

**ADDITIONS, DELETIONS AND AMENDMENTS**

**TO THE**

**INTERNATIONAL FIRE CODE**

**2009**

**ADDITIONS, DELETIONS AND AMENDMENTS**

**TO THE**

**INTERNATIONAL FIRE CODE 2009**

The word “Add” preceding a provision of this section means that such provision is thereby added to and made part of the International Fire Code/2009 as though fully set forth at the referenced section.

The word “Delete” preceding a provision of this section means that such provision deletes the referenced section from the International Fire Code/2009.

The word “Amend” preceding a provision of this section means that such provision amends the reference section of the International Fire Code to read as provided and that such provision is added to and made a part of such code as though fully set forth at the referenced number.

**CHAPTER 1 – ADMINISTRATION**

**AMEND:**     **101.1 Title.** These regulations shall be known as the Fire Code of City of Champaign, hereinafter referred to as “this code.”

**ADD:**        **101.2.1 Appendices.**

- Appendix B – Fire-Flow Requirements for Buildings**
- Appendix C – Fire Hydrant Locations and Distribution**
- Appendix D – Fire Apparatus Access Roads**
- Appendix E – Hazard Categories**
- Appendix F – Hazard Ranking**
- Appendix G – Cryogenic Fluids – Weight and Volume Equivalents**

**DELETE:**    **103.2 Appointment**

**DELETE:**    **103.3 Deputies**

**DELETE:**    **104.6 Official records.**

**DELETE:**    **108 Board of Appeals**

**ADD:**        **108 Appeals.** Any person, firm or corporation, who is aggrieved by a decision of the code official or an order or notice of violation issued pursuant to the provisions of this code, as amended, shall be made to the Code Enforcement Board of Appeals pursuant to Section 2-441 through 2-455, inclusive, of the Municipal Code of Champaign, 1985m, as amended.

**AMEND:** **109.3 Violation penalties.** Any person, firm or corporation violating any of the provisions of this code, as amended, or failing to comply with any order or notice of violation issued pursuant to any section herein shall be subject to the penalties set out in Section 1-21 of the Municipal Code of Champaign, 1985, as amended.

**AMEND:** **111.4 Failure to comply.** Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to the penalties set out in Section 1-21 of the Municipal Code of Champaign, 1985, as amended.

## **CHAPTER 2 – DEFINITIONS**

**AMEND:** **Definition of “Existing.”** Buildings, facilities or conditions which are already in existence, constructed or occupied.

## **CHAPTER 3 – GENERAL PRECAUTIONS AGAINST FIRE**

**DELETE:** **307 Open Burning and Recreational Fires**

**Replace with Section 15-20 from the Municipal Code, reproduced below:**

### **Champaign City Code Burning Ordinance**

#### **Sec. 15-20. Burning prohibited; exceptions.**

- (a) It shall be unlawful to burn any garbage, or other organic refuse, outside of any building at any time in the City.
- (b) It shall be unlawful to burn papers, excelsior, or other material which may be blown about by the wind anywhere in the City unless the same is burned in a stove, fireplace, or furnace or in an incinerator sufficiently fine to prevent the escape of ignited particles.
- (c) It shall be unlawful to burn grass or brush at any time in the City.
- (d) It shall be unlawful for any person to burn leaves at any time in the City.
- (e) Recreational campfires are permitted on property only under the following conditions:
  - (1) The fire shall be contained in a metal container not exceeding twenty (20) square feet in plane surface area and not elevated more than ten (10) inches above the grade level or on cleared earth in a pit enclosed on the sides by masonry or rock materials and not exceeding twenty (20) square feet in area.
  - (2) All trees, fences, decks and other structures shall be at least ten (10) feet from the fire enclosure or pit.

- (3) Any fuel used shall be confined to logs or branches that are untreated or commercially available charcoal briquettes. No other fuels are permissible except a starter fuel designed for that purpose.
- (4) A responsible adult of at least eighteen (18) years of age shall be in attendance at all times that the fire is burning. When adult supervision ceases, the fire shall be extinguished with water and the coals spread out in the enclosure.
- (5) Campfires shall be extinguished if, in the opinion of a responding fire department employee, there is danger that smoke or fire will inflict injury upon someone or will cause damage to property.
- (6) The owner of the property upon which the fire is burning shall have consented to such fire.
- (f) Outdoor cooking fires: Charcoal or small wood fires for cooking purposes are permitted in containers designed for cooking over such fires. These containers shall be placed so that they do not cause fire or smoke damage to property or injury to any person.
- (g) Special recreational fires: With the written permission of the Fire Chief and in accordance with the conditions prescribed by the Fire Chief, special recreational fires shall be permitted at special events such as high school or college pep rallies. The Fire Chief shall have sole discretion to issue a letter of permission for such fires based upon the potential for danger to persons or property. He or she may prescribe such mandatory conditions as are necessary or desirable to insure the safety of persons and property.
- (h) Prescribed burning for alternative landscapes: With the written permission of the Fire Chief and in accordance with section 35-35 of the Champaign Municipal Code, prescribed burning for alternative landscapes shall be permitted. The Fire Chief shall have sole discretion to issue a letter of permission for such fires based upon the potential for danger to persons or property. He or she may prescribe such mandatory conditions as are necessary or desirable to insure the safety of persons and property.
- (i) Enforcement: It shall be the responsibility of the Fire Chief, his or her designee, or the Police Chief or his or her designee to enforce this section of the Code.

(Code 1975, § 17-4; C.B. No. 79-238, § 3, 9-18-79; C.B. No. 81-47, § 1, 4-8-81; C.B. No. 90-319, § 1, 12-18-90; C.B. No. 91-231, § 1, 9-17-91; C.B. No. 94-120, § 2, 5-17-94)

**Cross references:** Bonfires, § 13-7; burning leaves and rubbish in streets, § 13-8.

Secs. 15-21, 15-22. Reserved.

**Editor's note:** Section 1 of C.B. No. 92-15, adopted Jan. 7, 1992, repealed former §§ 15-21, 15-22, which pertained to burning and City Disposal Grounds and derived from Code 1975, §§ 17-10 and 17-19. Secs. 15-23--15-50. Reserved.

**AMEND:** **308.1.4 Open-flame devices.** Charcoal burning and other open-flame devices shall not be operated on combustible balconies or within 10 feet of combustible construction.

**DELETE:** **308.2 Permits required.**

**AMEND:** **308.3 Open flame.** A person shall not utilize or allow to be utilized, an open flame in connection with a public meeting or gathering for purposes of deliberation, worship, entertainment, amusement, instruction, education, recreation, awaiting transportation or similar purpose in Group A or E occupancies.

**AMEND:** **311.2.2 Fire protection (in vacant premises):**

**Add Exception 3:** As approved by the code official.

**AMEND:** **313.1 Fueled Equipment. General.** Fueled equipment, including but not limited to motorcycles, mopeds, lawn-care equipment and portable generators and portable cooking equipment, shall not be stored, operated or repaired within a building.

**Exceptions:**

1. Buildings or rooms constructed for such use in accordance with the *International Building Code*.
2. Where allowed by Section 314.
3. Storage of equipment utilized for maintenance purposes is allowed in approved locations when the aggregate fuel capacity of the stored equipment does not exceed 10 gallons (38 L) and the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

**Add:**

4. Storage of equipment utilized for maintenance purposes is allowed in approved locations in a building without an automatic sprinkler system, when the aggregate fuel capacity of the stored equipment does not exceed 2 gallons.

**CHAPTER 4 – EMERGENCY PLANNING AND PREPAREDNESS**

**AMEND:** **404.2 Fire Safety and Evacuation.**

**#8.** University Certified Housing units.

**AMEND:** **408.2.1 Seating plan (in Group A).** When required by the code official, a fire safety and evacuation plan shall be submitted for assembly

occupancies. It must include a set of floor and site plans prepared under the seal of an architect or engineer licensed to practice in the State of Illinois. The plan shall include the information required by Section 404.3 and have a detailed seating plan (including, but not limited to, exiting, seating, game and waiting areas and the position of equipment and fixtures), and the occupant load. The layout may not be changed without submission of a new set of plans and the approval of the code official.

**ADD:**       **408.2.3 Overcrowding.** An owner, manager, agent or person in charge shall not permit overcrowding or admittance of any person beyond the established occupant load.

The code official, upon finding overcrowded conditions or obstruction in aisles, passageways or other means of egress, or upon finding any condition which constitutes a hazard to life and safety, shall be empowered to cause the occupancy, performance, presentation, spectacle or entertainment to be stopped until such a condition or obstruction is corrected and the addition of any further occupants prohibited until the approved occupant load is re-established.

**ADD:**       **408.2.4 Operator responsibility.** The operator or the person responsible for the operation of an assembly or educational occupancy shall check egress facilities before such building is occupied to determine compliance with this section. If such inspection reveals that any element of the required means of egress cannot be accessed, is obstructed, locked, fastened or otherwise unsuited for immediate utilization, admittance to the building shall not be permitted until necessary corrective action has been completed.

## CHAPTER 5 – FIRE SERVICE FEATURES

**AMEND:**   **505.1 Address numbers.** 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 be Arabic numerals or alphabet letters. In new buildings, numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

**ADD:**       **505.1.1 Dwelling Unit Identification.** Doors to individual dwelling or rooming units in R-2 occupancies shall be marked with unique Arabic numerals or alphabet letters a minimum of one inch high.

**DELETE:**   **506 Key Boxes**

Replace with Section 13-100 through 107 of the Municipal Code, reproduced below:

## ARTICLE IV. FIRE DEPARTMENT REPOSITORY UNITS

### Sec. 13-100. Definitions.

The following words and phrases, when used in this Chapter, shall have the meanings respectively ascribed to them:

- (1) *Alarm* means an audible or mechanical or electrical signal from a detection system which indicates a disturbance of the detection system or some other activity that requires urgent attention by the Fire Department.
  - (2) *Alarm company* means any person who engages in a business that sells, installs, monitors, maintains, alters, repairs, replaces, services, or responds to alarm systems at a protected premises or premise to be protected on an emergency basis; but shall not include any person who only manufactures or sells alarm systems from its place of business and provides no service or response to alarm systems at the protected premises or premise.
  - (3) *Alarm system* means any assembly of equipment which is designed or functions to provide an audible or mechanical or electrical signal which indicates a disturbance or some other activity that requires urgent attention by the Fire Department.
  - (4) *Chief* means the Fire Chief of the City of Champaign's Fire Department or the Chief's designee.
  - (5) *Electrical room* means any operating room containing electrical panel boxes, or electrical switching equipment, or circuit boxes.
  - (6) *Fire Department* means Fire Department of the City of Champaign.
  - (7) *Fire Department repository unit* means any device which contains keys that allows access to locked buildings and facilities or to secured areas within buildings or facilities, other than individual apartments or rented rooms, without forced entry; or any device that has the capacity to store information on chemicals or other hazardous materials or information on the building layout.
  - (8) *Mechanical room* means any operating room containing equipment used to heat, cool or move air or water.
- (C.B. No. 93-210, § 1, 8-3-93)

### Sec. 13-101. Fire Department repository unit--Required.

The owner or person in control of the following types of buildings shall install and maintain a Fire Department repository unit of a type approved by the Chief:

- (1) Any apartment building or other building in which eight (8) or more dwelling units are rented for residential purposes and in which access to the building or to common areas or mechanical or electrical rooms within the building is denied through locked doors.
- (2) Any nonresidential building where fire detection or suppression system is monitored by an alarm company or has an external audible alarm.
- (3) Any housing unit certified by the University of Illinois.

(4) Any building or facility containing a reportable quantity of hazardous materials as defined by Section 13-76 of the Code.  
(C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-102. Same--Keys required.**

The owner or person in control of buildings or facilities described in section 13-101 shall cause to be placed in any Fire Department repository unit required by section 13-101 a key to the following areas:

- (1) Locked points of access in the exterior of the building or facility;
- (2) Locked points of access to common areas, such as hallways or utility rooms, contained within such buildings or facilities;
- (3) Locked mechanical rooms;
- (4) Locked electrical rooms;
- (5) Other locked areas, other than individual apartments or rented rooms, as directed by the Fire Chief.

(C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-103. Access to Fire Department repository unit.**

The owner or person in control of any property, or his/her agent required by this Article to install a Fire Department repository unit shall be present during access to such key box by the Fire Department except when the Fire Department has responded to an emergency at the property.

(C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-104. Rules and regulations.**

The Chief may establish rules and regulations for the placement and maintenance of Fire Department repository units within the City, including approved types of Fire Department repository units. Proposed rules and regulations will be submitted to the City Council and filed with the City Clerk and shall become effective fourteen (14) days after submission to the City Council.

(C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-105. Update of keys and information.**

The owner or person in control of any building required to have a Fire Department repository unit pursuant to this Article shall do the following:

- (1) Provide keys capable of access to such Fire Department repository unit at all times to the Fire Department.
- (2) Maintain current information of hazardous materials stored in the building or facility in the Fire Department repository unit or, if the volume of material is too large to place in the repository unit, shall file said information with the Fire Chief.

(C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-106. Limitation of liability.**

The City assumes no liability for any of the following:

- (1) Any defects in the operation of the repository unit of any of the keys contained within such repository unit or any information stored within the repository unit or otherwise provided to the City;
  - (2) The failure or neglect to respond appropriately upon receipt of an alarm from an alarm system;
  - (3) The failure or neglect of any owner or person in control of property required to have a repository unit to provide access to the repository unit; or
  - (4) The security of any property required to have a repository unit due to access to the repository unit by any person.
- (C.B. No. 93-210, § 1, 8-3-93)

**Sec. 13-107. Penalty limitation.**

Persons subject to this Article shall have until January 1, 1995, to comply with the requirements contained in sections 13-101 through 13-104; thereafter, persons violating these provisions shall be subject to the general penalty provisions of this code.

(C.B. No. 93-210, § 1, 8-3-93)

Secs. 13-108, 13-109. Reserved.

**CHAPTER 6 – BUILDING SERVICES AND SYSTEMS**

**AMEND:** **603.4 Portable unvented heaters.** Portable unvented fuel-fired heating equipment shall be prohibited in all occupancies.

**Exceptions:**

1. Listed and approved unvented fuel-fired heaters, including portable outdoor gas-fired heating appliances, in one- and two-family dwellings.
2. Portable outdoor gas-fired heating appliances shall be allowed in accordance with Section 603.4.2.

**603.4.1 Prohibited locations.** Unvented fuel-fired heating equipment shall not be located in, or obtain combustion air from, any of the following rooms or spaces: sleeping rooms, bathrooms, toilet rooms or storage closets.

**ADD:** **603.5.3 Boiler inspection certification.** Each boiler and pressure vessel, other than boilers located within a residential dwelling unit, shall be inspected a minimum of once every two years by a certified boiler inspector. A certificate of inspection shall be displayed under glass in the boiler room in plain view. The inspection shall determine that the boiler operated in accordance with the manufacturer's requirements and that all safety devices and controls function correctly.

## CHAPTER 8 – INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS

**ADD:** Section 809 Special Amusement Structures.

### SPECIAL AMUSEMENT BUILDINGS

The following rules and regulations pertaining to temporary amusement structures are promulgated pursuant to Section 411 of the IBC 2009 and are adopted in order to secure, as nearly as possible, public safety, health and welfare insofar as they are affected by such structures.

1. All special amusement structures must be approved, prior to occupancy, by the Code Official.
2. Outdoor structures, if roofed, shall have a design roof load of 20 pounds per square foot.
3. Special amusement buildings shall be equipped throughout with an automatic sprinkler system in accordance with Section 914.7 *Special amusement buildings*, of the 2009 International Fire Code, as adopted for us within the City of Champaign.
4. Unroofed structures shall have “over-the-top” bracing ties and all ties, bracing and anchoring must be acceptable to the Code Official.
5. All surfaces shall have not less than a Class A interior finish or shall be treated with an approved flame spread retardant.
6. Fire extinguishers shall be provided in a number, type and location acceptable to the Code Official.
7. All electrical installations shall comply with the most currently adopted edition of the National Electrical Code.
8. All corridors, including those within haunted house mazes, shall be a minimum of three feet in width.
9. All means of egress shall be lighted during the times of operation.
10. Required exits shall be indicated with approved internally lit signs reading EXIT. Floor proximity exit signs and directional exit signs shall be provided where necessary.
11. There shall be a minimum of two approved exits and the maximum distance of travel to an exit shall not exceed 75 feet.
12. Every special amusement structure shall be located at level of exit discharge. An approved, automatic smoke detection and/or fire alarm systems shall be provided in accordance with Section 907.2.12 *Special amusement buildings*, of the 2009 International Fire Code, as adopted for use within the City of Champaign.14. The Illinois Accessibility Code must be followed in a Special Amusement structure.

## CHAPTER 9 – FIRE PROTECTION SYSTEMS

**AMEND:** 903.3.1.1.1 Exempt locations.

3. Generator, transformer, switchgear, and elevator equipment rooms used exclusively for such equipment and 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. Storage is prohibited in such rooms.

**ADD: 903.3.1.2.1 Balconies and decks.**

**Exception:** Exterior balconies, decks, ground floor patios, and roofs above that are of noncombustible construction.

**ADD: 903.6.3 Group R-2 Dormitories, Fraternities and Sororities**

An automatic sprinkler system shall be provided throughout Group R-2 occupancies where required in Chapter 46.

**AMEND: 903.3.7 Fire department connections.** The location of fire department connections shall be approved by the building official. Fire department connections are not required for systems having 20 sprinklers or less.

**AMEND: 905.1 Standpipes-General.** Standpipe systems shall be provided in new and existing buildings and structures in accordance with this section. Fire hose threads used in connection with standpipe systems shall be approved and shall be compatible with fire department hose threads. The location of fire department hose connections shall be approved. In buildings used for high-piled combustible storage, fire protection shall be in accordance with Chapter 23.

**AMEND: 906.1 Portable Fire Extinguishers -Where required.** Portable fire extinguishers shall be installed in the following locations:

1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

**Exceptions:**

1. In new and existing Group A, B and E occupancies equipped throughout with quick-response sprinklers, portable fire extinguishers shall be required only in locations specified in Items 2 through 6.
2. In Residential Group R-2, portable fire extinguishers shall be installed in the following hazardous areas only: boiler and fuel-fired heater rooms serving more than a single dwelling unit; laundries > 100 square feet outside of dwelling units; storage rooms > 100 square feet; and trash collection rooms or maintenance shops > 100 square feet.
3. Within 30 feet (9144 mm) of commercial cooking equipment.
4. In areas where flammable or combustible liquids are stored, used or dispensed.
5. On each floor of structures under construction, except Group R-3 occupancies, in accordance with Section 1415.1.
6. Where required by the sections indicated in Table 906.1.

7. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the code official.

**AMEND:** **907.5.2.5 Protective covers.** In Use Groups R-1 and R-2, manual fire alarm pull stations shall be provided with listed manual fire alarm box protective covers. In other Use Groups, the code official is authorized to require the installation of listed manual fire alarm box protective covers to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage. The protective cover shall be transparent or red in color with a transparent face to permit visibility of the manual fire alarm box. Each cover shall include proper operating instructions. A protective cover that emits a local alarm signal shall not be installed unless approved. Protective covers shall not project more than permitted by Section 1003.3.3

**DELETE:** **907.6.2.3.2 Employee work areas.**

**DELETE:** **907.6.2.3.3 Groups I-1 and R-1.**

**DELETE:** **Table 907.6.2.3.3 Visible and Audible Alarms.**

**DELETE:** **907.6.2.3.4 Group R-2.**

## CHAPTER 10 – MEANS OF EGRESS

**ADD:** **1003.2 Ceiling height.**

**Exception 9.** Existing corridors shall be permitted to have a ceiling height of not less than 7 feet in accordance with Section 4604.18.5.

**Exception 10.** Existing occupiable and habitable spaces shall be permitted to have a ceiling height of not less than 7 feet in accordance with Section 4604.27

**AMEND:** **1003.5 Elevation change.**

**Exception:**

2. A stair with a single riser or with two risers and a tread is permitted at locations not required to be accessible by Chapter 11 of the *International Building Code*, provided that the risers and treads comply with Sections 1009.4, the minimum depth of the tread is 13 inches (330 mm), and at least one handrail complying with Section 1012 is provided within 30 inches (762 mm) of the centerline of the normal path of egress travel on the stair or the floor finish material of treads shall contrast with the adjacent floor finish material.

- AMEND: 1006.3 Illumination emergency power.**  
**Item 5.** Exterior landings as required by 1008.1.6 that have 1 or more risers for exit discharge doorways in buildings required to have two or more exits.
- DELETE: 1007 Accessible means of egress.**
- ADD: 1007 Accessible means of egress.** Accessible means of egress shall be provided in accordance with Chapter 11 of the International Building Code (Illinois Accessibility Code) as adopted for use within the City of Champaign.
- DELETE: 1008.1.1 Size of doors. Exception 7.**
- DELETE: 1008.1.9.3 Locks and latches. Exception 2.**
- AMEND 1008.1.10 Panic and fire exit hardware.** Doors serving a Group H occupancy and doors serving rooms or spaces with an occupant load of 50 or more in a Group A or E occupancy shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware.
- Electrical room egress doors that are up to 25 feet from the nearest edge of the working space shall be equipped with panic hardware or fire exit hardware and shall swing in the direction of egress travel.
- AMEND: 1009.13 Stairway to roof.** In buildings four or more stories in height above grade, one stairway shall extend to the roof surface, unless the roof has a slope steeper than four units vertical in 12 units horizontal (33-percent slope). In buildings without an occupied roof, access to the roof from the top story shall be permitted to be by an alternating tread device or permanent ladder in accordance with Section 306.5 of the International Mechanical code.
- DELETE: 1011.3 Tactile Exit Signs.**
- AMEND: 1014.2 Egress through intervening spaces.**
- Item 4. Exception 2. Item 2.4**  
 There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by full height or minimum 36-inch-height (914 mm) fixed walls or permanently affixed metal guardrail that will maintain the required width and lead directly from the retail area to the exit without obstructions.
- ADD: 1021.1 Exits from stories.**

**Exception 6.** Private balconies and occupied roof decks in R occupancies are permitted to egress through the dwelling or sleeping unit when complying with all the following:

1. Common path of egress travel distance meets Section 1014.3.
2. Balcony and roof deck square feet area is no greater than one-half the gross square feet area of the individual dwelling unit.
3. All areas of the balcony and roof deck are visible from the access door.
4. Individual balconies and roof decks shall be separated from the adjoining roof area and from each other by permanent walls or guards complying with Section 1013. Doors or gates in the guards or walls are prohibited.

**ADD: 1022.1 Enclosure required.**

**Exception 8.** Stairways complying with Section 1016.1 Travel Distance Limitations, exceptions 3 or 4, are not required to be enclosed.

**ADD: 1022.7 Discharge identification.**

**Exception:** In buildings three stories and less above or below the level of exit discharge, a physical barrier is not required provided adequate visual discharge identification is provided. Visual identification shall consist of floor number signs, exit signs, and glass exit discharge doors, or other arrangements of visual identification approved by the building official.

**AMEND: 1022.8 Floor identification signs.** A sign shall be provided at each floor landing in exit enclosures connecting more than three stories designating the floor level, the terminus of the top and bottom of the exit enclosure and the color code identification of the stair or ramp. The signage shall also state the story of, and the direction to the exit discharge and the availability of roof access from the enclosure for the fire department. The sign shall be located inside the exit enclosure, centered 5 feet (1524 mm) above the floor landing in a position that is readily visible when the doors are in the open and closed positions. An additional sign stating the floor number and stair color shall be located on the occupant side of the exit enclosure. Signage shall meet the requirements set forth by the current Illinois Accessibility Code.

**1022.8.1 Signage requirements.** Stairway identification signs shall comply with all the following requirements:

1. The signs shall be a minimum size of 18 inches (457mm) by 12 inches (305mm).
2. The letters designating the identification of the stair enclosure shall be a minimum 1½ inches (38mm) in height.

3. The number designating the floor level shall be a minimum of 5 inches (127 mm) in height with a stroke width of 0.5 inch (12.7mm) and located in the center of the sign.

4. All other numbers and letters shall be 1 inch high (25.4mm).

5. Characters and their background shall have a nonglare finish. Characters shall contrast with their background.

6. The stairway identification sign shall have an identifying background color; Red, Green, Yellow, Blue, and White and colors listed shall run clockwise starting at the address side of the building as approved by the Fire Department. The background color shall be written on the sign.

7. When signs required by section 1022.8 are installed in interior exit enclosures of buildings subject to section 1024, the signs shall be made of the same material as required by Section 1024.4.

**AMEND:** **1024.1 General.** Approved luminous egress markings delineating the exit path shall be provided in buildings of Groups A, B, E, I, M, and R-1 having occupied floors located more than 120 feet above the lowest level of fire department vehicle access in accordance with Sections 1024.1 through 1024.5. Exceptions remain.

#### **CHAPTER 46 – CONSTRUCTION REQUIREMENTS for EXISTING BUILDINGS**

**AMEND:** **Section 4602.1 Definition. "Existing".** Buildings, facilities or conditions that are already in existence, constructed or occupied.

**AMEND:** **Table 4603.1 Change Section 4604.4 to 4604**

**AMEND:** **4603.3 Vertical openings.** Except for exit enclosures, interior vertical shafts, including but not limited to supplemental stairways, elevator hoistways, service and utility shafts, that connect two or more stories of a building, shall be enclosed or protected as specified in Sections 4603.3.1 through 4603.3.7.

**AMEND:** **4603.4 Sprinkler systems.** An automatic sprinkler system shall be provided in existing building in accordance with Section 4603.4.1 through 4603.4.3.

**ADD:** **4603.4.3 R-2 Dormitories, Fraternities and Sororities.** An automatic sprinkler system shall be provided throughout existing Group R-2 Dormitories, Fraternities and Sororities which have congregate living facilities with 16 or greater occupants.

**AMEND:** **4603.5 Standpipes.** Standpipe systems shall be provided in existing buildings and structures in accordance with Section 905. Fire hose threads used in connection with standpipe systems shall be approved and shall be compatible with fire department hose threads. The location of fire department hose connections shall be approved. In buildings used for high-piled combustible storage, fire protection shall be in accordance with Chapter 23.

**AMEND:** **4603.6 Fire alarm systems.** An approved fire alarm system shall be installed in existing buildings and structures in accordance with sections 4603.6.1 through 4603.6.7 and provide occupant notification in accordance with section 907.6 unless other requirements are provided by other sections of the code.

**Exception:** Occupancies with an existing, previously approved fire alarm system. Single- and multiple-station smoke alarms do not qualify as a fire alarm system.

**AMEND:** **4603.7.1 Where required.** Existing Group R occupancies and dwellings not classified as Group R occupancies not already provided with single-station smoke alarms shall be provided with single-station smoke alarms. Installation shall be in accordance with Section 907.2.11, except as provided in Section 4603.7.2 and 4603.7.3.

**AMEND:** **4603.7.3 Power Source.**

Exceptions:

1. Smoke alarms in bedrooms are permitted to be solely battery operated in existing buildings where no construction is taking place.
2. Smoke alarms are permitted to be solely battery operated in buildings that are not served from a commercial power source.
3. Smoke alarms in bedrooms are permitted to be solely battery operated in existing areas of buildings undergoing alterations or repairs that do not result in the removal of interior walls or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for building wiring without the removal of interior finishes.

**ADD:** **4603.8 Protection from Hazards.** Hazardous areas described in the following table shall be protected as indicated. Where sprinkler protection without fire-rated separation is used, areas shall be separated from other spaces by smoke partitions.

HAZARDOUS AREA DESCRIPTION	SEPARATION/PROTECTION
Boiler and fuel-fired furnace & water heater rooms serving more than a single dwelling unit	1 hour or sprinklers
Laundries > 100 square feet outside of dwelling units	1 hour or sprinklers*
Storage rooms > 100 square feet	1 hour or sprinklers
Trash collection rooms > 100 square feet	1 hour or sprinklers
Maintenance Shops > 100 square feet	1 hour or sprinklers

\*Where sprinklers are provided, separation shall not be required.

**AMEND:** **4604.1 General.** Means of egress including exit enclosures in existing buildings shall comply with the minimum requirements of Chapter 10 except as amended in Sections 4604.2 through 4604.26.

**AMEND:** **4604.6.1 Height of guards.** Guards shall form a protective barrier not less than 42 inches (1067 mm) high.

**Exceptions:**

1. Existing guards on the open side of stairs shall be not less than 30 inches (760 mm) high.
2. Existing guards within dwelling units shall be not less than 36 inches (910 mm) high.
3. Existing guards in assembly seating as approved by the code official.

**ADD:** **4604.18.5 Corridors ceiling height.** Existing corridors shall be permitted to have a ceiling height of not less than 7 feet.

**AMEND:** **4604.23 Egress path markings.** Existing buildings of Groups A, B, E, I, M, and R-1 having occupied floors located more than 120 feet above the lowest level of fire department vehicle access shall be provided with luminous egress path markings in accordance with Section 1024. Exception remains.

**ADD:** **SECTION 4604.24 NUMBER OF EXITS.** Every occupied story shall be provided with no less than two approved independent exits.

**Exceptions:** A single exit is acceptable under any one of the following conditions:

1. Use groups B, M, S, F are permitted to be served by a single exit when three stories or less, above grade, and a maximum of 3, 500 square feet per floor.

2. Use groups B, M, S, F are permitted to be served by a single exit for up to five stories, above grade, and a maximum of 3,500 square feet per floor, when one of the following criteria is met:
  - A. Where the building is equipped throughout with an automatic fire suppression system and an automatic fire alarm system with smoke detectors located in all corridors, lobbies and common areas, or:
  - B. Where the building is provided with an automatic fire alarm system and the exit is a smokeproof enclosure or pressurized stairway, or:
  - C. Where an existing fire escape conforming to Section 4604.17 is provided in addition to the single exit.
3. In stories that require only one exit in accordance with the requirements of Section 1021.
4. In buildings of Use Group R-3.
5. In buildings used exclusively for residential multiple-family dwellings having more than two dwelling units (apartments), a single exit up to 3 stories is permissible when meeting all of the following conditions:
  - A. 30-minute fire rating between dwelling units
  - B. One-hour fire rated exit enclosure
  - C. Manual fire alarms if more than 12 dwelling units.
  - D. Emergency lighting if more than 12 dwelling units.
  - E. 5.7 square feet emergency egress windows in all sleeping rooms.
  - F. Exit access corridors serving the exit must provide a one-hour fire rating.
  - G. Not more than 35 feet of travel distance to the exit from the dwelling unit entrance door.

**ADD:** **4604.25 Emergency Egress Windows.** Every sleeping room below the fourth story of Use Group R occupancies shall have at least one operable window or exterior door approved for emergency egress or rescue or shall have access from the inside to a full clear opening without the use of separate tools, special knowledge, keys or excessive force. Where windows are provided as a means of egress or rescue, they shall have a sill height of not more than 44 inches (1118 mm) above the floor.

**ADD:** **4604.25.1 Minimum net clear opening dimensions.** The minimum net clear opening height dimension shall be 22 inches (559 mm). The minimum net clear opening width dimension shall be 20 inches (508 mm). The net clear opening area shall in no case be less than 4 square feet (0.4 meters squared).

**ADD:** **4604.25.2 Minimum total glass area.** Each egress window from sleeping rooms must have a minimum total glass area of not less than 5 square feet (0.5 meters squared) in the case of ground floor windows and not less than 5.7 square feet (0.53 meters squared) in all other cases.

**Exception:** Buildings equipped throughout with a complete automatic fire suppression system.

**Exception:** Owner-occupied, single-family residences.

**ADD:** Table 4604.26 Exit Enclosure Exceptions.

	<i><b>EXIT ENCLOSURE EXCEPTIONS</b></i>
<u><b>OCCUPANCY</b></u>	<u><b>EXCEPTION CONDITIONS a,b</b></u>
<b>BUSINESS</b>	Where connecting not more than two floor levels and less than 3,500 square feet per floor, or where connecting not more than three floor levels and the structure is equipped throughout with an approved automatic sprinkler system.
<b>EDUCATION</b>	Where connecting not more than two floor levels and the structure is equipped throughout with an approved automatic sprinkler system.
<b>FACTORY – INDUSTRIAL, STORAGE</b>	Where connecting not more than two floor levels, or where connecting not more than three floor levels and the structure is equipped throughout with an approved automatic sprinkler system.
<b>MERCANTILE</b>	Where connecting not more than two floor levels and less than 2,000 square feet per floor, or where connecting not more than two floor levels and the structure is equipped throughout with an approved automatic sprinkler system.
<b>RESIDENTIAL – HOTELS</b>	Where connecting not more than two floor levels and the structure is equipped throughout with an approved automatic sprinkler system.
<b>RESIDENTIAL – APARTMENT</b>	Where connecting not more than two floor levels with not more than four dwelling units per floor, or where connecting not

<p><b>RESIDENTIAL – 1 &amp; 2 FAMILY DWELLINGS</b></p> <p>.</p> <p><b>ALL USE GROUPS</b></p>	<p>more than three floor levels with not more than four dwelling units per floor and the structure is equipped throughout with an approved automatic sprinkler system.</p> <p>In every case</p> <p>An exit stair enclosure door is not required at the level of exit discharge in buildings not more than three stories above grade when 50% of the exit stair enclosures are permitted to egress through a lobby protected by an automatic sprinkler system in accordance with IFC Section 1027.</p>
<hr/> <p><b>Note a – 1 square foot = 0.093m<sup>2</sup></b>  <b>Note b – These conditions <u>do not</u> apply to buildings with only one exit.</b></p>	<hr/>

**ADD:**           **4604.27 Ceiling height.** Existing occupiable and habitable spaces shall be permitted to have a ceiling height of not less than 7 feet.

**CHAPTER 47 – REFERENCED STANDARDS**

**DELETE:**       References to International Electric Code, International Plumbing Code and International Property Maintenance Code.

**ADD:**           Currently adopted Electrical Code, Plumbing Code and Chapter 22 of the Champaign Municipal Code as adopted for use in the City of Champaign.