

## Adoption of the 2012 International Fire Code and Amendments

The 2012 International Fire Code was adopted by the Village of Glenview through Ordinance #5879 on December 9, 2014

Building codes are adopted to provide a means to enforce building standards of construction and use, and are periodically updated to reflect the latest standards of life-safety and construction technology. These amendments are established on particular physical and aesthetic conditions within the Village as well as to provide consistency between Village, State and County codes.

### Amendments to the 2012 International Fire Code:

- (1) *Section 101.1 Title.* Amended to read as follows: “These regulations shall be known as the Fire Code of the Village of Glenview, Cook County, Illinois (the “Village”) hereinafter referred to as ‘this code.’”
- (2) *Section 102.7. Referenced codes and standards.* Amended to read as follows: “The codes and standards referenced in this code shall be those that are listed in Chapter 80 of this code and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply. The following codes and standards are not adopted by reference and thus are not considered part of the requirements of this code.  
IPC 2012 International Plumbing Code  
IPSDC 2012 International Private Sewage Disposal Code  
IZC 2012 International Zoning Code  
IWUIC 2012 International Wildland-Urban Interface Code  
ISPSC 2012 International Swimming Pool and Spa Code”
- (3) *Section 202 Definitions.* Amended by adding the following definition:  
“**Consumer Novelties.** Consumer novelties shall mean: (i) snakes, glow worm pellets, smoke devices, trick snappers, trick matches, cigarette loads, auto burglar alarms, toy pistols, toy canes, toy guns, and other devices in which paper or plastic caps containing 0.25 grains or less of explosive compound are used, provided they are constructed so that the hand cannot come in contact with the cap when in place for the explosion, and (ii) toy pistol paper or plastic caps which contain less than 0.25 grains of explosive mixture.”
- (4) *Section 202 Definitions – Fire Alarm Control Unit.* Amended to read as follows:  
“**Fire Alarm Control Unit.** A system component that receives inputs from automatic and manual fire alarm devices and may be capable of supplying power to detection devices and transponders or off-premises transmitters. The control unit is capable of providing a transfer of power to the notification appliances and transfer of conditions to relays or devices. The control unit shall be used for the fire alarm only.”

- (5) *Section 505.1 Address identification.* Amended to read as follows: “Each structure to which an address number has been assigned shall have such number displayed in a position easily observed and readable from the public right-of-way. All numbers shall be in Arabic numerals at least six (6) inches high with a one (1) inch stroke.”
- (6) *Section 506.1 Where required.* Amended to read as follows: “All buildings or structures equipped with a fire alarm or fire suppression system shall provide a fire department Knox box on the exterior of the building or structure. The box shall contain keys to allow fire department entry in the event of fire alarm activation or an emergency. The fire code official may also require a fire department Knox box if access to the building, structure or area is unduly difficult. All fire department key boxes, location of the Knox boxes, and the number of key boxes required shall be approved by the fire official. The Knox box shall be mounted at a height of five feet six inches (5’ 6”) above the finished grade.”
- (7) *Section 510 Emergency Responder Radio Coverage.* Deleted in its entirety.
- (8) *Section 903 Automatic sprinkler systems.* Amended by adding a new subsection, *903.7 Private fire hydrants*, which reads as follows: “In developed lots, subdivisions or parcels except R-3 occupancies, fire hydrants shall be located no more than 300 feet apart. Fire hydrants shall be provided on all sides of a developed lot, subdivision or parcel except R-3 occupancies as approved by the authority having jurisdiction. One (1) fire hydrant shall be located not more than 100 feet from the fire department connection on the fire protection water supply to the building or structure.”
- (9) *Section 903.2 Where required.* Amended to read as follows: “Approved automatic fire sprinkler systems shall be installed in all new buildings regardless of materials used in construction and / or use group classification. Automatic fire suppression systems shall comply with the 2010 edition of the NFPA Standards.  
Exceptions:
1. Detached accessory building with an intended use that is incidental to that primary building on the same lot of record as a detached one-family dwelling. Detached accessory buildings shall include, but not be limited to, detached garages, storage sheds, and animal habitats.
  2. Detached accessory buildings with an intended use that is incidental to that of the primary building on the same lot of record where the primary building is classified as a Use Group B, F, I, M, S, and U that are less than 250 square feet in size. This exception shall not apply if the horizontal separation between the accessory building is less than 25 feet from any other building or accessory building and/or structure is used for the following hazardous materials:
    - a. Flammable and/or combustible liquids classified as Class 1A, 1B, 1C, and 111A and if the combined quantity exceeds 30 gallons.

- b. Flammable gas if the quantity exceeds 10 gallons and/or 333 cubic feet of gas.
  - c. Corrosives.
  - d. Toxic agents.
  - e. Oxidizers classified as Class 2, 3, or 4. Class 1 oxidizers shall not exceed 100 gallons and/or 1,000 pounds.
  - f. Unstable/reactives.
  - g. Water reactives if the quantity exceeds 100 gallons and/or 1,000 pounds.
  - h. Pyrophoric materials (All classifications).
  - i. Organic peroxides (All classifications).
  - j. Explosives (All classifications).
3. Picnic shelters, gazebos, pergolas, and detached public restroom facilities with a minimum horizontal separation of 25 feet from all other buildings. This exception shall not apply if the picnic shelter, gazebo, pergola, or detached public restroom is equipped with a permanent heat-producing appliance that utilizes natural gas and/or propane as a fuel supply or if the detached public restroom facility exceeds a total of 400 square feet in size.
  4. In telecommunications equipment buildings, a manual dry fire suppression system shall be installed in those spaces or areas equipped exclusively for telecommunications equipment, association electrical power distribution equipment, batteries and standby engines provided that those spaces or areas are equipped with an automatic fire detection system in accordance with Section 907 and are separated from the remainder of the building wire fire separation assemblies consisting of one-hour fire resistance rated walls and two-hour fire resistance rated floor/ceiling assemblies.”

- (10) *Section 903.2.1 through 903.2.11 Where required.* Deleted in their entirety.
- (11) *Section 903.2.12 During construction.* Renumbered as Section 903.2.1.
- (12) *Section 903.3.5 Water supplies.* Amended to read as follows: “Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1 of this code. The potable water supply shall be protected against backflow in accordance with the requirements of this section and Title 77, Part 890 of the Illinois Administrative Code (the “Illinois Plumbing Code”), as amended. Hydrant flow data used for the design of any sprinkler system shall be no more than one (1) year old.”
- (13) *Section 903.3.5 Water supplies.* Amended by adding a new subsection, *903.3.5.3 Low water pressure factor*, which reads as follows: “Provide a minimum ten percent (10%), but not less than five (5) psi, safety factor in the fire protection system hydraulic calculation. The system demand shall be a minimum 5 psi below the annual water flow test supply.”

- (14) *Section 903.4.2 Alarms*. Amended by adding a new subsection, *903.4.2.1 Additional alarm location*, which reads as follows: “A weatherproof visual strobe activated by water flow shall be provided on the exterior of the building or structure and located over the fire department connection or in a location approved by the authority having jurisdiction.”
- (15) *Section 903.4.2 Alarms*. Amended by adding a new subsection, *903.4.2.2 Location*, which reads as follows: “Alarm notification appliance and approved audio/visual devices shall be provided and located per NFPA 72. Automatic fire alarm systems shall comply with the 2010 edition of the NFPA 72 Standard.”
- (16) *Section 903.4.3 Floor control valves*. Amended to read as follows: “Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor of the building or structure.”
- (17) *Section 903.5 Testing and maintenance*. Amended by adding a new subsection, *903.5.1 Accessibility*, which reads as follows: “Fire sprinkler systems’ inspection test valves shall be accessible at all times and located no more than six (6) feet above the finished floor surface. On multiple riser systems test valves shall be clearly identified in permanent marking as to the riser and area served.
- (18) *Section 903 Automatic sprinkler systems*. Amended by adding a new subsection, *903.7 Fire pump test header*, which reads as follows: “Automatic sprinkler systems that are equipped with an approved fire pump shall be provided with an OS&Y (or approved equal) control valve on the fire pump test header(s). Fire pump installations shall include an exterior test header.”
- (19) *Section 903 Automatic sprinkler systems*. Amended by adding a new subsection, *903.8 Fire department access*, which reads as follows: “Rooms or spaces containing an automatic sprinkler system riser valve and/or a fire pump shall be provided with direct access from the exterior of the building or structure.”
- (20) *Section 903 Automatic sprinkler systems*. Amended by adding a new subsection, *903.9 Warehouse storage*, which reads as follows: “A two and one-half (2 ½) inch fire hose valve with a one and one-half (1 ½) inch reducer to a one and one-half (1 ½) inch connection shall be provided at each means of egress to warehouse storage areas greater than 20,000 square feet in which storage exceeds twelve (12) feet in height. The two and one-half (2 ½) inch fire hose valve(s) shall be installed on a separate riser piping system and shall be provided with a four (4) inch water supply and a two and one-half (2 ½) inch brand water supplies. Each two and one-half (2 ½) inch fire hose valve shall be installed so no distance from the nearest two and one-half (2 ½) inch fire hose valve is greater than 120 feet.”
- (21) *Section 905.3 Required installations*. Amended by adding a new subsection, *905.3.9 Three story buildings*, which reads as follows: “Any building that has three (3) stories or more above grade, or has any horizontal dimension exceeding

150 feet between exterior walls, shall be equipped with a standpipe system designed and installed in accordance with NFPA standard 14 for standpipe and hose systems (Class 1 service) as defined therein. Dry standpipe systems are prohibited unless written approval is received from the Fire Code Official or his/her designee.

- (22) *Section 907.2 Where required – new buildings and structures.* Deleted in its entirety and replaced with the following: *907.2 Where required– new and existing structures and buildings.* “An approved manual, automatic or combination manual and automatic fire alarm monitored system in accordance with the provision of this code and NFPA 72 shall be provided in new buildings and structures in all use groups.

Exceptions:

1. One- and two-family dwelling units.
2. In existing residential multi-family use groups, initiating and notification devices required by NFPA 72 may be omitted from within the dwelling unit provided that such devices located within the adjacent common areas “outside the dwelling unit” shall provide an audible level acceptable to the fire code official.”

*907.2.1 Fire alarm and detection systems – requirement.* Fire Alarm Control Units shall be configured to be silenced with a key and no other method.

*907.2.2 Fire alarm and detection systems – Group I occupancies.* A manual fire alarm system shall be installed in Group I occupancies. An electrically supervised, automatic smoke detection system shall be provided in accordance with Sections 907.2.2.1, 907.2.2.2, and 907.2.2.3 of this code.

Exception: Manual fire alarm boxes in resident or patient sleeping areas of Group I-1 and I-2 occupancies shall not be required at exits located at all nurse’s control stations or other constantly attended staff locations, provided such stations are visible and continuously accessible and that travel distances required in Section 903.7.1 of this code are not exceeded.

*907.2.2.1 Group I-1.* Corridors, habitable spaces other than sleeping units and kitchens and waiting areas that are open to corridors shall be equipped with an automatic smoke detection system.

Exceptions:

1. Smoke detection in habitable spaces is not required where the facility is equipped throughout with an automatic sprinkler system.
2. Smoke detection is not required for exterior balconies.

*907.2.2.2 Group I-2.* Corridors in nursing homes (both intermediate care and skilled nursing facilities), detoxification facilities and spaces permitted to be open to the corridors by Section 407.2 of this code shall be equipped with an automatic fire detection system. Hospital shall be equipped with smoke detection as required in Section 407.2 of this code.

Exceptions:

1. Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping units are provided with smoke detectors that comply with UL268. Such detectors shall be provided a visual display on the corridor side of each patient sleeping unit and an audible and visual alarm at the nursing station attending each unit.
2. Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping unit doors are equipped with automatic door-closing devices with integral smoke detectors on the unit sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.

907.2.2.3 *Group I-3.* Group I-3 occupancies shall be equipped with a manual and automatic fire alarm system install for alerting staff.

907.2.2.3.1 *System initiation.* Actuation of an automatic fire-extinguishing system, a manual fire alarm box or a fire detector shall initiate an approved fire alarm signal which automatically notifies staff. Pre-signal systems shall not be used.

907.2.2.3.2 *Manual fire alarm boxes.* Manual fire alarm boxes are not required to be located in accordance with Section 907.3 of this code where the fire alarm boxes are provided at staff-attended locations having direct supervision over areas where manual fire alarm boxes have been omitted.

Manual fire alarm boxes shall be permitted to be locked in areas occupied by detainees, provided that staff members are present within the subject area and have keys readily available to operate the manual fire alarm boxes.

907.2.2.3.3 *Smoke detectors.* An approved automatic smoke detection system shall be installed throughout resident housing areas, including sleeping units and contiguous day rooms, group activity spaces and other common spaces normally accessible to residents.

Exceptions:

1. Other approved smoke detection arrangements providing equivalent protection including, but not limited to placing detectors in exhaust ducts from cells or behind protective guards listed for the purposed are allowed when necessary to prevent damage or tampering.
2. Sleeping units in Use Condition 2 and 3.
3. Smoke detectors are not required in sleeping units with four or fewer occupants in smoke compartments that are required throughout with an approved automatic sprinkler system.

907.2.3 *Automatic fire detection system required.* An approved automatic fire detection system shall be installed in all use groups, not provided with an automatic sprinkler system, and in accordance with NFPA 72. Devices, combination of devices, appliances, and equipment shall comply with Section 907.1.2 of this code. 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 activate a smoke detector. Automatic fire alarm systems shall comply with the 2010 edition of the NFPA 72 Standard.

*907.2.4 Control panel locations.* All fire alarm control panels of full function annunciator panels shall be installed within ten (10) feet of the main entrance, or in a location approved by the fire code official.

- (23) *Section 907.3 Fire safety functions.* Amended to read as follows: “Automatic fire detectors utilized for the purpose of performing fire safety function shall be connected to the building’s fire alarm control panel where a fire alarm system is required by Section 907.2 of this code. Detectors shall, upon actuation, perform the intended function and activate the alarm notification appliances or a visible and audible supervisory signal at a constantly attended location. The detectors shall be located in accordance with Chapter 5 of NFPA72. Multi-tenant Group M buildings will be activated by individual tenant space by the automatic sprinkler system flow switch for that space or an automatic fire detection system.”
- (24) *Section 912 Fire Department Connections.* Amended by adding a new subsection, *912.1.1 Local fire department connections*, which reads as follows: “All fire department connections shall be a NST four- (4) inch, non-swivel Storz connection with a fixed 30-degree downturn and shall be located on the building wall, 24 inches to 42 inches above the finished grade.”
- (25) *Section 1006.3 Emergency power for illumination.* Amended by adding a new Line Number 6, which reads as follows: “6. All rooms containing the building sprinkler riser(s), fire pump(s), and fire alarm control panel(s) shall be provided with approved emergency lighting.”
- (26) *Section 1007.6 Areas of refuge.* Amended by adding a new subsection, *1007.6.4 Identification*, which reads as follows: “Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign complying with ICC A117.1, stating: AREA OF REFUGE, and include the International Symbol of Accessibility. Where exit sign illumination is required by Section 1011.2 of this code, the area of refuge sign shall be internally illuminated. Additionally, tactile signage complying with ICC A117.1 shall be located at each door to an area of refuge.”
- (27) *Section 2404.4 Fire protection.* Amended to read as follows: “Spray booths and spray rooms shall be protected by an approved automatic fire-extinguishing system complying with Chapter 9 of this code. Protection shall also extend to exhaust plenums, exhaust ducts and both sides of dry filters when such filters are used. All existing spray booths and rooms in existence as of the date of this ordinance shall be retrofitted to comply with this automatic fire-extinguishing system requirement within a period of time specified by the fire code official.”

- (28) *Section 5601.1.3 Fireworks.* Amended to read as follows: “The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.  
Exceptions:  
1. Storage and handling and use of fireworks at display sites in accordance with Sections 5604 and 5608.5 and NFPA 1123 or NFPA 1126 listed in Chapter 35 of the 2012 ICC International Building Code.  
2. The retail sale of approved consumer novelties as defined in Section 202 of this code shall be permitted but only to persons 18 years of age or older. Retail sales shall be permitted only in buildings equipped with approved automatic sprinkler systems. The display of consumer novelties in a building shall be separated from all exit doors by a minimum distance of 20 feet or as approved in advance in writing by the fire code official. The sale of consumer novelties shall not be permitted at any building or on any property where flammable or combustible liquids or gases are sold or dispensed.”
- (29) *Section 5601.1.3 Fireworks.* Amended by adding a new subsection, *5601.1.3.1. Penalties for possession*, which reads as follows: “Any person, firm, corporation, or entity that violates any provision of Section 5601.1.3 of this code shall be subject to penalties as described in Section 1-16 of the Glenview Municipal Code.”
- (30) *Section 5601.2.2 Sales and retail display.* Amend this subsection by adding the following sentence to the end of the paragraph: “It shall be unlawful to display, sell, store, or advertise for sale any Class 1.3G or 1.4G fireworks within the Village of Glenview.”
- (31) *Section 5608.2.1 Outdoor fireworks displays.* Amended to read as follows: “In addition to the requirements of Section 403 of this code, permit applications for outdoor fireworks displays using Division 1.3G fireworks shall include a diagram of the location at which the display will be conducted, including the site from which fireworks will be discharged; the location of buildings, highways, overhead obstructions and utilities; and the lines behind which the audience will be restrained. All outdoor fireworks displays shall be electronically fired using approved electronic firing units and approved mortar racks. All outdoor fireworks displays shall comply with the provisions of the Fireworks Regulation Act of Illinois, 425 ILCS 30/1, *et seq.*, and the Pyrotechnic Distributor and Operator Licensing Act, 225 ILCS 227/1, *et seq.*”

## **Fire Protection Amendments to the Village of Glenview Municipal Code**

### **Sec. 34-121. - Established; duties**

- (a) This chapter shall be enforced by the development department of the Village. Fire prevention services shall be operated under the supervision of the director of development in



consultation with the fire marshal. The development department shall be responsible for the inspection of all properties as required by the Village code.

(b) The director of development and the fire marshal of the fire department shall recommend any amendments to this chapter which, in their judgment are desirable.

### **Sec. 34-122. – Appeals**

(a) Whenever the development department shall disapprove an application or refuse to grant a license or permit applied for, or when it is claimed that the provisions of this chapter do not apply or that the true intent and meaning of this chapter has been misconstrued or wrongly interpreted, the applicant may appeal from the decision of the development department to the fire marshal within 30 days from the date of the decision appealed. The decision of the fire marshal shall be final.

(b) The fire marshal, when so appealed to, may vary the applications of any provision of this chapter in any particular case in accordance with the provisions of section 34-152.

### **Sec. 34-151. - Definitions.**

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Chief of the fire department and chief of the fire prevention bureau*, when used in the fire prevention codes, mean the fire marshal, the authority having jurisdiction, or the director of development or their respective designees ("fire code official").

*Corporation counsel*, when used in the fire prevention codes, means the attorney for the Village of Glenview.

*Municipality*, when used in the fire prevention codes, means the Village of Glenview.

### **Sec. 34-152. - Modifications.**

The fire marshal shall have the power to modify any of the provisions of the fire prevention codes upon application, in writing, by the owner or lessee, or his duly authorized agent, when there are practical difficulties in the way of carrying out the strict letter of the codes, provided that the spirit of the codes shall be observed, public safety secured and substantial justice done. The particulars of such modification, when granted or allowed, and the decision of the fire marshal thereon shall be entered upon the records of the development department and a signed copy shall be furnished to the applicant.

### **Sec. 34-153. - Copies on file.**

Not less than three copies of the codes adopted under this article, all as amended in this article, have been and are filed in the office of the Village clerk, and are hereby adopted and incorporated as fully as if set out at length in this section, and the provisions thereof shall be controlling within the limits of the Village.

### **Sec. 34-154. - New materials, processes and occupancies requiring permits.**

The director of inspectional services or his/her designee, the fire marshal of the fire department and the fire inspector of the bureau of fire prevention shall act as a committee to determine and specify, after giving affected persons an opportunity to be heard, any new materials, processes or occupancies, which shall require permits, in addition to those now enumerated in the codes adopted by this article. Following such determination and specification, the committee shall give written notice thereof to interested persons.

### **Sec. 34-155. - Code compliance required.**

Whenever a physical change is made to a structure for which a building or remodeling permit is required, or a change of the type of occupancy occurs which, in the opinion of the fire marshal, creates a greater hazard to public safety or welfare, such property shall be brought into compliance with all codes adopted by the Village relative to the protection of health, safety and welfare.

**Sec. 34-156. - Reimbursement for extraordinary expenses.**

(a) Upon report and recommendation from the fire department, the corporate authorities find and determine that the recipients of aid or emergency relief and services shall be assessed for extraordinary costs incurred and payable to third parties or Village personnel for costs associated with rendering aid or emergency relief and services, including provision of supplies and equipment exhausted in rendering of such aid or emergency relief and services.

(b) Examples of such items to be billed to persons receiving aid or emergency relief and services include, but are not limited to, services by third parties relative to plumbing work within property lot lines, removal of vehicles or other items necessitating use of special equipment, testing to determine life safety factors when required, handling or disposing of toxic or hazardous substances and other related or necessary emergency relief and services.

(c) The recipients or benefactors, or administrators, personal representatives, executors, successors, heirs or assigns thereof, all as determined by the head of the department rendering aid or emergency relief, shall be and are obligated to reimburse the Village in the actual amount of payments made by the Village to third parties for services rendered in providing aid or emergency relief and for personnel costs associated with such aid, as well as payments to replenish necessary supplies and equipment used while providing aid or emergency services. The head of the Village's department incurring such extraordinary costs shall notify the finance director's office of the circumstances and provide a copy of the invoice or billing statement from the third party that specifies the nature of the expenditure and the amount to be, or in fact, paid. The finance director shall cause an invoice to be issued for the amount certified by the department head as to each circumstance reported.

(d) As used in this section the term "third party" means and includes any person, company or business entity, other than the Village or its employees. The Village may not employ any person or entity as a third party directly or indirectly sharing an interest in such services with an employee or officer of the Village, nor a company of which any portion is owned by an employee or officer of the Village.

(e) The finance director shall allow for a reasonable time for the payment of the reimbursement amount and shall hear any complaints or objections on the type and amounts of the expense. The finance director may adjust the amounts invoiced based upon demonstrated hardship, but is not required to make such adjustment. If no payment or response to a request for reimbursement has been received within 30 days from the date of invoice, the finance director is authorized to undertake such action as provided by law for the recovery of money due the Village, including, but not limited to, the filing of a lien in the office of the recorder of deeds of the County or the office of the registrar of titles.

**Sec. 34-157. - Violations; penalties.**

(a) Any person who shall violate any of the provisions of the fire prevention codes adopted under this article or who fails to comply therewith, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder, or any certificate or permit issued thereunder, and from which no appeal has been taken, or who shall fail to comply with such an order as affirmed or modified by the fire marshal or by a court of competent jurisdiction, within the time fixed in this article, shall severally, for each and every such violation and noncompliance respectively, be guilty of a misdemeanor, punishable as provided by [section 1-16](#). The imposition of one penalty for any violation shall not excuse the violation or permit it to continue, and all such persons shall be required to correct or remedy

such violations or defects within the time reasonably necessary as determined and specified in writing by the fire marshal, or within such further time as may be extended by the fire marshal, in writing, and, when not otherwise specified, each ten days that prohibited conditions are maintained shall constitute a separate offense.

(b) The application of the penalty set forth in subsection (a) of this section shall not be held to prevent the enforced removal of prohibited conditions.

### **Section 34-203. – Regulations**

#### Use group R-2 structures (condominiums):

An automatic fire suppression system shall be provided throughout all multiple family buildings containing three or more dwelling units in accordance with NFPA 13D 2010 Edition: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.

#### Use group R-3 structures (town homes):

An automatic fire suppression system shall be provided throughout all multiple family buildings containing three or more dwelling units in accordance with NFPA 13D 2010 Edition: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.

#### Use group A-1, A-2, A-3 and A-4 (assembly occupancies):

An automatic fire suppression system shall be provided throughout all assembly buildings greater than 2,500 square feet in area. The design and installation of the suppression system shall be in accordance with NFPA 13 2010 Edition: Standard for the Installation of Sprinkler Systems.

#### Use Group B, E, F-1, F-2, H-1, H-2, H-3, H-4, I-1, I-2, I-3, M, S-1, S-2 and U (business, educational, factory, hospital, institutional, mercantile, storage and utility):

An automatic fire suppression system shall be installed throughout all buildings referenced herein where the size is greater than 5,000 square feet in area. The design and installation of the suppression system shall be in accordance with NFPA 13 2010 Edition: Standard for the Installation of Sprinkler Systems.

The provisions of this article shall apply to existing structures where alterations or remodeling exceed 50% of the replacement cost of the structure. For the purpose of this article, replacement costs shall be determined by the latest building valuation data published by the International Code Council.

### **Section 34-204. – Additional municipal requirements**

#### *(a) Fire alarm systems.*

- (1) All fire alarm control panels shall be of the addressable type only. Zone panels are not permitted.
- (2) Where installed, all fire alarm junction boxes, covers, conduits, and connectors shall be red in color. Fire alarm box covers shall be identified as "FIRE ALARM" in a contrasting color.
- (3) Transformers used in a fire alarm system shall be hard-wired to its source of power.
- (4) All fire alarm control panels shall be install so they are conspicuous, unobstructed, and easily accessible. Locations shall be acceptable to fire code official.

(5) Fire alarm wire shall be attached to structural members by the use of bridle rings or loops.

(6) Duct detectors shall indicate at the fire alarm control panel as a fire alarm.

(b) *Fire protection and fire protection systems.*

(1) All required documentation regarding the design and procedures for maintenance, inspection, and testing of fire protection systems, including fire protection submittal documents, shall be maintained in a secured location on the premises approved by the code official for the life of the fire protection systems.

(2) All duct detectors shall be labeled with the HVAC unit it is associated with and clearly marked on the finished side of the ceiling under the detector or in a location acceptable to the fire code official. Keyed Remote Test Switches shall be located on the wall closest to the detector mounted five (5) feet above the floor.

(3) Battery-operated emergency lighting shall be provided in all locations required by the fire code official, in all occupancies, other than one-family and two-family dwellings.

(4) Smoke detector spacing shall meet the NFPA 72 requirements of heat detector spacing for ceiling heights over ten feet.

(5) Where 13D fire sprinkler systems are installed, they shall have dry head coverage in the garage.

(6) Where 13D fire sprinkler systems are installed, CPVC shall not be permitted to be exposed.

(c) *Public Safety Radio Amplification Systems.*

(1) *Applicability.* Except as otherwise provided in this division and specifically exempted below, no person shall erect, construct, change the use of, remodel, or install an addition to a building which yields a resulting building footprint in excess of 150% of the original building unless a Public Safety Radio Amplification System is provided. For the purposes of determining the area of the original and subsequent building footprint(s) of any structure subject to the terms of this section, a plat of survey depicting the original conditions of the given lot prior to construction of any addition or modification governed by the provisions of this section shall be furnished for review by the fire code official to be compared to a proposed site plan depicting the scope of the improvements. An “as-built” plat of survey may be required by the fire code official at the conclusion of construction to confirm compliance with the 150% requirement. The 150% requirement shall apply cumulatively to all improvements proposed to a given building as of the effective date of this amendment (December 9, 2014).

*Exceptions.* The following uses and structures shall be exempt from the requirements of this subsection:

A. Single-family detached residential buildings.

B. Single--family attached residential buildings comprised of up to two (2) units.

B. Any building or structure comprised of a combined gross floor area of less than 5,000 square feet.

C. Any building, structure, or addition which supports a minimum signal level of DAQ 3 (Delivered Audio Quality 3) available in 95% of the area designated on a coverage acceptance test plan designed in accordance with manufacturer specifications and approved by the Village Manager or his designee.

(2) *Specialty Structures.* In addition to the construction types listed in subsection (c)(1) of this section, the requirements of this section shall additionally apply to the following specialty structures:

- A. *Electronics Establishments* including any and all buildings which hold, carry, store, and/or operate electronic devices, electronics, electrical and/or communications equipment which creates interference with the Village's public safety communications infrastructure.
- B. *Storage Vaults and basements* including any floor space above or below grade designated as a storage vault and any floor space below grade in excess of two-thousand (2,000) square feet.
- C. *High-Rise Structures* including any and all high-rise buildings comprised of five (5) stories or greater and/or a building height of 140.0 feet or greater.
- D. *Hospitals* including any and all buildings within any H-1 Hospital and Medical district as defined by sec. 98-134 of the Code in which medical procedures are performed.

(3) *System requirements.*

- A. Any building, structure, or addition subject to the provisions of this section shall be equipped with any of the following systems:
  - 1. A radiating cable system
  - 2. An internal multiple antenna system with FCC Type Accepted Bi-Directional UHF Amplifiers as needed to encompass the Very High Frequency (VHF) band range from 150.0 MHz through 174.0 MHz, the Ultra High Frequency (UHF) band range from 450.0 MHz through 512.0 MHz, and the Tremendously High Frequency (THF) band range from 806.0 MHz through 912.0 MHz.
  - 3. An alternate system that has been approved by the Village as being capable of providing amplification to meet the requirements of this section.
- B. The system shall be capable of operating on an independent battery and/or generator system for a period of at least 12 hours without any additional external power input. The battery system shall automatically charge in the presence of external power input.
- C. There shall be no connectivity between the amplification system and the fire/police alarm system.
- D. If a system's bi-directional amplifiers create interference within 35 dB of the NPSPAC band, filters tuned to the frequencies specified in subsection (3)A.2. shall be required.
- E. *Signal Booster Requirements.* If used, signal boosters shall meet the following requirements;
  - 1. All signal booster components shall be contained in a National Electrical Manufacturer's Association (NEMA) 4-type waterproof cabinet.
  - 2. Battery systems used for the emergency power source shall be contained in a NEMA 4-type waterproof cabinet.
  - 3. The signal booster system and battery system shall be electrically supervised and monitored by a supervisory service, or when approved by the fire code official, shall sound an audible signal at a constantly attended location.
  - 4. Equipment shall have FCC certification prior to installation.

(4) *Testing.*

- A. *Qualifications of Testing Personnel.* All tests shall be conducted, documented, and signed by a person in possession of a current FCC general radiotelephone operator license. All test records shall be

retained at the inspected premises by the building owner and a copy submitted to the Village of Glenview within thirty (30) days of when the test has been conducted. In the event the test shall fail to comply with the minimum requirements of the Village, appropriate modifications and/or repairs shall be made and additional tests conducted until tests meet the minimum requirements of the Village.

- B. *Testing Procedure.* Each floor of the building shall be divided into a grid of approximately twenty (20) equal areas. A maximum of two nonadjacent areas will be allowed to fail the test. In the event that three of the areas fail the test, in order to be more statically accurate the floor may be divided into forty (40) equal areas. In such event, a maximum of four nonadjacent areas will be allowed to fail the test. After the 40 area tests, if the system continues to fail the property owner shall repair, replace, alter, or upgrade the system altered to meet the DAQ 3 coverage requirement. Talk testing from site to the Village of Glenview Public Safety Communications Center shall use a two watt portable transceiver with speaker/microphone and flexible antenna. A spot located approximately in the center of the grid area will be selected for the test, then the radio will be keyed to verify two-way communication to and from the outside of the building. Once the spot has been selected, use of another spot with the grid area will not be permitted. Field strength testing instruments are to be recently calibrated (within the past 12 months) and of the frequency selective type incorporating a flexible antenna similar to the ones used on the hand held transceivers.
- C. *Gain values.* The gain values of all amplifiers shall be measured and the results kept on file with the property owner so that the measurements can be verified each year during the annual tests. In the event that the measurement results become lost, the property owner will be required to rerun the acceptance test to reestablish the gain values.
- D. *Acceptance Testing.* Acceptance testing for an in-building radio amplification system is required.
- E. *Annual Testing.* When an in-building radio system is installed, the property owner shall test all active components of the system including but not limited to amplifier, the power supplies, and back-up batteries, a minimum of once every twelve (12) months. Amplifiers shall be tested to ensure that the gain is the same as it was upon initial installation and acceptance. Back-up batteries and power supplies shall be tested under load for a period of one hour to verify that they will operate during an actual power outage. All other active components shall be checked to determine that they are operating within the manufacturers specifications for the intended purpose.
- F. *Ten-Year Testing.* In addition to the annual test, the property owner shall perform a radio coverage test a minimum of once every ten (10) years to ensure that the radio system continues to meet the requirements of the original acceptance. The procedure set forth above shall apply to such tests.

(5) Maintenance responsibilities.

A. *Maintenance Contract.* Upon completion of all the tests to the minimum standards of the village, the property owner shall be responsible for the maintenance of the system. Upon request by the Village Manager or his designee, the property owner shall furnish a maintenance contract including the name(s) of the contractor(s), who will supply a 24-hour, 7-day emergency response within two (2) hours after notification by either the village or the property owner.

B. *System Maintenance.* The property owner shall be responsible for making any repairs, replacements, or upgrades to the systems should the system fail to meet testing specifications.

(d) *Obstruction of existing and planned public safety communications microwave paths.*

(1) New or modified buildings or structures comprised of six (6) stories or greater may not interrupt the microwave paths connecting facilities which comprise the Village's public safety communications infrastructure. Prior to obtaining a permit for such construction or modifications, the property owner shall furnish proof to the Village Manager or his designee in the form of a registered engineer's certification that the structure will not interfere with the present microwave path or any planned path.