

Revisions With Sprinklers Reduced to 5,000s.f.

Ordinance No. 166

**AN ORDINANCE OF THE WOODSTOCK FIRE/RESCUE DISTRICT REVISING
FIRE PREVENTION CODE REGULATIONS
IN THE CITY OF WOODSTOCK, McHENRY COUNTY, ILLINOIS,
AND ADOPTING THE 2006 EDITION OF THE *INTERNATIONAL FIRE CODE***

BE IT ORDAINED by the Board of Trustees of the Woodstock Fire/Rescue District, McHenry County, Illinois, as follows:

SECTION 1. That the following sections of the *International Fire Code, 2006 Edition* are hereby revised as follows:

General - Section 101.1 Title.

Insert (second line): "Woodstock Fire/Rescue District Fire Prevention Bureau, McHenry County, Illinois"

Violations - Section 109.3 Violation penalties.

Insert: Offense "misdemeanor"

Insert: Amount "\$500.00"

Delete: "...or by imprisonment not exceeding (NUMBER OF DAYS), or both such fine and imprisonment."

Stop Work Order - Section 111.4 Failure to comply.

Insert: "...\$25.00 or more than \$500.00 dollars."

Definitions - Section 502.1 Definitions.

Fire Lane: Insert: "...other than fire apparatus. Fire lanes shall be constructed of an asphalt or concrete surface capable of supporting a vehicle weight of 75,000 pounds and shall be of a design approved by the City Engineer."

Fire Apparatus Access Roads - Section 503.2.3 Surface.

Insert: "...driving capabilities. Fire apparatus access roads shall be constructed of an asphalt or concrete surface capable of supporting a vehicle weight of 75,000 pounds and shall be of a design approved by the City Engineer."

Key Boxes - Section 506.1 Where required.

Delete: "...in an accessible location. The key box shall be of an approved type and shall contain keys to gain access as required by the code official.

Insert: "...in an accessible location. The key box shall be purchased from the Woodstock Fire/Rescue District and shall be installed in a location approved by the fire district. Building master and fire alarm system access keys shall be provided as requested by the fire department."

Fire Department Access To Equipment - Section 510.1 Identification and Lighting.

Insert: "510.1 Identification and Lighting.

Delete: Current verbiage.

Insert: "All doors providing access to fire sprinkler riser control valves rooms and the main fire alarm control panel room shall be labeled "Fire Sprinkler Controls" and/or "Fire Alarm Controls" as appropriate. Illumination shall be provided within all fire sprinkler and fire alarm control rooms, and in the immediate vicinity of all equipment not provided within a dedicated room, in accordance with Section 1006.1."

Automatic Sprinkler Systems - Section 903.2.1.1 Group A-1.

Subsection 1: Delete: Current Section verbiage.

Insert: "Where a single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Automatic Sprinkler Systems - Section 903.2.1.2 Group A-2.

Subsection 1: Delete: Current Section verbiage.

Insert: "Where a single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Automatic Sprinkler Systems - Section 903.2.1.3 Group A-3.

Subsection 1: Delete: Current Section verbiage.

Insert: "Where a single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Automatic Sprinkler Systems - Section 903.2.1.4 Group A-4.

Subsection 1: Delete: Current Section verbiage.

Insert: "Where a single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Automatic Sprinkler Systems - Section 903.2.2 Group E.

Subsection 1: Delete: Current Section verbiage.

Insert: "Where a single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Delete: Exception

Automatic Sprinkler Systems - Section 903.2.3 Group F-1 and F-2.

Insert: "903.2.3 Groups F-1 and F-2"

Insert: "...a Group F-1 or F-2..."

Item 1. Revise to read: "Where a Group F-1 or F-2 single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Item 2. Revise to read: "Where a Group F-1 or F-2 fire area is located more than two stories above grade plane."

Item 3. Delete.

Insert: "Exception: One-story, Group F-2 buildings meeting the requirements of Section 507.2."

Automatic Sprinkler Systems - Section 903.2.6 Group B or M.

Insert: "903.2.6 Groups B or M"

Insert: "a Group B or M..."

Item 1. Revise to read: "Where a Group B or M single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet."

Item 2. Revise to read: "Where a Group B or M fire area is located more than two stories above grade plane."

Item 3. Delete.

Automatic Sprinkler Systems - Section 903.2.8 Group S-1 and S-2.

Insert: "903.2.3 Groups S-1 and S-2"

Insert: "...a Group S-1 or S-2..."

Item 1. Revise to read: "Where a Group S-1 or S-2 single fire area, aggregate of all fire areas, or where the aggregate area of a building or structure separated by a fire wall or fire walls, exceeds 5,000 square feet including any mezzanines."

Item 2. Revise to read: “Where a Group S-1 or S-2 fire area is located more than two stories above grade plane.”

Item 3. Delete.

Insert: “Exception: One-story, Group S-2 buildings meeting the requirements of Section 507.2.”

Automatic Sprinkler Systems – Section 903.2.8.1 Repair garages.

Item 1. Delete “...10,000...”

Insert “...5,000...”

Item 2. Delete “...12,000...”

Insert “...5,000...”

Automatic Sprinkler Systems - Section 903.2.9 Parking Garages.

Rename Section Title: Delete: “Group S-2”

Insert: “Parking Garages”

Automatic Sprinkler Systems – Section 903.2.10.3 Buildings 50 feet or more in height.

Rename Section Title: Delete: “55 feet”

Insert: “50 feet”

Delete: “...55 feet...”

Insert: “...50 feet...”

Automatic Sprinkler Systems - Section 903.3.1.1.1 Exempt locations.

Delete: Exception 4.

Automatic Sprinkler Systems – 903.3.5 Water supplies.

Insert New Section: “903.3.5.3 Hydraulic design safety factor. All new sprinkler system designs shall include a safety factor of 5 pounds above the required operating pressure of any calculated system.”

Automatic Sprinkler Systems - Section 903.4.1 Signals.

Delete: “...central station...or proprietary supervising station...”

Delete: “...or, when approved by the fire code official, shall sound an audible signal at a constantly attended location.”

Insert: "...remote supervising station at the Woodstock Police Department, via reverse polarity or tones transmitter, until such time as the City of Woodstock's radio network is in operation, in accordance with NFPA 72."

Insert: "All existing fire alarms systems connected to the supervising station at the Woodstock Police Department as of August 1, 2009, shall convert to the City of Woodstock's radio network on or before December 1, 2009."

Automatic Sprinkler Systems - Section 903.4.2 Alarms.

Delete: Current Section verbiage.

Insert: "Approved audible and visual alarm appliances in the form of an approved 10-inch exterior bell and a white/clear, 75 cd, weatherproof strobe light shall be provided on the exterior of the building above the fire department sprinkler or standpipe connection; and, an approved 6-inch interior bell and a white 75 cd strobe light shall be provided within the building immediately outside of the sprinkler riser room when one is present or in a location approved by the fire department. These appliances shall only activate with the activation of a water-flow alarm device which shall be activated within 90-seconds by water flow equivalent to the flow of a single sprinkler of the smallest orifice size in the system . Where a fire alarm system is installed, actuation of the automatic fire sprinkler system shall actuate the building fire alarm system."

Automatic Sprinkler Systems - Section 903.4.3 Floor control valves.

Delete: Current Section verbiage.

Insert: "Approved water-flow alarm devices and approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor of the building."

Alternative Automatic Fire-Extinguishing Systems - Section 904.3.5 Monitoring

Insert: "...The building fire alarm system shall be supervised as required in 903.4.1 as amended above. When a fire alarm system is not provided within the building, any provided required alternative fire extinguishing system shall be monitored as required in 903.4.1 as amended above."

Standpipe Systems - Section 905.3.1 Building height.

Delete: "...30 feet..." two locations

Insert: "...18 feet..." two locations

Standpipe Systems - Section 905.4 Location of Class I standpipe hose connection.

Delete: Current Section verbiage.

Insert: "Class I standpipe hose connections, consisting of a 2 ½ inch valve and connection with a 2 ½ inch by 1 ½ inch reducing cap, shall be provided in all of the following locations:"

Portable Fire Extinguishers - Section 906.1 Where required.

Delete: "...installed in the following locations."

Insert: "...installed in all building and structures and the following locations."

Delete: Exception.

Fire Alarm and Detection Systems – Section 907.1.3 Secondary power supply. (New Section)

Insert: "907.1.3. Secondary power supply. All fire alarm control equipment shall be provided with 60-hours of secondary power supply. An additional 20% safety factor shall be added to the total secondary power requirements for each fire alarm system."

Fire Alarm and Detection Systems – Section 907.1.4 Duct smoke detection. (New Section)

Insert: "907.1.4. Duct smoke detection. Duct smoke detection provided or required by this, or other applicable codes, shall receive their power directly from an Initiating Device Circuit or Signal Line Circuit from the building fire alarm control unit when one is provided.

Duct smoke detectors shall be installed in accordance with the manufacturer's instructions and shall be located within the building space in ambient conditions consistent with the listing of the duct detector.

Duct detectors shall be provided with remote alarm indicators and test switches located as directed by the City of Woodstock."

Fire Alarm and Detection Systems – Section 907.1.5 Automatic fire alarm system. (New Section)

Insert: "907.1.5 Where an automatic fire alarm system is required, detection shall be provided in accordance with NFPA 72 throughout all occupiable spaces within the building, and those areas required by other codes or standards."

Fire Alarm and Detection Systems - Sections 907.2.1 Group A, 907.2.2 Group B, and 907.2.4 Group F.

Delete: Exception.

Fire Alarm and Detection Systems – Section 907.2.3 Group E

Delete: Exceptions 2 and 3.

Fire Alarm and Detection Systems – 907.2.7 Group M.

Delete: Exception 2.

Fire Alarm and Detection Systems – Section 907.2.8.1 Group R-1 Manual fire alarm system.

Delete: Exception 2.

Fire Alarm and Detection Systems – Section 907.2.9 Group R-2

Item 1. Delete: "...three ..."

Insert: "...two ..."

Delete Item 3.

Fire Alarm and Detection Systems - Section 907.2.12 High-rise buildings.

Delete: "...75 feet..."

Insert: "...50 feet..."

Fire Alarm and Detection Systems - Section 907.9 Zones

Delete: Current section verbiage but maintain the exception.

Insert: "For conventional (zone) fire alarm control panels, each floor of a building shall be zoned separately and each type of device shall be zoned separately on each floor. A zone shall not exceed 22,500 square feet. The length of any zone shall not exceed 300-feet in any direction.

For addressable fire alarm control units, point identification shall be provided for each initiating device shall be addressed separately except that like supervisory devices, with the exception of fire pump monitoring, may be on a single identification address if located within the same room or space subject to the approval of the fire code official.

Each duct smoke detector shall be installed on its own zone or address."

Fire Alarm and Detection Systems - Section 907.9.2 Fire alarm annunciators (New Section)

Delete: Current section verbiage.

Insert: "907.9.2 When the main fire alarm control equipment is not located at the entrance to the building used by the fire district, a remote annunciator, compatible with the fire alarm control unit, shall be provided in a location approved by the fire district."

Fire alarm annunciators shall have the capability, when activated by the fire district with the use of a key, to provide the following functions:

1. Alarm acknowledgment.
2. Alarm silence.
3. Alarm reset."

Fire Alarm and Detection Systems - Section 907.9.3 Annunciation at multi-tenant buildings. (New Section)

Insert: “907.9.3 Annunciation from multiple tenant building shall be provided when a fire alarm control unit supervises signals from multiple tenant spaces or dwelling unit buildings, each with their own individual entrance, in a one-story building, the following requirements shall apply:

1. Each tenant space, or dwelling unit entrance, shall be provided with an exterior mounted, weatherproof, clear or nominal white lens, 75 cd strobe light over the main entrance to the space.
2. Tenant space, or dwelling unit common area, initiating devices and notification appliances shall be zoned separately by the fire alarm control unit.
3. In buildings provided with an automatic sprinkler system, waterflow activation in a specific tenant space, or dwelling unit area, shall report as a waterflow activation from the space.
Exception: Area detection throughout the tenant space may be substituted for Item 3 if the area detection reports an activation from the space. The exception does not apply to dwelling unit buildings.
4. Upon activation of an initiating device, with the exception of a waterflow device, within a tenant space or dwelling unit common area, the notification appliances within the space, and the exterior red lens shall activate for the space.
5. Upon the activation of a waterflow device in any tenant space, dwelling unit area, or the main waterflow device if provided, all interior and exterior notification appliances shall activate.

Fire Alarm and Detection Systems - Section 907.15 Monitoring

Delete: Current text.

Insert: “Where a fire alarm system is required by this chapter, the system shall be monitored in accordance with 903.4.1 as amended.”

Fire Department Connections - Section 912.7 Hose threads.

Insert: “All required fire department connections shall be provided with two- 2 ½ inch connections with NST threads.”

Fire Department Connections – Section 912.8 Fire hydrant location.

Insert: “A fire hydrant, on a 6-inch (minimum size) distribution water main served by the municipal water system, shall be located within 100 feet of the fire department connection in a location approved by the Woodstock Fire and Rescue District.”

Doors, Gates and Turnstiles - Section 1008.1.8.3 Locks and latches.

Insert: Item 2, 2.4: “The building shall be equipped throughout with an automatic fire sprinkler system in accordance with Section 903.3.1.1.”

Vertical Exit Enclosures – 1020.1.7 Smokeproof enclosures.

Delete: “...75 feet...”

Insert: “...50 feet...”

Chapter 45 Reference Standards.

The following referenced standards are hereby amended by using the edition indicated:

NFPA 10:	2007
NFPA 11:	2005
NFPA 11A:	1999
NFPA 12:	2008
NFPA 12A:	2004
NFPA 13:	2007
NFPA 13D:	2007
NFPA 13R:	2007
NFPA 14:	2007
NFPA 15:	2007
NFPA 16:	2007
NFPA 17:	2002
NFPA 17A:	2002
NFPA 20:	2007
NFPA 22:	2008
NFPA 24:	2007
NFPA 25:	2008
NFPA 30:	2008
NFPA 30A:	2008
NFPA 30B:	2007
NFPA 31:	2006
NFPA 32:	2007
NFPA 33:	2007
NFPA 34:	2007
NFPA 35:	2005
NFPA 40:	2007
NFPA 51:	2007
NFPA 51A:	2006
NFPA 52:	2006
NFPA 57:	2002
NFPA 58:	2008
NFPA 59A:	2006
NFPA 61:	2008
NFPA 69:	2008
NFPA 72:	2007

NFPA 80:	2007
NFPA 85:	2007
NFPA 86:	2007
NFPA 92B:	2005
NFPA 99:	2005
NFPA 101:	2006
NFPA 110:	2005
NFPA 111:	2005
NFPA 120:	2004
NFPA 160:	2006
NFPA 211:	2006
NFPA 230:	2003
NFPA 241:	2004
NFPA 260:	2003
NFPA 261:	2003
NFPA 265:	2007
NFPA 286:	2006
NFPA 303:	2006
NFPA 385:	2007
NFPA 407:	2007
NFPA 409:	2004
NFPA 430:	2004
NFPA 484:	2006
NFPA 490:	2002
NFPA 495:	2006
NFPA 498:	2006
NFPA 505:	2006
NFPA 654:	2006
NFPA 655:	2007
NFPA 664:	2007
NFPA 701:	2004
NFPA 703:	2006
NFPA 704:	2007
NFPA 750:	2006
NFPA 1122:	2008
NFPA 1123:	2006
NFPA 1124:	2006
NFPA 1125:	2007
NFPA 1126:	2006
NFPA 1127:	2008
NFPA 2001:	2008

Appendix B Fire-Flow Requirements for Buildings.

Appendix B shall be considered mandatory requirements.

Appendix C Fire Hydrant Locations and Distribution

Appendix C shall be considered mandatory requirements.

Section Three. Nothing in this ordinance or in the Fire Prevention Code hereby adopted shall be construed to affect any suit or proceeding pending in court, or any rights acquired or existing, under any act or ordinance hereby repealed as cited in Section Two of this Ordinance; nor shall any just or legal right or remedy of character be lost, impaired or affected by this Ordinance.

Section Four. This ordinance shall be in full force and effect from and after its passage and approval as provided by law.

PASSED and APPROVED this 23rd day of June, 2009.

WOODSTOCK FIRE/RESCUE DISTRICT

By: Robert A. Kristensen
Robert A. Kristensen
President
Board of Trustees

ATTEST:

BY: Kenneth Marunde
Kenneth Marunde
Secretary
Board of Trustees

AYES: 4
NAYS: 0
ABSENT: 1