Item #4:
Ord. Updating & Amending Building & Fire Codes

VILLAGE OF LONG GROVE

ORDINANCE NO. 2015-__-__

AN ORDINANCE ADOPTING BY REFERENCE VARIOUS STANDARD CODES TO COMPREHENSIVELY AMEND THE VILLAGE OF LONG GROVE BUILDING, CONSTRUCTION, DEVELOPMENT-RELATED CODES

Adopted by the
President and Board of Trustees
of
the Village of Long Grove
this ___ day of _____, 2015

Published in pamphlet form by direction
and authority of the Village of Long Grove,
Lake County, Illinois
this _____ day of _____, 2015

VILLAGE OF LONG GROVE

ORDINANCE NO. 2015-__-__

AN ORDINANCE ADOPTING BY REFERENCE VARIOUS STANDARD CODES TO COMPREHENSIVELY AMEND THE VILLAGE OF LONG GROVE BUILDING, CONSTRUCTION, DEVELOPMENT-RELATED CODES

WHEREAS, Title 4 of the Long Grove Village Code ("***Village Code***") sets forth certain regulations and restrictions known as the "Long Grove Building Regulations" ("***Building Code***") to ensure the public health, safety, and welfare as affected by building construction and to secure safety to life and property from all hazards incident to the occupancy of buildings, structures, or premises; and

WHEREAS, Title 9 of the Village Code sets forth certain regulations and restrictions known as the "Long Grove Fire Regulations" ("***Fire Code***") to ensure the public health, safety, and welfare as affected by building construction by governing conditions hazardous to life and property from fire or explosion in order to secure safety to life and property; and

WHEREAS, the Building Code and the Fire Code adopt by reference, with various modifications, certain state and model codes, the 2009 International Building Code, the 2009 International Residential Code, the 2009 International Mechanical Code, the 2009 International Fuel Gas Code, the 2009 International Fire Code, the 2009 International Energy Conservation Code, the 2008 National Fire Protection Association (NFPA-70) National Electric Code, the 2004 Illinois State Plumbing Code, the 2009 International Existing Building Code, the 1997 Illinois Accessibility Code, the 2009 International Property Maintenance Code, the 2009 International Wildland-Urban Interface Code, and the 2009 International Code Council Performance Code for Buildings and Facilities; and

WHEREAS, in order to ensure that the Village is using the best industry standards and practices, the Village desires to adopt by reference, with various modifications, the 2015 International Building Code, the 2015 International Residential Code, the 2015 International Mechanical Code, the 2015 International Fuel Gas Code, the 2015 International Fire Code, the 2012 International Energy Conservation Code, the 2014 National Fire Protection Association (NFPA-70) National Electric Code, the 2014 Illinois State Plumbing Code, the 2015 International Existing Building Code, the 1997 Illinois Accessibility Code, the 2015 International Property Maintenance Code, the 2015 International Wildland-Urban Interface Code, and the International Swimming Pool and Spa Code, and the 2015 International Code Council Performance Code for Buildings and Facilities; and

WHEREAS, pursuant to the Illinois Municipal Code, 65 ILCS 5/1-3-2, local governments may adopt all or part of the provisions of public records and any published compilation of rules and regulations which have been prepared by nationally recognized associations, including building, electrical wiring, mechanical, fuel gas systems, energy conservation, and property maintenance codes; and

WHEREAS, one copy of the 2015 International Building Code, the 2015 International Residential Code, the 2015 International Mechanical Code, the 2015 International Fuel Gas Code, the 2015 International Fire Code, the 2012 International Energy Conservation Code, the 2014 National Fire Protection Association (NFPA-70) National Electric Code, the 2015 International Existing Building Code, the 2015 International Property Maintenance Code, the

2015 International Wildland-Urban Interface Code, and the 2015 International Swimming Pool and Spa Code, and the 2009 International Code Council Performance Code for Buildings and Facilities have been on file in the office of the Village Clerk for public use, inspection, and examination for at least 30 days preceding the adoption of this ordinance, as required by 65 ILCS 5/1-3-2; and

WHEREAS, three copies of the 2014 Illinois State Plumbing Code and the 1997 Illinois Accessibility Code have been on file in the office of the Village Clerk for public use, inspection, and examination for at least 30 days preceding the adoption of this ordinance, as required by 65 ILCS 5/1-3-2; and

WHEREAS, the Village has complied with the notice requirements of Section 1-2-3.1 of the Illinois Municipal Code, 65 ILCS 5/1-2-3.1; and

WHEREAS, the President and Board of Trustees have determined that it will serve and be in the best interests of the Village and its residents to amend the Building Code and the Fire Code pursuant to this Ordinance;

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Long Grove, County of Lake, State of Illinois, as follows:

SECTION ONE. Recitals. The foregoing recitals are incorporated into this Ordinance as findings of the President and Board of Trustees.

SECTION TWO. Amendment to Chapter 1 of Title 4. Chapter 1, entitled "Building Code," of Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety and shall hereafter be and read as follows:

4-1-1: BUILDING CODE ADOPTED:

There is hereby adopted by the Village the 2015 International Building Code, as hereinafter amended. At least one copy of the 2015 International Building Code has been on file in the office of the village clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-1-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO BUILDING CODE:

The following sections of the 2015 International Building Code are hereby added, amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" or "Department of Building Inspection" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 101.4.3 Plumbing. Delete the wording "The provision of the International Plumbing Code" and insert the following language: "The provision of the Illinois State Plumbing Code." In the last sentence delete the wording "International Private Sewage Disposal Code", and insert the following language: "Lake County Board of Health Ordinance Article V. Regulation of Individual Sewage Disposal System Professionals".

Section 102.2 Other laws. Add the following at the end of the Section:

Nothing herein contained shall be deemed to nullify any provisions of the zoning law or any other statute of the Village pertaining to the location, use, or type of construction of buildings, except as may be specifically required by the provisions of this Code.

Section 102.4.3 Where a conflict exists between the provisions of the Code, the provisions of the Fire District requirements or the Referenced Standards, the stricter requirement shall apply.

Section 102.6 Existing Structures. Add the following at the end of the Section:

Notwithstanding the foregoing or any other contrary provision in this Code, if a structure is increased in floor area or the number of stories, the entire structure shall be made to conform to the requirements of this Code with respect to means of egress, fire protection, light, and ventilations.

Add the following new section: **102.7 Other Regulations.** When the provisions herein specified for health, safety, and welfare are more restrictive than other regulations, this Code shall control; but in any case, the most rigid requirements of either this Code or other regulations shall apply whenever they may be in conflict.

Nothing herein shall be construed as authorizing any use or construction not authorized by the zoning, subdivision, and other applicable ordinances of the Village, and the mention of uses and building types, sizes, or configurations of this Code that are not permitted by other ordinances of the Village shall not be given any force, effect, or meaning in the Village.

Section 103.1 Creation of Enforcement Agency. Delete the text of the Section in its entirety and replace with the following:

The Village of Long Grove Building Department and the official in charge thereof shall be known as the building official. The Village Superintendent and Building Commissioner shall mean the same as building official.

Section 103.3 Deputies. Add the following at the end of the Section:

Any reference to the Fire Official shall be construed to be a reference to the respective, designee of the Jurisdictional Fire Protection District (JFPD). The Jurisdictional Fire Protection District is defined as the Countryside Fire Protection District or the Long Grove Fire Protection District.

103.4 Effective date of this Code: The effective date of this Code shall be _____, 2015.

Insert the following new **Section 103.5 Conflicting or Overlapping Responsibilities.** In the event where there is a conflict or overlap in enforcement responsibility, the Village of Long Grove Manager shall make all final determinations or decisions.

Insert the following new **Subsection 104.6.1. Police Power Authorized**: The Code Official and other officers named who may assist them in case of violations of this Code are hereby authorized to use the policy power of the Village in such manner and to such extent as the character of the violation and the urgency, hazards, rights and interests of the public health and safety may justify and demand for the case involved.

Delete **Subsection 105.1.1.**

Delete **Subsection 105.1.2.**

Delete the text of **Section 105.2** in its entirety.

Insert the following additional language at the end of **Section 105.5 Expiration**: A permit upon issuance shall be valid for a period of eighteen (18) months. The permit shall be of no further force and effect after the eighteen (18) month period.

Insert the following new **Subsection 105.5.1 Permit Duration.** A permit may be extended for one additional six (6) month period upon application of the permit applicant, and the payment of a one hundred dollar ($100.00) permit extension fee. In the event that all construction has not been completed within the eighteen (18) month period, or as may be extended to twenty-four (24) months in accordance with this section, no further construction shall occur, until the permit applicant shall obtain a new permit and pay all fees associated therewith. It is the purpose of this section to provide a reasonable time for the construction activities to occur, but to provide an outside limit to avoid unduly prolonging the disturbing aspects that occur with construction, and in particular the impact on people and properties with the immediate vicinities thereof.

Insert the following new **Section 105.8 Demolition Permit Applications.**

> **105.8.1** In addition to other permit requirements set forth in this code, no permit shall be granted for the demolition of the principal building on any lot unless either (i) the plans for the replacement principal building or structure to be constructed on such lot have been approved or (ii) in the absence of such plans, landscaping and screening plans for the lot have been approved. Work on any replacement principal structure or landscaping and screening plans shall be commenced within 60 days after completion of the demolition of the principal building on the lot in question.
>
> **105.8.2** In no event shall a demolition permit be issued any earlier than 120 days after the filing of a completed application for a demolition permit. Notwithstanding the foregoing, the Village Board of Trustees may, by motion, waive the 120 day waiting period in whole or in part. In addition, during the one year period following the issuance of the demolition permit, no building permit shall be issued to allow the construction of a structure or building on a lot for which a demolition permit was granted pursuant to Section 105.8.1(ii) of this Code.
>
> **105.8.3** Within 21 days of the receipt of a demolition permit application, the Village shall cause notice of such application to be (i) published in a newspaper of general circulation within the Village and (ii) posted on the frontage of the property that is the subject of the

demolition permit application. The latter notice shall remain posted on the property for a period of two weeks.

Add new subsection **105.9 Construction Security**

In addition to the permit fees otherwise required by this code, prior to the issuance of any demolition permit, the applicant shall deliver to the Village a cash deposit or letter of credit as security for the completion of the permitted activity in accordance with all applicable village codes, ordinances, and regulations. Upon completion of all work to the satisfaction of the village, the village shall return the construction security to the applicant or the applicant's designee, less any amounts due for additional inspections or permit fees, unpaid fines, or any unpaid charges for damages done during the construction project to any property or facility. The amount of the construction security shall equal 100% of the estimated project cost.

Section 109.2 Schedule of Permit Fees. Insert the following at the end of the Section:

The permit fees required by this Code shall be paid to the Village Clerk or the Clerk's duly authorized agent for which a receipt shall be issued. No permit shall be valid until such fees are paid and the receipt issued therefor. See the Village of Long Grove Fee Schedule.

Insert the following new **Section 109.7 Security Deposit.** In addition to the permit fees otherwise required by this code, prior to the issuance of any permit, the applicant shall deliver to the Village a cash deposit as security to ensure compliance with all applicable Village codes, ordinances, and regulations during the building permit activity. Upon completion of all work to the satisfaction of the Village, the Village shall refund the security deposit to the original security deposit remitter less any amounts due for additional inspections or permit fees, unpaid fines, any unpaid charges for damages done during the construction project to any public property or facility, costs for third-party consultants, and expenses incurred by the Village. The amount of the security deposit shall be in accordance with Village Code Fee Schedule, and the Village may require that the applicant deliver additional cash to the Village to ensure that the full amount of the cash deposit remains in place until completion of the project. If an applicant fails to make supplemental cash deposits pursuant to the preceding sentence within five (5) business days following written notice therefor, the Village Superintendent may issue a stop work order with respect to the project and all activities authorized under a permit. The Village Superintendent may extend the time for maintaining a security deposit for a period not to exceed six months. Security deposits shall be governed by the provisions of this Chapter and Section 12-1-3 of the Village Code. In the event of any inconsistency between this Chapter and Chapter 1A of the Village Code, the provision that affords the Village greater protection under the circumstances as determined by the Village Superintendent shall control.

Insert the following new **Subsection 109.7.1 Liability for Property Damage.** The Village shall deduct from the security deposit the cost to correct any damage to public properties which is directly related to the construction for which the permit has been issued.

Insert the following new **Subsection 109.7.2 Cleanup of Construction Site.** The Village shall deduct from the security deposit the cost to remove litter, refuse, and construction material waste from the site, to maintain the site in litter free condition, and to prevent litter, refuse, and construction material waste from being deposited upon other properties. The Village Superintendent shall give the applicant, when practicable, five (5) days' prior written notice of intent to have the site cleaned up, and deduct from the construction security deposit. If the

applicant fails to adequately clean the site and remove all litter and construction material waste, within the five (5) day period, or sooner if necessary, the Village Superintendent shall make arrangements to have the site rendered clean and free of litter, refuse, and construction material waste, with all costs incurred by the Village to be deducted from the construction security deposit.

Insert the following new **Subsection 109.7.3 Construction Site Safety.** The Village may use the security deposit to defray the cost of rendering a site safe. This would include, but not be limited to, installing or maintaining soil erosion and sedimentation control devices, boarding up a structure, covering a structure, or removing a structure that has not been rendered safe within the time period required by the permit or in within any extension of time granted by the Village Superintendent granted in accordance with applicable regulations. The Village Superintendent, when practicable, shall give forty eight (48) hours' prior written notice to the applicant of intent to perform construction site safety related work on the site. If the site is not corrected within the forty eight (48) hour period, or sooner when an emergency exists, the Village Superintendent may take whatever steps are necessary to render the site safe, and with all costs incurred by the Village to be deducted from the construction security deposit.

Insert the following new **Section 111.5 Incomplete Exterior Site Work.** Upon issuance of certificate of occupancy for new single family dwelling and new commercial building construction, an escrow deposit of $5,000.00 shall be submitted for incomplete exterior site improvements such as but not limited to exterior finished grading, landscaping, soil and erosion sedimentation control and stabilization, and vehicle driveway construction. A final inspection is required prior to release of escrow deposit. The Village Superintendent shall determine the time schedule to complete exterior site work construction and release of escrow deposit.

Insert the following new **Section 111.6 Commercial Business Certificate of Occupancy.** A new commercial business owner and/or tenant shall request pre-occupancy inspection by the Village building department and Jurisdictional Fire Protection District prior to issuance of a Commercial Business Certificate of Occupancy.

Section 113.1 General. Delete the text of this Section in its entirety and replace with the following:

Any person aggrieved by an action taken, order issued or determination made pursuant to this Code, may appeal to the Village of Long Grove Board of Trustees for reconsideration. The Village of Long Grove Board of Trustees may prescribe by rule or otherwise the manner in which such appeal should be heard and determined.

Section 113.3 Qualifications. Delete this Section in its entirety and replace with the following new **Section 113.3 Court Review**:

Section 113.3 Court Review. Any person aggrieved following an appeal as provided in Section 113.1 may petition the Lake County Circuit Court in the manner provided by law for such relief as may be available under the circumstances.

Section 114.4 Violation Penalties. Insert the following at the end of the Section: See the current Village of Long Grove Fee Schedule.

Insert the following new **Section 115.4 Notice (Stop Work Order):** Upon notice from the Code Official or such Official's authorized representative, who is hereby empowered and directed to

stop work on any building, structure, or portion thereof that is being done in a reckless, unsafe or unsanitary manner, or with the use of defective or improper materials; and on any building, structure, or portion thereof, proposed for unlawful purposes as regards location, intended use, or occupancy; and any work that in any other respect is being done contrary to the provisions of this Code or to the requirements of any other laws of the Village. This right and duty shall exist and be performed irrespective of any permit that may or may not have been either required or issued for the work, building, structure, or any portion thereof, involved.

Chapter 9 NOTE: See the amendments to the International Fire Code for additional fire protection system requirements. In the event of a conflict, the most rigid requirements of either this Code or the International Fire Code shall apply.

Delete the text of **Section 903.2** in its entirety and replace with the following, but do not delete the Exception:

All new buildings and structures in any use group, regardless of size or height, shall have an automatic sprinkler system.

Section 903.2 Where Required. Number the existing Exception as "Exception 1", and add the following additional Exceptions:

Exception 2: Remodeling that does not affect means of egress or a change of use, except when changing to an Assembly Use Group.

Exception 3: Detached structures, which comply with all of the following, do not require automatic fire sprinklers:

1. Less than one thousand (1,000) square feet in floor area
2. Single story
3. Not used as a dwelling
4. Not a High Hazard Group
5. Not used for high hazard products or hazardous materials storage
6. No basement level
7. Minimum 20 feet separation to other buildings

Delete **Subsections 903.2.1 through 903.2.11.1.3.**

Delete **Subsection 903.2.11.3** and renumber the remaining **Subsections 903.2.11.4 - 903.2.12** as **Subsections 903.2.1 – 903.2.4.**

Section 1009.10. Delete text and replace with the following: Alternate Tread Devices shall not be permitted in any new occupancy.

Delete **Subsection 1009.10.1** and **Subsection 1009.10.2** and the Exception in their entireties.

Section 1103.1 Where required. Add the following at the end of the Section: The State of Illinois Accessibility Code shall control the design and construction of buildings and facilities for accessibility and use by physically disabled persons. When there is a conflict between the Illinois Accessibility Code and the accessibility requirements in the International Building Code, the stricter shall apply.

Delete **Sections 1206.1 through 1206.3.3 Yards or Courts** and replace with "[intentionally left blank]".

Add the following new **Section 1511.7 Roof covering materials**: In all occupancies, no roof materials shall be constructed over or enclosed within a new roof or new structure.

Section 1612 Flood Loads. Delete the text in **Section 1612.1** through **Section 1612.5** and replace with the following new **Subsection 1612.1 General**: See Section 4.1-1-1 of the Long Grove Village Code, adopting by reference the Lake County Watershed Development Ordinance as most recently amended by the County of Lake in the State of Illinois.

Sections 1807.1 & 1809.12 Delete all references to Wood or timber Footings and /or Foundations. The use of wood or timber foundations is not allowed.

Delete Chapter 29 in its entirety and insert the following language: See the Illinois State Plumbing Code

Subsection 3001.2. Referenced Standard. Insert the following Exception:

Exception: Except as otherwise provided in this Code, and except where more restrictive provisions govern, the construction, alteration, maintenance, operation, inspections and tests of elevators, dumbwaiters, moving walks and escalators shall conform to ANSI/ASME.

Chapter 35 Referenced Standards

Delete ICC Electric Code

Delete International Plumbing Code and insert the Illinois Plumbing Code – 2014. This change affects all references to the International Plumbing Code in the entire code.

Delete the International Sewage Disposal Code.

NFPA See the changes indicated in the International Fire Code amendments.

Appendices: Adopt the following appendices: G, H105, H106, J.

4-1-3: REPEALING CLAUSE, EXCEPTIONS:

All ordinances of the village or parts of ordinances in conflict herewith are hereby repealed with the exception that in all instances where the current requirements, standards and obligations, as set forth in existing village ordinances, are greater than or in excess of corresponding requirements, standards or obligations as set forth in the 2015 International Building Code, then said requirement, standard or obligation as set forth in said ordinance or ordinances shall prevail and said requirement, standard or obligation shall be complied with.

4-1-4: OCCUPANCY PERMITS:

(A) No new structures shall be occupied unless and until a valid certificate of occupancy has been issued by the village.

(B) Pursuant to 35 Illinois Compiled Statutes 210/1 et seq., no certificate of occupancy shall hereinafter be issued unless and until the notice requirements contained herein have been satisfied.

As a precondition to issuance of a certificate of occupancy, an unexecuted certificate of occupancy shall be filed with the assessor of the township in which the property is located. The property owner must obtain from the assessor, in a form prescribed by him, a receipt demonstrating that the unexecuted certificate of occupancy has been filed, and further indicating that the property is subject to increased assessment from the date of issuance of the certificate of occupancy on a proportionate basis for the year in which the improvement was completed and occupied.

The owner of the property shall file such receipt with the village. The building inspector is authorized and directed, upon issuance of an occupancy permit, to file a certified copy thereof with the appropriate township assessor.

SECTION THREE. Amendment to Chapter 2 of Title 4. Chapter 2 of Title 4, entitled "Building Regulations," of the Long Grove Village Code, which Chapter 2 was previously repealed by Long Grove Ordinance Number 1998-O-14, shall be and is hereby amended in its entirety so it shall be entitled "Residential Code" and shall hereafter be and read as follows:

4-2-1: RESIDENTIAL CODE ADOPTED:

There is hereby adopted by the Village the 2015 International Residential Code for one- and two-family dwellings, as hereinafter amended (hereinafter the "Residential Code"). At least one copy of the International Residential Code has been on file in the office of the village clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the village clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-2-2: APPLICATION:

The International Residential Code shall apply to all single-family detached dwellings and two-family dwellings and all buildings and structures accessory thereto that are expressly regulated by the International Residential Code.

4-2-3: DELETIONS, ADDITIONS, AND MODIFICATIONS TO RESIDENTIAL CODE:

The following sections of the 2015 International Residential Code are hereby added, amended, revised, and changed as follows:

Passim. Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim. Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim. Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the

Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

R101.1 Insert The Village of Long Grove

Section R102.1 General. Add the following sentence at the end of this Section: In addition, when other Codes, ordinances, or regulations of the Village impose more rigid requirements (as determined by the Code Official), such more rigid requirements shall apply, notwithstanding any conflict with provisions of this Code.

Section R108.2 Schedule of Permit Fees. Insert the following language at the end of the Section: See the Village of Long Grove Fee Schedule.

Section R112 Board of Appeals. Delete the text of the Section in its entirety, including Section 112.1 – 112.4, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Section R113.4 Violation Penalties. Insert the following language at the end of the Section: See Village of Long Grove Fee Schedule.

Section 202 Add the following new definition: New construction, the following shall be classified as new construction.

1. new buildings
2. existing buildings or structures having height and/or area added
3. existing buildings having interior alterations exceeding fifty percent (50%) of the overall square footage
4. existing buildings having interior alterations over fifty 50% of the fair market value
5. existing building changing groups

Insert the following information into **Table R301.2(1)**:

Ground Snow Load	25
Wind Speed (mph)	3 second 90 normal 75
Topographic Effects	No
Seismic Design Category	C
Special wind region	No
Wind-borne debris zone	No
Seismic Design Category	A
Weathering	Severe
Frost line depth	42 inches
Termite	Moderate to heavy
Winter Design Temperature	-4 degrees
Ice Shield Underlayment	Yes
Flood Hazard	See Village of Long Grove Stormwater Ordinance
Air Freezing Index	2000
Mean Annual Temperature	50 degrees

Section R313.2 One- and Two-family Dwellings Automatic Fire Systems. Delete the text of the Section, but do not delete the Exception, and replace with the following: All buildings and structures regulated by this code shall be protected by a fire sprinkler system that complies with the provisions of NFPA 13D standard.

Subsection R313.2.1 Design and Installation. Delete the text of the Subsection in its entirety, and replace with the following: Automatic residential fire sprinkler systems shall be designed and installed in accordance with NFPA 13D.

Insert the following additional **Subsection R313.2.1.1 Freeze Protection.** All fire sprinkler piping located in floor or ceiling joists, exterior cold wall cavities, in unconditioned cold concealed attic spaces shall be protected from freezing. All sprinkler piping installed in joist spaces shall be protected with solid draft stop material. The draft stop material shall be installed within the joist space cavity and within 24 inches of exterior rim board.

Insert the following additional **Subsection R313.2.1.2 Attached Garages**. All new attached garages require fire sprinkler protection. The use of dry sidewall or pendant sprinklers is allowed. The area of coverage and placement shall be approved by the Fire Code Official.

Insert the following additional **Subsection R313.2.1.3 Electrical Power Disconnect.** There shall be no electrical power disconnect located at the fire pump.

Insert the following additional **Subsection R313.2.1.4 Outside Strobe Light.** Provide a strobe light on the exterior of the structure which is connected to the fire sprinkler water flow device. The location of the strobe light shall be approved by the Fire Code Official.

Insert the following additional **Subsection R313.2.1.5 Detached Structures.** Detached structures, which comply with all of the following items, do not require automatic fire sprinklers.

1. Less than one thousand (1,000) square feet in floor area.
2. Single story
3. Not used as a dwelling
4. Not a High Hazard Use Group
5. Not used for high hazard products or hazardous materials storage
6. No basement level
7. Minimum 20 feet separation to other buildings

Insert the following additional subsection **R313.2.1.6 Vertical Shafts.** Fire sprinkler protection is not required in vertical shafts for residential handicap lifts or elevators.

R313.2.1.7 One and Two Family Automatic Sprinklers Additions Add the following: New second story additions to existing residential buildings shall be equipped with an approved fire sprinkler system. All areas beneath stairs shall be dry walled and provided with sprinkler protection.

Further, all sprinkler system piping located in exterior wall cavities or in unconditioned attics shall be insulated per attached drawing.

Chapter 11 Energy Efficiency Delete the section in its entirety and insert the Illinois Energy Efficiency Act which adopt and amends the 2012 edition of the International Energy Conservation Code.

Chapters 25 through 33. Delete the Chapters and add the following: See Illinois State Plumbing Code as amended by this ordinance.

Lake County Health Department Ordinance regulates private individual sanitary sewer septic systems.

Chapter 44 Referenced Standards.

Delete ICC Electric Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

Delete the International Sewage Disposal Code.

NFPA See the changes indicated in the International Fire Code amendments.

Appendices: Adopt the following Appendices as code: A, B, C, D, E, F, G, K and O

Amend the following sections of the appendix AE 101.1.1:

A. Pre-manufactured, modular construction shall not be allowed.

B. All construction shall be open wall and assembled on site.

SECTION FOUR. Amendment to Chapter 5 of Title 4. Chapter 5, entitled "Electrical Code," of Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety and shall hereafter be and read as follows:

4-5-1 NATIONAL ELECTRICAL CODE ADOPTED. The National Electrical Code of 2008 (NFPA 70- 2014) as issued and promulgated by the National Fire Protection Association, and approved by the American National Standards Institute, which by this reference is hereby adopted and incorporated as fully as if set out at length herein, except as amended, added to, or modified hereafter as set forth and applicable to existing or proposed buildings, structures or premises containing wiring or electrical equipment, is hereby adopted as the Electrical Code of the Village of Long Grove, Lake County, Illinois. At least one copy of the National Electrical Code of 2014 (NFPA 70- 2014) has been on file in the office of the village clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the village clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-5-2 ADMINISTRATION AND ENFORCEMENT. The provisions in Chapter 1 of the 2015 International Building Code adopted by the Village of Long Grove, shall be the administration and enforcement provisions to be applied to the National Electrical Code.

4-5-3 DELETIONS, ADDITIONS, AND MODIFICATIONS TO NATIONAL ELECTRICAL CODE. The following articles and sections of the 2014 National Electrical Code as adopted are hereby amended:

Article 90.8 Wiring Planning. Add the following additional Articles 90.8(A)(1) and 90.8(A)(2):

Article 90.8(A)(1) Dwelling Units. An unused (1-1/4 in.) raceway shall be provided from the basement to the attic.

Article 90.8(A)(2) New Panelboards and Load Centers. Newly installed panelboards and load centers shall have 10% of circuit spaces available for future expansion.

Article 110.3 Examination, Identification, Installation, and Use of Equipment. Add the following sentence to the end of the Article: "All equipment shall be tested by a Nationally recognized testing laboratory."

Article 110.12 Mechanical Execution of Work. Add the following additional Articles 110.12(C)-(E).

Article 110.12(C) Inspection of Mechanical Work. All mechanical work must be completed and inspected before installation of conductors.

Article 110.12(D) Abandoned Wiring. All abandoned conduit, wire, or other electrical equipment and material must be removed. This includes low-voltage wiring, data processing cable, etc.

Article 110.12(E) Housekeeping Pad. Freestanding electrical equipment designed for floor installations must be mounted on a 10 cm. (4in.) thick concrete housekeeping pad.

Article 210.8(A) Dwelling Units. Delete the text in its entirety and replace with the following:

All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified below shall have ground-fault circuit-interrupter protection for personnel. GFCI protected receptacles with slave capability shall not be permitted to connect to downstream receptacles or outlets other than those which are installed in the immediate area the lead GFCI receptacle is located.

(1) Bathrooms.

(2) Garages, and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas, and areas of similar use.

Exception: Receptacles that are not readily accessible.

Exception: A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily

moved from one place to another, and that is cord- and plug-connected in accordance with Article 400.7(A)(6), (A)(7), or(A)(8).

Receptacles installed under the exceptions to Article 210.8(A)(2) shall not be considered as meeting the requirements of Article 210.52(G).

(3) Outdoors.

Exception: Receptacles that are not readily accessible and are supplied by a dedicated branch circuit for electric snow-melting or deicing equipment shall be permitted to be installed in accordance with the applicable provisions of Article 426.

(4) Crawl spaces. Where the crawl space is at or below grade level.

(5) Unfinished basements. For purposes of this section, unfinished basements are defined as portions or areas of the basement not intended as habitable rooms and limited to storage areas, work areas, and the like.

Exception: Receptacles that are not readily accessible.

Exception: A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another, and that is cord- and plug-connected in accordance with Article 400.7(A)(6), (A)(7), or (A)(8).

Exception: A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit interrupter.

Receptacles installed under the exceptions to Article 210.8(A)(5) shall not be considered as meeting the requirements of Article 210.52(G).

(6) Kitchens. Where the receptacles are installed to serve the countertop surfaces.

(7) Within 1.83 m (6 ft.) of sinks or other wet areas.

(8) Boathouses.

(9) Sun Porches, 3-Season Rooms, Screen Porches and the like.

Article 210.8(B) Other Than Dwelling Units. Delete the text in its entirety and replace with the following:

All 125-volt, single phase, 15- and 20- ampere receptacles installed in the locations specified below shall have ground fault circuit-interrupter protection for personnel. GFCI protected receptacles with slave capability shall not be permitted to connect to downstream receptacles or outlets other than those which are installed in the immediate area the lead GFCI receptacle is located.

(1) Bathrooms - Electric hand dryers.

(2) Kitchens

(3) Rooftops

Exception 1. Receptacles that are not readily accessible.

Exception 2. A single receptacle or a duplex receptacle for two appliances located within a dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7(A)(6), (A)(7) and (A)(8).

Exception 3. Single receptacles for the connection of point of sales terminals, computer terminals, and data terminals where these types of equipment are installed in the kitchen.

(4) Outdoor Receptacles - at grade level or accessible at grade level.

Exception: Receptacles that are not readily accessible and are supplied from a dedicated branch circuit for electric snow melting or deicing equipment, shall be permitted to be installed with the applicable provisions of Article 426.

(5) Receptacles within 1.83 m (6 ft.) of sinks or wet areas.

(6) Wet bars: under bar lighting, bar area receptacles.

(7) Locker Rooms.

(8) Outdoors, where installed to comply with 210.63.

Article 210.12(B) Dwelling Unit Bedrooms. Delete the text in its entirety and replace with the following:

All branch circuits that supply 125-volt, single phase, 15 and 20-receptacle outlets installed in dwelling unit bedrooms shall be protected by an arc-fault circuit interrupter listed to provide protection of the entire branch circuit.

Article 210.52(B) (3) Kitchen Receptacle Requirements. Add the following new sentence at the end of paragraph: Receptacle outlet(s) shall be 20 amp rated.

Article 210.52(G) Basements and Garages. Delete the text in its entirety and replace with the following:

For a one-family dwelling, at least one receptacle outlet, in addition to any provided for laundry equipment, shall be installed in each basement. Where a portion of the basement is finished into one or more habitable rooms, each separate unfinished portion shall have a receptacle outlet installed in accordance with this section.

For attached garages and detached garages with power:

(1) A separate 20-ampere circuit shall be provided for plug-in equipment and devices.

(2) A separate circuit shall be provided for overhead garage door(s).

(3) A separate circuit shall be provided for lighting. In addition there shall be at least one lighting outlet on the interior of the garage and at least one lighting outlet on the exterior of the garage. A switch shall be installed to control these outlet(s).

Add the following new **Article 210.53 Other than Dwelling Units Receptacles.** Receptacle outlets in offices or similar areas shall be installed as specified in (A), (B) and (C).

(A) Spacing. Receptacles shall be installed so that no point along the floor line in any wall space is more than 1.83 m (6 ft.) measured horizontally, from an outlet in that space.

(B) Wall Space. As used in this section, a wall space shall include the following:

(1) Any space 610 mm (2 ft.) or more in width (including spaces measured around comers) and unbroken along the floor line by doorways, and other similar openings.

(2) The space occupied by fixed panels in exterior wall, except sliding doors.

(3) Hallways shall have at least one receptacle outlet installed every 6 m (20 ft.) or fraction thereof. As used in this subsection, the hall length shall be considered the length along the centerline of the hall without passing through a doorway.

(C) Floor Receptacles. Receptacle outlets in the floor shall not be counted as part of the required number of receptacle outlets unless located within 457 mm (18 in.) of the wall. Permanently installed electric baseboard heaters equipped with factory installed receptacle outlets or outlets provided as a separate assembly by the manufacturer shall be permitted as the required outlet or outlets for the wall space utilized by such permanently installed heaters. Such receptacle outlets shall not be connected to the heater circuits.

Exception: Wall spaces inside of unoccupied spaces such as warehouses, bathrooms, storage rooms, utility closets, and other areas allowed by the Authority Having Jurisdiction.

Article 210.70(A)(1) Habitable Rooms. Delete the text in its entirety and replace with the following:

At least one wall switch-controlled lighting outlet shall be installed in every habitable room, bathroom, and exterior door. Said wall switch(es) shall be located at all entries to the room, hallway, stairway, and the like.

Exception No. 1: In other than kitchens, bathrooms, and bedrooms one or more receptacles controlled by a wall switch shall be permitted in lieu of lighting outlets.

Exception No. 2: Lighting outlets shall be permitted to be controlled by occupancy sensors that are (1) in addition to wall switches or (2) located at a customary wall switch location and equipped with a manual override that will allow the sensor to function as a wall switch.

Article 210.70(A)(3) Storage or Equipment Spaces. Delete the text in its entirety and replace with the following:

For attics, underfloor spaces, utility rooms, basements, closets, storerooms, and similar locations 1 sq. m (9 sq. ft.) or larger, at least one lighting outlet containing a switch or controlled by a wall switch shall be installed. At least one point of control shall be at the usual point of entry to these spaces. The lighting outlet shall be provided at or near the equipment requiring servicing.

Article 220.14(A) Specific Appliances or Loads. Delete the text in its entirety and replace with the following:

An outlet for a specific appliance or other load not covered in 220.14(b) through (1) shall be calculated based on the ampere rating of the appliance or load served. In addition, independent circuits shall be provided for each of the following appliances: range, oven if separate from range, water heater, clothes washer, clothes dryer, garbage disposal, microwave, compactor, dishwasher, freezer, refrigerator, whole house vacuum, garage door operator(s), tubs with pumps, steam generators, built-in ironing, sump and ejector pumps, furnaces, air conditioners, permanently connected heating appliances rated at one thousand (1,000) watts or more, including motors rated at one-quarter (1/4) horse power and over.

Article 225.10 Wiring On Buildings. Delete the text in its entirety and replace with the following:

All conduit installed on the exterior of any building, sign or pole shall be rigid galvanized metal conduit, galvanized intermediate metal conduit or rigid aluminum conduit. However, rigid aluminum conduit shall not be used where exposed to mechanical damage. At no time shall rigid aluminum conduit be installed between grade level and 2 m (6 ft.) above grade level where vehicular traffic is present or where vehicular traffic could be present (rear of buildings, in alleyways, delivery areas, etc.). In these areas, the use of rigid galvanized metal conduit shall be approved.

Article 225.36 Suitable for Service Equipment. Delete the text in its entirety and replace with the following:

The disconnecting means specified in 225.31 shall be suitable for use as service equipment and contain a minimum of four breaker spaces, plus a main. All circuits supplying the garage or outbuilding must originate in said building. See 210.52(G) for circuit requirements.

Article 230.30 Insulation. Delete exceptions in their entireties. There shall be no exceptions to Article 230.30.

Article 230.41 Insulation of Service-Entrance Conductors. Delete exceptions in their entireties. There shall be no exceptions to Article 230.41.

Article 230.42(C) Grounded Conductors. Delete the text in its entirety and replace the following:

The grounded conductor must be at least the same size as the ungrounded conductors.

Article 230.43 Wiring Methods for 600 Volts, Nominal, or Less. Delete the text in its entirety and replace with the following:

Rigid Metal Conduit or Intermediate Metal Conduit is required for all service entrances.

Article 230.44 Cable Trays. Delete the text in its entirety and replace with [Intentionally left blank.]

Article 230.70(A)(1) Readily Accessible Location. Delete the text in its entirety and replace with the following:

The service disconnecting means shall be installed at a readily accessible location outside of the residential, commercial or other building or structure near the utility metering, or other approved location. A switch, fuse, circuit breaker, shunt-trip control, or other approved means may be used.

If an over-current type disconnect is not used, the service entrance conductors shall not be more than 1.5 m (5 ft.) in length from where they enter the building.

If a shunt-trip control is used, see Electrical Inspector for approved switches.

Article 230.79(C) One-Family Dwelling. Add the following additional language at the end of the Article: Each unit shall comply with this Article.

Article 230.79(D) All others. Delete the text in its entirety and replace with the following:

Article 230.79(D) Multi-Family Dwelling Services. The service size shall be determined according to NEC article 220. Each unit in a multi-family dwelling shall have a minimum one hundred (100) amp main disconnect, with at least 20 branch circuit openings. The conductors shall not be less than #3 copper, installed in a minimum 35 mm (1-1/4 in.) conduit (See 230.43 Amendments), and shall comply with disconnect requirements in accordance with 230.70(A)(1) amendments.

Article 230.79 Rating of Service Disconnecting Means. Add the following new Articles 230.79(E) and (F).

Article 230.79(E) Residential Service Revisions. All residential service revisions shall have a minimum one hundred (100) amp main disconnect, with at least 20 branch circuit openings. The conductors shall not be less than #3 copper, installed in a minimum 35 mm (1-1/4 in.) conduit (see 230.43 Amendments), and shall comply with disconnect requirements in accordance with 230.70(A)(1) amendments.

Article 230.79(F) All Others. For all other installations, the service disconnecting means shall have a rating of not less than 60 amperes. The conductors shall be sized in accordance with 310.16 and shall be installed in conduit (see 230.43 Amendments), and shall comply with disconnect requirements in accordance with 230.70(A)(1) amendments.

Add the following new **Article 240.88 Circuit Breakers For Other Than Dwelling Units.** All circuit breakers shall be of the bolt-on type.

Article 250.64(B) Securing and Protection from Physical Damage. Delete the text in its entirety and replace with the following:

All grounding electrode conductors shall be in rigid metal conduit, intermediate metal conduit, or electrical metallic tubing, and shall be securely fastened to the surface on which it is carried.

Exception: A bare grounding conductor may be installed under a concrete slab.

Table 250.66 Grounding Electrode Conductor for Alternating-Current Systems. Delete the text in its entirety and replace with the following:

Table 250.66. Grounding Electrode Conductor for AC Systems.

Size of Largest Service-Entrance Conductor or Equivalent Area for Parallel Conductors (AWG/kcmil)	Size of Grounding Electrode Conductor (AWG/kcmil)
Copper	Copper
3/0 or smaller	4 minimum
Over 3/0 through 350	2
Over 350 through 600	1/0
Over 600 through 1100	2/0
Over 1100	3/0

Delete **Article 250.112(I) Remote-Control, Signaling, and Fire Alarm Circuits** in its entirety and replace with the following new **Article 250.112(I) Power-Limited Remote-Control, Signaling, and Fire Alarm Circuits:**

Article 250.112(I) Power-Limited Remote-Control, Signaling, and Fire Alarm Circuits. Equipment supplied by Class 1 power-limited circuits, and Class 1, Class 2 and Class 3 remote-control and signaling circuits, and by fire alarm circuits, and by security system circuits shall be grounded.

Add the following new **Article 250.112(N) Central Air Conditioning Unit**. A separate equipment grounding conductor shall be installed for all central air conditioning units. Conductors shall be installed in liquid-tight flexible metal conduit to avoid vibrations from the building to the unit. Electrical plastic tape shall not be used to fasten low voltage wiring to conduit or refrigerant lines. Plastic ties approved for the purpose shall be used.

Article 300.4 Protection Against Physical Damage. Add the following new **Article 300.4(I):**

Article 300.4(I) Protection Against Physical Damage. Conductors shall not be pulled in conduit, until wall finishes are applied or all mechanical work is completed, without the consent of the electrical inspector.

Add the following new **Article 300.24 Abandoned Raceways, Cables and Wiring**. All abandoned conduit, low voltage wiring, fire alarm wiring and electrical equipment shall be removed from all ceilings, walls and floor areas.

Article 310.1.1 Minimum Size of Conductors. Delete the first sentence in its entirety and insert the following:

The minimum size of conductors shall be as shown in Table 310.5, but shall not be smaller than #12 AWG for commercial or industrial applications.

Article 310.106(B) Conductor Material. Delete the text in its entirety and replace with the following:

Conductors in this article shall be of copper and capable of withstanding the load connected.

Exception: Feeders sized 350 kcmil or greater may be aluminum as specified in NEC 310.14

Article 312.10(C) Nonmetallic Cabinets. Delete the text in its entirety and replace with the following [Intentionally left blank.]

Article 314.16(A)(1) Standard Boxes. Delete the text in its entirety and replace with the following:

The minimum size box that can be used is a 100 x 38 mm (4 by 1-1/2 in.) square/octagonal. The volumes of standard boxes that are not marked shall be as given in Table 314.16(A).

Article 314.20 In Wall or Ceiling. Delete the text in its entirety and replace with the following:

In walls or ceilings with a surface of concrete, tile, gypsum, plaster, or other noncombustible material, boxes shall be installed so that the front edge of the box will not be set back of the finished surface more than 6 mm (1/4 in.).

In walls and ceilings constructed of wood or other combustible surface material, boxes shall be flush with the finished surface or project therefrom.

In addition, the offset between interior and exterior boxes shall be at least 200 mm (8 in.). Back to back installations are not approved.

Article 314.27(A) Boxes at Luminaire (Lighting Fixture) Outlets. Delete the text of **Article 314.27(A)** in its entirety and replace with the following:

(1) Boxes used at luminaire (lighting fixture) or lampholder outlets shall be designed for the purpose. At every outlet used exclusively for lighting, the box shall be designed or installed so that a lighting fixture may be attached.

(2) For Dwelling Units, all junction boxes roughed in for ceiling openings in bedrooms, family rooms, living rooms, dinning room, kitchens, dens, foyers and other rooms or areas where ceiling fans are commonly installed, shall be installed so as to provide adequate support for ceiling fans and shall be listed for this purpose.

Article 320 Armored Cable: Type AC. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 322 Flat Cable Assemblies: Type FC. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 324 Flat Conductor Cable: Type FCC. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 330 Metal-Clad Cable: Type MC. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 332 Mineral-Insulated, Metal-Sheathed Cable: Type MI. Delete the text in its entirety and replace with the following: [Intentionally left blank.]

Article 334.10 Uses Permitted. Delete the text in its entirety and replace with the following:

Type NM, NMC and NMS cables shall be permitted to be used in the following:

(1) For low voltage wiring as may be required in Article 411.

(2) For temporary wiring as may be required in Article 590.

Article 338 Service Entrance Cable: Types SE and USE. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 340 Underground Feeder and Branch Circuit Cable: Type UF. Delete the text in its entirety and replace with the following: [Intentionally left blank.].

Article 348.10 Uses Permitted. Delete the text in its entirety and replace with the following:

Flexible metal conduit shall be permitted to be used in exposed and concealed locations only where necessary to fish through existing partitions, or where use of EMT is not feasible, and shall terminate into an approved metal raceway system or junction box within 1 m (3 ft.) of exposure.

Article 348.60 Grounding and Bonding. Delete the text in its entirety and replace with the following:

An equipment grounding conductor shall be installed regardless of length of Flexible Metal Conduit. When required and installed, equipment grounding conductors shall be installed in accordance with 250.134(B). When required and installed, equipment bonding jumpers shall be installed in accordance with 250.102.

Article 350.60 Grounding and Bonding. Delete the text in its entirety and replace with the following:

An equipment grounding conductor shall be installed regardless of length of Liquidtight Flexible Metal Conduit. When required and installed, equipment grounding conductors shall be installed in accordance with 250.134(B). When required and installed, equipment bonding jumpers shall be installed in accordance with 250.102.

Article 352.10 Uses Permitted. Delete the text in its entirety and replace with the following:

The use of Rigid Nonmetallic Conduit shall be permitted under the following conditions.

> **Underground Installations**. For underground installations, see 300.5 and 300.50. Conduits listed for the purpose shall be permitted to be installed underground in continuous lengths from a reel. The conduit must transition into an approved metallic conduit before becoming exposed or subject to physical damage.

Exception: Concrete pole bases where pole encloses conduit and wiring.

Article 356.60 Grounding and Bonding. Delete the text in its entirety and replace with the following:

An equipment grounding conductor shall be installed regardless of length of Liquidtight Flexible Nonmetallic Conduit. When required and installed, equipment grounding conductors shall be installed in accordance with 250.13403). When required and installed, equipment bonding jumpers shall be installed in accordance with 250.102.

Article 358.10 Uses Permitted. Delete the text in its entirety and replace with the following:

(A) Exposed and Concealed The use of Electrical Metallic Tubing shall be permitted for both exposed and concealed work.

(B) Corrosion Protection. Ferrous or nonferrous Electrical Metallic Tubing, elbows, couplings, and fittings shall be permitted to be installed in concrete where protected by corrosion protection and judged suitable for the condition.

Article 358.12 Uses Not Permitted. Add the following new Articles 358.12(7) and (8).

Article 358.12(7) Electrical Metallic Tubing. Electrical metallic tubing is not permitted where in direct contact with the earth.

Article 358.12(8) Electrical Metallic Tubing. Electrical metallic tubing is not permitted in wet locations.

Article 360.60 Grounding. Delete the text in its entirety and replace with the following:

An equipment grounding conductor shall be installed regardless of length of Flexible Metallic Tubing. When required and installed, equipment grounding conductors shall be installed in accordance with 250.134(B). When required and installed, equipment bonding jumpers shall be installed in accordance with 250.102.

Article 362.10 Uses Permitted. Delete the text in its entirety and replace with the following:

Electrical Nonmetallic Tubing is permitted as a raceway for low voltage wiring for control, signaling or communication systems.

Article 378 Nonmetallic Wireways. Delete the text in its entirety and replace with the following: [Intentionally left blank].

Article 382 Nonmetallic Extensions. Delete the text in its entirety and replace with the following: [Intentionally left blank].

Article 386.60 Grounding. Delete the text in its entirety and replace with the following:

Surface metal raceway enclosures shall have an equipment grounding conductor installed.

Article 388 Surface Nonmetallic Raceways. Delete the text in its entirety and replace with the following: [Intentionally left blank.]

Article 394 Concealed Knob and Tube Wiring. Delete the text in its entirety and replace with the following: [Intentionally left blank.]

Article 398 Open Wiring on Insulators. Delete the text in its entirety and replace with the following: [Intentionally left blank.]

Article 404.10 Mounting of Snap Switches. Add the following new **Article 404.10(C)**:

Article 404.10(C) Mounting Location. Switches shall be mounted on latch side of doorway

Article 404.14 Rating and Use of Snap Switches. Add the following new **Article 404.14(G**):

Article 404.14(G) Other Than Dwelling Units. Snap switches for other than dwelling traits shall be rated 20 amperes minimum.

Article 406.3(B) Rating. Add the following new **Article 406.3(B)(1)**:

Article 406.3(B)(1) Other Than Dwelling Units. Receptacles and cord connectors shall be rated not less than 20 amperes, 125 volts, or 20 amperes, 250 volts.

Article 408.36 Overcurrent Protection. Add the following sentence at the end of the Article:

Main disconnects shall be provided in all panels installed for remodeling, replacement, or new construction.

Article 408.40 Grounding of Panelboards. Delete the first paragraph in its entirety and insert the following:

Panelboard cabinets and panelboard frames shall be in physical contact with each other and shall be grounded. A grounding terminal bar shall be secured to the cabinet and shall be properly bonded.

Article 422.34 Unit Switch(es) as Disconnecting Means. Delete the text in its entirety and replace with the following:

Unit switches shall not be permitted as disconnecting means. A separate disconnect, within sight of appliance, shall be required.

Article 590.3(B) 90 Days. Delete the text in its entirety and replace with the following:

Article 590.3(B) 30 Days. Temporary electrical power and lighting installations shall be permitted for a period not to exceed 30 calendar days for holiday decorative lighting and similar

purposes. The provisions of this section shall apply to all temporary use of electrical current for the purpose of illuminating, animating, activating or displaying in connection with temporary expositions, exhibits shows, conventions, meetings or assemblies. The use of this type of wiring is limited to locations which are classified by the Code Official as suitable for the intended temporary occupancy and use, and which are equipped, if required, with the proper type of emergency lighting systems. Each individual display booth shall have its own overcurrent protection.

Article 590.4(B) Feeders. Delete the text in its entirety and replace with the following:

Feeders shall be protected as provided in Article 240. They shall originate in an approved distribution center. Conductors shall be permitted within cable assemblies within multi-conductor cords or cables of a type identified in Table 400.4 for hard usage or extra hard usage. For the purpose of this section, Type NM and Type NMC cables shall be permitted to be used in any dwelling, building, or structure without height limitations. Feeders in excess of one hundred (100) amperes capacity shall be installed in a permanent manner and in conformance with all applicable provisions of this code. Feeders of lesser ampacity may be installed in conformance with the applicable provisions of this section.

Add the following new **Article 590.4(K) Voltage Limitations**. There shall be no temporary wiring voltage to ground, in excess of one hundred fifty (150) volts, unless by written permission of the electrical inspector.

Article 680.71 Protection. Delete the text in its entirety and replace with the following:

Hydromassage bathtubs and their associated electrical components shall be protected by a ground-fault circuit interrupter installed in the main electrical panel. In addition, an insulated green equipment grounding conductor shall be installed from the motor outlet to the panel grounding bus sized per table 250-122. All 125-volt, single-phase receptacles not exceeding 30 amperes and located within 1.52 m (5 ft.) measured horizontally of the inside walls of a hydromassage tub shall be protected by a ground-fault circuit interrupter(s).

Article 700.16 Emergency Illumination. Delete the text in its entirety and replace with the following:

Emergency illumination shall include all required means of egress lighting including that which is required outside an exit door, illuminated exit signs, and all other lights specified as necessary to provide required illumination. Emergency lighting systems shall be designed and installed so that the failure of any individual lighting element, such as the burning out of a light bulb, cannot leave in total darkness any space that requires emergency illumination. Where high-intensity discharge lighting such as high- and low-pressure sodium, mercury vapor, and metal halide is used as the sole source of normal illumination, the emergency lighting system shall be required to operate until normal illumination has been restored. Emergency (battery pack) lighting shall be installed in each electrical room, closet or vault, wherever an electrical service is located, adjacent to any electric panel or fire alarm control panel and in bathrooms.

Where emergency light heads are installed remote from the main unit, an approved raceway system shall be provided.

Circuits for emergency and exit lighting shall have a lockout device installed on their respective circuit breakers.

Article 725.24 Mechanical Execution of Work. Add the following new **Article 725.24(A)**:

Article 725.24(A) Protection and Accessibility of Wiring. Low voltage wiring for signaling or control systems which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction shall be encased in a raceway wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Exception: One and two family dwellings

Article 760.24 Mechanical Execution of Work Add the following new **Article 760.24(C):**

Article 760.24(C) Protection and Accessibility of Wiring. Optical fibers, which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction, shall be encased in a raceway wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Exception: One and two family dwellings

Article 770.24 Mechanical Execution of Work Add the following new **Article 770.24(A):**

Article 770.24(A) Protection and Accessibility of Wiring. Optical fibers, which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction, shall be encased in a raceway wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Exception: One and two family dwellings

Article 800.24 Mechanical Execution of Work. Add the following new **Article 800.24(A)**:

Article 800.24(A) Protection and Accessibility of Wiring. Low voltage wiring for signaling or control systems which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction shall be encased in a raceway wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Article 820.24 Mechanical Execution of Work. Add the following new **Article 820.24(A)**:

Article 820.24(A) Protection and Accessibility of Wiring. Low voltage wiring for signaling systems, which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction shall be encased in a raceway wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Article 830.24 Mechanical Execution of Work. Add the following new **Article 830.24(A)**:

Article 830.24(A) Protection and Accessibility of Wiring. Low voltage wiring for Network Powered Broadband Communication Cables, which are enclosed in building partitions, walls, or in any way made inaccessible by the building construction shall be encased in a raceway

wherever they are so enclosed. The above raceways need not terminate in a box or fitting as long as normal precautions are taken to protect the conductors against injury.

Exception: One and two family dwellings

4-5-4 RESIDENTIAL SMOKE AND HEAT DETECTORS: In addition to that which is described in other sections of the National Electrical Code the following shall become a requirement and made part of this code.

(A) A dedicated circuit shall be provided for smoke detectors which are to be permanently wired into the dwelling units' AC power.

(B) A "lock out" shall be installed on the systems circuit protection device, i.e., switch, circuit breaker, etc, to maintain power to the equipment.

(C) Smoke detectors must be approved by a recognized testing laboratory, i.e., Underwriters Laboratories Inc. (U.L.), ETL Testing Laboratories, Inc. (E.T.L.) and shall be equipped with battery back up.

(D) Attics, rooms and/or closets which contain mechanical equipment, i.e., heating, ventilating, cooling, shall contain an approved smoke detector. The location shall be determined by the electrical inspector.

(E) Household fire alarm systems installed in accordance with NFPA 72 that included smoke alarms, or a combination of smoke detector and audible notification device installed as required for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required for smoke alarms. The system shall be listed in compliance with UL 217.

SECTION FIVE. Amendment to Chapter 6 of Title 4. Chapter 6, entitled "Plumbing Regulations," of Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety and shall hereafter be and read as follows:

4-6-1: PLUMBING CODE ADOPTED: There is hereby adopted by the Village the Illinois Plumbing Code, 2014 Edition (hereinafter the "Plumbing Code") that shall remain in effect until the Illinois Department of Public Health under Sec. 35 of the Illinois Plumbing License Law amends such edition. Three (3) copies of the Plumbing Code have been filed in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-6-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO PLUMBING CODE: The Plumbing Code is hereby added, amended, revised and changed as follows. In the event of any inconsistency between the Plumbing Code and the provisions of this Section, the provisions of this section shall apply and control.

There are no changes, additions or deletions to the Illinois Plumbing Code.

SECTION SIX. Amendment to Chapter 7 of Title 4. Chapter 7, entitled "Fire Sprinkling Systems," of Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety so it shall be entitled "Fire Code" and shall

hereafter be and read as follows:

4-7-1: FIRE CODE ADOPTED:

There is hereby adopted by the Village the 2015 International Fire Code, as hereinafter amended (hereinafter the "fire code"). At least one copy of the fire code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-7-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO FIRE CODE:

The following sections of the 2015 International Fire Code are hereby added, amended, revised, and changed as follows. In the event of any inconsistency between the fire code and the provisions of this section, the provisions of this section shall apply and control.

Passim. Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois or the Jurisdictional Fire Protection District.

Passim. Wherever the phrase Jurisdictional Fire Protection District appears, it shall be deemed to refer to the Countryside Fire Protection District and Long Grove Fire Protection District, as applicable.

Passim. Wherever the phrase "Fire Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents or the Jurisdictional Fire Protection District Fire Code Official.

Passim. Whenever there is a reference to the "Village of Long Grove Fee Schedule," the "Jurisdictional Fire Protection District Fee Schedule," or any other general reference to fees or charges, it shall mean the applicable and then-current ordinance of the Village of Long Grove or Jurisdictional Fire Protection District setting forth fees, charges, and other costs payable to the Village or to the Jurisdictional Fire Protection District, relating to activities covered by, and the administration of, this Code.

Section 101.1 Insert The Village of Long Grove

Section 102.7 Referenced Codes and Standards. Delete the words "Chapter 45" in the first sentence and replace with "Chapter 80."

Insert the following new **Subsection 102.7.1 Adoption of Standards.**

The codes and standards referenced in this Code and listed in Chapter 47 and Appendices B, C and D are hereby incorporated into the Village of Long Grove Fire Prevention Code and shall be considered part of the requirements of this Code to the prescribed extent of each such reference. The most rigid requirements of either this Code or other regulations shall apply whenever they may be in conflict.

Insert the following new **Subsection 104.10.2 Reporting Hazardous Locations.**

Any person discovering the evidence of spontaneous heating or other abnormal heating of any kind in any building, marine vessel, appliance, apparatus, tank, or open stack or pile, or any person upon discovering or being apprised of an uncontrolled hazardous gas leak or hazardous material or flammable and/or combustible liquid spill, shall immediately notify the Jurisdictional Fire Protection District.

Section 105.6 Required Operational Permits. Insert the following at the end of the Section:

Permits shall be obtained from the Jurisdictional Fire Protection District (JFPD) as required in other sections of this Code. Permits shall be valid only for the calendar year they were issued for, or until the expiration date on the permit for temporary permits. A new permit along with the fee set forth in Section 105.8 shall be required each calendar year. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire code official.

Insert the following new **Section 105.8 Operational Permit Fees (Annual Permit Fee or Event).**

The following fees are established as the minimum fee for any operational permits required by this Code, and shall be submitted along with the permit application:

Air-supported structures, temporary	$25.00
Aerosol products, flammable and combustible	$50.00
Amusement buildings or events (outdoors) per event	$25.00
Automotive service station and repair garages	$50.00
Aviation facilities	$50.00
Battery Systems	$50.00
Bowling establishment	$25.00
Calcium carbide storage	$25.00
Carnivals and fairs	$25.00
Cellulose nitrate film	$25.00
Combustible dust-producing operations	$25.00
Combustible fibers, except agricultural storage	$25.00
Compressed gases	$25.00
Covered and open mall buildings	$50.00
Cutting and welding, calcium carbide and acetylene generators	$25.00
Cryogenic liquids	$25.00
Day care centers	$25.00
Dry cleaners	$25.00
Education use groups (not for profit)	N/C
Education use groups (for profit)	$25.00
Emergency responder radio coverage systems	$25.00
Explosives, ammunition and blasting agents	$25.00
Fire hydrants and valves (private)	$25.00
Fireworks (pyrotechnic display – per job)	$25.00
Flammable and combustible liquids	$50.00
Flammable solids	$50.00
Floor finishing	$50.00
Fruit and crop ripening	$25.00
Fumigation and thermal insecticidal fogging (per event)	$25.00
Licensed group homes	$25.00

Lumber and woodworking plants with more than 100,000 board ft.	$50.00
Hazardous materials, storage and handling	$50.00
Hazardous production material facilities	$50.00
Health hazard materials, storage and handling	$50.00
High piled storage	$50.00
Hot work operations	$50.00
LP-gas, storage, use and handling	$50.00
Liquefied/gas fueled vehicles or equipment in assembly buildings	$50.00
Magnesium	$25.00
Marine service and repair garages	$50.00
Matches, manufacture or storage of	$25.00
Material storage facilities	$25.00
Miscellaneous combustible storage	$25.00
Oil and gas production	$50.00
Open flames and candles – torches for removing paint, candles, etc.	$25.00
Open burning (Except recreational fires)	$50.00
Organic coatings, process	$25.00
Ovens and furnaces, industrial type processes	$50.00
Oxidizers, liquid and solid	$25.00
Pesticides, storage and handling	$25.00
Places of assembly and education for profit	$25.00
Places of assembly and education not for profit	N/C
Pyrotechnic Special effects material	$25.00
Radioactive materials	$25.00
Recreational and sport vehicle service and repair	$50.00
Refrigeration Equipment	$25.00
Repair garages & motor fuel dispensing	$25.00
Rooftop Heliport	$50.00
Solar power systems	$25.00
Spray painting and dipping	$25.00
Storage of scrap tires and tire by-products	$50.00
Tire rebuilding plants	$50.00
Temporary membrane structures, tents and canopies	$25.00
Toxic solids and liquids	$25.00
Unstable (reactive) chemicals, storage and handling	$25.00
Waste handling	$50.00
Water material handling facilities	$25.00
Water-reactive materials, storage and handling	$25.00
Welding and cutting operations, electric or gas	$25.00
Wood products	$25.00

The Jurisdictional Fire Protection District shall collect permit fees set forth in this Section. The fees set forth in this Section may be increased pursuant to the duly adopted Long Grove Fee Schedule or a duly adopted fee schedule adopted by the Jurisdictional Fire Protection District without the express amendment to the fees hereinabove set forth.

Insert the following new **Section 105.8 Site Development and Construction Plan Review.**

The Village of Long Grove building department shall submit to the Fire Prevention Bureau of the Jurisdictional Fire Protection District for review and approval plans involving new construction, additions and/or alterations, subdivision improvements, Planned Unit Developments (PUD's),

fire detection/suppression systems or any other item that will affect the Fire District's operation. Only site development and sprinkler system plans and documents will be required for all single family residences. The Fire Prevention Bureau shall, within ten (10) working days, examine said plans and documents to determine compliance with the applicable codes, standards, ordinances and good fire safety practices. If said plans are approved, the Fire Prevention Bureau shall endorse said plans accordingly, and deliver said plans to the Village of Long Grove Building Official. If said plans are found to be unsatisfactory, then said plans shall be returned to the applicant with a memorandum listing the specified deficiencies found. A copy of the list of deficiencies shall be delivered to the Building Official with a recommendation to reject said plans until corrected.

Insert the following new **Subsection 105.8.1 Plan Review, Site Inspection, and Operational Permits Fee Schedule.**

Each permit applicant shall pay plan review and site inspection fees for review and site inspections by the Fire Protection District directly to the Fire Protection District. No part of said fees shall be refundable. Plan review fees shall include re-reviews, along with preliminary site visits up to a total of three (3) inspections for the each category. Contact the Jurisdictional Fire Protection District for the plan review and site inspection fee schedule. Submit three (3) sets of fire sprinkler shop drawings and construction documents for plan review.

Insert the following new **Subsection 105.8.2 New Development Contribution Fee.**

The Countryside Fire Protection District and Long Grove Fire Protection District have adopted the Barrington Area Council of Governments (BACOG) formula for new residential developments in assessing contribution fees in developing areas. The developer contribution fee per dwelling unit is as follows:

1. Three (3) bedroom (or less)	$434.85
2. Four (4) bedroom	$564.60
3. Five (5) bedroom (or more)	$565.50

Any future expansion or increase in density, following approval of the preliminary plat, will be subject to the contribution payment schedule. Payment will be due at a time agreed upon by both parties prior to the issuance of any building permits. Payment made directly to the Jurisdictional Fire Protection District.

Developer contribution fees for commercial buildings will be assessed at a rate of $.20 per square foot.

In addition to the above referenced fees, each developer will be required to contribute $100.00 per home or building for the emergency outdoor warning siren system.

Additional contributions may be required as deemed necessary by the Jurisdictional Fire Protection District for buildings or developments that are unusual in nature. Such contributions shall include, but not be limited to senior citizen developments, multi-story buildings, use or storage of hazardous materials, etc.

This Subsection is included for notice purposes only, and its terms will be administered and enforced by the Jurisdictional Fire Protection District.

Section 108 Board of Appeals. Delete the text of the Section in its entirety, including Sections 108.1 – 108.3, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Section 109.4 Violation Penalties. Delete "shall be guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment." Insert the following: "shall pay a fine in the amount set forth in the Village of Long Grove Fee Schedule and the Jurisdictional Fire Protection District Fee Schedule."

Section 111.4. Failure to Comply. The end of the sentence shall read as follows:

"shall be liable for a fine of not less than $150.00 and not more than $750.00 for each offense. Penalty must be made payable to the Jurisdictional Fire Protection District."

Section 113.2 Schedule of Permit Fees. Insert the following at the end of the Section: See the current Village of Long Grove Fee Schedule and Jurisdictional Fire Protection District Fee Schedule.

Section 202 General Definitions. Amend the definition of **Fire Code Official** to add the following language at the end of the definition: "of the appropriate Jurisdictional Fire Protection District."

Insert the following new **Section 301.3 Items Not Specifically Covered.**

Whenever or wherever a condition is found in any building, lot, or premises, that in the opinion of the fire code official is not specifically covered by the provisions of this Chapter, but that requires correction or removal for the protection of the occupants or the public, the fire code official shall order such conditions be corrected or removed and the owner or occupant of such buildings, lots, or premises shall comply with such orders.

Section 302 - Definitions

302.1 Recreational Fire Delete this definition and insert the following:

An outdoor fire burning materials, other than rubbish, where the fuel being burned is contained in an outside fireplace, barbeque grill, or barbeque pit and has a total fuel area of three feet or less in diameter and two feet or less in height for pleasure, religious, ceremonial, or cooking purposes.

Section 305 – Ignition sources

Insert the following new **Subsection 305.1.1 Fuel Burning Appliances Located in Garages.**

Any fuel burning appliance located in a garage area of any occupancy mounted less than six feet above the floor shall be enclosed with a one-hour fire rated enclosure with makeup air taken from the exterior, not the garage area.

Exception: Any fuel burning appliance that is American Gas Association certified, with a safe, sealed combustion chamber (no open flame) designed with an intermittent ignition device and make-up air taken from the exterior not the garage.

Insert the following new **Section 305.6 Portable Heaters.**

Portable heaters shall be designed and located so that they cannot be easily overturned, and heaters shall be designed to shut off if overturned. The Fire Code Official may prohibit the use of portable heaters in occupancies or situations in which such use or operation would present an undue danger to the life or property of others.

Insert the following new **Section 305.7 Heating and Lighting Apparatus.**

Proper clearance (a minimum of 36 inches) shall be maintained between lighting and heat producing equipment and combustibles so that continuous operation at full capacity will not increase the temperature of the surrounding combustibles to their flash point or ignition temperature.

Section 3076 – Open Burning

Insert the following new **Subsection 307.1.2 Open Burning of Leaves.** The open burning of leaves within the Village of Long Grove is prohibited.

Insert the following new **Subsection 307.1.3 Open Burning of Landscape Waste.** The open burning of landscape waste within the Village of Long Grove is prohibited.

Exception: The opening burning of tree branches or twigs is allowed for individual piles not to exceed three (3) feet in diameter and maximum height of two (2) feet.

Insert the following new **Subsection 307.1.4 Open Burning of Construction Materials.** The open burning of construction materials within the Village of Long Grove is prohibited.

Insert the following new **Subsection 307.1.5: Open Burning of Garbage and Waste.** The open burning of garbage and household/commercial waste within the Village of Long Grove is prohibited.

Subsection 307.4.3 Portable Outdoor Fireplaces. Delete the Exception.

Insert the following new **Section 307.6 Spread of Fire.**

No person shall knowingly permit any fire to spread so as to endanger the life or property of another or use or operate any device which may be a source of ignition, unless proper removal of flammable material surrounding the operation is accomplished, or such other reasonable precautions are taken to ensure against the starting or spreading of unfriendly fires.

Section 315.4 Outside Storage. Insert the following additional language at the end of the Section:

"nor shall outdoor storage be closer than fifteen (15) feet to any structure."

Subsection 503.1.1 Buildings and Facilities.

Delete Exception 1 and renumber Exceptions 2 and 3 accordingly.

Insert the following new **Subsection 503.1.4 Approval.**

The location of the fire apparatus roads or fire lanes shall be reviewed and approved by the Jurisdictional Fire Protection District.

Subsection 503.2.3 Surface. Delete the text of this Subsection in its entirety and replace with the following:

Fire apparatus access roads or fire lanes shall have a solid surface capable of supporting the appropriate fire apparatus. Fire apparatus roads shall be pitched in such a manner as to allow the runoff of water and eliminate the potential of standing water. It shall be the responsibility of the property owner to maintain the surface in a usable condition at all times, including the removal of snow.

Insert the following new **Section 503.7 Adoption of Appendix D.** Adopt IFC Appendix D Fire Apparatus Access Roads.

Section 506 Key Boxes. Delete the Section in its entirety and replace with the following Section 506.1, Subsection 506.1.1, and Section 506.2:

Section 506.1 When Required.

When access to, or within a structure, or an area unduly difficulty because of secured openings, or to gain access to fire protection controls, and where immediate access is necessary for life saving or fire fighting purposes, the fire code official shall require a minimum of one key lock box to be installed at a height not to exceed six (6) feet, in an accessible location. All buildings with automatic fire alarm systems and/or automatic fire suppression sprinkler systems shall have installed an approved key lock box for access by fire department personnel. The key lock box shall be of an approved type and shall contain keys to gain access as required by the fire code official.

Subsection 506.1.1 Locks. Delete the text in its entirety and replace with the following:

The fire code official shall first approve any lock installed on gates or similar barriers.

Subsection 506.2 Key Lock Box Maintenance. Delete the text in its entirety and replace with the following:

The operator of the building shall immediately notify the fire code official and provide the new key when a lock is changed or re-keyed. The key to such lock shall be secured in the key lock box. The users shall be responsible for the proper installation and maintenance of such key lock boxes, at their expense, and shall agree to indemnify and hold harmless the Jurisdictional Fire Protection Districts, and their officers, employees and agents from any liability with respect to such key lock boxes.

Section 507.1 Required Water Supply. Insert the following additional **Subsections 507.1.1 – 507.1.3:**

507.1.1 General

All water distribution facilities including piping, fittings, hydrants, valves, devices, well pumps, and other needful appurtenances shall be subject to approval of the fire code official and shall be installed according to the standards herein adopted. A water supply system shall be capable of supplying the hydrants prior to the construction of structures. It shall be unlawful to erect, alter, use or occupy any structure that has been deemed to have inadequate water supply.

507.1.2 Water supply demand changes

Area water supplies shall be studied whenever additional demands will be placed on the water supply by new construction, change in use, or changes in hazard or contents. Standard fire flow calculation methods will be used to make determinations. Upon determination by the fire code official that inadequate water supplies exist, the fire code official shall reject any applicable plans and provide the property owner, the water utility, and the Building Official with a memorandum listing said deficiencies.

507.1.3 Rural water supply requirements (Dry Hydrants)

In any subdivision/development, where an adequate water distribution system is not provided, the fire code official shall require the sub-divider, developer, builder and/or the owner to modify storm water control devices, so as to provide a pond within a maximum distance of 2,000 feet of all buildings within the development. It shall conform to the standard of NFPA 1142. The pond must be a minimum depth of five (5) feet and provide a minimum of 500,000 gallons of available water. (See Appendix A additional rural water supply requirements).

Insert the following additional **Subsection 507.3.1 Minimum Flow Requirements.**

Each fire hydrant shall be provided with an adequate water supply so as to develop a minimum individual supply of not less than one thousand (1,000) gallons per minute flow with not less than 20 pounds per square inch residual pressure for a municipal public water supply system. Non public municipal water supply system the minimum fire flow shall be 500 hundred (500) gallons per minute (gpm) with not less than 20 pounds per square inch (psi).

Insert the following additional **Subsection 507.3.2 Adoption of Appendix B.** Adopt Appendix B Fire Flow for Buildings.

Subsection 507.5.1 Where Required. Delete the text of the Subsection in its entirety and replace with the following:

The maximum hydrant spacing shall not exceed three hundred (300) feet from the furthest point of any building or structure as measured by an approved access route around the exterior of the facility or building unless otherwise approved by the fire code official. Where the configuration of lots, distances between buildings and lot lines or public utility easements, accessibility to buildings for fire suppression requirements dictate, the fire code official shall increase or decrease hydrant spacing and appropriate supply mains as deemed necessary.

Insert the following new **Subsection 507.5.1.1 Adoption of Appendix C.** Adopt IFC Appendix C Fire Hydrant Locations and Distribution.

Insert the following new **Subsection 507.5.1.2 General.**

Additional fire hydrant shall be located within one hundred (100) feet of any Fire Department Connection (FDC). Hydrants shall not be installed on a water main less than six (6) inches in diameter. Dead end water mains shall not to exceed one hundred (100) feet of six (6) inch pipe and six hundred (600) feet of eight (8) inch pipe. It is recommended that a looped water main system with a minimum pipe diameter of eight (8) inches be required for each structure or group of structures.

Section 507.5 Fire Hydrant Systems. Insert the following additional **Subsections 507.5.7 – 507.5.9:**

Subsection 507.5.7 Identification.

All fire hydrants public or private shall be marked with a number, hydrant flag and painted a color approved by the fire code official. At dry fire hydrants provide signs with the wording "No Parking" with arrows and Fire Hydrant symbol.

Subsection 507.5.8 Apartment and Cluster Type Housing.

In areas where apartment buildings, town/row houses, condominium buildings, or other types of cluster-type housing are located, the area along the roadway within seven and one-half feet on either side of the fire hydrant shall be designated as "NO PARKING" and either the curb shall be painted yellow or "NO PARKING" signs shall be installed (or both).

Subsection 507.5.9 Unauthorized Use.

It shall be unlawful for any person to utilize any device such as a fire hydrant, drafting hydrant, dry hydrant, or other water supply appurtenances designed for fire suppression operations without the express permission of the fire code official.

Insert the following new **Section 511 Elevators.**

511.1 When Required.

Provide elevator service for new multi-level buildings that exceed 1000 square feet of floor area in accordance with State of Illinois Accessibility Code requirements for elevators.

Exception: One and two-family residences, unless covered elsewhere in this Code.

Section 511.2 Elevator Car Requirements.

Elevator cars are to accommodate the ambulance stretcher. In the buildings two stories in height or more, at least one elevator shall be of such a size and arrangement to accommodate a 24-inch by 84-inch ambulance stretcher in the horizontal, open position and shall be identified by the international symbol for emergency medical services (Star of Life). The symbol shall not be less than 3 inches high and shall be placed inside on both sides of the hoist way doorframe. The inside hand rail shall be set at the maximum thirty six (36) inch height allowed under Americans with Disability Act standards to better accommodate the stretcher. The cab size is to be minimum a 5' x 7' platform and minimum 2500 lb capacity with a 42" side slide door.

Section 609 Commercial Kitchen Hoods. Insert the following additional **Sections 609.4 – 609.6.**

609.5 Required Kitchen Hood Fire Suppression Systems.

All required commercial or other occupancy kitchen exhaust hood and duct system shall be protected with an approved wet chemical fire suppression system installed and maintained per NFPA 17A, and UL 300 Standard. Every required automatic fire suppression system, when activated shall transmit a fire alarm signal to the Fire Protection District main communication center via an approved fire alarm system.

609.6 Maintenance.

Commercial kitchen exhaust systems shall be cleaned to remove deposits of residue and grease in the system at intervals specified in the cleaning schedule required to be submitted in accordance with the mechanical code listed in Chapter 80. Thorough cleaning of ducts, hoods and fans shall require scraping, brushing or other positive cleaning methods.

609.6 Cleaning Schedule.

Where a cleaning schedule is not on file, the fire code official shall require a schedule to be submitted, indicating the method of cleaning and the time intervals between cleanings.

Section 903.2 Where Required. Delete the existing text of the Section and replace with the following:

Approved automatic sprinkler systems in new buildings and structures shall be provided in all Use Groups described in this Code. Automatic sprinkler systems shall be installed in accordance with applicable NFPA standards, manufacturer's recommendations, UL listings, and good fire safety practices. Automatic sprinkler systems shall be maintained in full operating condition at all times. Automatic sprinkler systems shall be provided in all new residential Use Groups including town homes/multi-family dwellings, and one and two family dwellings which are adopted by this Code. All new one and two family dwellings shall have automatic fire sprinklers installed throughout per NFPA 13D. All new town homes/multi-family dwellings shall have automatic fire sprinklers installed throughout per NFPA 13R or 13D. All new attached garages shall have fire sprinkler protection. The use of dry sidewall or pendant sprinklers is allowed. The area of coverage and placement shall be approved by the fire official.

Exception No. 1: Detached structures which comply with all of the following, do not require automatic fire sprinkler protection.

1. Less than one thousand (1,000) square feet in floor area

2. Single story

3. Not used as a dwelling

4. Not a High Hazard Use Group

5. Not used for high hazard products or hazardous materials storage

6. No basement level

7. Minimum 20 feet separation between buildings

Exception No. 2 Detached Real estate sales and construction trailers utilized during the development of property when approved by the fire code official, agriculture storage buildings less than 8,000 square feet in fire area.

Subsections 903.2.1 - 903.2.11.6 Where Required. Delete these Subsections in their entireties and renumber **Subsection 903.2.12** as **Subsection 903.2.1**.

Insert the following new **Subsection 903.3.1.4 Specification Warehouse and Storage Buildings.**

Unknown specification use and occupancy for new warehouse buildings (Use groups S or F) with a ceiling roof height of 25 feet or greater to be protected with ESFR (Early Suppression Fast Response) fire sprinkler system or a hydraulically calculated system for class IV commodities with rack storage calculated to the greatest storage height. All sprinkler systems shall be electronically supervised by a fire alarm system.

Insert the following new **Subsection 903.4.1.1 Reporting to Fire District Communication Center.**

Where required by the fire code official to protect from hazards to life and property, the fire alarm system shall terminate at the Fire District Communication Center. The method of connection must be of a type approved by the fire code official.

Insert the following new **Subsection 903.4.2.1 Strobe Lights.**

A strobe light shall be installed on the exterior of all occupancies protected by a fire sprinkler system. The strobe light shall be located directly over the Fire Department Connection and next to the 10-inch exterior bell or in a location approved by the fire code official. In a new multi-occupancy structure, an additional amber strobe light shall be installed at an approved exterior location for each unit. These devices shall activate on a water flow only. The strobe light shall be clearly visible from the Fire Department's normal access route and shall be labeled as "water flow". The style and height of said strobe light is to be approved by the fire code official.

Insert the following new **Subsection 903.4.2.1.1 Alarm Notification Appliance for All New NFPA 13D Fire Sprinkler Systems for One and Two Family Dwellings.**

A strobe light shall be installed on the exterior of new one and two family dwellings for activation of water flow. A minimum of one 10-inch water flow alarm bell shall be installed on the interior of new one and two family dwellings (on the return air supply duct). The type, number of appliances and location of strobe lights and bells shall be approved by the fire code official.

Insert the following new **Subsection 903.4.2.2 Building Notification.**

Alarm indicating appliances audio visual devices shall be provided, seen and heard in all areas of every building per NFPA 72. All fire sprinkler buildings shall be provided with occupant notification devices. This will provide full building notification per NFPA 72.

Insert the following new **Subsection 903.4.2.3 Inspector's Test Valve Accessibility and Identification.**

Fire sprinkler system inspectors test valves shall be accessible at all times and located no more than 6 feet above the finished floor unless approved otherwise by the fire code official. On multiple riser systems, test valves shall be marked as to which riser and area it tests.

Subsection 903.4.3 Floor Control Valves. Delete the text of the Subsection in its entirety and replace with the following:

In multi story buildings, approved supervised indicating floor control valves with water flow switches shall be provided for each floor at the point of connection to the riser. In large multi tenant buildings, approved control valves with water flow switches shall be provided for each tenant. This will make it easier for the fire department personnel to locate the fire and will eliminate birdcage sprinkler systems where the alarm is for the whole building.

Insert the following new **Subsection 903.4.3.1 Sprinkler Control Valves.**

All new and existing sprinkler control valves shall be equipped with electronic supervision (tamper switches) in accordance with NFPA 72. All new tamper switches installed shall have the capability to self restore. All supervisory signals shall be transmitted to the Fire Protection District communication center.

Insert the following new **Subsection 903.6.2 Interior Alterations or Remodeling.**

Existing buildings or structures that are remodeled, and that meet any of the criteria listed below, shall provide fire protection as detailed in 903.2:

1. If alteration costs 50% or more of the reproduction cost of the building or structure, the entire building or structure shall comply with the requirements of the construction as defined in this code. The reproduction cost shall be determined by using the recognized standards of an authoritative technical organization. For the purpose of calculating percentages of reproduction cost, the cost of alteration shall be construed as the total actual combined cost of all alterations within any period of 30 months.

2. A project that results in an increase or decrease in the total number of tenant spaces within the building or structure.

3. A project that entails a change in Use Group for any part of the building.

Exception: One- and two- family dwellings.

Insert the following new **Subsection 903.6.3 Increasing Existing Gross Floor Area by 25% or More and up to 50%.**

Fire protection for additions that increase the existing gross floor area of a building or structure by 25% or more and up to 50%:

1. Provide fire protection for the entire building or structure as detailed in 903.2 or

2. Provide a UL listed three hour fire separation assembly between the existing building and the new addition. Provide fire protection for the new addition as detailed in 903.2.

Exception: One- and two- family dwellings

Insert the following new **Subsection 903.6.5 Increasing Existing Gross Floor Area by More than 50%.**

Fire protection as detailed in 903.2 shall be required for the entire building or structure for additions that increase the existing gross floor area of a building or structure by more than 50%.

Exception: One– and two– family dwellings

Insert the following new **Section 903.7 Automatic Sprinklers.**

Where automatic sprinklers provide protection to an area with an approved flow switch interconnected to the fire alarm system, and area is easily identifiable as to the location, additional automatic detectors are not required. When a building has numerous rooms protected by the zone sprinkler system, the fire code official may require additional smoke detectors for a more rapid means to identify the location of smoke or fire.

Insert the following new **Section 903.8 Hydraulic Nameplate.**

By each hydraulically calculated area, on each drawing, provide a copy of the hydraulic nameplate. This will make it easier to check the hydraulics of the sprinkler system for future building or storage changes.

Insert the following new **Section 903.9 References to NFPA Standards.**

All listed references to NFPA standards are to be considered part of this code. This will require sprinkler system installations to be installed per NFPA requirements and NFPA recommendations for good engineering practices and installations. The appendixes of all NFPA standards are to be considered as part of each standard and are considered mandatory (a "shall" requirement) and not merely advisory ("should" information). This will require sprinkler system installations to be installed per NFPA requirements and NFPA recommendations for good engineering practices and installations.

Insert the following new **Section 903.10 Fire Pump Test Header.**

Provide an outside test header on all fire pump installations. An OS&Y control valve shall be provided on all fire pump test headers.

Insert the following new **Section 903.11 Sprinkler Riser and/or Fire Pump Room Access Door.**

Provide an outside access door to the sprinkler riser room and/or fire pump room. The door shall be labeled with minimum 4 inch letters.

Insert the following new **Section 903.12 Separation of Sprinkler Riser and/or Fire Pump Room.**

Provide a minimum one hour separation of the sprinkler riser room and/or pump room.

Insert the following new **Section 903.13 Hydraulic Calculations.**

Provide a minimum 5 psi minimum safety factor in the fire protection system hydraulic calculation. The system demand shall be 5 psi minimum below the seasonal low water flow test supply. The safety factor will allow for low pressures in the water supply. By each hydraulic calculated area, on each drawing, provide a copy of the hydraulic nameplate. This will make it easier to check the hydraulics of the sprinkler system for future building or storage changes.

Insert the following new **Section 903.14 Fire Hose Valves – Warehouse and/or Storage Fire Areas.**

In all warehouse storage areas exceeding 50,000 square feet, and where storage exceeds twelve (12) feet high, provide inside 2 ½" fire hose valves with 1½" reducer to a 1½" connection. Locate the valves at each door entrance to the warehouse and/or storage area. Provide additional 2 ½" fire hose valves so that no portion of the warehouse and/or storage area is more than 120' maximum travel distance to a fire hose valve. Show the location of all obstructions and/or racks on the drawing.

Fire hose valves system piping shall be:

1. A separate riser piping system.

2. The 2 ½ " valves shall be supplied by a minimum of 4" with 2 ½ " drops to each valve.

3. Where system pressures exceed 100 psi, provide Potter manufacturer reduced pressure field adjustable type valves.

Insert the following new **Section 903.15 Large Warehouse System Check Valves.**

Provide a check valve for each sprinkler riser on large warehouse systems. This will prevent multiple sprinkler system riser flow switches from activating (backwards) when large volumes of water are flowing through another riser.

Section 905.3 Required Installations. Add the following at the end of the Section:

All required standpipe systems shall be supplied by a separate riser. The supply riser shall be hydraulically designed to supply 2½" hose drops. The riser system shall be equipped with a separate control valve and flow switch. The standpipe shall be a 2½" gated connection with a 1½" reducer to a 1½" connection and all locations shall be approved by the fire code official. All standpipe and sprinkler risers shall have separate control valves and flow switches per floor.

Subsection 905.3.1 Height. Delete the existing text in its entirety, but do not delete the Exceptions, and replace with the following:

Class III standpipe systems shall be installed throughout buildings or structures (1) in all newly constructed buildings so that all areas in excess of 120 feet from the nearest point of entry to the building shall be covered by a standpipe; (2) in all areas of existing structures which have been remodeled or added to in such a manner that those areas are located in excess of 120 feet from the nearest point of entry to the building; (3) in all newly constructed buildings or structures more than two (2) stories in height or more than two (2) stories below the highest level of fire department vehicle access so that all areas on those floors are within 120 feet of a standpipe; and (4) in all buildings or structures more than two (2) stories in height or more than

two (2) stories below the highest level of fire department vehicle access which have been remodeled or added to in such a manner so that those areas are located in excess of 120 feet from the nearest standpipe. The standpipes shall be provided with a 2½" to 1½" reducer and cap with no fire hose. There shall be an approved fire department connection at grade and hose connections located at each floor level.

[Note: Exceptions 1 – 5 remain in the text of Section 905.3.1]

Insert the following new **Section 905.12 Piping Design.**

The riser piping, supply piping and the water service piping shall be sized to maintain a residual pressure of at least 65 psi (448kPa) at the topmost outlet of each riser. The piping size shall be based on the capacity of the automatic water supply system or, where as automatic water supply is neither required nor provided to maintain the residual pressure of 65 psi, the pipe size shall be on a pressure of 150 psi available at the fire department connection.

Exception: The residual pressure of 65 psi is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3 and where the highest floor level is not more than 150 feet above the lowest level of fire department vehicle access.

Exception: One- and two- family dwellings

Insert the following new **Section 905.13 Riser Sizing.**

The riser size shall be based on the hydraulic calculations for a minimum flow of 500 gallons per (gpm) (378 L/min.).

Exceptions:

1. Where only 1 ½" valves are provided, the riser(s) shall be sized to provide a minimum flow of 100 gpm (378 L/min).

2. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the riser shall be sized to satisfy total demand.

3. For occupancies Use Group B, I, R1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, each riser shall be sized for a minimum flow of 250 gpm (945 L/min.).

4. Risers that are sized in accordance with the pipe schedule requirements of NFPA 14 listed in Chapter 35 are not subject to this requirement.

Insert the following new **Section 905.14 System Pipe Sizing.**

The system piping, including the horizontal or common feeder lines, shall be sized for a minimum flow of 500 gpm (1892 L/min.). Where more than one standpipe riser is required or provided, all common system piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1,250 gpm (4731 L/min.).

Exception:

1. Where only 1 ½" valves are provided, the supply piping shall be sized for a minimum flow of 100 gpm (378 L/min.) for each riser, and the total shall not be required to exceed 500 gpm (1892 L/min.).

2. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the supply piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) plus the sprinkler demand for first riser, plus 250 gpm (945 L/min.) for each additional riser, and the total shall be required to exceed 1,250 gpm (4731 L/min.).

3. For occupancies in Use Group B, I, R-1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, all common supply piping shall be sized for a minimum flow of 250 gpm (945 L/min.) for the first riser plus 250 gpm (945L/min.) for each additional riser, and the total shall not be required to exceed 750 gpm (2838 L/min.).

Section 906.1 Where Required. Delete the first Exception; renumber the remaining Exceptions as 1 – 5; insert the following additional Exceptions 6 and 7:

6. Where deemed necessary by the fire code official based on plan reviewing, inspections of occupancies, or protection of processes and/or activities.

7. Fire extinguishers shall be a minimum 10 pound (4A:40-B: C) ABC Dry Chemical type unless approved otherwise by the fire code official. All fire extinguishers shall have location signs and current services tags.

Section 907.1.3 Equipment. Add the following at the end of the Section:

New fire alarm control panels shall be addressable unless otherwise approved by the fire code official. The equipment shall be capable of having the audio signal silence without resetting the fire alarm control panel. All fire alarm control panels shall have an approved method of placing the system in trouble mode at the location of the alarm panel.

Section 907.2 Where Required – New Buildings and Structures. Delete the text of the Section in its entirety, including the Exceptions, and replace with the following:

An approved manual, automatic, or manual and automatic fire alarm system shall be provided in all Use Groups of new buildings and structures in accordance with sections 907.2.1 through 907.2.23. Fire alarm systems shall be maintained in full operating condition at all times. All fire alarm control panels or full function annunciator panels shall be installed within 10 feet of the main entrance, or in a location approved by the fire code official. Occupant notification shall be in accordance with section 907.6 unless other requirements are provided by another section of this code. Where automatic sprinkler protection is installed in accordance with section 903.3.1.1 or 903.3.1.2 and connected to the building fire alarm system, automatic heat detection required by this section shall not be required. An approved automatic fire detection system shall be installed in all Use Groups, not provided with an automatic sprinkler system, in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances and equipment shall comply with Section 907.1.2.

The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to actuate a smoke detector.

Exception: One and two family homes, unless specified elsewhere by this Code.

If the alteration costs 25% or more of the reproduction costs of the building or structure the entire building or structure shall comply with the requirements of new construction as defined in this code. For the purpose of calculating percentages of reproduction cost, the cost of alterations shall be construed as the total actual combined cost of all alterations made with any period of 30 months.

Subsection 907.2.1 Group A. Delete the text in its entirety, including the Exceptions, and replace with the following:

A manual fire alarm system shall be installed in accordance with NFPA 72 in all Group A occupancies.

Subsection 907.2.1.1 System Initiation in Group A Occupancies With an Occupant Load of 1000 or More. Delete the text of the Subsection in its entirety, including the Exceptions, and replace with the following:

An automatic fire alarm detection system shall be installed in accordance with NFPA 72 in Group A-2 occupancies that have an occupant load of 50 or more persons.

Subsection 907.2.2 Group B. Delete this Subsection in its entirety.

Subsection 907.2.2.1 Group B Ambulatory Health Care Facilities. Delete this Subsection in its entirety.

Subsection 907.2.3 Group E. Delete this Subsection in its entirety.

Subsection 907.2.4 Group F. Delete this Subsection in its entirety.

Subsection 907.2.5 Group H. Delete this Subsection in its entirety and replace with the following:

A manual fire alarm system shall be installed in Group H occupancies. An automatic detection system shall be installed for highly toxic materials, organic peroxides, oxidizers, oxidizing gases and oxidizing cryogenic fluids in accordance with Chapters 60, 62 and 63, respectively.

Subsection 907.2.6 Group I. Delete this Subsection in its entirety.

Subsection 907.2.6.1 Group I-1. Delete this Subsection in its entirety.

Subsection 907.2.6.1.1 Smoke Alarms. Renumber this Subsection as 907.2.6 and rename as Group I-1 Smoke Alarms.

Subsection 907.2.6.2 Group I-2. Renumber this Subsection as 907.2.7.

Subsection 907.2.6.3 Group I-3 Occupancies. Renumber this Subsection as 907.2.8.

Subsection 907.2.6.3.1 System Initiation. Renumber this Subsection as 907.2.8.1.

Subsection 907.2.6.3.2 Manual Fire Alarm Boxes. Renumber this Subsection as 907.2.8.2.

Subsection 907.2.6.3.2.1 Manual Fire Alarm Boxes in Detainee Areas. Renumber this Subsection as 907.2.8.2.1.

Subsection 907.2.6.3.3 Automatic Smoke Detection System. Renumber this Subsection as 907.2.8.2.2.

Subsection 907.2.7 Group M. Delete this Subsection in its entirety.

Subsection 907.2.7.1 Occupant Notification. Delete this Subsection in its entirety.

Subsection 907.2.8 Group R-1. Delete this Subsection in its entirety.

Subsection 907.2.8.1 Manual Fire Alarm System. Delete this Subsection in its entirety.

Subsection 907.2.8.2 Automatic Smoke Detection System. Delete this Subsection in its entirety.

Subsection 907.2.8.3 Smoke Alarms. Rename as **Group R-1 Smoke Alarms**.

Subsections 907.2.9 Group R-2 and 907.2.9.1 Manual Fire Alarm System. Delete these Subsections in their entireties.

Subsection 907.2.9.2 Smoke Alarms. Re-number this as **Section to 907.2.9** and rename to **Group R-2 Smoke Alarms**.

Subsection 907.2.11 Single and Multiple Station Smoke Alarms. Insert the following at the end of the paragraph after "NFPA 72":

", the current State of Illinois Smoke Detector Act (425 ILCS 60/1, et. seq.) and all the rules and regulations of the Illinois State Fire Marshal".

Subsection 907.2.11.1 Group R-1. Add the following additional location requirements for smoke detector placement:

4. Within 15 feet outside of any sleeping area

5. At the top of every stair

6. Within 15 feet of any furnace

Subsection 907.2.11.2 Groups R-2, R-3, R-4 and I-I. Add the following location requirements for smoke detector placement:

4. Within 15 feet outside of any sleeping area

5. At the top of every stair

6. Within 15 feet of any furnace

Subsection 907.2.11.6 Power Source. Delete "Exception" and replace with "Exceptions"; identify existing exception as "1"; Add the following as Exceptions 2 and 3:

2. Group R-3 smoke alarms are to be 120 volt with a battery backup.

3. Smoke alarms are not required to be equipped with battery backup in Group R-1 where they are connected to an emergency electrical system.

Insert the following additional **Subsections 907.2.11.8 – 907.2.11.8.7**

Subsection 907.2.11.8 Single and Multiple Station Smoke Alarms.

Listed single-and multi-station smoke alarms shall be installed in accordance with the provisions of this Code and the household fire warning equipment provisions of NFPA 72. When a system is installed within a dwelling unit it shall comply with UL 217.

Subsection 907.2.11.8.1 Where Required in Existing One- and Two-Family Dwellings.

All existing one and two family residences shall have installed therein smoke detectors in accordance with Illinois Smoke Detector Act. Every single-family residence shall have at least one smoke detector installed on every story, including basements, but not including unoccupied attics. Smoke detectors shall be installed in each room used for sleeping purposes and within fifteen (15) feet of the entrances of all rooms used for sleeping purposes. The signal shall be clearly audible within each room used for sleeping purposes over background noise levels with all intervening doors closed. In single-family residences with split-levels, a smoke detector installed on the upper level shall suffice for the adjacent lower level if the lower level is less than one full story below the upper level. However, if there is an intervening door between the adjacent levels, a smoke detector shall be installed on each level.

Subsection 907.2.11.8.2 Alterations, Repairs, and Additions.

When interior alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be provided with smoke alarms located as required for new dwellings; the smoke alarms shall be interconnected and hard-wired.

Exceptions:

1. Smoke alarms in existing areas shall not be required to be interconnected and hard-wired where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space, or basement available which could provide access for hard wiring and interconnection without the removal of interior finishes.

2. Repairs to the exterior surfaces of dwellings are exempt from the requirements of this section.

Subsection 907.2.11.8.3 Mounting the Detector.

All smoke detectors shall be mounted on the ceiling at least six (6)" from the wall, or on the wall six (6) to twelve (12)" from the ceiling, except that all smoke detectors in interior common stairwells shall be on the uppermost ceiling.

Subsection 907.2.11.8.4 Responsibility for Installation.

In single family and two family residences, it shall be the responsibility of the owner of the building or structure to supply and install all required smoke detectors. The owner shall be responsible for making reasonable efforts to test and maintain smoke detectors in interior common stairwells.

Subsection 907.2.11.8.5 Maintenance of Detectors.

It shall be the responsibility of the tenant to test and provide general maintenance for the smoke detectors within the tenant's dwelling unit and to notify the owner or an authorized agent of the owner, in writing, of any deficiencies, which the tenant cannot correct. The owner shall be responsible for providing the tenant with written information regarding smoke detector testing and maintenance.

Subsection 907.2.11.8.6 Battery Replacement.

The tenant shall be responsible for replacement of any required batteries in the smoke detectors in the tenant's dwelling unit, except that the owner shall ensure that such batteries are in operating condition at the time the tenant takes possession of the dwelling unit. The tenant shall provide the owner or the authorized agent of the owner with access to the dwelling unit to correct any deficiencies in the smoke detector(s), which have been reported in writing to the owner or authorized agent of the owner.

Subsection 907.2.11.8.7 Low-voltage System.

At the option of the owner of the building or structure, a low-voltage, standard central smoke detection system may be installed in a one or two-family dwelling in lieu of battery-powered smoke detectors or hard-wired smoke detectors, provided that such low-voltage standard central smoke detection system meets the requirements for such a system set forth in this Chapter or is otherwise approved by the fire code official.

Insert the following additional **Subsections 907.2.11.9 – 907.2.11.9.11**

Subsection 907.2.11.9 Existing Multi-family (three or more dwelling units) Buildings.

All multi-family buildings whether existing or constructed hereafter, shall have installed therein hard-wired smoke detectors with battery backup as provided in this subsection.

Subsection 907.2.11.9.1 Smoke Detector Locations.

1. Each room used for sleeping purposes.

   Exception: Existing multi-family buildings and structures have the option to install battery powered smoke detectors in lieu of hard-wired in sleeping areas. Hard-wire smoke detectors with battery back up is preferred.

2. In the immediate vicinity (minimum of 15 feet) of all entrances to rooms used for sleeping purposes.

3. Within 15 feet of any furnace.

4. A smoke detector shall be installed in each interior common stairwell (at the top of the stairs).

5. A smoke detector shall be installed in each interior common corridor or hallway at intervals of not more than thirty (30) feet.

6. A smoke detector shall be installed within each laundry room, boiler, electrical and other service room, and each tenant and building maintenance storage room. The fire code official is authorized to require an approved alternative type of detector be installed where, during normal operation, products or combustion or other conditions are present in sufficient quantity to actuate a smoke detector.

Subsection 907.2.11.9.2 Access for Maintenance.

The tenant shall provide the owner or authorized agent of the owner with access to the dwelling unit to check, clean, test, maintain, repair and replace all smoke detectors therein.

Subsection 907.2.11.9.3 Low-voltage Standard Smoke Detection System Locations.

The low-voltage, standard central smoke detection system shall be installed in all interior common stairwells, interior common corridors or hallways, laundry rooms, boiler, electrical and other service rooms, and tenant and building maintenance and storage rooms. The smoke detection devices connected to the low-voltage, standard central smoke detection system shall be located as provided in 907.3.9.1.

Subsection 907.2.11.9.4 Hard Wired Smoke Detector Locations.

A hard-wired smoke detector with battery back-up shall be installed in each room used for sleeping purposes. When more than one smoke detector is installed, all smoke detectors shall be so wired so that the actuation of one detector shall activate all the detectors in the dwelling unit

Subsection 907.2.11.9.5 Annunciator Panel and Panel Control Box.

Each smoke detection device connected to the low-voltage, standard central smoke detection system shall be connected to an annunciator and a panel control box.

1. The annunciator panel shall have a visual indicator of alarm location and be installed in the entrance or on the exterior of each building or structure at the entrance, in a waterproof enclosure, as directed by the Fire Official.

2. There shall be Americans with Disability Act (ADA) compliant horn/strobes installed in the interior common corridors, hallways, and stairwells leading to the dwelling units, which are clearly audible within such dwelling units over background noise levels with all intervening doors closed.

Subsection 907.2.11.9.6 Fire Alarm Supervision.

All new low-voltage, standard central smoke detection system installed shall be connected to the Jurisdictional Fire Protection District Communication Dispatch Center via two-way radio transmitter at the time the system is placed into operation.

Subsection 907.2.11.9.7 Responsibility Maintenance.

In multi-family buildings or structures it shall be the responsibility of the owner of the building or structure or authorized agent of the owner thereof to install, maintain, repair, and replace, if necessary, the low-voltage, standard central smoke detection system required hereby.

Subsection 907.2.11.9.8 Maintenance and Testing.

The owner or authorized agent of the owner shall also be responsible for the continuous maintenance of such system through no less than an annual inspection and testing thereof performed under a written maintenance agreement with a reliable firm actively engaged in the servicing of such systems. A copy of each maintenance agreement shall be accompanied by a written report and a copy of such report shall be promptly delivered to the Jurisdictional Fire Protection District. Further, the current maintenance agreement and latest report shall be made available at all reasonable times for inspection by duly authorized personnel of the Jurisdictional Fire Protection District Bureau of Fire Prevention.

Subsection 907.2.11.9.9 Power Source Existing Multifamily (three or more) Buildings.

Smoke alarms are not required to be equipped with battery backup where they are connected to an emergency electrical system.

Subsection 907.2.11.9.10 Heat Detection Device.

Where a heat detection device or combination heat and smoke detection device will be more effective than a smoke detector as a result of conditions within the area in which the device is located, the heat detection device or combination heat and smoke detection device shall be installed in place of a smoke detector at the direction of the fire code official. The combination heat and smoke detection device shall bear the testing label of a nationally recognized, independent testing laboratory and shall meet the requirements of NFPA 72.

Subsection 907.2.11.9.11 Duct smoke Detectors. Duct detectors shall be installed inside the building in a temperature controlled environment.

Subsection 907.4.2 Manual Fire Alarm Boxes. Add the following language at the end of this Subsection, and add the Exception:

Manual fire alarm boxes shall be installed in all Use Groups described in this Code; they shall be installed in accordance with Sections 907.4.2.1 through 907.4.2.5

Exception: Manual fire alarm boxes shall not be required in Group E occupancies where the building is equipped throughout with an approved automatic sprinkler system, the notification appliances will activate on sprinkler water flow and manual activation is provided from a normally occupied location.

Insert the following new **Subsection 907.5.2.4 Separate Zones:**

Manual fire alarm boxes, audio/visual devices and detectors are to be on separate zones per floor unless approved otherwise by the fire code official.

Insert the following new **Subsection 907.6.4.3 Multi-tenant Use Group M, F and S Buildings:**

Multi-tenant Use Group M, F and S buildings will be "ring by tenant" activated by a fire sprinkler system flow switch for that space or automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as directed by the fire code official. All outside strobes shall be 75 candela minimum.

Subsection 907.6.6 Monitoring. Delete the text of the Subsection, including Exceptions, in its entirety and replace with the following:

All required fire protective signaling systems located within the Fire Protection Districts shall transmit alarm, supervisory, and trouble signals to the main dispatch center for the Fire Protection District. This connection shall be made with a two-way radio transmitter installed at each location. All required fire protective signaling systems shall report to the Fire Protection District main communication center via a two-way radio transmitter. Future methods of connection shall be determined by the Fire Official.

Exceptions:

1. Single- and multiple-station smoke alarms required within dwelling units.

2. Smoke detectors in Group I-3 occupancies.

3. Automatic sprinkler systems in one- and two-family dwellings.

Insert the following new **Sections 907.10 – 907.10.6.**

Section 907.10 False Fire Alarm Activation.

False fire alarm: Any alarm signal which indicates the existence of an emergency situation, when in fact no such emergency exists, and shall include any alarm signal generated by any fire protection system by whatever means, but shall not include alarms from the following causes.

1. Fire which causes structural damage to the protected premises.

2. Earthquake causing structural damage to the protected premises.

3. Tornado winds causing structural damage to the protected premises.

4. Flooding to the protected premises due to overflow of natural drainage.

5. Lightning causing physical damage to the protected premises.

6. Telephone line malfunction verified in writing by an authorized telephone company supervisor within seven calendar days of the occurrence.

7. Electrical service interruption verified in writing by an authorized local power company supervisor within seven calendar days of the occurrence.

907.10.1 False Fire Alarm Service Charge.

For false fire alarms, an alarm user shall be charged a service charge of $100.00 for each false alarm in excess of three (3) in any calendar year. All false fire alarm service charges shall be remitted to the Jurisdictional Fire Protection District by the alarm user upon receipt of the statement for such service charge.

907.10.2 Newly Installed Fire Alarm Allowance.

Special consideration will be given to fire alarm users should false fire alarms occur during the first three months after the user's alarm service was commenced.

907.10.3 Local Government Allowance.

Units of local government such as schools and park districts may receive special consideration for alarms caused by circumstances listed in Section 907.10.4.

907.10.4 Liability.

The Jurisdictional Fire Protection District assumes no liability for:

1. Any defects in the operation of an alarm system.

2. Any failure or neglect to respond appropriately upon receipt of an alarm.

3. Any failure or neglect of any person in connection with the installation, operation, or maintenance of any alarm system.

4. The transmission of alarm signals, prerecorded alarm messages, or the relaying of such signals and messages.

907.10.5 Intentional False Fire Alarm.

No person shall deliberately or maliciously turn in an alarm of fire when in fact that person knows that no fire exists. No person shall activate any installed fire warning system or any fixed fire extinguishing system for purposes warning system or any fixed fire extinguishing system for purposes other than emergency, maintenance, drills, or prescribed testing.

907.10.6 Penalties.

Any person who violates any of the provisions of section 907.10.5 shall be subject to a fine of not more than $500.00 for each violation. Such fines shall be in addition to any other fee or charge authorized pursuant to the terms of the ordinance codified in this chapter.

Insert the following new **Section 907.11 Existing Buildings and Structures Located in the Village Historical Business District.**

An automatic fire alarm and detection system shall be installed within existing buildings located in the Village Historical Business District in accordance with Section 907.1. The Fire Code Official shall determine when the installation of the automatic fire alarm and detection system is required. Change in ownership, interior alterations, additions, change in occupancy may require the installation of automatic fire alarm and detection system.

Insert the following new **Section 912.8 Fire Department Connections.**

All fire department connections shall be a 2 ½ " X 2 ½ " Siamese NST connection or large diameter fire hose connection approved by the fire code official.

Section 1008.3.3 Illumination Emergency Power. Insert the following new paragraph 6:

6. All rooms containing the building fire sprinkler riser(s), fire pump(s) and fire alarm control panel(s) shall be provided with approved emergency lighting.

Section 5602 Definitions. Insert the following language after the definition of "Fireworks 1.3G":

Fireworks: The term "fireworks" shall mean and include any explosive composition, or any substance or combination of substances, or article prepared for the purpose of producing a visible or audible effect of a temporary exhibitional nature by explosion, combustion, deflagration or detonation, and shall include blank cartridges, toy cannons, in which explosives are used, the type of balloons which require fire underneath to propel the same, firecrackers, torpedoes, sky-rockets, Roman candles, bombs, or other fireworks of like construction and any fireworks containing any explosive compound, or any tablets or other device containing any explosive substance, or containing combustible substances producing visual effects, provided, however, that the term "fireworks" shall not include trick noise makers known as "party poppers", "booby traps", and "snappers"; toy pistols, toy canes, toy guns, or other devices in which paper or plastic caps containing twenty-five hundredths of grains or less of explosive compound are used, providing they are so constructed that the hand cannot come in contact with the cap when in place for the explosion; and toy pistol paper or plastic caps which contain less than twenty hundredths grains of explosive mixture.

Note: Devices such as sparklers, snake or glow worm pellets, trick matches, etc. that require an open flame, such as a match or lighter, to ignite are not permitted.

Section 5604.1 General. Delete the text of the Section in its entirety and replace with the following:

The storage of explosive materials is prohibited within the Village of Long Grove.

Sections 5604.2 – 5604.10.7. Delete these Sections in their entireties.

Section 5605.1 General. Delete the text of the Section, including all of the Exceptions, in its entirety and replace with the following:

The manufacture, assembly and testing of explosives, ammunition, blasting agents and fireworks is prohibited in the Village of Long Grove.

Sections 5605.2 – 5605.9. Delete these Sections in their entireties.

5608.2 Permit Application. Delete the text of this Section in its entirety and replace with the following:

A permit shall be required for the possession, display or discharge of fireworks or pyrotechnical displays. The permit application shall include the applicant's name, address, and age; the date and place of the proposed discharge of fireworks or pyrotechnical display; the nature and quantities of fireworks to be discharged or displayed; and the applicant's experience, if any, in discharge of fireworks or pyrotechnical displays. Also included shall be plans for the display, inspections of the display site, and demonstrations of the display operation. Such permit shall be applied for a minimum of fifteen (15) days prior to the proposed date of display.

Upon receipt of the application, the fire code official, or designee, shall inspect the location of the proposed discharge of fireworks or pyrotechnical display. If, in the judgment of the fire code official, or designee it would not be hazardous to any property or persons to allow such discharge of fireworks or pyrotechnical displays, given the resources of the Fire Protection District available for the requested date, the fire code official shall approve the application and issue a permit for the discharge of fireworks or pyrotechnical display. Fees in accordance with Section 105.8 shall apply.

A representative of the Jurisdictional Fire Protection District shall standby on site from the time fireworks product arrives on site through the post display final safety check. In addition, a fire engine with a crew of two (2) firefighters will be required for standby at the display. Standby personnel shall be reimbursed at a rate of $50.00 per hour. The fire engine standby personnel will be reimbursed a minimum of two (2) hours. Payment is due at the time the permit is issued to the Jurisdictional Fire Protection District.

A permit granted hereunder shall not be transferable, nor shall any such permit be extended beyond the dates set out therein.

Insert the following new **Section 5608.11 Fireworks Violations.** A person shall not possess, manufacture, store, offer or expose for sale, sell at retail or discharge any fireworks within the Village of Long Grove.

Exception: Where approved for the supervised display of fireworks in accordance with Section 5608 of this Code.

Insert the following additional **Subsection 5608.11.1 Bond for Display.**

The permit holder shall furnish a bond in an amount approved by the fire code official for the payment of all potential damage caused either to the person or property due to the permitted display, and arising from any acts of the permit holder or agent of the permit holder. In lieu of a bond, the permit holder may provide a certificate of insurance, in an amount acceptable to the fire code official as an additional insured and execute an agreement holding the Jurisdictional Fire Protection District harmless from any damage to persons or property caused by the permitted display.

Insert the following additional **Subsection 5608.11.2 Fines for Violations.**

Any person, firm, partnership, association or corporation found violating any of the provisions of this chapter shall be fined not less than one hundred and fifty dollars ($150.00), but not more

than seven hundred and fifty dollars ($750.00). All fines shall be paid to the Jurisdictional Fire Protection District.

Subsection 5704.2.9.6.1 Locations Where Above-Ground Tanks Are Prohibited. Insert the following at the end of the Section:

Geographic limits in which storage of Class I and Class II liquids in above-ground tanks outside of buildings shall be determined by the Village of Long Grove Zoning Ordinance and the Jurisdictional Fire Protection District.

Subsection 5706.2.4.4 Locations Where Above-Ground Tanks Are Prohibited. Insert the following at the end of the Section:

Geographic limits in which storage of Class I and Class II liquids in above-ground tanks outside of buildings shall be determined by the Village of Long Grove Zoning Ordinance and the Jurisdictional Fire Protection District.

Section 5806.2 General. Add the following language at the end of the Section:

Geographic limits in which storage of flammable cryogenic fluids in stationary containers shall be determined by the Village of Long Grove Zoning Ordinance and the Jurisdictional Fire Protection District.

Chapter 80 Referenced Standards.

Delete ICC Electric Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

Delete the International Sewage Disposal Code.

NFPA Change or add the standards with the edition listed.

NFPA 1 – 2015	NFPA 11 – 2010	NFPA 12 – 2011	NFPA 12A – 2009
NFPA 13 – 2013	NFPA 13D – 2013	NFPA 13R – 2013	NFPA 14 – 2013
NFPA 15 – 2012	NFPA 16 – 2011	NFPA 17 – 2013	NFPA 17A – 2013
NFPA 18 – 2011	NFPA 20 – 2013	NFPA 22 – 2013	NFPA 24 – 2013
NFPA 25 – 2014	NFPA 30 – 2015	NFPA 30A – 2015	NFPA 30B – 2015
NFPA 32 – 2011	NFPA 33 – 2011	NFPA 34 – 2011	NFPA 35 – 2011
NFPA 36 – 2013	NFPA 40 – 2011	NFPA 45 – 2011	NFPA 51 – 2013
NFPA 51A – 2012	NFPA 51B – 2014	NFPA 58 – 2014	NFPA 61 – 2013
NFPA 70 – 2014	NFPA 72 – 2013	NFPA 80 – 2013	NFPA 85 – 2011
NFPA 96 – 2014	NFPA 99 – 2015	NFPA 101 – 2015	NFPA 110 – 2013

NFPA 111 – 2013	NFPA 120 – 2010	NFPA 204 – 2012	NFPA 252 – 2012
NFPA 253 – 2011	NFPA 257 – 2012	NFPA 265 – 2013	NFPA 268 – 2012
NFPA 409 – 2011	NFPA 418 – 2011	NFPA 654 – 2013	NFPA 655 – 2012
NFPA 664 – 2012	NFPA 701 – 2010	NFPA 704 – 2012	NFPA 720 – 2015
NFPA 1123 – 2014	NFPA 1124 – 2013	NFPA 1142 – 2012	NFPA 1144 – 2013
NFPA 2001 – 2012			

The following shall be added: Appendix B, C, D

APPENDIX B

Section B103 Modifications. Insert the following additional Sections:

B103.4 Dry Hydrants. In any subdivision/development, where a water distribution system for fire protection is not provided, the Jurisdictional Fire Protection district may require the owner to modify storm water control basins, lakes or ponds, to provide a pond with a minimum depth of five (5) feet and to install a dry hydrant that conforms to the standard of NFPA 1142 and the approval of the Fire Code Official with a suction pipe from the middle of the pond. The dry hydrant shall be installed on the road or street right of way or easement proposed to be installed within the subdivision/development and shall meet the standards established by the Jurisdictional Fire Protection District. It shall be unlawful to erect any structure in any subdivision/development prior to completion of any required fire protection water supply equipment as required by this fire code.

B103.4.1 Distribution. Where the configuration of lots, distance between buildings and lot lines or public utility easements, accessibility to building or fire suppression requirements, the Fire Code Official shall require additonal dry hydrants as deemed necessary.

B103.4.2 Fire Flow. The total gallons per minute, which dry hydrants shall be required to produce shall be determined by the structure being served by the dry hydrant. In no case shall be dry hydrant produce less than 1,000 gallong per minute.

B103.4.3 Location. The precise location of and specifications for dry hydrant(s) shall be subject to the review and approval of the Fire Code Official prior to instllation of the system.

B103.4.4 Professional Plan Review. The dry hydrant plan submitted for review may be subject to review by an outside professional engineer or building and fire code consultant. The submitted party will incur all associated costs of outside professional services.

B103.4.5 Permitted Use. It shall be unlawful for any person to utilize any fire protection devices such as drafting pits, dry hydrants or other water supply appurtenance designed for fire fighting operations without the express permission of the Jurisdictional Fire Protection District.

B103.4.6 Maintenance. All dry hydrants shall me maintained free from obstructions. The access to any area surrounding the dry hydrant shall be properly cleared of obstacles, which may hide or impede the use of the dry hydrant. Furthermore, the dry hydrant shall be maintained in working order at all times, capable of delivering the minimum required flow. Responsibility of maintaining, repairing, replacing and/or dredging of dry hydrants within a subdivision/development shall be the responsibility of the appropriate property owners associations. In the absence of a property owners association, each dry hydrant will be addressed on an individual property owner responsibility.

B103.4.7 Signage. The Jurisdictional Fire Protection District may require the property owner or his designated agent to install "No Parking – Fire Hydrant" or other signs as needed. The Jurisdictional Fire Protection District may require the dry hydrants to be painted a certain color.

B105.1 Delete the Exception.

B105.2 Delete the Exception.

SECTION SEVEN. Amendment Title 4 to include new Chapter 11. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 11, entitled "Mechanical Code," which Mechanical Code shall hereafter be and read as follows:

4-11-1: MECHANICAL CODE ADOPTED:

There is hereby adopted by the Village the 2015 International Mechanical Code, as hereinafter amended (hereinafter the "Mechanical Code"). At least one copy of the mechanical code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-11-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO MECHANICAL CODE:

The following sections of the 2015 International Mechanical Code are hereby amended, revised, and changed as follows:

Passim. Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim. Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim. Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Subsection 106.5.2 Fee Schedule. Insert the following at the end of the Subsection: See Village of Long Grove Fee Schedule.

Section 108.4 Violation Penalties. Insert the following at the end of the Section in the parentheses provided: See the current Village of Long Grove Fee Schedule.

Section 108.5 Stop Work Orders. Delete the words "of not less than [AMOUNT] dollars or more than [AMOUNT] dollars and replace with the following: as set forth in the Village of Long Grove Fee Schedule.

Section 109 Means of Appeal. Delete the text of the Section in its entirety, including Sections 109.1 – 109.7, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Chapter 15 Referenced Standards.

Delete ICC Electric Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

Delete the International Sewage Disposal Code.

NFPA See the changes indicated in the International Fire Code amendments.

Appendices: Adopt Appendix A.

SECTION EIGHT. Amendment Title 4 to include new Chapter 12. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 12, entitled "Fuel Gas Code," which Fuel Gas Code shall hereafter be and read as follows:

4-12-1: FUEL GAS CODE ADOPTED:

There is hereby adopted by the Village the 2015 International Fuel Gas Code as hereinafter amended (hereinafter the "Fuel Gas Code"). At least one copy of the International Fuel Gas Code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-12-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO FUEL GAS CODE:

The following sections of the 2015 International Fuel Gas Code are hereby added, amended, revised, and changed as follows:

Passim. Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim. Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim. Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Subsection 106.6.2 Fee Schedule. Delete the text of the Subsection and replace with the following: See the of Long Grove Fee Schedule.

Section 108.4 Violation Penalties. Delete the sentence in its entirety and replace with the following: See the Village of Long Grove Fee Schedule.

Section 108.5 Stop Work Orders. Delete the words "of not less than [AMOUNT] dollars or more than [AMOUNT] dollars and replace with the following: as set forth in the Village of Long Grove Fee Schedule.

Section 109 Means of Appeal. Delete the text of the Section in its entirety, including Sections 109.1 – 109.7, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Chapter 8 Referenced Standards.

Delete ICC Electric Code.

Delete International Plumbing Code and insert the Illinois Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

Delete the International Sewage Disposal Code.

NFPA See the changes indicated in the International Fire Code amendments.

Appendices: Adopt Appendices A, B, C, and D.

SECTION NINE. Amendment Title 4 to include new Chapter 13. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 13, entitled "Energy Conservation Code," which Energy Conservation Code shall hereafter be and read as follows:

4-13-1: ENERGY CONSERVATION CODE ADOPTED:

There is hereby adopted by the Village the 2012 International Energy Conservation Code as hereinafter amended (hereinafter the "Energy Code"). At least one copy of the International Energy Conservation Code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in

the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-13-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO ENERGY CONSERVATION CODE:

The following sections of the 2012 International Energy Conservation Code are hereby added, amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 102.8.2 Add the following: All amendments to this code in The Illinois Energy Efficiency Act shall be followed.

Section 109 Board of Appeals. Delete the text of Section 109 in its entirety, including Sections 109.1 – 109.3, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Chapter 8 Referenced Standards.

Delete ICC Electric Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

NFPA See the changes indicated in the International Fire Code amendments.

SECTION TEN. Amendment Title 4 to include new Chapter 14. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 14, entitled "Property Maintenance Code," which Property Maintenance Code shall hereafter be and read as follows:

4-14-1: PROPERTY MAINTENANCE CODE ADOPTED:

There is hereby adopted by the village the 2015 International Property Maintenance Code, as hereinafter amended (hereinafter the "Property Maintenance Code"). At least one copy of the property maintenance code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in

the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-14-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO PROPERTY MAINTENANCE CODE:

The following sections of the 2015 International Property Maintenance Code are hereby amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 103.5 Fees. Insert the following language in the parentheses provided: See the Village of Long Grove Fee Schedule.

Section 111 Means of Appeal. Delete the text of the Section in its entirety, including Sections 111.1 – 111.8, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Section 302.4 Weeds. Add the following at the end of the first paragraph: Weeds or grasses in excess of 8 inches in height shall be mowed.

Section 302.4 Weeds. Insert the following Exception:

Exception: Weeds or grasses within a Conservation and Scenic Corridor Easement designated by the Village of Long Grove are not required to be mowed in accordance with Section 302.4.

Insert the following new **Subsection 302.10. Owner of Property Required to Cut or Remove Weeds, Grasses or Bushes.**

(A) Unmanaged ground cover, weeds, grasses and bushes, including nonnative prairie species such as buckthorn, goldenrod, yellow and white sweet clover and ragweed, shall not be allowed to grow in excess of eight inches on all property within the Village.

(B) The Village may require the property owner to cut weeds, grass, trim trees or bushes or remove bushes, trees, buckthorn, teasel and garlic mustard which constitute a public nuisance or threat to public health, safety or welfare.

Insert the following new **Section 302.11 Regulations Regarding Lawn Fertilizer Use and Application.** See Village of Long Grove Village Code Title 8, Chapter 13, titled "Regulations Regarding Lawn Fertilizer Use and Application."

Section 304.14 Insert Screens. Where the text reads "from [DATE] to [DATE] insert the dates April 15 and October 15 so the text reads "from April 15 to October 15".

Section 404.5 Overcrowding.

Insert the following new **Subsection 404.5.3 Sleeping Area.** The minimum occupancy area required by Table 404.5 shall not be included as a sleeping area in determining the minimum occupancy area for sleeping purposes. All sleeping areas shall comply with section 404.4.

Insert the following new **Subsection 404.5.4 Combined Living and Dining Rooms.** Combined living room and dining room spaces shall comply with the requirements of Table 404.5 if the total area is equal to that required for separate rooms if the space is located so as to function as a combination living room/dining room.

Section 602.3 Heat Supply. Insert dates "from October 15 to April 15".

Section 602.4 Occupiable Work Spaces. Insert dates "from October 15 to April 15"; delete "65 ° F(18 ° C)" and replace with "68 degrees F (20 °)".

Chapter 8 Referenced Standards.

Delete ICC Electric Code and insert 2008 National Electrical Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

SECTION ELEVEN. Amendment Title 4 to include new Chapter 15. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 15, entitled "Existing Building Code," which Existing Building Code shall hereafter be and read as follows:

4-15-1: EXISTING BUILDING CODE ADOPTED:

There is hereby adopted by the village the 2015 International Existing Building Code, as hereinafter amended (hereinafter the "Existing Building Code"). At least one copy of the property maintenance code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-15-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO EXISTING BUILDING CODE:

The following sections of the 2015 International Existing Building Code are hereby amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 108.2 Schedule of Permit Fees. Insert the following at the end of the Section: See the Village of Long Grove Fee Schedule.

Section 112 Board of Appeals. Delete the text of the Section in its entirety, including Sections 112.1 – 112.3, and replace with the following language: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Section 1401.5.4 Evaluation. Fire sprinkler the sprinkler system amendments in Chapter 9 of the IBC and local amendments will be followed regardless of any calculation performed in this section.

Chapter 15 Referenced Standards.

Delete ICC Electric Code and insert 2008 National Electrical Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

SECTION TWELVE. **Amendment Title 4 to include new Chapter 16**. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 16, entitled "Wildland-Urban Interface Code," which Wildland-Urban Interface Code shall hereafter be and read as follows:

4-16-1: WILDLAND-URBAN INTERFACE CODE ADOPTED:

There is hereby adopted by the village the 2015 International Wildland-Urban Interface Code, as hereinafter amended (hereinafter the " Wildland-Urban Interface Code"). At least one copy of the Wildland-Urban Interface Code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-16-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO WILDLAND-URBAN INTERFACE CODE:

The following sections of the 2015 International Wildland-Urban Interface Code are hereby amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 106 Appeals. Delete the text of the Section in its entirety, including Sections 106.1 – 106.2, and replace with the following: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Chapter 7 Referenced Standards.

Delete ICC Electric Code and insert 2008 National Electrical Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This change affects all references to the International Plumbing Code in the entire code.

Appendices: Adopt the following Appendices: Appendix A, B, C, D, E, F, G and H.

SECTION THIRTEEN. Amendment Title 4 to include new Chapter 17. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 17, entitled "Building Performance Code," which Building Performance Code shall hereafter be and read as follows:

4-17-1: PERFORMANCE CODE FOR BUILDINGS AND FACILITIES ADOPTED:

There is hereby adopted by the village the 2015 Performance Code for Buildings and Facilities, as hereinafter amended (hereinafter the "Performance Code"). At least one copy of the property maintenance code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-17-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO PERFORMANCE CODE:

The following sections of the 2015 Performance Code for Buildings and Facilities are hereby amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

SECTION FOURTEEN. Amendment Title 4 to include new Chapter 18. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 18, entitled "Accessibility Code," which Accessibility Code shall hereafter be and read as follows:

4-18-1: ACCESSIBILITY CODE ADOPTED:

There is hereby adopted by the Village the Illinois Accessibility Code, 1997 Edition (hereinafter the "Accessibility Code") that shall remain in effect until such edition is amended in accordance with applicable law. Three (3) copies of the Accessibility Code have been filed in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein. In all instances where the requirements of the Accessibility Code conflict with corresponding requirements, standards or obligations as set forth in the 2015 International Building Code, then the more restrictive requirement shall prevail and said requirement, standard or obligation shall be complied with.

SECTION FIFTEEN. Amendment Title 4 to include new Chapter 17. Title 4, entitled "Building Regulations," of the Long Grove Village Code shall be and is hereby amended in its entirety to include a new Chapter 17, entitled "Swimming Pool and Sa Code," which Swimming Pool and Spa Code shall hereafter be and read as follows:

4-17-1: SWIMMING POOL AND SPA CODE ADOPTED:

There is hereby adopted by the village the 2015 International Swimming Pool and Spa Code, as hereinafter amended (hereinafter the " Swimming Pool and Spa Code"). At least one copy of the Swimming Pool and Spa Code has been on file in the office of the Village Clerk for a period of at least thirty (30) days prior to the adoption of these provisions and now are and remain on file in the office of the Village Clerk, and the same are hereby adopted and incorporated as fully as if set out at length herein.

4-17-2: DELETIONS, ADDITIONS, AND MODIFICATIONS TO WILDLAND-URBAN INTERFACE CODE:

The following sections of the 2015 International Swimming Pool And Spa Code are hereby amended, revised, and changed as follows:

Passim Wherever the phrase "[name of jurisdiction]" or the word "jurisdiction" appear, they shall be deemed to refer to the Village of Long Grove, Illinois

Passim Wherever the phrase "Code Official" appears, it shall be deemed to refer to the Village of Long Grove Village Superintendent or such Superintendent's duly designated agent or agents.

Passim Whenever there is a reference to the "Village of Long Grove Fee Schedule" or any other general reference to fees or charges, it shall mean the then-current ordinance of the Village setting forth fees, charges, and other costs payable to the Village relating to activities covered by, and the administration of, this Code.

101.1 Insert The Village of Long Grove

Section 108 Appeals. Delete the text of the Section in its entirety, including Sections 108.1 – 108.7, and replace with the following: Appeals shall be made available and pursued in the manner set forth in Section 113 of the ICC Building Code 2015, as amended by the Village Code.

Chapter 11 Referenced Standards.

Delete ICC Electric Code and insert 2008 National Electrical Code.

Delete International Plumbing Code and insert the Illinois State Plumbing Code - 2014. This cange affects all references to the International Plumbing Code in the entire code.

SECTION SIXTEEN. Repeal of Title 9, Fire Regulations. Title 9, entitled "Fire Regulations," of the Long Grove Village Code shall be and is hereby expressly repealed.

SECTION SEVENTEEN. Effective Date. This Ordinance shall be in full force and effect upon its passage, approval, and publication in pamphlet form in the manner provided by law.

PASSED this ___th day of _____, 2015.

AYES: (4) Trustees

NAYS: (0)

ABSENT: (2) Trustees

APPROVED this ___th day of _____, 2015.

_____
Village President,

_/s/_____
Village Clerk,