



Significant Changes between the 2006 and 2012 Codes as well as the City of Prescott Adopted Amendments

Fire Prevention's goal through this 6 month process has been to:

- *Simplify our amendments*
- *Make our amendments more user and customer friendly with regard to understanding and life safety specific information and regulations.*
- *Clean up deficiencies and ambiguities in the old document by way of removing sections that were no longer needed due to changes in the new Code*
- *Add language specifically applicable to the community we live in*
- *Only recommend amendments unique to our community while attempting to standardize requirements, as much as possible, with neighboring jurisdictions that will make it easier for the general public and the building trades to work in this area, without compromising life safety.*
- *Come up with a product that would be understandable, enforceable, and life safety oriented while taking into consideration our customers' needs*

The attached document depicts what code sections have been amended, showing the additions or changes in red and existing language struck through.

This currently is the final draft and is subject to change at the discretion of the Fire Board of Appeals or the Fire Department, prior to submission for approval.

Section Specific Recommended Amendments to the 2012 International Fire Code

Chapter 1- Scope and Administration

- No significant changes to previous amendments recommended
- New amendment recommendation to include adopting all applicable reference codes and standards in Chapter 80 of the IFC.
- Recommendation to adopt a bond schedule for violation penalties to be consistent with the City of Prescott Police Department.
- Recommendation to modify the existing Fee Schedule to make it more beneficial to our customers and the City.

Chapter 2- Definitions

- Recommendation to add a new definition; "Sky Lantern". Sky Lanterns have gained popularity, and demonstrated to be problematic.

Chapter 3- General Requirements

- Recommendation to prohibit the aforementioned "Sky Lantern"(s).

Chapter 4- Emergency Planning and Preparedness

- No recommended amendments

Chapter 5- Fire Service Features

- New amendments to reflect existing Fire Department amendments with regard to consistency with other IFC chapter, definitive terminology, and to accommodate the local equipment that will be used in emergency responses.
 - Note- this includes items such as turning radius specific to the apparatus that the fire department currently responds with as well as road and driveway grades.
- Recommendation to define the dimensions of addressing numbers and letters for visibility to responding emergency units. Sizes can change depending on the distance, location, or visibility of the numbers or letters with regard to the building distance from the approach route of emergency response units.

Chapter 6- Building Services and Systems

- No recommended amendments

Chapter 7- Fire Resistance-Rated Construction

- No recommended amendments

Chapter 8- Interior Finish, Decorative Materials and Furnishings

- No recommended amendments

Chapter 9- Fire Protection Systems

- Recommendation to clarify the wording of the current Code language to make it more clear and consistent with the 2012 IFC. The majority of the changes to this section are to reflect the need to carry forward our current amendments and formatting to the new Code. None of the reflected changes are any more restrictive than the existing Code and amendments.
 - Note
 - The 2012 IFC has addressed items that were previously dealt with by City of Prescott amendments. This has allowed us to use the Code locally without needing to address items currently only available for use by amendment.
 - It is our understanding, subject to A.R.S. 9-807 "*Mandated fire sprinklers in certain residences prohibited; exception*", that the 2012 Code cannot be amended with regard to the current adopted code without the possibility of negating the current amendment and its requirements.
- Recommendation to require that records of Fire Protection Systems inspection, tests, and maintenance, revealing significant deficiencies, be forwarded, by hard copy, to the Fire Department within 10 business days.
- Recommendation to delete Section 905.3.4.1 "Hose and Cabinets" in its entirety.
 - Note: the reason for this deletion is that we do not want the general public to attempt to use a fire hose to suppress a fire and we cannot regulate the continued maintenance and testing of private fire hose to assure its functionality for our use. We will however continue to require, per the Code, installation of standpipes that we can connect Fire Department hose to as needed.

With regard to subsequent Chapters:

The 2012 International Fire Code has significantly changed with regard to comprehensiveness and clarity; therefore, the need to amend Chapters past Chapter 9 has not been found to be necessary during this code cycle.

Appendices to the 2012 Fire Code

Note:

Per the Fire Code language- "Provisions contained in the appendices are not mandatory unless specifically referenced in the adopting ordinance. "

Appendix "A"- Board of Appeals

- Recommend to adopt in its entirety with amendment relaxing membership.

Appendix "B"- Fire Flow Requirements for Buildings

- Recommend to adopt in its entirety.

Appendix "C"- Fire Hydrant Locations and Distribution

- Recommend to adopt in its entirety.

Appendix "D"- Fire Apparatus Access Roads

- Recommend to adopt in its entirety to be consistent with aforementioned Fire Service Features- (Chapter 5)

Appendix "E"- Hazard Categories

- Not recommended for adoption is it is for information purposes only and not intended for adoption.

Appendix "F"- Hazard Ranking

- Recommend to adopt in its entirety.

Appendix "G"- Cryogenic Fuels- Weight and Volume

- Not recommended for adoption is it is for information purposes only and not intended for adoption.

Appendix "H"- Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement Instructions (HMIS)

- Recommend to adopt in its entirety.

Appendix "I"- Fire Protection Systems- Noncompliant Conditions

- Recommend to adopt in its entirety.

Appendix "J"- Building Information Sign

- Not recommended for adoption as a valuable tool for our jurisdiction.

RESOLUTION NO. ?

A RESOLUTION OF THE MAYOR AND COUNCIL OF THE CITY OF PRESCOTT, YAVAPAI COUNTY, ARIZONA, DECLARING AS A PUBLIC RECORD THOSE CERTAIN DOCUMENTS FILED WITH THE CITY CLERK AND ENTITLED THE “2012 INTERNATIONAL FIRE CODE” AS ADOPTED BY THE INTERNATIONAL CODE COUNCIL, INC., AND THAT CERTAIN DOCUMENT ENTITLED “CITY OF PRESCOTT 2012 AMENDMENTS TO THE 2012 INTERNATIONAL FIRE CODE” AS A PUBLIC RECORD, AND DIRECTING THE CITY CLERK TO RETAIN THREE COPIES THEREOF ON FILE

RECITALS:

WHEREAS, that certain document entitled the “*2012 International Fire Code*” as adopted by the International Code Council, Inc., three copies of which are on file in the office of the City Clerk, is hereby declared to be a public record, and said copies are ordered to remain on file with the city clerk; and

WHEREAS, that certain document entitled the “*City of Prescott 2012 Amendments to the 2012 International Fire Code*”, three copies of which are on file in the office of the City Clerk, is hereby declared to be a public record, and said copies are ordered to remain on file with the city clerk.

ENACTMENTS:

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF PRESCOTT AS FOLLOWS:

Section 1. THAT certain document entitled the “*2012 International Fire Code*” as adopted by the International Code Council, Inc., is hereby declared to be a public record.

Section 2. THAT certain document entitled the “*City of Prescott 2012 Amendments to the 2012 International Fire Code*”, Exhibit A attached hereto and made a part hereof, is hereby declared to be a public record.

Section 3. THAT the City Clerk is hereby directed to maintain three (3) copies of the above referenced public documents on file at all times for inspection by the public.

PASSED AND ADOPTED by the Mayor and Council of the City of Prescott this ____ day of _____, 2013.

, Mayor

ATTEST:

APPROVED AS TO FORM:

, City Clerk

, City Attorney

DRAFT

EXHIBIT 'A'

CITY OF PRESCOTT 2012 AMENDMENTS TO THE
2012 INTERNATIONAL FIRE CODE

SCOPE AND GENERAL REQUIREMENTS

[A] 101.1 Title. These regulations shall be known as the *Fire Code* of **City of Prescott**, hereinafter referred to as "this code."

[A] 101.2.1 Appendices. Provisions in the appendices shall not apply unless specifically adopted. **Provisions in the appendices are adopted in their entirety as listed in this document.**

102.7 Referenced codes and standards.

Section 102.7 entitled "Reference codes and standards" is hereby amended to read as follows:

[A] 102.7 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 80, and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.7.1 and 102.7.2. ***Referenced codes and standards listed in Chapter 80 are adopted in their entirety.***

SECTION 105 PERMITS [A] 105.6.2 Amusement buildings is amended as follows:

[A] 105.6.2 Amusement buildings. An operational permit is required to operate **any** special amusement building **or event as required by the Fire Code Official.**

[A] 108.1 Board of appeals established. In order to hear and decide appeals of orders, decisions or determinations made by the *fire code official* relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals **pursuant to Title 1 Chapter 25 and Ordinance # 1650 of the City of Prescott Revised Code.** The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The *fire code official* shall be an ex officio member of said board but shall have no vote on any matter before the board. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the *fire code official*.

[A] 109.4 Violation penalties. Persons who violate a provision of this code or fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under a provision or provisions of this code, shall be guilty of a violation of Section 6-1-3 of the Prescott City Code and punishable pursuant to Section 1-3-1 of the Prescott City Code.

Section 202 entitled “Definitions; General Definitions; Occupancy Classification; [B] Institutional Group I; Group I-1” is hereby amended to read as follows:

Institutional Group I-1. This occupancy shall include buildings, structures or parts thereof for more than ~~46~~ 10 persons who reside on a 24-hour basis in a supervised environment and receive custodial care. The persons receiving care are capable of self preservation. This group shall include, but not be limited to, the following:

- Alcohol and drug centers
- Assisted living facilities
- Congregate care facilities
- Convalescent facilities
- Group homes
- Half-way houses
- Residential board and custodial care facilities
- Social rehabilitation facilities

Five or fewer persons receiving care. A facility such as the above with five or fewer persons receiving such care shall be classified as Group R-3 or shall comply with the *International Residential Code* provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3 or *International residential Code* Section P2904.

~~Six to sixteen~~ **Ten or fewer persons receiving care.** A facility such as above, housing at least six and not more than ~~46~~ 10 persons receiving such care, shall be classified as Group R-4.

Section 202 entitled Definitions; General Definitions; Occupancy Classifications is hereby amended by adding the following definitions:

DIRECTED CARE SERVICES. Care, including personal care services, of residents who are incapable of recognizing danger, summoning assistance, expressing need, or making basic care decisions.

PERSONAL CARE SERVICE. Assistance with activities of daily living that can be performed by persons without professional skills or professional training and includes the coordination or provision of intermittent nursing services and the administration of medications and treatments.

RESIDENTIAL CARE/ASSISTED LIVING HOME. A building or part thereof housing a maximum of 10 persons, excluding staff, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment which provides supervisory, personal, or directed services. This classification shall include, but not be limited to the following:

- Alcohol and drug abuse centers
- Assisted living centers
- Congregate care facilities
- Convalescent facilities
- Group homes
- Halfway houses
- Residential board and care facilities
- Social rehabilitation facilities

SUPERVISORY CARE SERVICE. General supervision, including daily awareness of resident functioning and continuing needs."

Section 202 entitled Definitions; Fire Protection System; is hereby amended by adding the following definitions thereto:

DETACHED BUILDING: A separate stand alone structure that is separated from other buildings in accordance with the requirements of the *International Building Code*, greater than 200 square foot and within 15 feet of the existing or primary structure. This classification shall include, but not limited to the following:

- Casitas
- Gazebos
- Storage sheds
- Garages
- Green houses
- Ramada
- Barns
- Shop

SPECULATIVE WAREHOUSE. A building designed for high piled combustible storage without a known type or commodity designation specified.

Section 202 entitled Definitions; General Definitions, is hereby amended by adding the following definition thereto:

Sky Lantern. A device designed to carry an open flame as an airborne light. Also known as, but not limited to, Kongming Lantern, Whish Lantern, Sky Candle, Fire Balloon.

Section 308 entitled Open Flames is hereby amended by adding a subsection; 308.1.1.1

308.1.1.1 Sky Lanterns. The lighting of, and or release of Sky Lanterns is prohibited.

Section 503.2.4 entitled Fire Service Features; Fire Apparatus Access Roads; Specifications; Turning Radius is hereby amended to read as follows:

503.2.4 Turning radius. The required **minimum** turning radius of a fire apparatus access road shall be **28 inside, 48 outside** determined by the ~~fire code official~~.

Section 503.2.7 entitled Fire Service Features; Fire Apparatus Access Roads; Specifications; Grade is hereby amended to read as follows:

503.2.7 Grade. The grade of the fire apparatus access road shall be **no more than 12%, or** within the limits established by the ~~fire code official~~ based on the fire department's apparatus **and to meet requirements of this code and amendments.**

Section 505.1 entitled Address identification, is hereby amended as follows:

505.1 Address identification. New and existing buildings shall have *approved* address numbers, building numbers or *approved* building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Where required by the ~~fire code official~~, address numbers shall be provided in additional *approved* locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of ~~four~~ **6** inches (101.6 mm) high with a minimum stroke width of 0.5 inch (12.7 mm), **or larger when necessary as determined by the fire code official**. Where access is by means of a private road and the building cannot be viewed from the *public way*, a monument, pole or other sign or means, **as approved by the fire code official**, shall be used to identify the structure. Address numbers shall be maintained.

Section 901.2 entitled Construction documents are hereby amended by adding a new paragraph at the end thereof to read as follows:

901.2 Construction documents. The ~~fire code official~~ shall have the authority to require *construction documents* and calculations for all *fire protection systems* and to require permits be issued for the installation, rehabilitation or modification of any *fire protection system*. *Construction documents for fire protection systems* shall be submitted for review and approval prior to system installation. **Automatic sprinkler systems designed in accordance with NFPA 13, 13D and 13R shall be submitted and reviewed bearing a review certification and signature of a minimum level III NICET Certified Engineering Technician (CET) or Arizona registrant. Fire alarm systems designed in accordance with NFPA 72 shall be reviewed and submitted bearing a**

review certification and signature of a minimum level III NICET Technician or Arizona registrant.”

Section 901.6.2 entitled Records is hereby amended to read as follows:

901.6.2 Records. Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for a minimum of three years and deficiencies shall be copied to the ~~fire code official upon request to the~~ authority having jurisdiction within ten (10) business days.

Section 903.2 entitled Fire Protection Systems; Automatic Sprinkler Systems; Where required is hereby amended by adding new paragraphs after the exception, to read as follows:

903.2 Where required. In addition to the requirements of the fire and building codes, an approved automatic monitored sprinkler system shall be installed throughout all levels of all new Group B, E, F, M, R-3, U and S occupancies 5,000 square feet (464m²) or greater and in all buildings over 2 stories in height regardless of the total square footage. In Group R-3 occupancies, the calculated area shall include all livable and unfinished space, the area of any attached garage, concealed or accessible spaces intended for storage use and/or future living space, as determined by the Building Official. Parameter decks or outdoor living space is not calculated in the 5,000 square feet (464m²) threshold requirement.

Exceptions:

1. All Group R-1, R-2 and R-4 occupancies shall have an approved, monitored, automatic sprinkler system installed regardless of the square foot size.
2. All Group A occupancies shall have an approved, monitored, automatic, sprinkler system installed where there is an occupant load of 100 or greater.
3. Automatic sprinkler systems in R-3 and U occupancies shall not be required to be monitored.

Such systems shall be in accordance with the International Fire Code, *International Building Code* and installed in accordance with NFPA 13, 13D or 13R as specified by the fire code official.

Notwithstanding the foregoing, an automatic monitored fire sprinkler system may be installed in any building regardless of floor area.

Section 903.2 entitled Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group A-1 is hereby amended to read as follows:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided for Group A-1 occupancies where one of the following conditions exists:

1. The fire area exceeds ~~12,000~~ 5,000 square feet (~~1115m²~~) (464m²).
2. The fire area has an occupant load of ~~300~~ 100 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.
4. The fire area contains a multitheater complex.

Section 903.2.1.3 entitled Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group A-3 is hereby amended to read as follows:

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:

1. The fire area exceeds ~~12,000~~ 5,000 square feet (~~1115 m²~~) (464m²).
2. The fire area has an occupant load of ~~300~~ 100 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

Section 903.2.1.4 entitled Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group A-4 is hereby amended to read as follows:

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided for Group A-4 occupancies where one of the following conditions exists:

1. The fire area exceeds ~~12,000~~ 5,000 square feet (~~1115 m²~~) (464m²).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

Section 903 entitled Fire Protection Systems; Automatic Sprinkler entitled Fire Protection Systems; Automatic Sprinkler Systems; Where Required; Group B, Section 903.2.2.2, is hereby added to read as follows:

903.2.2.2 Group B. An automatic monitored sprinkler system shall be provided throughout all Group B occupancies where any of the following exist:

1. Where Group B fire area is 5,000 square feet (464m²) and greater, or
2. Fire area is located more than two stories above grade, or
3. The fire area has an occupant load of 100 or more.

Section 903.2.3 entitled Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group E is hereby amended to read as follows:

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E ~~fire areas~~ greater than 12,000 square feet (1115 m²) in area.
2. Throughout every portion of educational buildings below the lowest ~~level of exit discharge~~ serving that portion of the building.

Exception: An ~~automatic sprinkler system~~ is not required in any area below the lowest ~~level of exit discharge~~ serving that area where every classroom throughout the building has at least one exterior exit door at ground level.

An automatic sprinkler system shall be provided for all Group E occupancies.

Exception: A daycare with less than 11 children in a private residence.

Sections 903.2.4 entitled Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group F-1 is hereby amended to read as follows:

903.2.4 Group F-1. An automatic sprinkler system shall be provided throughout all buildings containing Group F-1 occupancy where one of the following conditions exists:

1. A Group F-1 ~~fire area~~ exceeds 12,000 5,000 square feet (1115 m²) (464m²).
2. A Group F-1 ~~fire area~~ is located more than three two stories above grade plane.
3. The combined area of all Group F-1 ~~fire areas~~ on all floors, including any mezzanines, exceeds 24,000 5,000 square feet (2230 m²) (464m²).
4. A Group F-1 occupancy used for the manufacture of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).

Sections 903.2.7 entitled Fire Protection Systems; Automatic Sprinkler Systems; Where Required; Group M is hereby amended to read as follows:

903.2.7 Group M. An automatic sprinkler system shall be provided throughout buildings containing Group M occupancy where one of the following conditions exists:

1. A Group M ~~fire area~~ exceeds 12,000 5,000 square feet (1115 m²) (464m²).
2. A Group M ~~fire area~~ is located more than three two stories above grade plane.
3. The combined area of all Group M ~~fire areas~~ on all floors, including any mezzanines, exceeds 24,000 5,000 square feet (2230 m²) (464m²).

4. A Group M occupancy used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 m²).

Section 903.2.8 entitled Fire Protection Systems; Automatic Sprinkler Systems; where Required, Group R is hereby amended to read as follows:

903.2.8 Group R. An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R *fire area*.

In Group R-3 occupancies 5,000 square feet (464m²) or greater, an automatic sprinkler system shall be installed throughout in accordance with Sections 903.2, 903.3 and 903.3.1.3 and when any of the following apply:

- A. The fire department access roads are obstructed by low water crossings without approved secondary access.
- B. The building site is located on a dead-end roadway which exceeds 1,300 feet (396240mm) from the nearest thoroughfare's intersection.
- C. The fire department access road exceeds a 12% grade.
- D. The fire hydrant spacing exceeds 500 feet (152400mm) on the nearest fire department access road or the required fire flow is not available.
- E. The most remote point of a building is located more than 150 feet (45720mm) from the closest point on fire apparatus access roadway(s) as measure by an approved route around the exterior of the building.
- F. There are congregate living facilities with more than 10 persons.
- G. If the structure is higher than two (2) stories as defined in the International Building Code.

Exceptions:

1. Manufactured mobile home built on a chassis, designed and built as a dwelling unit; and recreational vehicles that were not site built and are portable in nature.
2. All new, detached, non-commercial use, U occupancy buildings, to include but not limited to Ramada's, gazebos, barns, sheds, private garages, or shops, etc., constructed on any residential R-3 parcel(s), not exceeding 700 square feet, and not having habitable space, separated from another adjoining structure by no less than 15 feet and located no more than 300 feet from an approved fire department access roadway, as accessed via an approved route to the structure, shall not be required to install a residential fire sprinkler system.

Section 903.2.8.1 entitled *Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group R-3 or R-4 is hereby amended to read as follows:*

903.2.8.1 Group R-3 or R-4 congregate residences.

An automatic sprinkler system installed in accordance with Section 903.3.1.3 shall be permitted in Group R-3 or R-4 congregate living facilities with ~~46~~ 10 or fewer residents.

Section 903.2.9 entitled *"Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group S-1 is hereby amended to read as follows:*

903.2.9 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing Group S-1 occupancy where one of the following conditions exists:

1. A Group S-1 fire area exceeds ~~12,000~~ 5,000 square feet (~~1115 m²~~) (464m²)
2. A Group S-1 fire area is located more than ~~three~~ two stories above grade plane.
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds ~~24,000~~ 5,000 square feet (2230 m²) (464m²).
4. A Group S-1 fire area used for the storage of commercial trucks or buses where the fire area exceeds 5,000 square feet (464 m²).
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).

Section 903.2.10 entitled *"Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Group S-2 is hereby amended to read as follows:*

903.2.10 Group S-2 enclosed parking garages. An automatic sprinkler system shall be provided throughout buildings classified as enclosed parking garages in accordance with Section 406.6 of the *International Building Code* as follows:

1. Where the fire area of the enclosed parking garage exceeds ~~12,000~~ 5,000 square feet (~~1115 m²~~) (464m²); or
2. Where the enclosed parking garage is located beneath other groups.

Exception: Enclosed parking garages located beneath Group R-3 occupancies.

Section 903.2.9.1(1) and (2) entitled *"Fire Protection Systems, Automatic Sprinkler Systems; Where Required; Repair Garages" is hereby amended to read as follows:*

903.2.9.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406.8 of the *International Building Code*, as shown:

1. Buildings having two or more stories above grade plane, including *basements*, with a *fire area* containing a repair garage exceeding 10,000 ~~929 m²~~ **5,000** square feet (~~464m²~~).
2. Buildings no more than one story above grade plane, with a *fire area* containing a repair garage exceeding 12,000 ~~1115 m²~~ **5,000** square feet (~~464m²~~).
3. Buildings with repair garages servicing vehicles parked in *basements*.
4. A Group S-1 *fire area* used for the repair of commercial trucks or buses where the *fire area* exceeds 5,000 square feet (464 m²).

Section 903.3.1.1.1 entitled "Fire Protection Systems; Automatic Sprinkler Systems; Installation requirements; Exempt locations" is hereby amended as follows:

903.3.1.1.1 Exempt locations. Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an *approved* automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistance rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when *approved* by the *fire code official*.
3. Generator and transformer rooms separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a *fire-resistance rating* of not less than 2 hours.
4. ~~Rooms or areas that are of noncombustible construction with wholly noncombustible contents.~~
5. Fire service access elevator machine rooms and machinery spaces.
6. Machine rooms and machinery spaces associated with occupant evacuation elevators designed in accordance with Section 3008 of the *International Building Code*.

Section 903.3.1.3 entitled "Fire Protection Systems; Automatic Sprinkler Systems; Installation requirements; NFPA 13D sprinkler systems" is hereby amended to read as follows:

903.3.1.3 NFPA 13D sprinkler systems. *Automatic sprinkler systems* installed in one and two-family *dwelling*s, Group R-3 and R-4 congregate living facilities and *townhouses* shall be permitted to be installed throughout in accordance with NFPA 13D. *Where installed, automatic sprinkler systems in one and two-family dwellings shall be constructed throughout in accordance with NFPA 13D, 901.2.1, and this code. NFPA 13-D systems shall include sprinklers in vehicle garages, livable spaces, and concealed or accessible spaces intended for storage use and/or future living space, as determined by the Building Official. Automatic sprinkler systems shall be provided throughout a fire area containing Group R-3 occupancy where the fire area exceeds 5,000 square feet (464m²).*

Section 903.3.5 entitled "Fire Protection Systems; Automatic Sprinkler Systems; Installation requirements; Water supplies" is hereby amended to read as follows:

903.3.5 Water supplies. Water supplies for automatic sprinkler systems shall comply with this section and the standards in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the *International Plumbing Code*. *The introduction of any toxic substance shall be prohibited. If a sprinkler system is connected to a potable water supply, the use of solutions other than that of pure glycerin (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall not be permitted."*

Section 903.3 entitled "Fire Protection Systems; Automatic Sprinkler Systems; Installation requirements" is hereby amended by adding a new subsection 903.3.8 entitled "Speculative warehouse special requirements" thereto, to read as follows:

903.3.8 Speculative warehouse special requirements.

Speculative warehouses shall comply with Chapter 32, and this Chapter. Where the maximum allowable storage height can exceed 12 feet (3658mm) but less than 22 feet (6706mm) the following shall apply:

1. *Design for a Class IV non-encapsulated commodity, double row rack storage, 8 foot (2,438mm) aisles and 286 degree sprinklers; and*
2. *Hydraulically design to protect the maximum possible clear height of storage without in-rack sprinklers; and*
3. *Add 500 GPM at the base of the riser for inside hose to hydraulic calculations, and provide the hose stub-outs for future installation or use existing columns for hose installing locations.*

Where the maximum allowable storage height can exceed 22 feet (6706mm) the following shall apply:

1. *Hydraulically design system to protect the maximum possible clear height of storage without in-rack sprinklers; and*

2. Provide .64 GPM per square foot over the hydraulically most remote 2,000 square feet (609600mm); or use an approved alternative design such as ESFR sprinklers.

903.6 Where required in existing buildings and structures. An automatic sprinkler system shall be provided in existing buildings and structures where required in Chapter 11, are hereby amended to read as follows:

903.6 Where required in existing buildings and structures.

An approved, automatic monitored, fire extinguishing system shall be provided throughout all existing buildings when Table 903.6 or any of the following occur or apply:

1. Any addition, to the interior or exterior of the structure, that increases the total fire floor area to 5,000 square feet (464m²) or greater or,
2. Any modification or alteration to an existing building, with a total floor area of 5,000 square feet (464m²) or greater, that breeches or removes a required fire rated wall assembly.
3. Occupied, unoccupied, and unused spaces within existing buildings, outside the scope of the change of use area, shall be provided with approved fire sprinkler and fire alarm system protection within 18 months of the fire protection system installation permit or as otherwise determined by the Fire Code Official.

Exception: Group R-3 occupancies.

TABLE 903.6

SPRINKLER REQUIREMENTS BASED ON CHANGE OF OCCUPANCY FOR EXISTING STRUCTURES

		Current Occupancy Classification																									
		A-1	A-2	A-3	A-4	A-5	B	E	F-1	F-2	H-1	H-2	H-3	H-4	H-5	I-1	I-2	I-3	I-4	M	R-1	R-2	R-3	R-4	S-1	S-2	U
Proposed Occupancy Classification	A-1		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	A-2	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	A-3	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	A-4	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	A-5	NA ¹	NA ¹	NA ¹	NA ¹		NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	NA ¹	
	B	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	E	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²		NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	NR ²	
	F-1	NR	NR	NR	NR	NR	NR	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	F-2	NR	NR	NR	NR	NR	NR	NR	NR		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	H-1	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	H-2	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	H-3	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R
	H-4	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R
	H-5	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R
	I-1	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R
	I-2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R
	I-3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R
	I-4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R
	M	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR	NR	NR	NR	NR	NR
	R-1	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R	R
	R-2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R	R
	R-3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR	NR
	R-4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R
	S-1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR
	S-2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

R = Sprinklers required for proposed occupancy

NR = Sprinklers not required EXCEPT when proposed occupancy is 5,000 square feet or greater.

NA = Not Applicable, except under special circumstances. See Fire Code Official for current Fire Code/Amendment exceptions/requirements

¹ = Sprinklers are required for all concession stands, retail areas, press boxes, and accessory uses 1,000 square feet or greater

² = Any portion of an "E" occupancy that becomes an Assembly use within that occupancy classification will be required to install fire sprinklers

Section 904.2 entitled Alarms, is hereby amended to read as follows:

903.4.2 Alarms. An approved audible device, located on the exterior of the building in an approved location, **and in the interior of the building, in normally occupied locations** shall be connected to each automatic sprinkler system. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

Section 903.4.3 entitled Floor Control Valves, is hereby amended to read as follows:

903.4.3 Floor control valves. *Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise buildings when a building exceeds 2 stories in height.*

Section 905.3.4.1 entitled Hose and cabinet is hereby deleted in its entirety.

905.3.4.1 Hose and cabinet. ~~The 1 1/2-inch (38 mm) hose connections shall be equipped with sufficient lengths of 1 1/2-inch (38 mm) hose to provide fire protection for the stage area. Hose connections shall be equipped with an approved adjustable fog nozzle and be mounted in a cabinet or on a rack.~~

Section 907.2 entitled "Fire Protection Systems; Fire Alarm and Detection Systems; Where required--new building and structures" is hereby amended to read as follows:

907.2 Where required new buildings and structures. *An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.5, unless other requirements are provided by another section of this code or amendment. A minimum of one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or water-flow detection devices. Where other sections of this code allow elimination of fire alarm boxes due to sprinklers, a single fire alarm box shall be installed.*

Exceptions: The manual fire alarm box is not required for fire alarm systems dedicated to elevator recall control and supervisory service. 2. The manual fire alarm box is not required for Group R-2 occupancies unless required by the *fire code official* to provide a means for fire watch personnel to initiate an alarm during a sprinkler system impairment event. Where provided, the manual fire alarm box shall not be located in an area that is accessible to the public.

Appendices
Appendix "A"
Board of Appeals

Appendix A is hereby adopted in its entirety with exception as follows:

A101.2 Membership. The membership of the board shall consist of five voting members having the qualifications established by this section. *In the event that it is not practical to find members as required by this section, the fire code official reserves the right to relax the qualifications as to create a valid professional board to serve this jurisdiction.* Members shall be nominated by the *fire code official* or the chief administrative officer of the jurisdiction, subject to confirmation by a majority vote of the governing body. Members shall serve without remuneration or compensation, and shall be removed from office prior to the end of their appointed terms only for cause.

Appendices
Appendix "B"
Fire-Flow Requirements For Buildings

Appendix B is hereby adopted in its entirety.

Appendices
Appendix "C"
Fire Hydrant Locations and Distribution

Appendix C is hereby adopted in its entirety.

Appendices
Appendix "D"
Fire Apparatus Access Roads

Appendix D is hereby adopted in its entirety with exception as follows:

Figure D103.1 entitled "Dead-End Fire Apparatus Access Road Turnaround" is hereby amended by replacing the illustration figure with an amended figure to illustrate and to read as follows:

Figure D103.1
Dead-End Fire Apparatus Access Road Turnaround

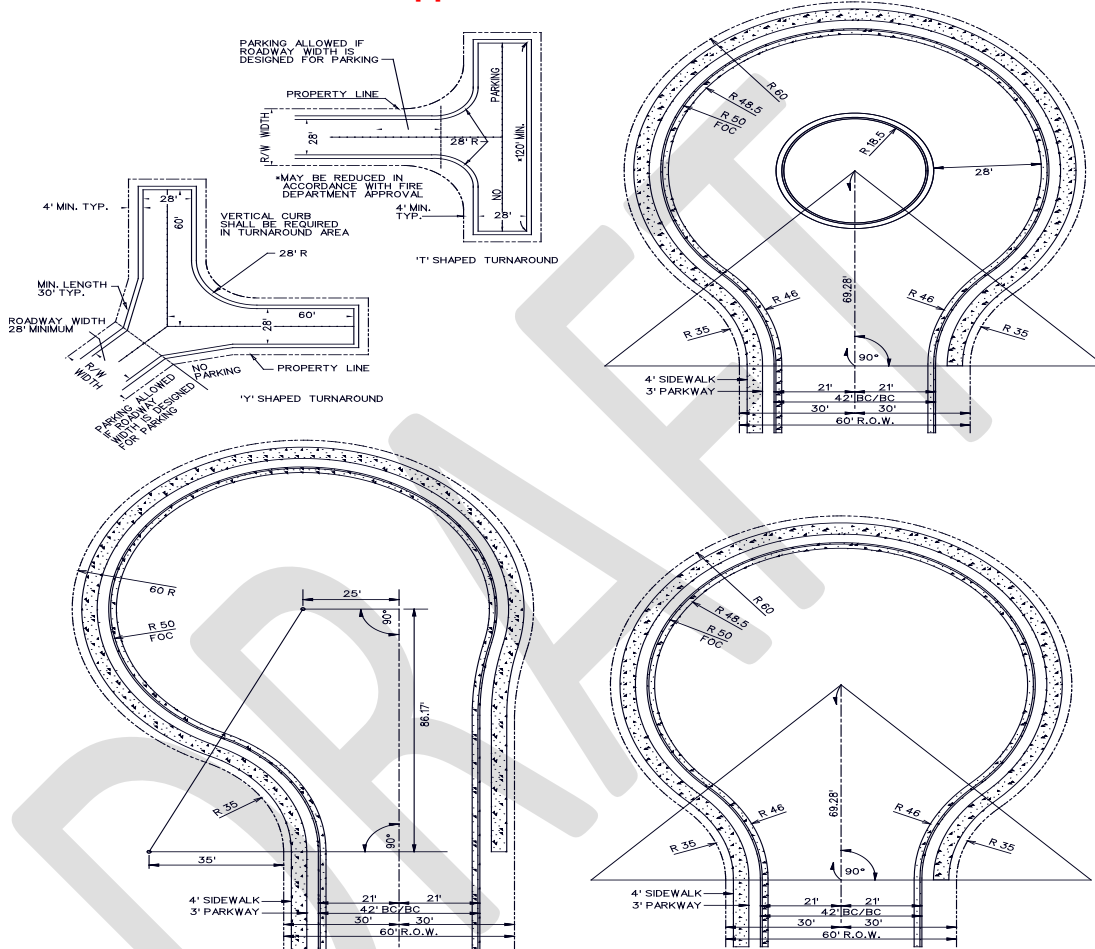


Table D103.4 entitled "Requirements for Dead-End Fire Apparatus Access Roads" is hereby amended to read as follows:

**TABLE D103.4
REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS**

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	20	None required
151-500	20 28	120 feet Hammerhead, 60 feet "Y" or 100 feet Diameter cul-de-sac in accordance with Figure D103.1
501-750	26 28	120 feet Hammerhead, 60 feet "Y" or 100 feet Diameter cul-de-sac in accordance with Figure D103.1
Over 750	Special approval required	Special approval required

Appendices
APPENDIX F
Hazard Ranking

Appendix F is hereby adopted in its entirety.

Appendices
APPENDIX H
**HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP)
AND HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS)
INSTRUCTIONS**

Appendix H is hereby adopted in its entirety.

APPENDIX I
FIRE PROTECTION SYSTEMS—NONCOMPLIANT CONDITIONS

Appendix I is hereby adopted in its entirety

End of Document