (1) shall be an electrical contractor, one (1) a journeyman electrician, one (1) a representative of an inspection bureau maintained by the fire underwriters, if such a representative resides in the village, and if no such representative resides in the village, then the chief of the fire department or his designated representative, one (1) representative of an electrical supply company, and one (1) electrical engineer. If there is no person residing in the village who is qualified under any one of these descriptions, the village president may appoint some other person to fill that position. All members of the electrical commission shall be appointed by the village president with the advice and consent of the board of trustees.~~

~~(Ord. No. 13-001, passed 1-8-2013)~~

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§ 152.??~~73~~ - ABANDONED WORK.

In the event that the original permittee abandons the work for which the permit has been issued or fails to complete the ~~said~~ work in accordance with the plans and the electrical regulations~~code~~, the village may issue a subsequent permit to a successor permittee upon certification that ~~by~~ the property owner ~~that the owner or developer~~ shall assume all responsibility for work previously done and has engaged the subsequent permittee to complete said work.

~~(Ord. No. 13-001, passed 1-8-2013)~~

§ 152.??~~74~~ - INSTALLATION OF ELECTRICAL DISTRIBUTION LINES.

All distribution lines for telephone and electric service installed in the Village ~~of Schaumburg~~, except in areas zoned ~~classified for~~ M-1 or M-P ~~purposes under the zoning ordinance~~ shall be placed underground within easements on ~~of~~ dedicated public rights-of-way~~ways~~. The installation of such facilities shall be made in compliance with Chapter 158 of this code, and the requirements of the Illinois Commerce Commission, and with the consent of the owner of the property or developer of the property. ~~all other ordinances of the Village of Schaumburg and the public utility, and the~~ The owner of the property or developer ~~subdivider~~ of the ~~any~~ property to be served by such installations shall be responsible for compliance with the provisions of this chapter.

~~Any person, firm or corporation violating provisions of this section shall be fined not more than five hundred dollars ($500.00) for each such offense.~~

~~(Ord. No. 13-001, passed 1-8-2013)~~

~~§ 152.75 - DAMAGES TO VILLAGE PROPERTIES.~~

~~Any electrical contractor, electrical subcontractor, homeowner, landlord, tenant, etc., who renders any damages to village owned or village maintained properties, shall be fully responsible for full restoration or repairs that may be necessary to said properties, as approved and accepted by representatives of the village engineering and public works.~~

~~In the event that said electrical contractor, subcontractor, homeowner, landlord, tenant, etc., does not fulfill obligations to make the necessary repairs to said properties within a reasonable period of time, as designated by representatives of the village, said parties involved shall be in violation of this section.~~

~~In addition to fines that may be levied, the village shall have the right to charge any costs of repairs to the party responsible for damages of village properties, and may deny any future issuance of permit until such time as all costs have been paid and corrections to damages have been approved.~~

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~~(Ord. No. 13-001, passed 1-8-2013)~~

§152.99 – FINES AND PENALTIES.

Any person who violates any provision of this chapter of other adopted electrical regulations of the Village may be fined as specified in §10.99 (General Penalty) of this code.

~~§ 152.05 - SERVICE ENTRANCE CONDUCTORS.~~

~~(A) Minimum Requirements: All service entrance conductors installed for single-family type construction shall be a minimum AWG wire size of number 3/0-gauge copper conductor and shall also be of type THW or THWN insulation.~~

~~(B) Conduits: The required service entrance conductors, as noted in subsection (A) of this section, shall be installed in a minimum of two inch (2") trade size conduit, which shall be rigid or IMC type heavy wall galvanized steel conduit.~~

~~All fittings, such as couplings, and connectors, employed for the service entrance conduit installation shall be of the threaded type. Compression type fittings and/or set screw type fittings shall not be permitted and will not be accepted.~~

Exception: Where service entrance conduit systems are concrete encased, one compression type fitting may be utilized in the encased conduit system for the purpose of coupling conduit sections.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.06 - MAIN SERVICE DISCONNECT LOCATIONS.

The main service disconnecting means (circuit breaker or fused switch device) shall be located within five feet (5') of the point where the service conductors enter the building and/or within five feet (5') of the metering device.

Exceptions to this rule shall be made only with approval of public utilities and the inspector having jurisdiction.

(A) When installing electrical equipment outside only the main service disconnect or metering sections that contain built in main disconnects will be accepted. (The installation of service distribution sections outside will not be permitted).

(B) Shunt Trip: When a building or structure is being, built, remodeled, or the main electrical service is being upgraded and depending on the location of the main service disconnect a shunt trip may be required and installed in a location per the fire prevention bureau or the inspector having jurisdiction.

(C) All meters, main disconnects, and panelboards that are wall mounted shall have a minimum of one half inch (½") of plywood installed behind main disconnect panelboards for the purpose of supporting and mounting equipment. No exceptions to this ruling will be allowed.

(C) The use of auxiliary gutters, wire ways, troughs, junction boxes, except utility supply company stub boxes, used in conjunction with underground services, and/or raceways as enclosures for service entrance conductors, or the tapping of service entrance conductors, is strictly prohibited and will not be approved.

Exceptions to this rule shall be made only with approval of public utilities and the inspector having jurisdiction.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.07 PANELBOARD RATING AND CIRCUIT BREAKER AND/OR FUSE CAPACITY.

All panelboard installations for single family dwellings shall be a minimum of two hundred (200) ampere rated.

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(A) Where a typical panelboard is installed in new construction, remodeling construction, or replacement of an existing panelboard, said panelboard shall have sufficient capacity for the minimum number of circuit breakers or fuse devices, as required in this section, in addition to the number of branch circuit breakers or branch fuse devices necessary to provide a complete and safe installation, as approved by the electrical inspector having jurisdiction.

Note: In existing dwellings where an electrical permit is obtained for the purpose of remodeling, the existing electrical service and related equipment may not be required to be upgraded to two hundred (200) amperes, provided the existing electrical service and related equipment are adequate for the connected load.

Regardless of the minimum number of circuit breakers or fusing devices that may be installed and/or required as noted in this chapter, there shall be a minimum of four (4) empty spaces provided in said panelboard to accept fully sized branch circuit breakers or fuse devices for future use.

(B) All circuit breakers shall be fully sized in dimensions and for proper insertion into the panelboard, as set forth by the switchgear and panelboard manufacturer and as listed by a recognized testing laboratory. Substitution of two (2) or more circuit breakers in a space so designed or previously occupied by a lesser number shall not be approved and will not be accepted.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.08 PUBLIC PANELBOARDS.

A public meter and public panelboard, and including the required number of branch circuit breakers or branch circuit fuse devices, as approved by the electrical inspector, shall be installed in a designated public area, as noted in subsection 152.58(D) of this chapter, in any apartment complex, type housing, townhouse complex, condominium, etc., that may require electricity to operate any electrical device, such as pumps, outdoor lighting fixtures, receptacles for general use, etc., and does not directly pertain to or encompass the immediate direct structure of an apartment, multi type housing, townhouse, and/or condominium type units.

Note: There shall be no exception to this ruling.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.09 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, IMC (intermediate metallic conduit) or PVC, schedule 40, conduit.

A grounding conductor shall be installed in said conduit system for the purpose of grounding the electrical system in the detached structure.

Grounding conductors shall be a minimum of number 12-gauge AWG copper and/or shall not be less than one AWG conductor size of the subfeed conductor(s) or branch circuit.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.10 SWITCHED LIGHTING FIXTURES IN CLOSETS OR STORAGE AREAS.

All lighting fixtures installed in any walk-in type closet or storage area, utility room, and laundry room, shall be switched.

The location of said switching device shall be so installed as to be within two feet (2') of the entrance of said closet and/or storage area, utility room, and laundry room, opposite of hinge side of door, or as approved by the electrical inspector.

A minimum of one switched lighting fixture shall be installed in the immediate area of the top stair tread of all staircases leading to basement areas.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.11 ILLUMINATION IN BASEMENT AREAS.

(A) A minimum of one switched lighting fixture shall be installed in the area of the lowermost stair tread of all staircases that lead to the basement areas.

The switch device that is required to control both upper and lower lighting fixtures shall be installed at a readily accessible location at the uppermost tread area of the staircase.

(B) Panelboards that are installed in basement areas shall have a minimum of one lighting fixture installed within three feet (3') of the panelboard cover.

(C) A minimum of one lighting fixture shall be installed within four feet (4') of the furnace and/or heating system that is installed in the basement area.

Note: Said lighting fixture shall be positioned or located to adequately provide illumination in front of any furnace or heating appliance where servicing of said appliance is necessary at removable manufactured service panels.

(D) A minimum of one lighting fixture shall be installed over any laundry tub or laundry equipment located and/or installed in a basement area.

Note: In installations where the lighting fixtures, as required above, are located in areas where the illumination is obstructed by ducts, beams, said lighting fixtures may

require relocation, and/or additional lighting fixtures may be required as per the inspector's having jurisdiction.

(E) A minimum of one lighting fixture shall be installed above or no more than three feet (3') from any fire suppression system.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.12 - NUMBER OF POWER CONSUMING DEVICES PER CIRCUIT.

Lighting circuits installed in any single family dwelling, apartment complex and/or apartment unit, condominium, townhouse, and multi family structure, shall not have more than ten (10) power consuming devices (openings) for general lighting purposes connected thereto.

Note: There shall be no exceptions to this requirement.

Note: "Power consuming devices", as noted in this section and throughout the electrical code, as adopted by the Village of Schaumburg, shall be defined as any type of electrically operated device, appliance, equipment, and apparatus, and shall also include any receptacle regardless if said receptacle is of a single or a duplex type device.

A duplex receptacle shall be counted as one power consuming device.

A switching device shall not be considered as a power consuming device.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.13 - BRANCH CIRCUIT PROTECTION OF LIGHTING DEVICES.

All branch circuit breakers or branch circuit fuse devices for lighting circuits shall be rated at a maximum of fifteen (15) amperes.

Note: Lighting circuits shall be considered as lamps, lighting fixtures, receptacles used for general lighting purposes, and/or general devices connected thereto.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.14 - BRANCH CIRCUIT CONDUCTOR SIZES AND LOADS.

All branch circuit neutral conductors shall be grouped with the corresponding branch circuits and properly identified, where the branch circuit is installed as a network wiring system.

Grouping and identification of said neutral conductor(s) shall be by the use of nylon-type tie wraps or approved electrical tape.

Note: There shall be no exceptions to this ruling.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.15 - CONNECTION TO SEPARATE CIRCUITS.

Circuits installed for the purpose of general lighting shall not be connected to or shared with any dedicated circuits, such as circuits that are installed for pumps, furnaces, or appliances, including laundry appliances, and kitchen appliances.

A minimum of one out of door weatherproof lighting fixture shall be installed on the exterior of the structure and at all rear entrances and/or exits to a single family dwelling, condominium, townhouse, and apartment units.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.16 - OUTDOOR LIGHTING FIXTURES.

(A) A minimum of one out of door weatherproof lighting fixture shall be installed on the exterior of the structure and at all rear entrances and/or exits to a single family dwelling, condominium, townhouse, and apartment units.

(B) A minimum of one switched out of door weatherproof lighting fixture shall be installed on the exterior of all structures such as patios, balconies, sunrooms, and screened in porches, for the purpose of providing illumination in the immediate area of the entrance.

Note: The illumination, as prescribed in this subsection, shall be as determined by the electrical inspector having jurisdiction.

(C) Switching devices that are required in this section shall be located in a readily accessible location and shall not exceed three feet (3') from the entrance and/or exit areas of the residential structure.

Note: Where switching devices are installed in a room and/or structure that may be subject to weather conditions, such as screened in porches, and gazebos, said switching devices shall be installed in a weatherproofed enclosure.

Note: Out of doors lighting fixtures that are installed in a commercial, industrial, apartment unit and/or apartment complex, condominium, or a multi family type structure may not be required to be switched, providing said lighting fixtures are controlled by a photocell or timing device and the circuit(s) originates from a public panelboard.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.17 - OUTDOOR DUPLEX RECEPTACLE INSTALLATIONS.

(A) A minimum of one switched out of door weatherproof duplex receptacle shall be installed and suitably located on the exterior and in the front of a single-family dwelling, apartment unit and/or apartment complex, condominium, townhouse, and multi-family structure.

(B) A minimum of one switched out of door weatherproof duplex receptacle shall be installed and suitably located on the exterior of any directly connected porch, patio, balcony, sunroom, screened in porch, or any similar type structure.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.18 - CEILING PADDLE FANS.

(A) All junction boxes installed for the use and/or attachment of any type of ceiling paddle fan shall be listed by a recognized testing laboratory. All ceiling boxes in residential occupancies shall be listed for paddle fans except closets, hallways, and detectors.

(B) All methods of installation and all materials and/or supporting members used to secure and/or mount junction boxes as noted above shall be listed by a recognized testing laboratory and/or shall be approved by the electrical inspector having jurisdiction.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.19 - RECEPTACLES ON SEPARATE APPLIANCE CIRCUITS.

All receptacles that are installed on any separate appliance circuit shall be of the duplex type and shall be twenty (20) ampere rated.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.20 - AUTOMATIC DISHWASHER CIRCUITS.

All permanently installed automatic dishwashers shall be hard-wired with the use of electrical metallic tubing and a minimum of three eighths inch (3/8 ") trade size flexible metal conduit, and said flexible conduit shall not exceed six feet (6') in length.

Each permanently installed automatic dishwasher shall have an approved disconnecting means for the purpose of disconnecting the ungrounded conductors.

The disconnecting means, as required in this section, shall be a minimum of twenty (20) ampere rated.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.21 - THREE- AND FOUR-WAY SWITCH LOCATIONS.

(A) A three-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. The locations of said switching devices shall be approved by the inspector having jurisdiction.

A four way switching arrangement may be required in hallways where the length and/or the construction layout of the walls is installed in a manner where it is deemed

necessary by the electrical inspector having jurisdiction to require the four-way switching arrangement.

(B) All rooms that have more than one entrance and/or exit to said room(s), such as kitchens, dining rooms, living rooms, and family rooms, shall have lighting fixtures, and/or a wall-mounted receptacle that is installed for general lighting purposes controlled by a three way switching arrangement.

A four-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 the four-way switching arrangement.

(C) A three- or four way switching device to control a receptacle or lighting fixture shall be installed where entrance from the exterior is obtained through a patio door or door(s) that is directly associated with a room that has direct access to the outside at grade level.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.22 FIXTURE REQUIREMENTS FOR GARAGES.

(A) All storage garages shall have a minimum of one ceiling lighting fixture installed per each automobile (car) bay and/or stall. All ceiling mounted lighting fixtures shall be controlled by a wall switch. Where more than one entrance and/or exit is provided to said storage garage, all lighting fixtures shall be switched at all locations and/or at all entrances and/or exits to the storage garage.

Note: Overhead type storage garage doors shall be considered as an entrance and/or exit in relation to this code.

(B) A minimum of one out of door weatherproof lighting fixture shall be installed at all storage garage service door(s). Said lighting fixture(s), as required in this section, including subsection (A) of this section and this subsection, shall be installed on the exterior wall and immediately adjacent to the garage service door(s).

A minimum of one wall-mounted switch shall be installed within the main wall and located adjacent to the service door of said storage garage for the purpose of controlling the lighting fixture(s) at the service door location(s).

(Ord. No. 13-001, passed 1-8-2013)

§ 152.23 COMMERCIAL AND INDUSTRIAL.

Definition: Commercial and industrial buildings and/or structures not used or occupied for residential type occupancies and/or purposes.

Buildings and/or structures, such as retail establishments, buildings and/or structures used for the purpose of manufacturing, buildings and/or structures so constructed for the use and/or installation of office systems and/or office personnel,

buildings and/or structures, such as motels, hotels, daycare centers, nursing homes, and retirement type complexes, etc., shall be classed as commercial and/or industrial use, and to include buildings and/or structures as recognized in other ordinances as adopted by the Village of Schaumburg.

Note: Sections 152.62 and 152.64 through 152.108 of this chapter include both commercial/industrial and residential requirements.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.24 ELECTRICAL CONDUIT REQUIREMENTS.

(A) All conductors that carry electrical current rated at fifty (50) volts or greater shall be installed in rigid heavy wall galvanized steel conduit, intermediate metallic conduit, electrical metallic tubing, or PVC conduit unless hereinafter stated in this chapter.

Exception: Flexible metal conduit and liquid tight, flexible metal conduit may be used, but shall not exceed six feet (6') in length, shall contain a green in color, or green with yellow stripe, insulated grounding conductor, and shall be approved for use and location by the electrical inspector having jurisdiction.

(B) All conduit systems that are exposed to any type of weather condition shall be rigid heavy wall galvanized steel conduit or (IMC) intermediate metallic conduit.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.25 CONDUIT INSTALLED UNDER CONCRETE SLABS.

(A) All conduit that is installed below concrete slabs within the perimeters of the foundation wall shall be PVC, schedule 40 or schedule 80, whichever would apply.

(B) All conduit that contain service entrance conductors for new construction shall be encased in a minimum of four inches (4") of concrete, regardless if under concrete slab or not.

(C) All underground conduit systems, such as rigid heavy wall galvanized steel conduit, intermediate metallic conduit, IMC or PVC conduit, shall have an insulated grounding conductor installed in each conduit system.

Exception: Service entrance PVC conduit(s) from a utility company transformer to a metering section or metering device is not required to have a grounding conductor installed in the conduit system(s).

(Ord. No. 13-001, passed 1-8-2013)

§ 152.26 PVC AT GRADE SLAB OR UNDER GRADE SLAB.

PVC tubing may also be permitted for use and installation for service entrance conductors from the transformer pad and/or metering device to the location where said

PVC exits the slab, and provided that said PVC is totally encased in a minimum of four inches (4") of concrete.

Exception: PVC type electrical conduit that contains branch circuits or subfeed conductors is not required to be concrete encased, where installed below a minimum of four inches (4") of concrete or where buried a minimum of eighteen inches (18") below finished grade level.

(A) Where the installation of PVC is permitted for use in concrete slabs at grade level or below, a rigid heavy wall galvanized steel, ninety degree (90°), full radius conduit, or intermediate metallic, full radius, ninety degree (90°) conduit shall be used and properly installed where the PVC is at the point (location) of exiting said concrete slab. This metallic conduit shall be no longer than three feet (3') from PVC connection.

(B) All PVC tubing installations shall be firmly attached and/or supported (to prevent movement in concrete pours) at intervals not to exceed five (5) to seven feet (7').

(C) All grounding conductors shall be sized in accordance with article 250.122 of the 2011 National Electrical Code.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.27 - ELECTRICAL CONDUIT SUPPORT FOR ROOFTOP INSTALLATIONS.

All conduit systems that are so installed upon roofs and the like shall be supported at intervals not to exceed every five (5) to seven feet (7').

All conduit clamps and/or straps shall be galvanized steel or cast iron. All conduits shall run ninety degrees (90°) parallel to the outside walls. All support systems shall be listed and have final approval by the electrical inspector having jurisdiction.

Note: No service entrance conduits shall be installed on rooftops.

Note: All abandoned or unused rooftop equipment, condensers, furnaces, air handlers, ventilators and any associated electrical fittings and/or devices shall be removed and disposed of properly.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.28 - SERVICE ENTRANCE CONDUIT SYSTEMS.

All service entrance conductors shall be installed in rigid heavy wall or IMC galvanized steel conduit.

All service entrance conduits that are installed below grade level shall be concrete encased.

The concrete encasement shall be a minimum of four inches (4") and shall completely encase the conduit system.

All fittings, such as couplings, and connectors, employed for the service entrance conduit installation located between the electrical meter and electric panel shall be of the threaded type. Compression type fittings and/or set screw type fittings shall not be permitted and will not be accepted.

Exception: Where service entrance conduit systems are concrete encased, one compression type fitting may be utilized in the concrete encased conduit system.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.29 NEUTRAL CONDUCTOR SIZE.

All neutral conductors shall be equal in size to the service entrance conductor(s), subfeed conductor(s), and/or the branch circuit conductor(s).

Derating of any neutral conductor will not be an accepted practice and shall not be approved.

Note: There shall be no exceptions to this ruling.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.30 - BRANCH CIRCUIT CONDUCTORS.

All branch circuit conductors, and to include neutral conductors or grounding conductors, that are installed within and/or associated with any commercial and industrial building, and to include any parking structure, detached structure, and outline lighting, shall be a minimum of number 12 AWG gauge copper wire size.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.31 COPPER CONDUCTORS.

All wiring systems installed within and/or connected to any building and/or structure, and to include any detached building and/or structure that are so constructed in any area zoned as commercial, industrial, residential, and multi-family, shall be copper.

Note: This requirement shall include all service entrance conductors, subfeed conductors, branch circuit conductors, low voltage conductors as installed for control wiring, communication systems, and the like.

Exception: Public utilities providing electricity to serve a building, and structure, may be exempt from this section, providing said utility assumes the responsibility and/or maintenance of service drops from the transformer to the metering device and/or switchgear.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.32 - NUMBER OF CONDUCTORS PERMITTED ON AN OVER CURRENT DEVICE.

This section applies to all commercial and industrial buildings.

(A) The application and/or installation of connecting more than one conductor to a circuit breaker terminal or a fuse holder terminal shall not be approved and will not be accepted.

(B) 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 designed or sized as to accept not more than one conductor.

Exception: Breakers three hundred (300) amperes or over if labeled and listed may have more than one conductor attached.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.33 - CONDUCTOR ATTACHMENT TO DEVICES.

(A) All branch circuit conductors shall be connected to receptacles and switches by means of the screw terminal(s) that are so designed and/or manufactured with the said device. The insertion and/or installation of any conductor into the screwless terminals of any electrical device shall not be the accepted method of connection and/or installation of the conductor and will not be permitted.

(B) All branch circuit conductors shall be made up and/or spliced in such a manner as to provide a single conductor to be connected and/or installed to any electrical device screw terminal, such as the terminal(s) so designed and manufactured on receptacles, switches, and lighting fixtures.

Note: In a typical wiring installation where the branch circuit conductor and/or the grounded neutral conductor is required to be cut and/or have open ends at the device, the conductors shall be spliced in such a manner as to provide a pigtail to properly attach and/or install the branch circuit conductor and/or the grounded neutral conductor to the said device.

(C) The continuity of any branch circuit conductor and/or to include any identified grounded neutral conductor shall not depend upon device connections, such as lamp holders, and receptacles, where the removal of such devices would interrupt the continuity.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.34 - TANDEM CIRCUIT BREAKERS.

(A) Tandem (duplex), mini-circuit breakers are not permitted and will not be accepted or any installation regardless of the type of construction.

(B) All circuit breakers shall be fully sized in dimensions for proper insertion into the panelboard, as set forth by the switchgear or panelboard manufacturer and as listed by a recognized testing laboratory.

(C) Substitution of two (2) or more circuit breakers in a space so designed or previously occupied by a lesser number shall not be approved and will not be accepted.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.35 - SPLIT BUSS PANELBOARDS.

Split buss or multiple service disconnects in panelboards are not accepted and will not be approved.

Note: Switchgear so designed and approved as sequence switching, and said fused switching devices or circuit breakers that are so constructed and installed in a common enclosure, does not pertain to this section.

Exception: Panelboards installations that may contain split bussing for the purpose of contactors or backup generators may be exempt from this section.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.36 - PANELBOARD ENCLOSURES USED AS A JUNCTION.

Panelboard enclosures, switchgear enclosures, and service metering devices shall not be used as junction boxes, pull boxes, and splicing enclosures, etc., and will not be accepted for such use.

Exception: Panelboard enclosures, and switchgear enclosures, that may contain ground fault, arc fault interruption devices and time clock's that may require splicing of the neutral or switch leg conductors shall be exempt from this section. Panelboards that are changed or updated may have splices installed only for the means of extending to the branch circuit breaker and approved by the inspector having jurisdiction.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.37 - SERVICE EQUIPMENT; GENERAL REQUIREMENTS.

It shall be noted in this chapter, that the requirements relating to service entrance equipment, metering devices, and services in general shall be in full compliance with this chapter.

(A) Deterioration of Electrical Service Entrance Equipment: All incoming electrical service entrance equipment, and to include any existing switchgear, bussing detail, branch circuit panelboards, and/or parts thereof, and to include any electrical equipment that is not mentioned in this section, shall be completely free from any corrosion, rust, and/or deterioration of any type.

If, in the opinion of the electrical inspector, there is evidence of any electrical equipment and/or parts thereof that are observed to be corroded, rusted, deteriorated, and/or of an unsafe nature, said electrical equipment, switchgear, and/or panelboards shall be completely replaced with electrical equipment that is manufactured in new condition.

(B) Temporary or Abandoned Wiring: All temporary wiring and/or abandoned wiring, conductors, conduit systems, raceways, junction boxes, electrical devices, electrical materials and/or equipment, shall be completely removed prior to a final electrical inspection.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.38 - PHYSICAL PROTECTION OF ELECTRICAL EQUIPMENT.

If the inspector feels that the installation of electrical equipment inside or outside is in an area where it's prone to damage in anyway additional protection shall be installed by means of concrete bollards or fencing per inspector's approval.

(Ord. No. 13-001, passed 1-8-2013)

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§ 152.39 - ELECTRICAL EQUIPMENT ROOMS AND/OR CLOSETS.

(A) In all commercial buildings, industrial buildings, and residential buildings where vaults, transformers, electrical service equipment and sub-feed service equipment are located and rated at six hundred (600) amperes or more, or transformers rated at more than (200) KVA, shall be grouped and installed in an approved electrical closet and/or switchgear room so designed and designated for the purpose.

Note: See fire rating of required electrical equipment rooms.

(B) Such an electrical closet shall be for the exclusive use of the electrical equipment (see exceptions) and/or electrical system, and shall be so designed and constructed as to provide the required working space around and/or in front of all of the electrical equipment.

Exceptions:

#1) Fire alarm or any other system install for life safety.

#2) Systems installed in junction with lighting or H.V.A.C equipment for Energy Management.

C) In rooms where freestanding switchgear, switchboards and motor control centers are installed, there must be two (2) exit doors from the area. The doors shall be located diagonally across from each other and in opposite corners of the room. Door shall be equal to the rating of the room. Panic or lever hardware shall be installed on exit doors. Exit doors shall swing outward from all switchgear, switchboard and motor control center rooms.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.40 FIRE RATING OF REQUIRED ELECTRICAL EQUIPMENT ROOMS.

All designated switchgear rooms, electrical closets, electrical equipment rooms and/or transformer rooms, and/or vaults, shall have a minimum fire rating of two (2) hour construction. Electrical equipment rooms that contain six hundred (600) amperes or more shall comply with the current Schaumburg fire ordinance, and special permission must be received from the Schaumburg Electrical Commission.

Note: The fire rated construction shall include all walls, doors, and/or ceilings.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.41 ELECTRICAL EQUIPMENT ROOMS TO BE VENTED.

All electrical closets, switchgear rooms, electrical equipment rooms, transformer rooms, and/or vaults, containing transformer(s) collectively that are rated at two hundred (200) KVA or more shall be power vented to the outside environment.

Ventilation requirements shall be of sufficient size to keep said rooms at an average ambient temperature of the building.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.42 TENANT PANELBOARD LOCATIONS.

Each tenant and/or owner of a typical tenant space (premises), in any commercial and/or industrial building/structure, shall be required to have a main service entrance disconnecting means, panelboard, and/or metering device.

The panelboard and the main service entrance disconnecting means shall be installed and/or located within the tenant space (premises).

Exception: In buildings where a designated electrical equipment room is installed, and tenant electrical equipment is located and/or installed in said designated electrical equipment room(s) and completely accessible to tenants or building management, and building management is occupying the premises on a twenty-four (24) hour maintenance program.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.43 - ARMORED CABLE.

The use and installation of armored cable, type AC, is not allowed and will not be permitted in any building.

Note: This requirement shall include all detached structures and/or buildings that are zoned for commercial, industrial, or residential use.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.44 - CABLE ASSEMBLIES AND/OR TEMPORARY WIRING.

The following types of cable assemblies and/or wiring systems shall not be permitted for use and/or installation in any type of construction and/or structure, and will not be accepted and/or permitted:

(1) Metal clad cable.

(2) Nonmetallic sheathed cable (types NM and NMC).

(3) Shielded nonmetallic sheathed cable (type SNM).

(4) Service entrance cable (type SE).

(5) Open wiring on insulators.

(6) Concealed knob and tube wiring.

(7) Mineral insulated metal sheathed cable (type MI).

Exception: Service entrance cable assemblies so installed by the public utility company shall be exempt from this subsection.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.45 - LOW VOLTAGE WIRING.

(A) All conductors installed for low voltage applications under fifty (50) volts such as doorbells, door lock release devices, thermostat control, control wiring in general, music systems, and communication systems, shall be installed in electrical metallic tubing, rigid heavy wall galvanized steel conduit, and/or intermediate metallic conduit, in all areas that are not accessible, or in areas where said low voltage installations may be subject to mechanical damage.

Note: All abandoned or unused low voltage cable shall be removed.

(B) All conductors installed for low voltage wiring installations shall be installed in electrical metallic tubing, rigid heavy wall galvanized steel conduit, and intermediate metallic conduit systems, where said wiring systems are so installed in buildings and/or structures that may be in physical contact within ten feet (10') from the surrounding finished floor level.

(C) Residential only: Low voltage wiring used for the installation of music systems, telephone systems, and to include conductors used for the purpose of receiving communications, may be exempt from subsections (A) and (B) of this section.

(D) All ends of each conduit system shall have a bushing or coupling installed for the purpose of providing protection of conductors in the event of conductor replacement.

(E) In installations where said low voltage wiring is not required to be installed in a metal raceway, as noted in this section or in other sections as recognized in this

chapter, the wiring systems shall be supported to a permanent part of the building structure by insulated staples, nylon tie wraps, and approved metal supporting devices, at intervals not to exceed every five (5) to seven feet (7'), unless hereinafter stated in this chapter.

(F) All low voltage conductors shall be so installed as to "run" ninety degree (90°) bends to building walls and/or perpendicular to building walls.

Note: Low voltage wiring installations as noted in this chapter shall not be installed to be supported and/or laying on the ceiling grid systems and ceiling tile.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.46 - PARKING LOT AND SITE LIGHTING SYSTEMS.

(A) Parking lots, alleyways, and driveways related to apartment type complexes, car sales, shopping and/or sales centers, multi-family type housing, or any other parking areas not mentioned in this subsection shall be illuminated as described in section 151.10.2 of this title. The locations and types of pole and luminaries; and light levels and photometric criteria, shall be as described in section 151.10.2 of this title.

(B) All parking lot, driving lane, or streetlight supporting structures, poles, heads, lamps, glass and/or lens, wiring, and/or other related devices shall be properly maintained in an approved and safe condition and in strict conformity with all electrical regulations, as adopted by the Village of Schaumburg and as acceptable by the director of community development, or his designee having jurisdiction or judgment.

All parking lot pole handholds, electrical junction boxes, and/or electrical pull boxes, shall have approved covers installed at each location, and said cover(s) shall be properly maintained for the intended use and shall not admit stormwater.

All parking lot pole anchor bolts shall have approved covers installed, and said covers shall be properly secured in place.

Exception: Aluminum parking lot poles, and/or mast arms, may be exempt from painted surfaces.

Paint shall be equal to an enamel base and contain rust preventers. Paint color(s) shall be compatible with the existing color and/or as approved by the inspector having jurisdiction.

(C) In the event that any parking lot lighting pole, supporting structure, and/or wiring system is found to be unsafe or is not properly maintained, as determined by the director of community development, or his designee, it shall be the full responsibility of the landlord, leasing agent, owner, and tenant, to repair or replace as deemed necessary to obtain compliance as determined by said code official.

It shall be the full responsibility for any landlord, leasing agent, owner, tenant, etc., to obtain a structural engineer, as deemed necessary by the director of community development or his designee, to examine or evaluate any parking lot, drive lane, or street lighting standard, pole, or related structure where found to be questionably unsafe by said code official.

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A full written report shall be submitted to the community development department for review and record from any structural engineer who examines or is involved with evaluation of any parking lot, drive lane, or street lighting standard, pole, or related supporting structure, as requested by the director of community development or his designee.

Said examination and written report shall be at the expense of any landlord, leasing agent, owner, and tenant, who is owner of, related to, or associated with, any parking lot, drive lane, or street lighting system.

(D) Any post or supporting structure which has been displaced, through the settling of its foundation or as the result of an accident, shall be restored to its original upright position.

(E) All revised, replaced, or new parking lot, drive lane, or street lighting standards (poles) shall be grounded.

(F) An approved grounding conductor shall be installed in each conduit system from the electrical panelboard where the circuits originate to said lighting standard (light pole).

Said grounding conductor shall be insulated green or green with yellow stripe in color and shall not be less in size than the branch circuit conductor(s) serving any parking lot, drive lane, street lighting pole or system.

In addition to the grounding conductor as required above, an approved grounding electrode shall be installed at each parking lot, drive lane, or street lighting standard (pole) location. Said grounding electrode shall be installed as required by the 2011 National Electrical Code, article 250.

All grounding electrodes shall not be less than ten feet (10') in length and five-eighths inch (5/8 ") in diameter. All grounding electrodes shall be copper or copper clad.

An inspection of all grounding electrodes shall be required and shall be approved by the electrical inspector having jurisdiction, prior to the placement of any concrete.

Note: There will be no exception to this ruling.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.47 FUSE PROTECTION OF PARKING LOT LIGHTING SYSTEMS.

Each new, revised, or replaced parking lot lighting fixture, street lighting fixture, and/or electric lamppost shall be in line fuse protected.

Note: Where more than one fixture on a parking lot pole is installed, each fixture shall be fused at the base independently.

(A) The fuse holder shall be bussman in line, type HEBA or equal, with an approved manufactured rubber cover "boot" to be inserted over the crimped area of the fuse holder.

The rubber cover "boot" shall be an approved type, manufactured and designed for the type of fuse holder installed.

(B) The in-line fuse holder shall be installed (located) in the hand hole of each pole of said lighting system.

(C) Lighting fixtures that may contain an internal fuse holding device shall not be approved as the disconnecting means and/or recognized as the proper fuse protection device of said lighting fixture(s).

(Ord. No. 13-001, passed 1-8-2013)

§ 152.48 - EMERGENCY LIGHTING SYSTEMS.

(A) Exit and emergency lighting circuits, systems, and related devices shall be installed and maintained to full operating capacity in all commercial and industrial buildings, including apartment buildings, condominiums, hotels, motels, nursing homes, and daycare centers in each tenant space.

(1) Emergency lighting systems, wiring methods, location of emergency lighting fixtures, or battery units, number of lighting fixtures or battery units required, shall be approved by the inspector having jurisdiction.

(2) All exit, stairway, fire escape and directional signs shall be illuminated by electricity and shall be installed and properly maintained to full operating capacity.

(B) All exit signs and or fixtures shall be 120 volts or 277 volts and totally self-contained battery operated units.

(1) All exit signs shall be an internally illuminated unit which shall consist of a minimum of two (2) lamps that shall operate on (120/277) volts and two low voltage lamps that shall be operated from the internal battery unit independently of each other.

(2) All exit signs and or fixtures shall be capable of full operation from the internal battery unit for a period of one and one half (1½) hours, and shall be maintained at all times to provide the required illumination, as indicated in this section.

(3) All exit signs shall be lettered where each letter shall be a minimum of six inches (6") in height and a minimum of five eighths inch (5/8 ") in width. LED exit signs shall be permitted if signs meet all the above conditions.

(4) All lettering shall be red in color and installed on a white background.

(C) Emergency lighting shall be installed in the following rooms and any area related to life safety per the inspector having jurisdiction:

(1) Public washrooms and private washrooms (excluding residential).

(2) Locker rooms.

(3) Dressing rooms.

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(4) Lunch or break rooms.

(5) Conference or meeting rooms.

(6) Exercise rooms.

(7) Exam rooms.

(8) Main or designated electrical rooms.

(9) Emergency generator rooms.

(10)Party rooms.

(11)Fire pump and sprinkler rooms.

(12)All rooms or areas designated for handicap use.

(D) When emergency battery lights or exit signs are installed in the rooms listed above the circuit that serves the local lighting shall be utilized to power each unit.

(E) All wiring systems for exit signs, emergency lighting and night lighting, and/or circuiting installed for the purpose of the emergency system shall be installed in a separate conduit system and shall be a completely independent and separate system.

Note: The neutral conductor shall not be associated with and/or connected to any other electrical device, other than the dedicated emergency lighting circuit, exit signs or night lights.

An approved locking device shall be installed on the circuit breaker(s) for the purpose of preventing said circuit breaker(s) from being switched in the "off" position. Circuit breakers that are of the key operated type may also be used as the branch circuit protection device for the emergency lighting system.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.49 EMERGENCY GENERATORS.

(A) An on-site generator shall be the source of the exit and emergency lighting system for all apartment buildings, apartment type complexes, hotels, motels, condominiums, nursing homes, retirement type complexes, and offices, where the construction of said structure exceeds four (4) or more floors or four (4) or more levels in height above grade.

Note: All ceiling mounted lighting fixtures and/or exit signs used for emergency lighting from a generator source of power shall contain an in-line type fuse located in the first junction box serving said fixture.

Note: Floors or levels as noted above shall be counted to include floors or levels constructed for use as boiler room and mechanical room.

(B) The generator installation and related equipment emergency wiring systems, and the like, shall also be in full compliance with all code requirements as indicated in this chapter, and to include any reference to article 700 of the 2011 National

Electrical Code and latest Schaumburg amendments. Fuel source for emergency generator may be of diesel fuel, propane type fuel, or public utility natural gas.

Regardless of what type of fuel is used, the piping system shall employ a flexible section so approved for connection between the rigid piping system to the generator apparatus for vibration purposes.

An approved lockable valve assembly shall be installed on the piping system and shall be completely operable from floor level. Where propane type fuel or public utilities gas fuel is employed, an approved detection system shall be installed within the generator room for the purpose of automatic fuel shut down in the event of gas leakage. An approved alarm device shall be installed that will indicate activation of the detection system.

Approved metal signs shall be installed and properly labeled to identify the type of fuel employed and fuel source shutoff valve to remain in the "open" position.

(C) The generator designated as the source for the emergency lighting system shall not be installed out of doors of the main building structure. The generator shall be located in a separate room that is designated for the generator and emergency equipment, such as transfer switches, disconnects and panelboards only.

(D) Generators so designated for the source of emergency lighting systems and housed in approved weatherproof type enclosures may be permitted for installation out of doors only for existing apartment buildings, apartment type complexes, condominiums, retirement centers, and nursing homes.

(E) Per article 700 of the 2011 National Electrical Code, the Village of Schaumburg requires all emergency generators, utilized for emergency lighting and exiting of buildings requiring generators, shall be exercised or tested a minimum of once each week.

(F) A monthly maintenance program is required for the generator or each battery system, control ignition, auxiliary, and all other related components (per manufacturer) that serve said generator.

Note: All maintenance records shall be located adjacent to each generator and made available to any authority having jurisdiction.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.50 EMERGENCY GENERATOR ROOMS.

All rooms that contain a generator set for the purpose of supplying emergency power for illumination and/or other electrically operated apparatus, and/or devices, for emergency purposes, shall be a minimum of two (2) hour rated construction, and said rooms shall contain a fully functional, operating combination smoke and heat detection system.

The designated emergency generator room shall contain only equipment that is part of, or associated with, the emergency generator system, with the exception of fire pump(s) and fire pump controller.

Note: Required detectors, as noted above, shall be installed in all buildings, and/or tenant spaces, where the fire prevention bureau will require an approved alarm system. There shall be no exceptions to this ruling. At least one 2 headed emergency battery light shall be installed in the emergency generator room serving emergency lighting connected to the local lighting circuit.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.51 FIRE PUMPS.

(A) The special provisions of this section shall apply to all fire pumps required to be installed by other sections of the building code and by other agencies of the municipal, county, or state governments.

(B) The service, as required by this code or some government agencies, shall be installed according to articles 230 and 695 of the 2011 National Electrical Code.

(C) In buildings where emergency generators are required by government agencies, the fire pump shall be required to be connected to the emergency generator system.

Note: Emergency illumination required in all fire pump rooms.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.52 - OUT OF DOORS ILLUMINATION.

All outside exit areas of a building, structure, and tenant space, shall be adequately illuminated by electrical lighting fixtures.

Lighting shall be continuous during the time that conditions of occupancy require exit areas be open for means of egress, and the intensity of lighting required is not provided by means of natural light.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.54 DUPLEX RECEPTACLE REQUIREMENTS.

(A) The minimum number of duplex outlets required in any commercial or industrial building shall be one per each wall in any office area.

(B) All receptacles single or duplex type receptacles shall be a minimum of twenty (20) ampere rated. All receptacles shall be of the spring type grounding strap that holds mounting screws captive.

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(C) All receptacles that are installed in commercial type daycare centers shall be so installed a minimum of forty-six inches (46") above the floor level and shall be of the listed tamper-resistant type.

(D) Power strip units may be permitted for use to supply power to (desktop) type computers and related computer equipment only, provided that cords for said power strips are free from splices and frays, all cords shall be grounded and do not exceed six feet (6') in length.

(E) Power strip devices shall be powered from a permanently installed wall mounted and/or a floor-mounted duplex receptacle.

(Ord. No. 13-001, passed 1-8-2013)

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§ 152.55 - GROUNDING CONDUCTORS REQUIRED IN FLEXIBLE CONDUIT.

(A) A grounding conductor shall be installed in each flexible conduit and said grounding conductor shall be firmly connected to the lighting fixture and also to the junction box where said flexible metal raceways are connected.

(B) The grounding conductor shall be required for installation in all flexible conduit systems for all fluorescent lighting fixtures regardless of voltage.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.56 - DISCONNECTING MEANS FOR HEATING AND AIR CONDITIONING SYSTEMS.

(A) An approved disconnecting means (switch) shall be installed to disconnect the ungrounded conductors that serve furnaces, hot water heaters, baseboard heaters, and air conditioning systems.

(B) The disconnecting means (switch) shall be installed and/or located externally on, or immediately near, said furnaces, hot water heaters, baseboard heaters, or air conditioners.

Exception: Rooftop units provided with listed built in main disconnects will be accepted.

(C) Thermostat controlled devices shall not be approved as the disconnecting means regardless if said controlled devices do incorporate a positive "off" position.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.57 - SWITCHED LIGHTING FIXTURES.

(A) In all commercial and industrial buildings, a minimum of one night light shall be required for any office, warehouse area, and sales area, for entering or exiting the building.

Note: Where an office and/or warehouse area has more than one entrance and/or exit, night lights shall be installed throughout the building. Night lights shall be located throughout the building by the electrical inspector having jurisdiction. Selected lighting in bathrooms, showers, and locker rooms shall be connected to night light circuit (to be the same as emergency circuit).

Exception: Switched lighting fixtures may not be required providing sufficient illumination is maintained from unswitched lighting fixtures that are served from dedicated night lighting circuits. Said lighting circuit shall have a lock on device installed on the circuit breaker. Night lighting circuits shall be considered emergency circuits (see subsection 152.75(D) of this chapter).

(B) All switching devices installed in any commercial and/or industrial structure shall be a minimum of twenty (20) ampere rated.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.58 - JUNCTION BOXES.

All panelboards, junction boxes, pull boxes, splice boxes, troughs, wire ways, and raceways shall be mounted and/or secured to a permanent member of the building structure or by other means, as approved by the inspector having jurisdiction.

(1) Electrical equipment, panelboards, junction boxes, pull boxes, troughs, wire ways, raceways, and/or conduit systems shall not be mounted on wallboard (drywall) as a sole support of said electrical equipment or materials as noted above, shall not be installed as to be suspended. Said materials, as noted, shall not be installed as to be supported by the means of drywall, wallboard, and ceiling tile.

(2) Junction or pull boxes located in areas where accessibility is compromised by nature of the type of construction that's being or has been installed hinged access panels shall be installed to insure safe accessibility is maintained.

(3) Said panelboards, junction boxes, troughs, and wire ways as noted above, shall not be installed as to be suspended. Said materials, as noted, shall not be installed as to be supported by the means of drywall, wallboard, and ceiling tile.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.59 - TEMPORARY AND ABANDON WIRING.

All temporary and/or abandoned wiring systems, raceways, conduit systems, boxes, metering devices, and/or service entrance materials shall be removed from any building and/or premises, and properties prior to final inspection.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.60 - REMODELING AND UPGRADING EXISTING MATERIALS.

(A) All existing commercial, industrial, and residential buildings, and tenant spaces that apply for a permit for remodeling purposes and/or additions to existing structures shall be in full compliance with all electrical codes and/or ordinances.

(B) If existing wiring systems, devices, materials, and installation methods are not in compliance with present electrical code and/or requirements, then said wiring, devices, materials, and installation methods shall be upgraded to present code and/or requirements as per the electrical inspector's approval.

(C) Remodeling as identified in this section shall be defined as the following:

(1) Remodeling of more than fifty percent (50%) of a ceiling area in a typical tenant space, building, structure, and/or residence.

(2) Remodeling of more than fifty percent (50%) of walls in a typical tenant space, building, structure, and/or residence.

(3) Remodeling of more than fifty percent (50%) of any service equipment in a typical tenant space, building, structure, and/or residence.

(4) Categorization of "areas" shall be interpreted as walls, ceilings, or service equipment within or associated with a typical tenant space, building, structure, and/or residence.

(D) For inspection purposes, compliance with code requirements will only pertain to areas as identified above that undergo remodeling for which a permit has been obtained.

(E) In a situation where an electrical inspector observes any electrical code violation in a location other than an area undergoing remodeling, where said violation may constitute a hazard or unsafe condition to any occupant or tenant, said violation shall be upgraded to present code requirements, as approved by the director of community development or his designee having jurisdiction.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.62 - NEW CONSTRUCTION.

In newly constructed daycare centers, retirement type complexes, nursing homes, commercial buildings, industrial buildings, single and multi-family type residential dwellings, and to include structures and/or buildings that may not be noted in this chapter, full compliance with all electrical codes, ordinances, addendum amendments as recognized, and/or required by the electrical commission of the Village of Schaumburg, and as adopted by the Village of Schaumburg, shall be observed.

(Ord. No. 13-001, passed 1-8-2013)

§ 152.67 - ELECTRICAL EQUIPMENT DEFINED.

(A) It shall be unlawful for any person, company, and corporation, to sell, offer for sale, give away gratis, install, alter, repair or use any electrical wiring, device, material, equipment, and appliance intended for use in the Village of Schaumburg that does not conform to the standards set forth in the codes and/or ordinances as adopted by the Village of Schaumburg.

ELECTRICAL EQUIPMENT, APPLIANCE, WIRING, DEVICE, AND MATERIAL: Apparatus installed for the utilization of electricity for light, heat, power, and or visual communication or signal transmission or convenience.

(1) Examples of electrical equipment are as noted: conduit, wire way, trough, duct, switchboard, panelboard, distribution center, motor control center, conductor, cable, cord, junction box, cabinet, connector, coupling, tape fitting, switch, receptacle, circuit breaker, fuse, meter fitting, combination of any of the foregoing and, in general, anything that would be utilized in making an electrical installation.

APPLIANCE: As used in the electrical regulations of the codes and/or ordinances, as adopted by the Village of Schaumburg, is hereby defined as meaning any device, machine, piece of apparatus or tool which utilizes or transmits electrical current or energy.

Examples of appliances are as noted: any electric tools, toasters, irons, dryers, washers, dishwashers, stoves, ranges, ovens, rotisseries, fry pans, radios, televisions, office machines, computers, electrical toys, signs, points of display, fixtures, heaters, and, in general, any and all electrical appliances or devices or machines intended by their nature and construction to utilize or transform electrical current in their normal usage.

Exemption: The provisions of the codes and/or ordinances, as adopted by the Village of Schaumburg, are not intended to include apparatus, conductors or equipment installed for or by public utilities, common carriers or commercial radio or television stations, which are under the jurisdiction of the Illinois Commerce Commission, or other state or federal regulatory bodies for their use in their specific operation.

(Ord. No. 13-001, passed 1-8-2013)