

ORDINANCE NO. 2005-02

ADOPTING FIRE PREVENTION REGULATIONS
FOR THE PURPOSE OF
GOVERNING CONDITIONS HAZARDOUS TO LIFE
AND PROPERTY FROM FIRE OR EXPLOSION, AND
ESTABLISHING A BUREAU OF FIRE PREVENTION

BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE NORTH
AURORA & COUNTRY SIDE FIRE PROTECTION DISTRICT OF KANE
COUNTY, ILLINOIS, AS FOLLOWS:

ARTICLE 1. ADOPTION OF FIRE PREVENTION REGULATIONS

For the purpose of governing conditions hazardous to life and property from fire or explosion there is hereby adopted by the Board of Trustees of the North Aurora & Countryside Fire Protection District of Kane County, Illinois and incorporated herein by this reference as fully as if set out at length herein (a) that a certain code known as the International fire code, 2000 edition and the whole thereof, (b) that certain code known as the "NATIONAL FIRE CODES" Code Numbers 10, 11, 11A, 12, 12A, 13, 13D, 13R, 14, 15, 16, 17, 17A, 18, 20, 22, 24, 25, 30, 30A, 30B, 31, 32, 33, 34, 35, 36, 37, 40, 42, 45, 50, 50A, 50B, 51, 51A, 51B, 52, 53, 55, 57, 58, 59, 59A, 61, 68, 69, 70, 70B, 70E, 72, 75, 76, 77, 80, 80A, 82, 85, 86, 88A, 90A, 90B, 91, 92A, 92B, 96, 97, 99, 99B, 101, 102, 105, 110, 111, 115, 122, 130, 140, 160, 170, 203, 204, 211, 214, 220, 221, 230, 232, 241, 286, 291, 318, 326, 385, 418, 430, 432, 434, 484, 490, 495, 496, 497, 498, 499, 501, 501A, 502, 520, 560, 610, 654, 704, 720, 750, 780, 801, 804, 805, 820, 850, 851, 853, 909, 914, 1122, 1123, 1124, 1125, 1126, 1127, 1141, 1142, 1144, 1192, & 1194, as amended and updated by the National Fire Protection Association, 2003 edition and the whole thereof, (c) that a certain code known as International Building Code, 2000 Edition as adopted and amended by the Village of North Aurora and the whole thereof, and (d) that a certain code known as "Illinois Accessibility Code" April 24, 1997 edition and the whole thereof. The provisions of the aforesaid codes have been clarified in this Ordinance. These clarified paragraphs, together with this Ordinance, shall be fire prevention regulations within the corporate limits of the North Aurora & Countryside Fire Protection District from the date on which this Ordinance shall take effect. Copies of the aforesaid codes have been filed for more than 15 days

prior to the adoption of this Ordinance in the office of the Secretary of the Board of Trustees of the North Aurora & Countryside Fire Protection District, at 2 N. Monroe, North Aurora, Illinois, where same shall remain on file and shall continue to be on file and available for use and reference in said office by any interested person. If there is any conflict between the language of this Ordinance and the language of the aforesaid codes, the language of this Ordinance shall prevail over the language of the aforesaid codes, and if the language of the aforesaid codes conflict, the language which provides the most protection shall prevail.

ARTICLE 2. ESTABLISHMENT OF A BUREAU OF FIRE PREVENTION

A Bureau of Fire Prevention is hereby established for the purpose of enforcing this Ordinance. The Chief of the North Aurora and Countryside Fire Protection District shall be by reason of said position the code Official of the Bureau of Fire Prevention and may appoint personnel of the North Aurora & Countryside Fire Protection District to assist in enforcing this Ordinance.

ARTICLE 3. DEFINITIONS

Wherever the word “Municipality” is used in the code or codes adopted herein by reference, it shall be held to mean the North Aurora & Countryside Fire Protection District. Wherever the term “Corporate Counsel” is used in the code or codes adopted herein by reference it shall be held to mean the Attorney for the North Aurora & Countryside Fire Protection District. Wherever the terms “authority having jurisdiction,” “Chief of the Fire Department” or “Fire Department” are used such terms shall be held to mean the Chief of the North Aurora & Countryside Fire Protection District.

Code Official-The officer or other designated authority charged with the Administration and enforcement of this code, or a duly authorized representative

ARTICLE 4 AMMENDMENTS TO THE 2000 INTERNATIONAL FIRE CODE

CHAPTER 1-ADMINISTRATION

SECTION 101-GENERAL

101.1 Title

Delete this section and insert the following:

These regulations shall be known as the Fire Code of the North Aurora & Countryside Fire Protection District, hereafter referred to as “this Code”.

101.2.1 Appendices

Delete this section and insert the following:

SECTION 103 – DEPARTMENT OF FIRE PREVENTION

103.1 General

Delete this section and insert the following:

A Bureau of Fire Prevention is hereby established for the purpose of enforcing this Ordinance. The Chief of the North Aurora and Countryside Fire Protection District shall be by reason of said position the code Official of the Bureau of fire Prevention and may appoint personnel of the North Aurora & Countryside Fire Protection District to assist in enforcing this Ordinance.

103.2 Appointment

Delete this section and insert the following:

The Chief of the North Aurora & Countryside Fire Protection District shall, by reason of said position, shall appoint personnel of the North Aurora & Countryside Fire Protection District to assist in enforcing this Ordinance. Such appointments shall include, but be not limited to a Fire Marshal, and as many inspectors, investigators, and public safety educators as may be needed. For the purposes of this Code, the Fire Marshal is the same as the Code Official.

SECTION 104-GENERAL AUTHORITY AND RESPONSIBILITIES

104.8 Modifications

Delete this section and insert the following:

The Chief of the North Aurora & Countryside Fire Protection District may grant a variance regarding any of the provisions of this Code upon application in writing by the owner or lessee of the building or structure, or their duly authorized agent, where there are practical difficulties in the way of carrying out the strict letter of this Code, provided that the spirit of the Ordinance codified in this chapter shall be observed, public safety secured, and substantial justice done. If the Fire Chief decides to grant a variance, he may place conditions thereon. The decision of the Fire Chief in either granting or denying the variance shall be in writing and entered in the records of the North Aurora & Countryside Fire Protection District. A signed copy of the Fire Chief's decision shall be furnished to the applicant.

104.10.2 Reporting hazardous locations

Add as an additional section:

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 North Aurora & Countryside Fire Protection District.

SECTION 105-PERMITS

105.1.1 Permits Required

Delete this section and insert the following:

Permits shall be obtained from the North Aurora & Countryside Fire Protection District 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 Code Official.

105.8 Operational Permit Fees (Annual Permit Fee or Event)

Add as an additional section:

The following fees are established 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	\$25.00
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
Corrosives	\$25.00
Covered mall buildings	\$50.00
Cutting and welding, calcium carbide and acetylene generators	\$25.00
Cryogenic liquids	\$25.00
Day care centers	\$25.00
Dust producing materials, explosion hazards	\$50.00
Education use groups (not for profit)	N/C
Education use groups (for profit)	\$25.00
Exhibits and trade shows	\$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
Pyroxylin plastics	\$25.00
Radioactive materials	\$25.00
Recreational and sport vehicle service and repair	\$50.00
Refrigeration Equipment	\$25.00
Rooftop Heliport	\$50.00
Storage of scrap tires and tire by-products	\$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

Add as additional sections:

105.9 The right of site development and construction plan review

Each applicant for a building permit involving new construction, additions and/or alterations, subdivision improvements, Planned Unit Developments (P.U.D.'s), fire detection/suppression systems or any other item that will affect the North Aurora & Countryside Fire Protection District operation, shall submit to the Code Official for review and approval, three (3) sets of all required plans, documents and a complete description of work to be performed. Only site development and sprinkler system plan documents will be required for all single family residences. The Code Official shall, 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 Code Official shall endorse said plans accordingly, and deliver said plans to the 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.

105.9.1 Plan review and site inspection fee schedule

Each applicant shall pay the following plan review and site inspection fees for review and site inspection by the North Aurora & Countryside Fire Protection District Fire Prevention Bureau. 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 two (2) inspections for each category.

Reviews by outside agency / consultant –Includes re-reviews, one (1) inspection and one (1) reinspection

Cost of the review + 15% for administration fee

Building review for new construction – Includes one (1) re-review, one (1) inspection and one (1) reinspection

\$.05 per sq. ft. for first 10,000 sq. ft. Minimum of \$100

\$.025 per sq. ft. for next 40,000 sq.ft.

\$.015 per sq.ft. for additional sq. ft. over 50,0000 sq. ft.

Cost for a 3rd review or above is 50% of original review for each additional review.

Sprinkler review – Includes one (1) re-review, one (1) hydrostatic test and one (1) acceptance test

\$150 for systems with 100 heads or less

\$150 + \$.50 per head for each additional head over initial 100 heads

Fire Pumps

\$35 per hour to witness test. 1 hour minimum

\$150 fire pump and related equipment review

Stand pipe system review – Includes one (1) re-review one (1) hydrostatic test and one (1) acceptance test
\$100 for the system
\$35 for each additional standpipe riser

Alternate extinguishing systems review – Includes one (1) re-review and one (1) inspection
\$100 for foam, dry chemical, etc.
\$100 for carbon dioxide systems up to 35 lbs. and \$1 for each lb. Over 35 lbs.
\$35 to witness test if occupant doesn't keep 6 month inspection tag current

Fire alarm system review – Includes one (1) re-review and one (1) inspection
\$100 per alarm system
\$35 per hour for reviews longer than one hour
Cost for a 3rd review or above is 50% of original review for each additional review

Reinspections
\$50 + \$35 for each hour past the first hour

Storage tanks (above and below ground)
\$50 per tank for above or below ground installation
\$50 per tank for underground tank removal
\$35 per above ground temporary tank. Permit good for 6 months only. If left over 6 months must reapply.

Inspection to receive certificate of occupancy
\$35 per hour. 1 hour minimum

Special permits or services
\$35 per hour during normal business hours. 1 hour minimum.
\$70 per hour after normal business hours and/or holidays. 1 hour minimum. By appointment only.

Alterations to building, fire suppression, or fire alarm systems – includes one (1) inspection
\$35 per hour for reviews. 1 hour minimum.

NOTE: In addition to the review fees listed, the applicant shall pay, prior to the issuance of any permit, the actual costs and expenses incurred by North Aurora & Countryside Fire Protection District for extraordinary reviews of plans or specifications beyond the review customarily involved in the usual course of such plan reviews. Such costs and expenses shall include actual review fees by consultants or outside contractors or time spent by North Aurora & Countryside Fire Protection District staff. North Aurora & Countryside Fire Protection

District staff time shall be billed at an hourly rate to be determined by the Fire Chief or designee.

SECTION 108 – BOARD OF APPEALS

108.1 Board of appeals established

Delete this section and insert the following:

Whenever the Code Official shall disapprove an application, or refuse to grant a permit, or when it is claimed that the provisions of the Ordinance do not apply, or that the true intent and meaning of the Ordinance have been misconstrued or wrongly interpreted, the applicant or person affected may appeal from the decision of the Code Official to the Board of Trustees of the North Aurora and North Aurora & Countryside Fire Protection District by written notice filed in the office of the Secretary of said Board within 30 days from the date of the decision being appealed. The said Board shall call a hearing on said appeal within 20 days of said notice of appeal filing, and shall render a decision in writing 10 days after completing such a hearing. Nothing herein shall restrict the Code Official from seeking immediate enforcement or the regulations of this Ordinance in court where the hazard involved requires such action.

108.1.1 Court of jurisdiction

Any person aggrieved by a decision of the Board, may apply to the appropriate Court of Jurisdiction. Application for review shall be made to the proper court within fifteen (15) days after the filing of the Board's decision in the office of the Secretary of the Board.

SECTION 109 – VIOLATIONS

109.3 Violations Penalties

Delete this section and insert the following:

110.5

In case there shall be, in the opinion of the Code Official, actual and immediate danger to life and property from the hazards of fire and explosions arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the use or occupancy of building or premises, the Code Official shall employ such labor and machinery, equipment and devices and cause the necessary work to be done to render said occupants or property temporarily safe, whether the procedure prescribed in this section has been instituted or not. The Board of Trustees of the North Aurora & Countryside Fire Protection District shall cause proper action to be instituted against the owner of the premises for the recovery costs incurred by the North Aurora and Countryside Fire Protection District in the performance of the emergency work.

Furthermore, the Code Official of the Bureau of Fire Prevention may temporarily close or condemn such property until said property is made safe.

SECTION 202- GENERAL DEFINITIONS

1. Code Section 202 Definitions—ADD

Townhouse/Rowhouse: A townhouse or rowhouse or structure by any other name performing the same function as a single family dwelling unit attached to another dwelling unit by a common roof, common foundation or by a fire wall, (a) extending two feet, eight inches (2' 8") above the roof or (b) terminating at the underside of the roof deck in those instances where the roof sheathing is constructed of approved non-combustible materials or of fire treated wood extending on either side of the wall a distance of 4 feet. Such buildings shall be constructed as single family housing with an approved two hour fire resistance rated 8" thick masonry fire wall assembly between living units.

CHAPTER 3- GENERAL PRECAUTIONS AGAINST FIRE

SECTION 301-GENERAL

301.3 Items not specifically covered

Add as an additional section:

Whenever or wherever a condition is found in any building, lot, or premises, that in the opinion of the Code Officials 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 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 section and insert the following:

An outdoor fire utilized to cook food for human consumption, or wood fires burned in metal, or porcelain finished metal, portable outdoor fireplace structures manufactured by a qualified manufacturing firm, as long as the manufacturer's recommendations for proper placement and operation of the fireplace are followed.

SECTION 304 – COMBUSTIBLE WASTE MATERIALS

301.1.4 Sweeping compounds

Only approved water solutions or detergent floor sweeping compounds, and grease absorbents shall be used for cleaning floors. The use of sawdust or similar combustible or flammable liquids spilled from machinery or processed on any floor is prohibited.

SECTION 305 – IGNITION SOURCES

Add as additional sections:

305.5 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 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.

305.6 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 307-OPEN BURNING

307.3.2 Recreational Fires

Delete this section and insert the following:

Recreational fires shall not be conducted within twenty-five (25) feet of a structure or combustible material unless the fire is contained within an approved device in accordance with 308.6 Conditions which could cause a fire to spread within twenty-five (25) feet of a structure shall be eliminated prior to ignition.

307.6 Spread of fire

Add as additional section:

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 operations accomplished, or such other reasonable precautions are taken to ensure against the starting or spreading of unfriendly fires.

SECTION 308 – OPEN FLAMES

308.6 – Portable outdoor fireplaces

Add as additional section:

Portable outdoor fireplaces shall be used only on noncombustible surfaces and shall be operated no closer than fifteen (15) feet from any flammable structure. Fuel for an outdoor fireplace shall consist of only seasoned, dry firewood and shall be ignited with a small quantity of paper.

CHAPTER 5 – FIRE SERVICE FEATURES

SECTION 503 – FIRE APPARATUS ACCESS ROADS

503.1.1 Buildings and facilities

Delete exception 1

503.1.4 Approval

Add as additional section:

The location of the fire apparatus roads or fire lanes shall be reviewed and approved by the North Aurora & Countryside Fire Protection District.

503.2.3 Surfaces

Delete this section and insert 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.

503.2.3.1

Private fire department access roads and roadways shall be properly maintained and accessible during all seasons at all times.

SECTION 506 – KEY BOXES

Delete this section and insert the following:

506.1 When required

When access to, or within a structure, or an area unduly difficult 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 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 the North Aurora & Countryside Fire Protection District.

506.1.1 Contents

The key box shall contain:

1. Keys to locked points of ingress whether on the interior or exterior of such buildings.
2. Keys to locked mechanical equipment rooms.
3. Keys to locked electrical rooms
4. Keys to elevator controls.
5. Keys to other areas as directed by the Code Official.
6. If entry is controlled by a card entry system, appropriate cards will be locked in box.
7. Each key or card shall be clearly identified or labeled as to use.

506.2 Key lock box maintenance

Delete this section and insert the following:

The operator of the building shall immediately notify the 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 North Aurora & Countryside Fire Protection District, and their officers, employees and agents from any liability with respect to such key lock boxes.

506.3 Key lock box availability

Add as additional requirements to this section:

The Chief of the North Aurora & Countryside Fire Protection District is authorized to make available key lock boxes to all owners or lessees of buildings or structures or their duly authorized agents.

506.4 Stock of key boxes

The North Aurora & Countryside Fire Protection District shall purchase such key lock boxes (of a type to be approved by the North Aurora & Countryside Fire Protection District Fire Chief) in reasonable quantities and provide them to users for cost plus a reasonable handling charge.

506.5 Tamper Switches

If the owner desires for the lock box to have a tamper switch tied into the fire alarm system, it shall be connected on the trouble side signaling alarm. Furthermore, the lock box will have a separate zone of its own and be labeled

“Lock Box” on the fire alarm enunciator panel. It is preferred to have it connected into the burglar alarm, if available.

506.6 Fire Department Procedure and Responsibility

506.6.1

Keys to individual businesses will not be carried by fire companies.

506.6.2

It shall be the responsibility of each fire company officer or senior personnel to insure the strictest security of such key. Personnel will ensure that all lock boxes are secured with appropriate keys in key box and lock box keys are secured in vehicle prior to leaving scene.

506.6.3

In the event that a key is lost, immediate notification will be made to the Fire Marshal’s office, who will in turn notify the affected business so that the appropriate action can be taken

506.6.4

A master lock box key shall be provided to the Fire Marshal’s office for inspection and testing purposes.

506.6.5

The Fire Marshal’s office shall comply with all provisions of this section.

SECTION 508 – FIRE PROTECTION WATER SUPPLIES

508.1 Required water supply

508.1.1 General

Add as additional requirements to this section:

All water distribution facilities including piping, fittings, hydrants, valves, devices, well pumps, and other needful appurtenances shall be subject to approval of the 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.

508.1.2 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 Code Official that inadequate water

supplies exist, the 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.

508.1.3 Rural water supply requirements (Dry Hydrants)

In any subdivision/development, where an adequate water distribution system is not provided, the 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.

508.3 Fire flow

Add as additional requirements to this section:

508.3.1 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.

508.4

Water supplies-Quantity – The following water supplies shall be available commensurate with hazards therein:

1.	Single family detached residential	1000 gpm
2.	Town/Row or cluster	1500 to 2000 gpm
3.	Apartment-type construction	3000 to 4000 gpm
4.	Industrial type development	3000 to 5000 gpm
5.	Research & development laboratories	3000 to 4000 gpm
6.	Business and commercial areas	3000 to 4000 gpm
7.	Mercantile centers	3000 to 6000 gpm
8.	Assembly and educational areas	3000 to 5000 gpm
9.	Healthcare and institutional centers	3000 to 6000 gpm

508.5 Fire hydrant systems

508.5.1 Where required

Delete this section and insert 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 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 Code Official shall increase or decrease hydrant spacing and appropriate supply mains as deemed necessary.

508.5.1.1 General

Additional fire hydrants shall be located within fifty (50) 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 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.

508.5.1.1.1

Fire hydrants shall be located along public streets so that no portion of the building will be over 300 feet from a fire hydrant. Where this is not possible, additional hydrants should be located on the premises accessible to motorized fire apparatus.

508.5.1.1.2

One hydrant shall be located at each intersection and intermediate hydrants in between so no hydrant is further than 300 feet apart.

508.5.1.1.3

Where streets or parking lots dead end, hydrants shall be placed along the access route.

508.5.1.1.4

At least two fire hydrants shall be located within 300 feet of the building.

508.5.1.1.5

Hydrants should be so located that:

(1) Hydrants will be located approximately 5 feet from all-weather roadways. If this cannot be done, the closest part of the hydrant shall be set back at least two feet from the curb line.

(3) Access to fire hydrants shall be by all weather roadways adequate in width, clearance and strength for fire fighting purposes. Such routes shall be maintained accessible during all seasons of the year. Legal provisions will be required for private roads to assure accessibility.

508.5.1.1.6

Fire hydrants shall be protected from damage by approved methods when located in areas subject to vehicular damage.

508.5.3

Delete point #1

508.5.3.1

Fire hydrant maintenance on private property shall be maintained in proper operating condition.

508.5.3.1.1

Periodic inspections shall be made by the property owner to ensure that the fire hydrant(s) is clear of obstructions such as trash, rocks, vegetation, snow, etc. The area cleared shall be of such a size to make identification of the hydrant simple and to allow hooking up of fire hoses and operation of the hydrant without delay.

508.5.3.1.2

Fire department personnel have the option of operating fire hydrants on private property to ensure proper operation and proper water flow.

508.5.3.1.3

Fire hydrants shall be painted fire engine red to prevent rust and ease identification.

508.5.3.1.4

Hydrant thread shall be kept clean and lubricated. Caps should be hand tightened.

508.5.3.1.5

During water flow tests if internal workings do not work, it is the responsibility of the property owner to correct the problem.

508.5.3.1.6

It is the responsibility of the property owner to bear the cost of all repairs and maintenance of fire hydrants on private property.

508.5.3.1.7

If maintenance is not completed, the Fire District may impose fines as outlined in this code. Furthermore, if it is deemed a threat to the property to have such

hydrant out of service, the Fire District may order repairs to hydrant and pass such costs on to the property owner.

508.5.7 Identification

Add as additional requirements to this section:

All fire hydrants, public or private, shall be marked with a hydrant flag that is approved by the Code Official as deemed necessary.

508.6 Hydrant Specifications

All newly installed fire hydrants and replacement hydrants shall conform to the following requirements depending on type of occupancy.

508.6.1 Hydrants in Commercial, Industrial, and Other Similar Areas

Hydrants shall have two (2) pumper nozzles. One (1) nozzle shall be a 4" Storz connection. The other nozzle connection shall be 4 ½" NST. The hydrant shall be painted fire engine red.

508.6.2 Hydrants in Residential Areas

Hydrants shall have one (1) pumper nozzle and two (2) 2 ½" NST outlets. The pumper nozzle shall be a 4" Storz connection. The hydrant shall be painted fire engine red.

508.6.3 Hydrants on private property

Any privately owned hydrant shall have a 4" Storz connection. Existing hydrants shall be converted to a 4" Storz connection by January 1, 2008. If a hydrant can not be converted, and needs to be replaced, such replacements shall conform to 508.6.1 or 508.6.2.

508.7 Dry hydrants

In any subdivision / development, where a water distribution system is not provided, the North Aurora & Countryside Fire Protection District may require the owner to modify storm water control devices, so as to provide a pond with a minimum depth of five (5) feet and to install a dry hydrant that conforms to the standard NFPA 1142 and with the approval of the Code Official with a suction pipe from the middle of the pond. The dry hydrant shall be installed on the right of way of a street proposed to be installed within the subdivision/development and shall meet the standards established by the North Aurora & Countryside Fire Protection District. It shall be unlawful to erect any structure in any subdivision / development prior to completion of any required water supply equipment as required by this Ordinance.

508.7.1

Where the configuration of lots, distance between buildings and lot lines or public utility easements, accessibility to building or fire suppression requirements dictate, the Code Official shall require additional hydrants as deemed necessary.

508.7.2

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

508.7.3

The precise location of and specifications for dry hydrant(s) shall be subject to the review and approval by the Code Official prior to the installation of the system.

508.7.4

The dry hydrant plan submitted for review may be subject to review by an outside engineer or code consultant. The submitted party will incur all associated costs.

508.7.5

It shall be unlawful for any person to utilize any device such as drafting pits, dry hydrants or other water supply appurtenances designed for fire fighting operations without the express permission of the North Aurora & Countryside Fire Protection District.

508.7.6

All dry hydrants shall be 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 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 all hydrants within a subdivision shall be the responsibility of the appropriate homeowner's association. In the absence of a homeowners association, each dry hydrant will be addressed on an individual basis.

508.7.7

The North Aurora & Countryside Fire Protection District may require the property owner or his agent to install "No Parking – Fire Hydrant", or other signs as needed.

B-105.1: Delete the exception

B-105.2: Delete the exception

508.5.9 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 Code Official.

SECTION 511 – PEDESTRIAN SECURITY GATES

511.1

Pedestrian security gates where installed must be approved by the Fire Marshal.

511.2

All such approved gates must be capable of being opened by the fire department with the equipment normally carried on their fire apparatus.

SECTION 512 – VEHICULAR SECURITY GATES

512.1

Vehicular security gates where installed must be approved by the code official.

512.2

Such approval will not be granted unless a minimum opening of 12 feet (for one direction of travel) is provided. If two travel lanes are to be enclosed by one gate, the minimum opening size must be 24 feet. In addition to the normal opening devices, a method for the fire department to obtain entry must be provided. This method must consist of one of the following:

- 1) Preferred method- A strobe light activation system. System uses high rate strobe flash to identify emergency vehicles. Gate would open automatically when activated. (Currently being used in traffic preemption).
- 2) A padlocked chain with chain links no larger than ¼ inch in diameter (manually operated gates) with fire department lock.
- 3) A key switch override installed at a convenient and conspicuous location with a lock box installed.

CHAPTER 6 – BUILDING SERVICES AND SYSTEMS

SECTION 609 – COMMERCIAL KITCHEN HOODS

Add as additional sections:

609.1.2 Existing kitchen hood fire suppression systems

Each existing 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 17, and UL 300 Standard. Every required automatic fire suppression system, when activated, shall transmit a fire alarm signal to a U.L. listed central station via an approved fire alarm system.

609.8 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 45. Thorough cleaning of ducts, hoods and fans shall require scraping, brushing and other positive cleaning methods.

609.8.1 Cleaning Schedule

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

705.3

Delete section and replace with the following:

Fire walls shall be constructed of non-combustible masonry block or other approved material by the code official.

CHAPTER 8 – INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS

804.1.1 Restricted Occupancies

Natural cut trees shall be prohibited in Group A, E, I-1, I-2, I-3, I-4, m, R-1, R-2 and R-4 occupancies.

Delete the following Exception in its entirety:

Exception: Trees located in areas protected by an approved automatic sprinkler system installed in accordance with Section 903.1.1 or 903.1.2 shall not be prohibited in Groups A, E, M R-1, and R-2.

CHAPTER 9 – FIRE PROTECTION SYSTEMS

SECTION 903 – FIRE PROTECTION SYSTEMS

903.1 Alternative protection

Alternative automatic fire extinguishing systems complying with Section 904 may be permitted in lieu of automatic sprinkler protection where recognized by the applicable standard and approved by the Code Official.

903.2 Where required

Delete this section and insert 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 must be installed in accordance with applicable NFPA standards, manufacturer's recommendations, UL listings, and good fire safety practices. Automatic sprinkler systems must be maintained in full operation condition at all times. Automatic sprinkler systems shall be provided in all new residential Use Groups including town homes/multi-family dwellings. All new town homes shall have automatic fire sprinklers installed throughout per NFPA 13R or 13D.

Exceptions:

Real estate sales and construction trailers utilized during the development of property when approved by the code official, agriculture storage buildings less than 8,000 square feet, one and two family dwellings.

Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with automatic fire alarm system and are separated from the remainder of the building by a wall with a fire-resistance rating of not less than 1 hour and a floor/ceiling assembly with a fire-resistance rating of not less than 2 hours.

903.2.1 Through 903.2.3.1 Where required

Delete these sections in their entirety

903.2.6 Through 903.2.12.3 Where required

Delete these sections in their entirety

903.3.7.1

Fire department connections shall be a 4" Storz.

903.3.7.2

Owners of sprinkler systems that have connections other than Storz connections will have until July 1, 2006 to switch over to a 4" Storz connection.

903.4.1

Delete this section and insert the following:

All automatic fire suppression systems required for occupancies in Use Groups A, B, E, F, H, I, M, S, R-1, R-2, and R-3, shall be supervised by directly connecting

to an U.L. listed central station utilizing NFPA 72 and their respective listing by an approved agency.

903.4.3 Floor control valves

Delete this section and insert the following:

In multi story buildings, approved floor control valves with water flow switches shall be provided for each floor. In large multi tenant buildings, approved control valves with water flow switches shall be provided for each tenant.

903.6 Remodels of existing buildings

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:

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. For the purpose of calculating percentages of reproduction cost, the alteration shall be construed as the total actual combined cost of all alterations made within any period of 30 months.

Exception:

One -and two - family dwellings.

Add as additional sections:

903.6.2 Increasing existing floor area over 25%

Fire protection as detailed in 903.2 shall be required for the entire building or structure for additions that increase the existing floor area of a building or structure by more than 25%.

Exception:

One -and two - family dwellings.

903.6.3 Increasing existing floor area by 25% or less

Fire protection for additions that increase the existing floor area of a building or structure by 25% or less shall be as follows:

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.

903.6.4 A-2 Use Group requirements

An approved automatic sprinkler system shall be provided in all A-2 Use Group, (night clubs, bars, restaurants, and dance halls) with an occupancy load of 100 persons or more, no later than January 1, 2008

Section 904 – Alternative automatic fire-extinguishing systems

904.3.4.1 Kitchen hood suppression systems

Add as an additional section:

Kitchen hood suppression systems shall be connected to the building fire alarm system.

SECTION 905- STANDPIPE SYSTEMS

905.3.1 Building height

Delete this section and insert the following:

Class III standpipe systems shall be installed throughout all buildings or structures more than two (2) stories in height.

Exceptions:

1. Class I stand pipes are allowed in buildings equipped with an automatic sprinkler system in accordance with Section 903.1.1 or 903.1.2.
2. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet above the lowest level of the fire department vehicle access. Class I manual dry stand pipes are allowed in open parking garages subject to freezing.
3. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.

Add as additional sections:

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 while flowing the minimum quantities of water specified in Section 905.11.1 and 905.11.2. 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 based 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 50 feet above the lowest level of fire department vehicle access.

Exception: One – and two- family dwellings

905.12.1 Riser sizing

The riser size shall be based on the hydraulic calculations for a minimum flow of 500 gallons per minute (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 250gpm (945 L/min.).
4. Risers that are sized in accordance with the pipe schedule requirements of NFPA14 listed in Chapter 35 are not subject to this requirement.

905.12.2 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 500gpm (1892 L/min.) plus the sprinkler demand for first riser, plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1, 250gpm (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.).

905.12.3

Any building having multiple risers shall have a diagram(s) next to the riser area showing the building and what sections are protected by which risers.

905.4.3

If all areas cannot be reached with 150 feet of attach hose from the required standpipes, additional standpipes shall be added so this provision can be met.

SECTION 906 – PORTABLE FIRE EXTINGUISHERS

906.1 Where required

Delete this section and insert the following:

Portable fire extinguishers shall be installed in the following locations:

1. In Group A, B, E, F, H, I, M, R-1, R-2, AND S occupancies.
2. Within 30 feet of commercial cooking equipment.
3. In areas where flammable or combustible liquids are stored, used or dispensed.
4. On each floor of buildings or structures under construction, except Group R-3 occupancies, in accordance with Section 1414.1.
5. Where required by the sections indicated in Table 906.1
6. Special hazard areas, including but not limited to laboratories, computer rooms and generator rooms where required by the Code Official.

Note: The minimum size ABC Dry Chemical fire extinguisher permitted shall be 10 pound (4A:40-B:C) unless approved otherwise by the Code Official. All fire extinguishers shall have location signs and current services tags

SECTION 907-FIRE ALARM AND DETECTION SYSTEMS

907.1.2 Equipment

Add the following language to the existing section:

New fire alarm control panels shall be addressable unless otherwise approved by the 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.

907.1.2.1

In residential uses, each living unit shall be provided with a white strobe indicating which detection device is in the alarm mode. This device shall be identifiable in accessible areas outside the living unit.

907.1.2.2

Enunciator panels shall be provided where more than one zone is provided. The panel shall be visible from the building exterior or other approved location.

907.1.2.3

Each tenant space shall be separately zoned. When tenant spaces are protected by one common sprinkler system, smoke detectors will be installed to provide for zoning.

907.1.2.4

Multiple tenant spaces with a common alarm panel will have a white strobe over the unit's front door to show activation in a particular unit.

907.1.2.5

A red strobe will be required over the door to show the alarm panel location.

907.1.3

The fire department shall have access at any time of the day or night to the fire alarm control panel without entering an individual living (dwelling) unit.

907.2 Where required – new buildings and structures

Delete this section and insert the following:

An approved manual, automatic, manual and automatic fire alarm system shall be provided in new or existing 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. 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 accordance with the provisions of this Code and DFPA 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 a boiler room where, during normal operation, products of combustion are present in sufficient quantity to actuate a smoke detector. Newly constructed buildings or structures shall be provided with fire protection as outlined below.

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

907.2.1 Group A

Delete this section and insert the following:

New buildings or structures

An automatic and manual fire alarm shall be installed in accordance with NFPA 72 in Group A occupancies.

907.2.2 Group B

Delete this section and insert the following:

An automatic and manual fire alarm system shall be installed in accordance with NFPA 72 in Group B occupancies.

907.2.3 Group E

Delete this section and insert the following:

A manual and automatic fire alarm system shall be installed in Group E occupancies.

907.2.4 Group F

Delete this section and insert the following:

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

9017.2.6 Group I

Delete this section and insert the following:

A manual fire alarm fire system and automatic fire detection system shall be installed in Group I occupancies. An electrically supervised, automatic smoke detection system shall be provided in waiting areas that are open to corridors.

907.2.6.2 Group I-3 Occupancies

Delete this section and insert the following:

All required fire protective signaling systems shall transmit alarm, supervisory and trouble signals to the UL listed central station in accordance with NFPA 72 by one of the methods listed in 907.15 of this code.

Exceptions:

1. Smoke detectors in buildings of Group R-3 and R-4.
2. Single-station smoke detectors as required by 907.2.9.
3. Smoke detectors in building group 1-3.
4. Smoke detectors in patient sleeping areas of Group 1-2

907.2.7 Groups M and S

Delete this section and insert the following:

A manual and automatic fire alarm system shall be installed in accordance with NFPA 72 in Group M and S occupancies.

907.2.8 Group R-1

Delete this section and insert the following:

A manual fire alarm system and an automatic fire detection system shall be installed in Group R-1 occupancies.

Exceptions:

1. A manual fire alarm system is not required in buildings over two stories in height where all individual guestrooms and contiguous attic and crawl spaces are separated by at least one (1) hour fire partitions and each individual guestroom has an exit directly to a public way, exit court or yard.
2. An automatic fire detection system is not required in buildings that do not have interior corridors serving guestrooms and where guestrooms have a means of egress door opening directly to an exterior exit access that leads directly to the exits.
3. A separate fire alarm detection system is not required in buildings that are equipped throughout with an approved supervised automatic sprinkler system and a manual fire alarm system.

907.2.9 Group R-2

Delete this section and insert the following:

A manual and an automatic fire detection system shall be installed and maintained in common areas in all occupancies in use group R-2 such as corridors, hallways, stairwells, boiler or furnace rooms, laundry rooms, community rooms, meeting rooms, offices, attics and all other similar common areas within buildings. The automatic fire detection system must include occupant notification.

907.2.10 Single and multiple station smoke alarms

Add the following wording after (72):

”and per the current State of Illinois Smoke Detector Act”.

907.2.10.2 Power source

Delete this section and insert the following:

In new construction, required smoke alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over-current protection.

Exceptions:

1. Smoke alarms are not required to be equipped with battery backup in Group R-1 where they are connected to an emergency electrical system.
2. Group R-3 smoke alarms are to be 120 volt with a battery backup.

Add as additional sections:

907.3.1.9 Single and multiple station smoke alarms

Listed single-and multiple-station smoke alarms shall be installed in accordance with the provisions of this Code and the household fire warning equipment provisions of NFPA 72.

907.3.1.10 Newly constructed or reconstructed

All single-family and two family residences which are newly constructed shall have installed therein hard-wired smoke detectors with battery backup, as provided in this subsection.

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

3. In each story within a dwelling unit, including basements and cellars but not including crawl spaces and uninhabitable attic.

4. In dwellings or dwelling units with split-levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

907.3.1.10.1 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 to a 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.

907.3.1.11 Existing

Every single-family residence shall have at least one smoke detector installed on every story, including basements, but not including unoccupied attics. 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.

907.3.1.12 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 single-family residence or two-family residence, in lieu of battery-powered smoke detectors or hard-wired smoke detectors, provided that such low-voltage standard central smoke detection system meets with the requirements for such a system set forth in the Ordinance codified in this Chapter or is otherwise approved by the Code Official.

907.4 Manual fire alarm boxes

Delete this section and insert the following:

Manual fire alarm boxes shall be installed in each Use Group described in this Code; they shall be installed in accordance with Sections 907.4.1 and 907.4.5

907.4.1 Location

Delete the exception in its entirety.

907.9.1.2 Separate zones

Add as additional section:

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

907.10.1 Visible alarms

Delete this section and insert the following:

Visible alarm notification appliances shall be provided in accordance with sections 907.10.1.1 and 907.10.1.3

907.10.1.3

Change “6 to 25” to “1 to 25”.

907.10.2 Audio alarms

Delete this section and insert the following:

Audible alarm notification appliances shall be provided and sound a distinctive sound that is not to be used for any purpose other than that of a fire alarm. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5dBA above the maximum sound level having duration of at least 60 seconds, whichever is greater, in every space within the building. The minimum sound pressure level for audible appliances shall be 120 dBA at the maximum hearing distance from the audible appliance. Where the average ambient noise is greater than 105 dBA, visible alarm notification appliances shall be provided in accordance with NFPA 72 and audio alarm appliances shall not be required.

Exception: Visible alarm notification appliances shall be allowed in lieu of audible alarm notification appliances in critical care areas of Group I-2 occupancies.

907.12 Duct smoke detectors

Delete this section and insert the following:

Duct smoke detectors shall be connected to the building’s fire alarm control panel. Activation of a duct smoke detector shall initiate a full fire signal.

Add the following sections:

907.20.2.1

All fire alarm/protection systems shall be inspected and tested by a qualified company and personnel. Records of these inspections shall be kept on premises and available for fire personnel upon request.

907.20.5.1

Vacant or unoccupied buildings or portions thereof shall maintain all required sprinkler, standpipe and fire alarm systems and all component parts in a workable condition at all times. The system(s) shall be tested in the presence of the Code Official if the adequacy of the system is felt to be in question.

907.21 False fire alarms

No person shall deliberately or maliciously turn on 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 other than emergency, maintenance, drills, or prescribed testing. Penalties for false fire alarms are addressed in North Aurora Fire Protection District ordinance 97-4.

907.22

It shall be unlawful for any person, firm or corporation to lease or own an alarm system, or be in control of any premises, including single-family and multi-family dwellings and business places wherein an alarm system is operated or maintained without first having obtained an alarm user registration from the North Aurora and Countryside Fire Protection District, except no registration shall be required for alarm system contained in or on vehicles or for alarm users registered under an agency as provided herein.

907.22.1

Premises which utilize alarm systems with multiple devices may be issued more than one alarm user registration under the following circumstances. Where heat, smoke or other fire alerting devices are located in adjacent businesses or housing units which transmit signals into a shared control panel located on the combined premises, a single registration may be issued to the property owner or his agent or to a property owner association as long as such person or organization has legal control and accountability for the entire alarm system and information required under the “application for registration” is completed for each business entity in which a part of the alarm system is contained.

907.22.2

An application for an alarm user registration shall be filed with the Fire Prevention Bureau and shall contain the following information:

1. Name and address of the applicant.
2. Name and address of the premises where the alarm system is located.
3. General description of the alarm system which classifies it as burglary, safe, hold-up, fire, medical or other and the presence of silent alarms and any audible or visual alerting signals on the premises. Any alarm system classified as other shall include a brief description as to category type.
4. Any alarm system designed to transmit a signal to a monitoring service or central answering station shall include the name and telephone number of said service.
5. A statement listing the names, addresses and telephone numbers of at least three (3) persons responsible for the premises where the alarm system is located and who should be contacted to deactivate the alarm system and respond to the premises.

907.22.3

A \$25 application fee shall be paid with application. The registration shall be renewed annually.

907.23 Out of Service Systems

When a fire alarm/protection system must be taken out of service for maintenance, repairs, etc., the system shall not be out of service for a period of more than eight (8) hours. When a system is out of service, a responsible person shall be assigned to contact the 911 center in case of fire and to turn on control valves of fire suppression systems, if available.

1003.2.11

Delete section and replace with following:

Emergency lighting shall be provided in the following occupancies regardless of square footage; Use Groups A, B, E, H, I, M, and all common area of R-1 and R-2. Additional emergency lighting needs for occupancies of Use Groups F, S, and U shall be determined by the Code Official based on hours of operation, natural lighting available, types of material within the structure and hazard potential within the structure.

CHAPTER 33 - EXPLOSIVES AND FIREWORKS

SECTION 3302 – DEFINITIONS

Add as additional section:

3302.2 – GENERAL

The following words and terms shall, for the purpose of this Chapter and as stated elsewhere in this Code, have the meanings show herein.

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 devise 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 hundredth 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 3305 MANUFACTURING, ASSEMBLY, AND TESTING OF EXPLOSIVES, EXPLOSIVE MATERIALS, AND FIREWORKS.

Delete this section and insert the following:

The storage of explosive materials is prohibited within the North Aurora & Countryside Fire Protection District except by special permit issued by the Chief or his designee of the North Aurora & Countryside Fire Protection District.

3308.11

Delete this section

Add as an additional section:

SECTION 3309-VIOLATIONS

Section 3309.1 General

A person shall not possess, manufacture, store, offer or expose for sale, sell at retail or discharge any fireworks within the North Aurora & Countryside Fire Protection District.

Exception: Where approved for the supervised display of fireworks in accordance with Section 3308 of this Code.

Section 3309.1 Bond for display

The permit holder shall furnish a bond in an amount of \$1,000,000 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 of \$1, 000, 000 and naming the Village of North Aurora and the North Aurora & Countryside Fire Protection District as additional insured and execute an agreement holding the North Aurora & Countryside Fire Protection District and Village of North Aurora harmless from any damage to persons or property caused by the permitted display.

Section 3309.3 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).

SECTION 3310 – ESTABLISHMENT OF MOTOR VEHICLE ROUTES FOR VEHICLES TRANSPORTING EXPLOSIVES AND BLASTING AGENTS.

3310.1

The routes followed by vehicles transporting explosives and blasting agents shall not pass through congested areas or heavy traffic, except designated by the Code Official.

3310.2

Vehicle Routing only on Interstate 88 (East-West Tollroad), Ill. Rt. 56, Ill. Rt. 31, Ill. Rt. 25, Randall Road and Orchard Road.

CHAPTER 38 - LIQUEFIED PETOLEUM GASES

SECTION 3804 – LOCATION OF CONTAINERS

3804.2 Maximum capacity within established limits

Delete this section and insert the following:

Where storage containers with aggregate water capacity of more than 4,000 gallons are located within the North Aurora & Countryside Fire Protection District, the sitting provisions of Table 3804.3 shall be modified in accordance with the fire safety analysis indicated in NFPA 58.

ARTICLE 5 AMMENDMENTS TO THE 2000 INTERNATIONAL BUILDING
CODE

403.1

Change 75 feet to four (4) stories or greater.

705.3

Delete section and replace with the following:

Fire walls shall be constructed of non-combustible masonry block or other approved material by the Code Official

2303.1.2.1

Where there is usable space above and below a floor/ceiling assembly made of prefab wood I-joists, the assembly shall be protected from fire impingement by one of the following:

1. Minimum of ½ : drywall and draftstopped per 1995 CABO 502.10
2. Approved sprinkler system

Section 3002 – Hoist way enclosures

Delete 3002.4 and insert the following:

3002.4

Elevator service shall be provided in all buildings and structures two stories or greater in height, measured from the lowest level of fire department vehicle access.

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

3002.4.1 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 doorframe. The inside hand rail shall be set at the maximum thirty six (36) inch height allowed under ADA standards to better accommodate the stretcher. The cab size is to be

minimum a 5'x7' platform and minimum 2500 lb capacity with a 42" side slide door.

ARTICLE 6 MODIFICATIONS

The Code Official of the Bureau of Fire Prevention or designee shall have the power to modify any of the provisions of this Ordinance upon application in writing by the owner or lessee, or his duly authorized agent, when there are practical difficulties in carrying out the strict letter of this Ordinance, provided that the spirit of the Ordinance shall be observed, public safety secured, and substantial justice one. The particulars of such modifications when granted and the approval of the Code Official of the Bureau shall be in writing and kept on file in the Office of the Bureau of Fire Prevention, and a signed copy shall be furnished the applicant.

ARTICLE 7 – DEVIATIONS FROM ORDINANCE

From time to time situations may arise that are not covered within the provisions of this ordinance. For the sole purpose of providing public safety the Code Official may require that additional orders be carried out. When this occurs, it will be the responsibility of the Code Official to provide a letter to those affected outlining the following:

1. Address of building affected.
2. Additional requirements to be met.
3. Reasons for additional requirements and how it will affect public safety.
4. The right to appeal.
5. The expected completion of additional requirements, if not appealed.

A copy of this letter will be kept on file in the offices of the Bureau of Fire Prevention. All appeals will occur as outlined in this ordinance.

ARTICLE 8 APPEALS

Whenever the Code Official shall disapprove an application, or refuse to grant a permit, or when it is claimed that the provisions of the Ordinance do not apply, or that the true intent and meaning of the Ordinance have been misconstrued or wrongly interpreted, the applicant or person affected may appeal from the decision of the Code Official to the Board of Trustees of the North Aurora and North Aurora & Countryside Fire Protection District by written notice filed in the office of the Secretary of said Board within 30 days from the date of the decision being appealed. The said Board shall call a hearing on said appeal within 20 days of said notice of appeal filing, and shall render a decision in writing 10 days after completing such a hearing. Nothing herein shall restrict the Code Official from seeking immediate enforcement or the regulations of this Ordinance in court where the hazard involved requires such action.

ARTICLE 9 PENALTIES

Any person, firm or corporation who violates, disobeys, omits, neglects or refuses to comply with, or who resists the enforcement of any of the provisions of this Ordinance including the codes adopted herein by reference, or who refuses to remedy a violation or same, shall be fined not less than \$50 nor more than \$500 for each offense; and each seven days that a violation continues shall constitute a separate offense. The application of a penalty shall not be held to waive legal action to enforce removal of the prohibited conditions.

ARTICLE 10 CONFLICTING ORDINANCES: PARTIAL INVALIDITY

All former ordinances or parts thereof conflicting or inconsistent with the provisions of this Ordinance on the codes adopted herein by reference are hereby repealed. Should a court of competent jurisdiction hold that any part of this Ordinance or any part of the codes adopted herein by reference, is invalid, such holding shall not invalidate the remainder.