

Section 1: 5-3-1: be amended to read as follows:

- A. Code Adopted: There is hereby adopted by reference as if fully set out herein, that certain code known as the International Fire Code 2024 edition, prepared and published by the International Code Council, together with the additions, insertions, deletions and changes hereinafter set forth, one (1) copy which is available for inspection and on file in the office of the Village Clerk. This code shall govern the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion.

Section 2: 5-3-2: be amended to read as follows:

- B. Amendments: The following additions, insertions, deletions and changes are hereby made to the International Fire Code, 2024 edition:

SECTION 101
ADMINISTRATION - GENERAL

101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the Fire Code of the Village of Elk Grove Village, hereinafter referred to as "this code."

101.2.1 is amended to read as follows:

101.2.1 Appendices. The appendices B, C, D, E, F, G, H, I, J, K, L, M, N, and O are to be considered "shall" requirements, not "should" information.

101.5.1 is added to read as follows:

101.5.1 Conflicting Code Information. In the event, that this code or any portion thereof shall conflict with another code or portion thereof on the same subject matter the more stringent code shall apply.

101.6 is added to read as follows:

101.6 NFPA Appendices: The appendices of all NFPA standards are to be considered as part of each standard and are considered “shall” requirements, not “should” information.

SECTION 102
APPLICABILITY

102.3 is amended to read as follows:

102.3 Change of use or occupancy. A change of use or occupancy shall not be made to any building or tenant space without approval of the Fire Code Official. The Fire Code Official shall certify that such building or tenant space meets the provisions of law governing building construction for the proposed new use or occupancy. The building is required to comply with the fire protection requirements of this code.

Exceptions to 102.3 are deleted.

SECTION 105
PERMITS

105.3.6.1 is added to read as follows:

105.3.6.1 Compliance With Code: The Fire Code Official reserves the rights to send out any plan reviews to a third-party agency because of the level of difficulty or availability of personnel to perform the review. The third-party agency shall invoice the permit holder directly for the services rendered.

105.3.6.2 is added to read as follows:

105.3.6.2 Compliance: No building or structure shall be constructed or occupied if said building or structure is not in compliance with this ordinance. An occupancy permit shall be issued by the Village of Elk Grove Village Community Development Department prior to occupancy when it is determined the building or structure has been constructed in compliance with this ordinance.

105.3.9 is added to read as follows:

105.3.9 Approval of occupancy. The Fire Code Official shall approve occupancy only if, after inspection, he/she finds that such building or tenant space complies with the provisions of this Ordinance and all other Ordinances of the Village of Elk Grove Village, and that said building or tenant space has been completed in accordance with the approved plans and documents filed in support of the Application for Building Permit relating to said building or tenant space.

SECTION 109
INSPECTIONS

109.5 is added to read as follows:

109.5 Inspection and Enforcement process: In its efforts to ensure that fire protection safety for its residents and businesses of the Village of Elk Grove Village, the Inspectional Services Division shall inspect all buildings in the Village for compliance with the fire safety codes of the Village on a regular basis. The Division S.O.P. shall establish the process by which the Division shall inspect and issue citations for failure to comply with the Village fire safety codes.

SECTION 113
VIOLATIONS

113.4 is amended to read as follows:

113.4 Violation penalties. Persons who shall violate a provision of this code or shall 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 provisions of this code, shall be guilty of an ordinance violation, punishable by a fine of not less than fifty (\$50.00) dollars nor more than seven hundred and fifty (\$750.00) dollars, plus all legal fees and all costs caused by enforcement. Such fees and costs shall include, but not be limited to, staff costs of inspection or re-inspection, legal fees, and staff cost of enforcement. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

SECTION 114
STOP WORK ORDER

114.4 is amended to read as follows:

114.4 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 liable to a fine of not less than fifty (\$50.00) dollars or more than seven hundred and fifty (\$750.00) dollars.

SECTION 115
UNSAFE STRUCTURES OR EQUIPMENT

115.8 is added to read as follows:

115.8 Fire watch. Where conditions exist that are deemed hazardous to life and property by the Fire Code Official, a fire watch shall be implemented. The Fire Code Official shall determine the number of personnel required and the duration necessary for the fire watch. A fee of seventy-five (\$75.00) dollars per hour for each Village of Elk Grove Village personnel assigned to the fire watch shall be charged. Conditions that may require a fire watch shall include, but are not limited to, the following:

- A. Newly constructed building opened for occupancy before completion of the fire safety equipment and supervision;

- B. Building in which the fire safety equipment and supervision are placed out-of-service and will not be restored within two (2) hours;
- C. Building with an occupancy load greater than the posted numbers;
- D. Special programs or events where there will be space for standing room over the seating area and the exits will handle both seated and standing people; and
- E. Situations where the fire load is greater than the normal day-to-day operation.

SECTION 202
GENERAL DEFINITIONS

Board of Trustees is added to read as follows:

BOARD OF TRUSTEES: The corporate authorities of the Village of Elk Grove Village.

Building Code is added to read as follows:

BUILDING CODE: The Building Code and its amendments as adopted by the Board of Trustees of the Village of Elk Grove Village.

Certificate of Use and Occupancy is added to read as follows:

CERTIFICATE OF USE AND OCCUPANCY: The certificate issued by the Building Official which, permits the use of a building or tenant space in accordance with the approved plans and specifications and which certifies compliance with the provisions of law for the use and occupancy of the building or tenant space in its several parts together with any special stipulations or conditions of the building permit.

Change of Occupancy is amended to read as follows:

CHANGE OF OCCUPANCY: The change in purpose for which a building or part thereof is used or intended to be used including a change in tenant or tenant space.

Change of Use is added to read as follows:

CHANGE OF USE: An alteration by change of use in a building or tenant space heretofore existing to a new use group which imposes other special provisions of law governing building construction, equipment or means of egress.

Fire Code Official is amended to read as follows:

FIRE CODE OFFICIAL: The designated Fire Marshal of the Village of Elk Grove Village or their subordinates.

Fire Load is added to read as follows:

FIRE LOAD: A measurement of the amount of heat energy that could be released by the complete combustion of all combustible materials in a given area.

Fire Watch is amended to read as follows:

FIRE WATCH: A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified personnel or the Village of Elk Grove Village Fire Department, for the purpose of identifying and controlling fire hazards, detecting early signs of unwanted fire, and raising an alarm of fire and notifying the fire department.

Fireworks, 1.4G is amended to read as follows:

FIREWORKS, 1.4G: (Formerly known as Class C, Common Fireworks.) Small fireworks devices including hand-held wire sparklers containing restricted amounts of pyrotechnic composition designed primarily to produce visible or audible effects by combustion. Such 1.4G fireworks which comply with the construction, chemical composition and labeling regulations of the DOT for Fireworks, UN 0336, and the U.S. Consumer Product Safety Commission as set forth in CPSC 16 CFR: Parts 1500 and 1507 are not explosive materials for the purpose of this code.

**SECTION 301
GENERAL**

301.3 is added to read as follows:

301.3 Compliance. Whenever and wherever, within the jurisdiction of the Fire District a condition is found in any building, lot or premises, that requires correction or removal for the protection of the occupants or the public, the Fire District Fire Code Official, shall order such conditions corrected or removed and the owner or occupant of such buildings, lots, or premises shall comply with such order. The appropriate jurisdictions Building Official and Fire Inspector will refer to the most applicable building and fire code sections of the current code adopted.

**SECTION 307
OPEN BURNING, RECREATIONAL FIRES, AND PORTABLE OUTDOOR
FIREPLACES**

307.4.1 is amended to read as follows:

307.4.1 Bonfires. A bonfire shall not be conducted within fifty (50) feet of a structure or combustible material. Conditions that could cause said fire to spread to within fifty (50) feet of a structure or combustible material shall be eliminated before ignition. Bonfires shall not exceed four (4) feet in diameter and/or sixteen (16) square feet. Bonfires may only contain cut, natural wood.

307.4.2 is amended to read as follows:

307.4.2 Recreational fires. Recreational fires shall not be conducted within twenty-five (25) feet of a structure or combustible material. Conditions that could cause a fire to spread within twenty-five (25) feet of a structure or combustible material shall be eliminated before ignition. Recreation fires shall be contained in a manufactured, outdoor fireplace/pit. Containers for recreational fires shall be no greater than thirty (30") inches in diameter and/or 6.25 square feet. Recreational fires may only contain cut, natural wood that will fit within the confines of the container.

SECTION 308
OPEN FLAMES

308.1.10.6 is added to read as follows:

308.1.10.6 Open-flame cooking devices: Charcoal burners and other open-flame cooking devices shall not be operated on combustible balconies or within ten (10) feet of combustible construction.

Exceptions:

1. One-and two-family dwellings were one of the following apply:
 - (1) Where buildings, balconies, and decks are protected by an automatic sprinkler system.
 - (2) LP-gas cooking devices having LP-gas containers with a water capacity not greater than 2 ½ pounds [nominal 1 pound (0.454 kg) LP-gas capacity].
 - (3) When an open-flame cooking device is attended by an adult and a minimum 10 lb. dry chemical (class B or class ABC) fire extinguisher is located within ten (10) feet of the cooking device.
 - (4) When an LP-gas fueled cooking device is attended by an adult and a minimum 10 lb. dry chemical (class B or class ABC) fire extinguisher is located within ten (10) feet of the cooking device.

SECTION 309
POWERED INDUSTRIAL TRUCKS AND EQUIPMENT

309.5 is amended to read as follows:

309.5 Fire extinguishers. Battery charging areas shall be provided with a fire extinguisher complying with section 906 having a 4-A:60-B:C rating within twenty (20) feet of the battery charger.

SECTION 311
VACANT PREMISES

311.2.2 is amended to read as follows:

311.2.2 Fire Protection. Fire alarm, fire pumps, fire suppression, and standpipe systems; along with fire extinguishers shall be maintained in an operable condition at all times.

Exceptions to 311.2.2 are deleted.

SECTION 312 VEHICLE IMPACT PROTECTION

312.4 is added to read as follows:

312.4 Gas Meter Protection: Where deemed necessary by the Fire Code Official, guards shall be installed around gas meters to protect against vehicular damage.

312.5 is added to read as follows:

312.5 Electrical Vehicle Charger Protection: Where deemed necessary by the Fire Code Official, guards shall be installed around electrical vehicle chargers to protect against vehicular damage.

SECTION 320 LITHIUM-ION AND LITHIUM-METAL BATTERY STORAGE

320.4.4 is added to read as follows:

320.4.4 Storage of Lithium Metal or Lithium-Ion Batteries: Areas associated with the collection or storage of lithium metal or lithium-ion batteries shall comply with this Section.

Exceptions:

1. Areas within a facility that are operated in accordance with procedures that provide for the state of charge of the lithium metal or lithium-ion batteries to be thirty (30%) percent or less. Procedures and test reports documenting how the thirty (30%) percent or less state of charge is established and how fire protection levels are determined shall be provided to the Fire Code Official for review and approval
2. Areas where fire and fault condition testing conducted or witnessed and reported by an approved testing laboratory is provided showing that a fire involving the batteries in storage will be limited to the design area of an automatic sprinkler system installed in accordance with NFPA 13 and will not adversely impact occupant egress from the building or adversely impact adjacent stored materials or the building structure.
3. Batteries in original retail packaging that are rated at 300 watt-hours or less for lithium-ion batteries or contain 25 grams or less of lithium metal for lithium metal batteries.

320.4.4.1 is added to read as follows:

320.4.4.1 Collection. All areas located indoors in any occupancy where used lithium metal or lithium-ion batteries are collected from employees or the public shall be provided with open-top noncombustible containers or containers designed to preclude the release of contents resulting from battery thermal runaway or containers approved for battery collection activities.

1. Containers shall not exceed 7.5 ft³ (0.21 m³) in size or 55 gallons (113.6 L)
2. Containers shall have a minimum of 3 ft (0.9 m) of open space from other battery collection containers and combustible materials and shall be located a minimum of 5 ft (1.5 m) from exits from the room, space, or building.
3. Where combustible materials are located within the space between collection containers, the containers shall be spaced a minimum 10 ft (3 m) apart.

320.4.4.2 is added to read as follows:

320.4.4.2 Collection and Storage Locations. Batteries collected or stored other than those in collection containers complying with Section 320.4.4.1 shall be stored in accordance with one or more of the following methods provided for in accordance with one or more of the following methods. Battery terminals shall be protected either through battery design methods or a protective packaging method to prevent short circuits of the battery.

1. In rooms or spaces separated from the remainder of the building areas by fire barriers with a 3-hour fire resistance rating and with horizontal assemblies with a 3-hour fire resistance rating constructed in accordance with the local building code. The room or space shall be protected by a radiant energy detection system installed in accordance with NFPA 72 and shall be protected by an automatic sprinkler system designed and installed in accordance with NFPA 13.
2. Batteries shall be permitted to be stored in approved prefabricated portable buildings or containers that are constructed with 3-hour fire resistance ratings and provided with a radiant-energy detection system installed in accordance with NFPA 72 and an approved automatic fire suppression system installed in accordance with NFPA 13.
3. In metal drums storage containers with batteries separated from each other by vermiculite or other approved material packaged to prevent damage that could lead to a thermal event or in containers approved for battery collection and storage activities.
 - 3.1. Each area containing such metal drums or approved containers shall not exceed 900 ft² (83.61 m²) in area and shall be separated from other battery storage areas by a minimum of 10 ft (3 m).
 - 3.2. The collection and storage area shall be protected by a radiant-energy detection system installed in accordance with NFPA 72 and an approved automatic fire suppression system installed in accordance with NFPA 13.
4. In containers approved for use in transportation or approved by the Fire Code Official that will prevent an event from propagating beyond the container.
 - 4.1. Each area containing the approved transportation containers shall not exceed 900 ft² (83.61 m²) in area and shall be separated from other battery storage areas by a minimum of 10 ft (3 m).

- 4.2. The storage area shall be protected by a radiant energy detection system installed in accordance with NFPA 72 and an approved automatic fire suppression system installed in accordance with NFPA 13.

320.4.4.3 is added to read as follows:

320.4.4.3 Prevention and Mitigation. A plan that provides for the prevention of fire incidents and includes early detection mitigation measures shall be provided to the Fire Code Official for review and approval. The owner is required to file the plan annually.

320.4.4.4 is added to read as follows:

320.4.4.4 Explosion Control. The potential for a deflagration involving the off-gassing of flammable gases during a thermal runaway shall be analyzed and explosion protection shall be installed in accordance with Section 911 if the potential exists. A written hazard analysis prepared by a fire protection engineer shall be submitted to the Fire Code Official for review and approval.

320.4.4.5 is added to read as follows:

320.4.4.5 Outdoor Storage Location. Outdoor storage locations for lithium metal or lithium-ion batteries shall comply with the following:

1. Individual pile sizes shall be limited to 900 ft² (83.61 m²) with a storage height not to exceed 10 ft (3 m) in an area separated from other piles by 10 ft (3 m).
2. Batteries shall be stored in non-combustible containers or approved containers designed for storage of the batteries.
3. Piles located outdoors shall be separated by a minimum 20 ft (6.1 m) from the following exposures:
 - 3.1. Lot lines
 - 3.2. Public ways
 - 3.3. Buildings
 - 3.4. Other storage
 - 3.5. Hazardous materials
 - 3.6. Other exposure hazards

Exception: Clearances shall be permitted to be reduced to 3 ft (0.9 m) when a 3-hour freestanding fire barrier, suitable for exterior use, and extending 5 ft (1.5m) above and extending 5 ft (1.5m) beyond the physical boundary of the pile is provided to protect the exposure.

320.4.4.6 is added to read as follows:

320.4.4.6 Weather protection. Where weather protection is provided for sheltering outdoor battery storage areas, such areas shall be considered outdoor storage where the weather protection structure complies with 1 through 3.

1. Walls shall not obstruct more than one side of the structure

Exception: Walls shall be permitted to obstruct portions of multiple sides of the structure, provided that the obstructed area is not greater than 25 percent of the structure's perimeter.

2. The distance from the structure to buildings, lot lines, public ways or means of egress to a public way shall be not less than the distance required for an outside hazardous material storage or use area without weather protection.
3. The overhead structure shall be of approved noncombustible construction with a maximum area of 1,600 square feet (148.6 m²).

SECTION 503 FIRE APPARATUS ACCESS ROADS

503.1 is amended to read as follows:

503.1 Where required. Fire apparatus access roads shall be provided and maintained in accordance with sections 503.1.1 through 503.1.3. The Fire Code Official shall require and designate public and private fire lanes as deemed necessary for effective and efficient operation of fire apparatus.

Exceptions to 503.1.1 are deleted.

503.1.1.1 is added to read:

503.1.1.1 Public/Private access for fire apparatus. Public or private access, for all occupancy classifications with the exception of R-3 shall be provided for fire apparatus when the building is three stories or higher. Fire lane access for an aerial ladder and/or mechanically elevated mechanism shall be required to cover three-quarters of all exterior building walls.

503.2.1 is amended to read:

503.2.1 Dimensions. The minimum width of fire lanes shall be twenty (20) feet and an inside radius of forty-five (45) feet shall be provided to accommodate vehicles when turning. The fire lanes shall be placed twenty-five (25) feet from the building to the edge of the fire lane or thirty-five (35) feet to the center of the fire lane to the building. Fire lanes shall have an unobstructed vertical clearance of not less than fifteen (15) feet. The road shall be constructed with the capability to handle 80,000 pounds (weight of fire apparatus).

503.2.4 is amended to read:

503.2.4 Turning radius. Fire lane turn around shall have an inside radius of forty-five (45) feet and shall have a driving area width of twenty-seven (27) feet in order to accommodate vehicles.

503.2.5 is amended to read as follows:

503.2.5 Dead ends. Dead end fire apparatus access roads in excess of one hundred and fifty (150) feet in length shall be provided with an approved area for turning around fire apparatus. All cul-de-sacs shall have a minimum diameter of ninety (90) feet.

503.3 is amended to read as follows:

503.3 Marking. All fire lanes shall be posted with the appropriate signage. Where required by the Fire Code Official, approved signs or other approved notices or markings that include the words “NO PARKING—FIRE LANE” shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.

SECTION 505 PREMISES IDENTIFICATION

505.1 is amended to read as follows:

505.1 Address Identification. New and existing buildings and tenant spaces 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. Addresses on glass shall be white. Address numbers shall be Arabic numerals or alphabet letters. Exterior numbers shall be a minimum of six (6) inches high. Interior tenant spaces shall be a minimum of four (4) inch high numbers. Where access is by means of a private road and the building cannot be viewed from public way, a monument, pole, or other sign or means shall be used to identify the structure.

SECTION 506 KEY BOXES

506.1 is amended to read as follows:

506.1 Where required. All newly constructed buildings or tenant spaces are required to install an approved key box in an accessible location approved by the Fire Code Official and shall contain keys and other items necessary to provide the fire department access to the building at locked points of ingress and egress whether on the interior or exterior of such building, to include building systems, controls and devices, such as but not limited to: Fire alarm systems, automatic fire sprinkler systems, elevator controls, electrical rooms and mechanical rooms.

Exception: Key boxes are not required for single-family detached dwellings or townhomes.

506.1.3 is added to read as follows:

506.1.3 Type of key box. The type of key box approved for use by the Village of Elk Grove Village is the Knox box brand key vault/rapid entry system. The Village of Elk Grove Village shall be in complete control of key box and rapid entry system authorization and operation. The Village of Elk Grove Village shall not be required to purchase or sell any key box or rapid entry system products. The size of the required Knox box will be based upon the number of keys to be secured in the box and will be at the discretion of the Fire Code Official.

506.1.4 is added to read as follows:

506.1.4 Location and number of key box(s): The installation location of the key boxes shall be approved by the Fire Code Official. The key boxes shall be mounted at the height of five (5) feet above the finished floor. The total number of key boxes required shall be determined by the Fire Code Official.

506.1.5 is added to read as follows:

506.1.5 Outside Audible/Visual Strobe. A weatherproof clear outside audible/visual strobe shall be installed over all key boxes. All outside strobes shall be seventy-five (75) candela minimum and be latching.

SECTION 507

FIRE PROTECTION WATER SUPPLIES

507.2.3 is added to read as follows:

507.2.3 Fire Hydrant Water Supply. The fire hydrants shall be on a domestic water system. The fire hydrant water supply shall not be supplied by the fire protection system(s).

507.5.1 is amended to read as follows:

507.5.1 Where required. Fire hydrants shall be located along a fire apparatus access road so that no portion of a building or facility will be more than three hundred (300) feet of travel from any hydrant. Additional hydrants and mains shall be provided where required by the Fire Code Official.

Exceptions to 507.5.1 are deleted.

507.5.1.1 is amended to read as follows:

507.5.1.1 Hydrant for standpipe systems. Buildings equipped with a standpipe system installed in accordance with Section 905 shall have a fire hydrant within fifty (50) feet of the fire department connections.

Exceptions to 507.5.1.1 are deleted.

507.5.1.2 is added to read as follows:

507.5.1.2 Hydrant for fire department connections. Buildings equipped with a fire sprinkler system installed in accordance with Section 903 shall have a fire hydrant within fifty (50) feet of the fire department connections. The fire hydrant shall be located no more than twenty (20) feet

from the curb line. The fire department connection shall be located no more than fifty (50) feet from the curb line.

507.5.7 is added to read as follows:

507.5.7 Fire hydrant installation. Fire hydrants shall be installed so that:

1. Access: Access to fire hydrants shall be by any approved roadway as specified by this code.
2. Distance to Roadways: Fire hydrants shall be located approximately twenty (20) feet from roadways.
3. Pumper Outlet Direction: Each fire hydrant shall have the pumper (steamer) connection facing the primary roadway and shall be accessible so that a connection can be made between the hydrant and the apparatus located in the street with twenty-five (25) feet of suction hose.
4. Hydrant Outlet Location: Fire hydrant outlets shall be a minimum of eighteen (18) inches and no more than thirty-six (36) inches above the finished grade.
5. Hydrant Type: Fire hydrants used in conjunction with water supplies shall be of a type acceptable to the Village of Elk Grove Village.

SECTION 509

FIRE PROTECTION AND UTILITY EQUIPMENT IDENTIFICATION AND ACCESS

509.3 is added to read as follows:

509.3 Access to fire equipment: In multiple single-family dwellings where there is no common area, fire alarm panels and sprinkler system valves shall be located in a room accessible only to Village Fire Department personnel from the exterior of the building. The fire department shall have access at any time to such equipment without entering an individual dwelling unit.

509.4 is added to read as follows:

509.4 Fire pump and/or automatic sprinkler system riser rooms: Access to the fire pump and/or automatic sprinkler system riser rooms shall be on the main level of discharge and be accessible from the exterior and interior of the building.

509.5 is added to read as follows:

509.5 Rooms containing fire protection control equipment. Rooms containing fire protection control equipment shall be provided with direct access from the exterior and interior of the building. All new and existing entrance doors shall bear a sign on the exterior of the door with four inch (4") high letters indicating "FACP", "Sprinkler Room", "Fire Pump". Additional signage may

be required in cases where the riser serves more than one (1) tenant. New and existing rooms shall contain emergency lighting. Rooms designated as FACP, Sprinkler Rooms, or Fire Pump Rooms shall not be used for any other purpose.

509.6 is added to read as follows:

509.6 Riser Access. All new and/or modified sprinkler risers and associated equipment shall be located in a separate room with a minimum of one (1) hour construction.

SECTION 510

EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEMS

Exceptions to 510.1 are deleted.

510.1.1 is added to read as follows:

510.1.1 Radio Frequency Coverage for Police & Fire. Emergency responder communications enhancement system (ERCES) systems shall support specific radio frequency and bandwidths for the Police & Fire Department's. Currently, frequencies that need to be amplified are:

- 150.0000 MHz to 174.0000 MHz (VHF High Band)
- 800 MHz public safety frequencies.

510.1.2 is added to read as follows:

510.1.2 System Radio Frequencies. The emergency responder communications enhancement system (ERCES) shall be capable of transmitting all public safety radio frequencies assigned to the Village of Elk Grove Village and be capable of using any modulation technology. Systems shall be capable of upgrade, to allow for instances where the Village of Elk Grove Village changes or adds system frequencies, in order to maintain radio system coverage as originally designed.

Section 511 is added to read as follows:

SECTION 511

EMERGENCY NOTIFICATION

511.1 is added to read as follows:

511.1 Emergency notification. It shall be the responsibility of the property owner and/or owner representative to provide current contact persons and telephone numbers of persons to be notified in case of an emergency involving their property and/or building.

SECTION 604

ELEVATOR OPERATION, MAINTENANCE AND FIRE SERVICE KEYS

604.8 is added to read as follows:

604.8 Elevator phone. All required emergency elevator phones shall directly dial the Village of Elk Grove Village's Communications Center via the phone number designated by the Fire Code Official.

SECTION 606

COMMERCIAL COOKING EQUIPMENT AND SYSTEMS

606.5 is added to read as follows:

606.5 Hood system suppression. All hood and duct extinguishing systems shall comply with the U.L. Standard # 300 and be supervised by the buildings fire alarm system.

SECTION 901

FIRE PROTECTION SYSTEMS - GENERAL

901.6.3 is amended to read as follows:

901.6.3 Records. All contractors who preform inspections, testing, and/or maintenance required by referenced standards of the International Fire Code shall submit the records of said inspections, test, and/or maintenance to the Village in such form and such method approved by the Fire Code Official. The owner of the subject property being inspected or tested shall be additionally responsible for its contactor who performs the test or inspections to submit same to the Village in such form and such method approved by the Fire Code Official.

SECTION 902

DEFINITIONS

Total Area is added to read as follows:

TOTAL AREA. For purposes of calculating total square feet and fire areas, the total floor area includes mezzanines and basements contained within the surrounding exterior walls of the building on all floors and levels, which are added together. The area included within the surrounding exterior walls of a building including roof overhangs, extensions, and all enclosed extensions, which are also added to the calculation. Areas of a building not provided with surrounding walls shall be included within the building area if such areas are included within the horizontal projection

of the roof or floor above. Interior walls, including fire walls, and party walls, shall not be considered as walls which divide a structure into two or more separate buildings, but a structure containing such interior walls shall be considered as one building for the purpose of this section.

SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

903.2.1.1 is amended to read as follows:

903.2.1.1 Group A-1: An automatic sprinkler system shall be provided throughout all Group A-1 occupancies.

903.2.1.2 is amended to read as follows:

903.2.1.2 Group A-2: An automatic sprinkler system shall be provided throughout all Group A-2 occupancies.

903.2.1.3 is amended to read as follows:

903.2.1.3 Group A-3: An automatic sprinkler system shall be provided throughout all Group A-3 occupancies.

903.2.1.4 is amended to read as follows:

903.2.1.4 Group A-4: An automatic sprinkler system shall be provided throughout all Group A-4 occupancies.

903.2.1.5 is amended to read as follows:

903.2.1.5 Group A-5: An automatic sprinkler system shall be provided throughout all Group A-5 occupancies.

903.2.1.6 is amended to read as follows:

903.2.1.6 Assembly occupancies on roofs: Where an occupied roof has a Group A occupancy with any occupant load, all floors between the occupied roof and the level of exit discharge shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

Exceptions to 903.2.1.6 are deleted.

903.2.1.8 is added to read as follows:

903.2.1.8 All Group A Occupancies: Quick response sprinklers shall be provided throughout all Group A occupancies.

903.2.2.1 is added to read as follows:

903.2.2 Group B: An automatic sprinkler system shall be provided throughout all Group B occupancies.

Sections 903.2.2.1 and 903.2.2.2 are deleted.

903.2.3 is amended to read as follows:

903.2.3 Group E: An automatic sprinkler system shall be provided throughout all Group E occupancies.

Exceptions to 903.2.3 are deleted.

903.2.4 is amended to read as follows:

903.2.4 Group F-1: An automatic sprinkler system shall be provided throughout all Group F-1 occupancies. All speculative warehouse buildings with a ceiling roof height of twenty-five (25) feet or greater must be protected with an ESFR fire sprinkler system or a hydraulically calculated system for class IV commodities with rack storage calculated to the greatest storage height.

903.2.5 is amended to read as follows:

903.2.5 Group H: An automatic sprinkler system shall be provided throughout all Group H occupancies.

903.2.5.1 is deleted.

903.2.5.2 is deleted.

Table 903.2.5.2 is deleted.

903.2.5.3 is deleted.

Exceptions to 903.2.6 are deleted.

903.2.7 is amended to read as follows:

903.2.7 Group M: An automatic sprinkler system shall be provided throughout all Group M occupancies.

903.2.8 is amended to read as follows:

903.2.8 Group R: An automatic sprinkler system shall be provided throughout all Group R occupancies.

903.2.9 is amended to read as follows:

903.2.9 Group S-1: An automatic sprinkler system shall be provided throughout all Group S-1 occupancies. All speculative warehouse buildings with a ceiling roof height of twenty-five (25) feet or greater must be protected with an ESFR fire sprinkler system or a hydraulically calculated system for class IV commodities with rack storage calculated to the greatest storage height.

903.2.9.1 is amended to read as follows:

903.2.9.1 Repair garages. An automatic sprinkler system shall be provided throughout all repair garage occupancies.

903.2.9.2 is amended to read as follows:

903.2.9.2 Bulk storage of tires. Buildings and structures where the area for the storage of tires exceeds 5,000 cubic feet shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

903.2.9.3 is amended to read as follows:

903.2.9.3 Group S-1 distilled spirits or wine. An automatic sprinkler system shall be provided throughout all distilled spirits or wine storage buildings.

903.2.9.4 is amended to read as follows:

903.2.9.4 Group S-1 upholstered furniture and mattresses. An automatic sprinkler system shall be provided throughout all upholstered furniture and mattresses storage buildings.

Exceptions to 903.2.9.4 are deleted.

903.2.10 is amended to read as follows:

903.2.10 Group S-2. An automatic sprinkler system shall be provided throughout all buildings classified as a parking garage.

Exceptions to 903.2.10 are deleted.

903.2.10.1 is amended to read as follows:

903.2.10.1 Commercial parking garages. An automatic sprinkler system shall be provided throughout all buildings used for storage of motor vehicles, commercial trucks, trailers, transport container units or buses.

903.2.10.3 is added to read as follows:

903.2.10.3 Hazard category for a commercial parking garage. The design density hazard classification for parking structures shall be an Ordinary Hazard Group 3.

903.2.11 is amended to read as follows:

903.2.11 Specific buildings areas and hazards. An automatic sprinkler system shall be provided throughout all Group U occupancies.

903.2.11.1 is amended to read as follows:

903.2.11.1 Stories without openings. An automatic sprinkler system shall be installed throughout all stories without openings.

903.2.11.1.2 is amended to read as follows:

903.2.11.1.2 Openings on one side only. Where openings in a story are provided on only one side and the opposite wall of such story is more than 75 feet (22 860 mm) from such openings, the story shall be equipped throughout with an automatic sprinkler system.

903.2.11.1.3 is amended to read as follows:

903.2.11.1.3 Basements. All basements shall be provided throughout with an approved automatic sprinkler system.

903.2.13 is added to read as follows:

903.2.13 Mandatory retrofit: All existing occupancies in Table 903.2.11.6 that do not have automatic sprinkler systems installed in accordance with Section 903 of the building code shall retrofit the occupancy with a fire suppression system.

903.3.1 is amended to read as follows:

903.3.1 Standards: Automatic sprinkler systems shall be designed and installed in accordance with sections 903.3.1.1 through 903.3.1.3. All sprinkler piping material is to be approved metallic piping. Plastic pipe is not allowed for sprinkler pipe material except for a R-3 use group.

Section 903.3.1.1.2 Bathrooms is deleted.

903.3.1.1.3 is amended to read as follows:

903.3.1.1.3 Lithium-Ion or lithium metal batteries. Where automatic sprinkler systems are required by this code for areas containing lithium-ion or lithium-metal batteries, Early Suppression Fast Response Sprinkler (ESFR) heads shall be required.

903.3.1.2 is amended to read as follows:

903.3.1.2 NFPA 13R Sprinkler systems. Automatic sprinkler systems in Group R occupancies up to and including three stories in height shall be installed in accordance with NFPA 13R.

903.3.1.3 is amended to read as follows:

903.3.1.3 NFPA 13D Sprinkler systems: Automatic sprinkler systems shall be installed throughout one-and two-family dwellings and townhouses in accordance with NFPA 13D.

903.3.1.3.1 is added to read as follows:

903.3.1.3.1 NFPA 13D Sprinkler system requirements: Automatic sprinkler systems shall be installed in all bathrooms and attached garages no matter the size.

903.3.5 is amended to read as follows:

903.3.5 Water supplies. Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the currently adopted versions of the International Plumbing Code and Illinois Plumbing Code.

903.3.5.3 is added to read as follows:

903.3.5.3 Safety factor. Hydraulically calculated sprinkler systems shall maintain a minimum of ten (10%) percent or five (5) pounds per square inch cushion (whichever is greater) between the seasonal low water supply and the total sprinkler demand. The total sprinkler demand shall include the sprinkler demand and the hose stream demand. The flow data used in these calculations shall be no more than one year old.

903.3.5.4 is added to read as follows:

903.3.5.4 Multi tenant occupancy. When an automatic sprinkler system is installed in a multi tenant building, each tenant shall have its own sprinkler supply line off the main or riser with its own water flow switch and control valve. A strobe light shall be mounted on the exterior front of that tenant space and as indicated in Section 903.4. The strobe light shall activate upon water flow and/or fire alarm activation within the individual unit.

903.3.7 is amended to read as follows:

903.3.7 Fire department connections. With respect to hydrants, driveways, buildings, and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. Fire department connections shall be located within fifty (50) feet of a fire hydrant at a location approved by the Fire Code Official. Fire Department connections shall be located where they will be visible from the public street or other location approved by the Fire Code Official. They shall be located so that immediate access can be made by the Fire Department. Fire department connections shall not be obstructed by fences, bushes, trees, walls, or similar objects. A ten-inch

(10”) water flow alarm bell and blue illuminated identification device shall be located above the connection. A six-inch (6”) water flow alarm bell shall be located inside the building by the sprinkler riser. The location of the fire department connection shall be on the street side of the building or in a method approved by the Fire Code Official. The fire department connection shall consist of one five (5) inch Storz coupling on a thirty (30) degree elbow mounted between thirty-six (36) inches and forty-eight (48) inches above the finished floor. The fire department connection shall be located no more than fifty (50) feet from the curb line. The fire department connection shall not be located within a delayed access location.

903.3.8.5.1 is added to read as follows:

903.3.8.5.1 Hydraulic Calculations: By each hydraulically calculated area, on each drawing, provide a copy of the hydraulic nameplate.

903.3.9.1 is added to read as follows:

903.3.9.1 Multiple Story Buildings: In multiple story buildings, provide floor control valves with water flow switches for each floor. No birdcage systems are allowed.

Exceptions to 903.4.1 are deleted.

903.4.2 is amended to read as follows:

903.4.2 Monitoring. Alarm, supervisory and trouble signals shall be distinctly different and shall be monitored by a fire alarm, in a method approved by the Fire Code Official in accordance with NFPA 72.

903.4.3.1 is added to read as follows:

903.4.3.1 Sprinkler Alarms: Approved combined audible/visual device(s) shall be connected to every fire protection suppression system. Such alarm device(s) shall be activated by the systems operation. The outside audible/visual device(s) shall be latching. Devices shall be located:

1. On the outside wall above each Fire Department Connection (Blue Lens)
2. On the outside wall above each main/unit entrance (Clear Lens)
3. Throughout all areas, and floors inside the building.

903.4.3.2 is added to read as follows:

903.4.3.2 Floor Plan: A diagram showing the area served by each system and/or control valves shall be submitted for review and approval to the Fire Code Official. The same diagram shall be placed adjacent to the fire sprinkler system risers.

903.4.4 is added to read as follow

903.4.4 Fire Pumps: All fire pumps shall have an outside test header with an OS&Y gate valve. Provide a ball drip between the OS&Y control valve and the outside test header. The test header shall have the minimum 2½” test valves required by NFPA 20.

903.5.1. is added to read as follows:

903.5.1 Inspectors Test Valves: Fire sprinkler system inspectors test valves shall be accessible at all times and located no more than six (6) feet above the finished floor. On multiple riser systems test valves shall be marked as to which riser and area it tests and shall be located at the furthest point of the system.

903.6.1 is added to read as follows:

903.6.1 Additions: Additions to any building or structure equal to or exceeding fifty (50) percent of the gross floor area of the original building construction, as identified on the permit records and construction drawings approved by the Village when the structure was first constructed, shall require the installation of an approved automatic sprinkler system throughout the entire existing and proposed building or structure in accordance with the provisions of Sections 903.2.1 through 903.2.12, and Chapter 11.

903.6.2 is added to read as follows:

903.6.2 High-Hazard Group H: Any change in Use and/or Occupancy which reclassifies a building or structure or portion thereof to a High-Hazard Group H occupancy shall require the installation of an approved automatic sprinkler system throughout the entire existing and proposed building or structure in accordance with the provisions of Sections 903.2.1 through 903.2.12, and Chapter 11.

903.6.3 is added to read as follows:

903.6.3 Change of use and/or occupancy in existing buildings and structures: Any change in Use and/or Occupancy which reclassifies a building or structure or portion thereof to a motor vehicle storage area; motor vehicle repair garages; lumber storage; pallet storage; bulk storage of tires; self-service storage facility; grow, processing, and extraction facilities; occupancy shall require the installation of an approved automatic sprinkler system throughout the entire existing and proposed building or structure in accordance with the provisions of Sections 903.2.1 through 903.2.12, and Chapter 11.

903.6.4 is added to read as follows:

903.6.4 Maintained in Operation: Approved automatic sprinkler systems in existing buildings or structures shall be maintained in operational condition and shall be extended into any new construction notwithstanding any change in use which could eliminate the need for sprinkler protection.

SECTION 904

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS

904.3.5 is amended to read as follows:

904.3.5 Monitoring: All automatic fire extinguishing systems shall be monitored by a fire alarm, in a method approved by the Fire Code Official in accordance with NFPA 72.

Section 905 is amended to read as follows:

SECTION 905 STANDPIPE/HOSE VALVE SYSTEMS

905.1 is amended to read as follows:

905.1 General: Standpipes/Hose Valve systems required by this section shall be installed within one (1) floor of the highest point of construction having secured decking as flooring.

905.2.1 is added to read as follows:

905.2.1 Standpipe/Hose Valve System Design: Standpipe/Hose Valve systems in connection with an approved hydraulically calculated sprinkler system shall maintain a minimum of ten (10) percent pressure cushion between the seasonal low water supply and the total standpipe demand.

Exceptions to 905.3 are deleted.

905.3.1 is amended to read as follows:

905.3.1 Height: Class I standpipe/hose valve systems shall be installed throughout all buildings. All standpipe/hose valve systems shall be automatic wet systems.

Exceptions to 905.3.1 are deleted.

905.3.1.1 is added to read as follows:

905.3.1.1 Building area: Class I standpipe/hose valve systems shall be installed in all buildings where any portion of the building's interior area is more than one hundred and fifty (150) feet of travel, vertically, and horizontally, from the main entrance of the building of fire department vehicle access. Where the most remote portion of a floor or story is more than one hundred and fifty (150) feet from a hose connection, the Fire Code Official may require that additional hose connections be provided in approved locations. A manual-wet class I standpipe/hose valve system may be approved by the Fire Code Official.

905.3.1.2 is added to read as follows:

905.3.1.2: System Required: Buildings required by section 905.3 to be equipped with standpipe systems shall be provided with wet standpipe/hose valve systems that comply with section

905.3.1. Required standpipe/hose valve systems shall be located within five (5) feet of each exit door.

905.3.1.3 is added to read as follows:

905.3.1.3 High Rise Buildings: High rise building standpipe/hose valve systems shall be designed for a minimum one hundred (100) psi at five hundred (500) gpm to the highest most remote standpipe outlet with a minimum two hundred and fifty (250) gpm for each additional standpipe riser. The total shall not be required to exceed one thousand two hundred and fifty (1,250) gpm.

905.3.1.4 is added to read as follows:

905.3.1.4 Open Parking Structures: Detached open parking structures shall be provided with a dry standpipe/hose valve system without a connection to the public water main. Attached open parking structures shall be provided with an automatic wet or automatic dry standpipe system.

905.13 is added to read as follows:

SECTION 906 PORTABLE FIRE EXTINGUISHERS

906.1 is amended to read as follows:

906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4, S and U occupancies.

The exceptions to 906.1 are deleted.

906.3 is amended to read as follows:

906.3 Size and distribution: The minimum size fire extinguisher for use in all occupancy groups shall be 4A60BC. All other applications shall be in accordance with the provisions of NFPA 10.

906.4.1.1 is added to read as follows:

906.4.1.1 Wet chemical fire suppression system: Areas with a wet chemical fire suppression system shall have a minimum of one six (6) liter wet chemical potassium based fire extinguisher within the kitchen area in addition to other required extinguishers. Additional extinguishers may be required by the Fire Code Official.

906.5.1 is added to read as follows:

906.5.1 Location: Fire extinguishers shall be located within five (5) feet of each exit door. All other areas shall have fire extinguishers installed in accordance with NFPA 10.

SECTION 907

FIRE ALARM AND DETECTION SYSTEMS

907.1.4 is added to read as follows:

907.1.4 Materials and contents information. Construction documents for fire protection systems permit shall include information on the contents, the occupancy, the location and arrangement of the structure, and the contents involved, the exposure to any hazard, the extent of the system coverage, the suppression system design criteria, the supply and extinguishing agents, the location of any standpipes, and the location and method an operation of any detection and alarm devices.

907.1.5 is added to read as follows:

907.1.5 Underwriters laboratory certificates: All Fire Alarm systems installed within the jurisdiction of the Village of Elk Grove Village shall be Underwriters Laboratory Certified as Remote Station type systems. This Underwriters Laboratory certification shall remain in place for as long as a fire alarm system is required to be installed in the property. This shall also include those systems that monitor automatic sprinkler systems.

907.1.6 is added to read as follows:

907.1.6 UL fire alarm installation requirements: In order to install a fire alarm system in the Village of Elk Grove Village the installer must be a Licensed Fire Alarm Installer or a licensed electrician. Prior to acceptance testing, the alarm contractor that will be issuing the certificate for the Protected Property shall provide a current copy of the Alarm Contractor's Certificate of Compliance to the Village of Elk Grove Village's Inspectional Services Division. A copy of the Protected Property's Remote Station UL Certificate shall be provided to the Village of Elk Grove Village Inspectional Services Division upon completion of the acceptance test.

907.1.7 is added to read as follows:

907.1.7 Fire Alarm Control Panel Type: The fire alarm control panel shall be an addressable fire alarm control panel capable of performing all necessary functions. The fire alarm control panel shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72.

907.1.8 is added to read as follows:

907.1.8 Fire Alarm Electrical Metallic Tubing: Where electrical metallic tubing (conduit) is required by NFPA 70, the electrical metallic tubing (conduit) shall be in red in color.

907.2 is amended to read as follows:

907.2 Where required-new buildings and structures: An approved manual, automatic or manual and automatic fire alarm system installed and maintained in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Section 907.2.1 through 907.2.23 and provide occupant notification in accordance with section

907.10, unless other requirements are provided by another section of this code. All fire alarm systems shall be an addressable type; and the fire alarm control panel or fully functional annunciator panel with no pass codes shall be installed within ten (10) feet of the main entrance or in a location approved by the Fire Code Official. Multi-tenant buildings will be “ring by tenant” and shall include a weatherproof clear outside strobe over the entrance to each tenant space as directed by the Fire Code Official. All outside strobes shall be seventy-five (75) candela minimum. Where automatic sprinkler protection installed in accordance with Section 903.3.1.1 or 903.3.1.2 is provided and connected to the building fire alarm system, automatic heat detection required by this section shall not be required.

Exceptions to 907.2 are deleted.

907.2.1 is amended to read as follows:

907.2.1 Group A: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group A occupancies.

Exceptions to 907.2.1 are deleted.

Exceptions to 907.2.1.1 are deleted.

907.2.2 is amended to read as follows:

907.2.2 Group B: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group B occupancies.

Exceptions to 907.2.2 are deleted.

Exceptions to 907.2.2.1 are deleted.

907.2.3 is amended to read as follows:

907.2.3 Group E: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group E occupancies.

Exceptions to 907.2.3 are deleted.

907.2.4 is amended to read as follows:

907.2.4 Group F: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group F occupancies.

Exceptions to 907.2.4 are deleted.

907.2.5 is amended to read as follows:

907.2.5 Group H: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group H occupancies.

907.2.6 is amended to read as follows:

907.2.6 Group I: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group I-1 occupancies.

Exceptions to 907.2.6 are deleted.

Exceptions to 907.2.6.1 are deleted.

907.2.6.2 is amended to read as follows:

907.2.6.2 Group I-2: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group I-2 occupancies.

Exceptions to 907.2.6.2 are deleted.

907.2.6.3 is amended to read as follows:

907.2.6.3 Group I-3: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group I-3 occupancies.

Exceptions to 907.2.6.3.3 are deleted.

907.2.7 is amended to read as follows:

907.2.7 Group M: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group M.

Exceptions to 907.2.7.1 are deleted.

907.2.8 is amended to read as follows:

907.2.8 Group R-1: A manual fire alarm system and an automatic smoke detection system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group R-1 occupancies.

Exceptions to 907.2.8.1 are deleted.

Exceptions to 907.2.8.2 are deleted.

907.2.9.1 is amended to read as follows:

907.2.9.1 Group R-2: An automatic fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in all Group R-2 occupancies.

Exceptions to 907.2.9.1 are deleted.

Exceptions to 907.2.9.3 are deleted.

907.2.10 is amended to read as follows:

907.2.10 Group S: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group S occupancies.

Exceptions to 907.2.10.1 are deleted.

Exceptions to 907.2.11.6 are deleted.

907.2.13 is amended to read as follows:

907.2.13 High-rise buildings: Buildings with a floor used for human occupancy located more than sixty (60) feet above the lowest level of fire department vehicle access shall be provided with an automatic fire alarm system, pressurized stairwells, fire command center, fire department communication center and an emergency voice/alarm communication system in accordance with Section 907.5.2.2

907.2.24 is added to read as follows:

907.2.24 Groups R-3, R-4: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72.

907.2.25 is amended to read as follows:

907.2.25 Group R-3, R-4: An automatic fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 .

907.2.26 is added to read as follows:

907.2.26 Group U: A manual fire alarm system shall be installed, in a method approved by the Fire Code Official in accordance with NFPA 72 in Group U occupancies.

907.3.1 is amended to read as follows:

907.3.1 Duct smoke detectors: Duct smoke detectors shall be connected to the building's fire alarm control panel when a fire alarm system is provided. Activation of a duct smoke detector shall initiate a visible and audible fire signal and shut down the individual units. Duct smoke detectors shall not be used as a substitute for required open area detection. Duct smoke detectors shall be required in all air handling units 2000 CFM or greater. All test switches shall be labeled and installed in a proximate area near the Fire Alarm panel or as determined by the Fire Code

Official. All duct detectors should be labeled in correlation with the HVAC units and clearly marked on the inside ceiling, visible from the floor. All rooftop units will be visibly marked.

Exceptions to 907.3.1 are deleted.

907.3.3.1 is added to read as follows:

907.3.3.1 Elevator emergency telephones: Elevator emergency telephones shall be connected to the Village of Elk Grove Village Emergency Communications Center.

907.6.2 is amended to read as follows:

907.6.2 Power supply: The primary and secondary power supply for the fire alarm system shall be provided in accordance with NFPA 72. The secondary supply shall be equipped with a battery capable of sufficient amperage to fully operate the fire system for sixty (60) hours in the case of AC voltage loss.

907.6.4 is amended to read as follows:

907.6.4 Zones: Each floor shall be zoned separately; a zoning indicator panel and the associated controls shall be provided in an approved location. The visual zone indication shall lock in until the system is reset and shall not be cancelled by the operation of a public alarm silencing switch. A separate zone by floor shall be provided for the following types of alarm initiating devices where provided:

- A. Detection devices.
- B. Sprinkler water flow alarms.
- C. Manual fire alarm boxes.
- D. Each tenant space in multi tenant occupancies, and
- E. Other approved types of automatic fire detection devices or suppression systems.

907.6.5.1 is added to read as follows:

907.6.5.1 FACP Access: The fire alarm panel capable of performing all necessary functions shall be easily accessible and visibly located within the sprinkler riser room and/or fire pump room or in a method approved by the Fire Code Official.

907.6.5.2 is added to read as follows:

907.6.5.2 FAAP Access: The fire alarm annunciator panel capable of performing all necessary functions shall be easily accessible and visibly located within ten (10') feet from the entrance into the building and/or unit. A fire alarm annunciator panel capable of performing all necessary functions shall be easily accessible and visibly located within ten (10') feet from the entrance into the fire pump and/or sprinkler riser room(s).

907.6.5.3 is added to read as follows:

907.6.5.3 FACP / FAAP Instructions: All new and existing fire alarm control panels shall be provided with written operating instructions to perform the necessary features of the fire alarm panel(s). The operating instructions, a complete fire alarm zone map, and other applicable information shall be framed and mounted within one foot (1') of the fire alarm control panels. Building contact names and phone numbers shall be provided inside the alarm panel.

907.8.5 is added to read as follows:

907.8.5 Records of completion: A record of completion in accordance with NFPA 72 verifying that the system has been installed with the approved plans and specifications shall be provided. A system schematic showing all devices and components of the alarm system shall be provided on a minimum eight and one half (8.5) by eleven (11) inch sheet or in a method approved by the Fire Code Official.

907.9 is amended to read as follows:

907.9 Where required in existing buildings and structures: All existing commercial, industrial, and multi-tenant occupancy structures within the Village of Elk Grove Village shall have an approved working fire alarm system which is monitored, in a method approved by the Fire Code Official in accordance with NFPA 72. The master fire alarm panel in facilities/buildings that are rented or leased are the responsibility of the building owner to maintain and service. Any building that is modified or where a change of use and/or occupancy occurs shall comply with this requirement before any use of occupancy will be granted. All requirements shall comply with section 907.2.

907.11 is added to read as follows:

907.11 Non-required systems: All non-required systems which are supervised shall use equipment listed for that particular fire alarm system. Non-required systems shall be installed in accordance with Section 907 and/or, in a method approved by the Fire Code Official in accordance with NFPA 72. Non-required systems shall be maintained in good working order.

SECTION 909

SMOKE CONTROL SYSTEMS

909.20.6 is added to read as follows:

909.20.6 In garage settings where a carbon monoxide detection device controls the activation of an exhaust system this system must shut down upon the activation the fire detection and/or suppression systems. This will have a manual override control which will be installed under direction of the Fire Code Official.

SECTION 912
FIRE DEPARTMENT CONNECTIONS

912.1.1 is added to read as follows:

912.1.1 Arrangement: Fire Department connections shall be arranged in such a manner that the use of any one water sprinkler connection will serve all sprinklers, and the use of any one standpipe will serve all standpipes within the building.

912.1.2 is added to read as follows:

912.1.2 Storz connection: The location of the fire department connection shall be approved by the Fire Code Official. The fire department connection shall consist of one five (5") inch Storz coupling on a thirty (30) degree elbow downturn mounted between thirty-six (36") inches and forty-eight (48") inches above the finished floor.

912.2 is amended to read as follows:

912.2 Location: With respect to hydrants, driveways, buildings, and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. Fire department connections shall be located within fifty (50') feet of a fire hydrant at a location approved by the code official. Fire Department connections shall be located where they will be visible from the public street or other location approved by the Fire Code Official. They shall be located so that immediate access can be made by the Fire Department. Fire Department connections shall not be obstructed by fences, bushes, trees, walls, or similar objects. A ten-inch (10") water flow alarm bell and blue illuminated identification device shall be located above the connection. A six-inch (6") water flow alarm bell shall be located inside the building by the sprinkler riser. The location of the fire department connection shall be on the street side of the building or in a method approved by the Fire Code Official. The fire department connection shall consist of one five-inch (5") Storz coupling on a 30-degree elbow mounted between thirty-six inches(36) and forty-eight inches (48") above the finished floor. The FDC shall be located no more than fifty feet (50') from the curb line. The fire department connection shall not be located within a delayed access location. Fences, gates, trees, shrubs, or other landscaping materials shall not be installed to prohibit access to the fire department connection. A Fire Hydrant shall be located within fifty feet (50') of any fire department sprinkler and/or standpipe connection as determined by the code official. The fire hydrant shall be located no more than twenty feet (20') from the curb line.

912.6 is amended to read as follows:

912.6 Backflow protection: The potable water supply to automatic sprinkler and standpipe systems shall be protected against backflow as required by the most recently adopted versions of the International Plumbing Code and the Illinois Plumbing Code.

SECTION 913
FIRE PUMPS

913.1.1 is added to read as follows:

913.1.1 Fire Pump Access: Fire pump room access shall be located on the main level of discharge and shall be from both the exterior and interior of the building.

913.2.1 is amended to read as follows:

913.2.1 Where provided, rooms containing fire pumps shall be separated from the remainder of the building by a minimum of two (2) hour construction.

The exceptions are deleted.

913.4 is amended to read as follows:

913.4 Valve supervision: Where provided, the fire pump suction, discharge and bypass valves, and the isolation valves on the backflow prevention device or assembly shall be supervised by a fire alarm system directly connected, in a method approved by the Fire Code Official in accordance with the provisions of NFPA 72.

913.4.2 is added to read as follows:

913.4.2 Fire Pump Activation: Fire pumps shall transmit a full fire signal upon activation, all fire pumps shall have a ten (10) minute shut down timer.

SECTION 914
**FIRE PROTECTION BASED ON SPECIAL DETAILED
REQUIREMENTS OF USE AND OCCUPANCY**

The exceptions to 914.2.1 are deleted.

The exceptions to 914.3.1 are deleted.

The exceptions to 914.4.1 are deleted.

The exceptions to 914.7.1 are deleted.

SECTION 1003
GENERAL MEANS OF EGRESS

1003.1 is amended to add the following sentence:

1003.1 Applicability: The provisions of the International Existing Building Code 2024 shall not be used to eliminate the installation requirements for exit signs and means of egress illumination systems.

SECTION 1008
MEANS OF EGRESS ILLUMINATION

Exceptions 1,2,3 of Section 1008.2 are deleted.

1008.3 is amended to add the following:

3.6 Conference rooms, training rooms, break or lunch rooms, and restrooms that accommodate more than one occupant.

SECTION 1010
DOORS, GATES AND TURNSTILES

The exceptions to 1010.1.1 are deleted.

SECTION 1013
EXIT SIGNS

1013.1 is amended to delete exception 2.

1013.2 is amended to read as follows:

1013.2 Low-level exit signs. The installation of low-level exit signs to supplement regular exit signs shall be placed in all new occupancies to include places of assembly, hotels, or other buildings subject to transient occupancy and semi-permanent occupancy such as an apartment house, and as deemed necessary by the Fire Code Official. Such exit signs may be approved luminescent, photo luminescent, self-luminous, or self-illuminated types. They are not intended to replace standard exit signs but are designed as a supplementary aid for a building occupant seeking egress in smoke-filled environment at a location that is the last to become obscured. Existing facilities shall be required to have this signage within two (2) years.

Such signs shall be located near the floor level in addition to those signs required for doors or corridors. The bottom of the sign shall be not less than ten (10) inches, but not more than eighteen (18) inches above the floor. For exit doors, the sign shall be mounted on or adjacent to the door with the nearest edge of the sign within four (4) inches of the door frame. Photo luminescent signs may be used in place of externally illuminated signs.

Delete the exception.

SECTION 1023
INTERIOR EXIT STAIRWAYS AND RAMPS

1023.9.2 is added to read as follows:

1023.9.2 Floor landing and stairwell signs. Floor landing and stairwell signs shall be required in all enclosed stairwells on every floor per use groups specified in Section 1025.1 and all existing hotels, apartments, and nursing homes. Signs shall also be mounted on the wall adjacent to the door at not less than five (5) feet above the finished floor indicating floor level and stairwell designation.

SECTION 1028

EXIT DISCHARGE

1028.5 is amended to read as follows:

1028.5 Access to public way: From each grade floor exit from a building there shall be provided a hard surface area, a minimum of forty-eight inches (48”) in width centered on that door, extending from the door to a property line adjoining a public street.

SECTION 1106

REQUIREMENTS FOR OUTDOOR OPERATIONS

1106.2 is added to read as follows:

1106.2 Barrier protection. Physical barriers shall consist of IDOT certified concrete barriers. Barriers shall be provided to protect the area where construction type fuel tanks are established.

SECTION 1205

SOLAR PHOTOVOLTAIC POWER SYSTEMS

Exceptions to 1205.2 are deleted.

1205.2.1.1.1 is added to read as follows:

1205.2.1.1.1 No hazards in pathways or setbacks. Pathways and setbacks shall be located in areas with no obstructions, such as vent pipes, conduit or mechanical equipment.

1205.2.1.2 is amended to read as follows:

1205.2.1.2 Setbacks at ridge. For photovoltaic arrays occupying thirty-three (33) percent or less of the plan view total roof area, a setback of not less than twenty-four (24) inches wide is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than thirty-three (33) percent of the plan view total roof area, a setback of not less than forty-eight (48) inches wide is required on both sides of a horizontal ridge.

1205.2.1.3 is amended to read as follows:

1205.2.1.3 Alternative setbacks at ridge. Where an automatic sprinkler system is installed within the dwelling in accordance with Section 903.3.1.3, setbacks at the ridge shall conform to one of the following:

1. For photovoltaic arrays occupying sixty-six (66) percent or less of the plan view total roof area, a setback of not less than twenty-four (24) inches wide is required on both sides of a horizontal ridge.
2. For photovoltaic arrays occupying more than sixty-six (66) percent of the plan view total roof area, a setback of not less than forty-eight (48) inches wide is required on both sides of a horizontal ridge.

1205.2.1.4 is added to read as follows:

1205.2.1.4 Roof Pathway access labeled on the ground. Roof pathway access shall be labeled on the ground and shall be visible at night (reflective) where the roof access is greater than ten (10) feet.

1205.2.2.1 is added to read as follows:

1205.2.2.1 Roof pathway access. Any roof pathway access shall not be above windows or doors.

SECTION 1207 ELECTRICAL ENERGY STORAGE SYSTEMS (ESS)

Exceptions 1,2,3 to 1207.5.1 are deleted.

1207.5.1.1 is added to read as follows:

1207.5.1.1 Lithium-ion battery storage and equipment. Lithium-ion batteries shall be separated from each other by a minimum of forty-eight inches (48”).

The exceptions to 1207.5.2 are deleted.

1207.6.5.1 is added to read as follows:

1207.6.5.1 Approvals. Devices designed to detect the thermal runaway of lithium-ion battery storage system containing a flammable or combustible liquid shall be listed in accordance with UL 2075, Gas and Vapor Detectors and Sensors.

1207.6.5.2 is added to read as follows:

1207.6.5.2 Performance. The thermal runaway detection system shall activate upon detection of gas vapors produced by flammable or combustible liquid in a lithium-ion battery storage system at the start of a thermal runaway event. Upon detection of a thermal runaway event the detection system shall shutdown the ESS rack releasing flammable or combustible gas vapors and transmit

a supervisory fire alarm signal. Detection of a thermal runaway event shall activate the mechanical ventilation when it is provided as method of explosion control.

Thermal runaway detectors shall operate independently of the ESS Energy Storage Management System.

1207.6.5.3 is added to read as follows:

1207.6.5.3 Annunciation. The thermal runaway detection system shall be capable of identifying the ESS rack where thermal runaway occurred.

SECTION 3104

TEMPORARY AND PERMANENT TENTS AND MEMBRANE STRUCTURES

3104.2.1 is added to read as follows:

3104.2.1 Outdoor Assembly Event Tents or Membrane Structures. Tents or Membrane Structures 12 x 12 or greater shall comply with Section 3104.2.

SECTION 3105

TEMPORARY SPECIAL EVENT STRUCTURES

3105.8 is amended to read as follows:

3105.8 Portable fire extinguishers. Portable fire extinguishers shall be a 4A60BC extinguisher.

SECTION 3306

FIRE PROTECTION SYSTEMS AND DEVICES

3306.7 is added to read as follows:

3306.7 Fire Extinguishers for roofing operations: Fire extinguishers shall be installed in accordance with section 906. There shall be not less than one multi- purpose portable fire extinguisher with a minimum 4A60BC on the roof being covered or repaired.

SECTION 5001

HAZARDOUS MATERIALS – GENERAL PROVISIONS

5001.3.3.1 is amended to read as follows:

5001.3.3.1 Properties of hazardous materials. All buildings, and/or tenant spaces containing hazardous materials shall provide a Knox box document storage cabinet for placement of the SDS sheets. The box shall be large enough to accommodate all information. It shall be mounted at five (5) feet above the finished floor and shall be located in a spot that is approved by the Fire Code Official.

SECTION 5601
EXPLOSIVES AND FIREWORKS - GENERAL

Exceptions to 5601.1.3 are deleted.

SECTION 5602
EXPLOSIVES AND FIREWORKS - DEFINITIONS

Fireworks, 1.4G is amended to read as follows:

Fireworks, 1.4G (Formerly known as Class C, Common Fireworks.) Small fireworks devices including hand-held wire sparklers containing restricted amounts of pyrotechnic composition designed primarily to produce visible or audible effects by combustion. Such 1.4G fireworks which comply with the construction, chemical composition and labeling regulations of the DOT for Fireworks, UN 0336, and the U.S. Consumer Product Safety Commission as set forth in CPSC 16 CFR: Parts 1500 and 1507 are not explosive materials for the purpose of this code.

SECTION 5608
FIREWORKS DISPLAY

5608.1 is amended to read as follows:

5608.1 General. The display of fireworks, including proximate audience displays and pyrotechnic special effects in motion picture, television, theatrical, and group entertainment productions, shall comply with this chapter, Office of the State Fire Marshal, and the most recent versions of NFPA 1123 and/or NFPA 1126.

5608.1.1 is added to read as follows:

5608.1.1 General requirements for all pyrotechnic/consumer fireworks displays. All pyrotechnic fireworks displays shall conform to the Fireworks Use Act (425 ILCS 35).

5608.2.1 is amended to read as follows:

5608.2.1 Outdoor fireworks displays. In addition to the requirements of Section 403, permit applications for outdoor fireworks shall include a diagram of the location at which the display will be conducted including the site from which fireworks will be discharged; the location of buildings, highways, overhead obstructions and utilities; and the lines behind which the audience will be restrained. All outdoor fireworks displays shall be electronically fired from an approved electronic firing unit.

5608.3.1 is added to read as follows:

5608.3.1 Pyrotechnic operator and licensing rules. Any person, company, entity, association, or corporation who distributes, provides display services or supervises a pyrotechnic display within the Village of Elk Grove Village must be licensed according to the Pyrotechnic Distributor and Operator Licensing Act (225ILCS 227).

5608.8.1 is added to read as follows:

5608.8.1 Fire department supervision of fireworks displays. All outside public fireworks displays are required to have a Elk Grove Village Fire Department standby, to be determined by the Fire Chief or his/her designee. Fire department expenses incurred by this standby will be billed to the host of the display. Local governmental agencies may be exempt from this fee.

5608.11 is added to read as follows:

5608.11 Retail display and sale. It shall be unlawful to sell, store, or advertise for sale, Division 1.4G, 1.3G & 1.4S fireworks within the boundaries of the Village of Elk Grove Village.

5608.12 is added to read as follows:

5608.12 Consumer fireworks. Consumer fireworks (1.4G) as defined by the Fireworks Use Act (445 ILCS 35) shall not be manufactured, stored, sold retail or wholesale or utilized within the boundaries of the Village of Elk Grove Village along with the following unregulated items: sparklers of all sizes and types and smoke devices.

SECTION 5609

TEMPORARY STORAGE OF CONSUMER FIREWORKS

Section 5609 is deleted in its entirety.

Appendices A, B, C, E, F and G are deleted.

Revise all listed NFPA standards in IBC Chapter 35 and IFC Chapter 80 to include the latest edition available as of the effective date of the adoption of the 2024 IBC and IFC.

Attachment A is added to read as follows:

Attachment A

REFERENCED APPENDIX, CODES, AND STANDARDS: The appendixes, 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. Where differences occur between the provisions of this code and the referenced standards, the most stringent provision shall apply.

The following codes and editions listed are to be adopted in their entirety:

NFPA	10	2022
	13	2022
	13R	2022
	13D	2022
	14	2022
	15	2022
	16	2019
	20	2022
	24	2022
	25	2023
	70	2023
	72	2022
	96	2024
	1123	2022
	1124	2022