

Elk Creek Fire Protection District

PURPOSE OF ADDENDUM:

This Elk Creek Fire Protection District addendum to the 2009 International Fire Code, addresses areas of the code which require specific information, ties this code to Colorado Revised Statutes, and increases the requirements of some sections to meet the needs of this fire district. The intent of this addendum and the International Fire Code is to provide a safe environment to a reasonable degree for the residents and visitors of the Elk Creek Fire Protection District. Enforcement of these codes shall be consistent for persons affected.

CHAPTER 1 – ADMINISTRATION

Section 101.6, add paragraph: **Supplemental rules and regulations.** The Fire Code Official with the approval of the Fire Chief is authorized to render interpretations of this code and to make and enforce rules and supplemental regulations in order to carry out the application and intent of its provisions.

Section 102.2, add third paragraph: **3. Retroactive Enforcement.** Any existing occupied commercial or residential structure which undergoes a change in occupancy type or renovation of more than 25% of the total operable and non operable building space shall be required to conform to this code.

Section 103.2, add sentence: The code official shall also be known as the Fire Marshal.

Section 104.10, add paragraph: The Fire Chief shall present all findings to the district attorney pursuant to (32-1-1002 (3)(b)(v), C.R.S., as amended).

105.6.30, **delete exception** (recreational fires)

Section 105.7.15, Shall be added and shall read, Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change any occupancy of a commercial building or structure shall first make application to the Fire Code Official and obtain the required permit.

Section 105.7.16, Shall be added and shall read, Any owner or authorized agent who intends to construct, enlarge, move, or change any residential building or structure greater than 400 square feet shall first make application to the Fire Code Official and obtain the required permit.

Section 109.2.2, add sentence: After further inspection, if the violation still exists, an ORDER TO COMPLY requiring compliance within 24 hours shall be issued at the discretion of the Fire Marshal.

Section 109.3, line 6 shall read: ...shall be guilty of a misdemeanor (as provided under 32-1-1002(3)(d) and 18-8-104, C.R.S. as amended)

Section 110.4, add to end of paragraph: Such unsafe buildings are hereby declared to be a public nuisance and shall be altered by repair, rehabilitation, demolition or removal in accordance with the procedures specified in (32-1-1002 (3)(c), C.R.S., as amended).

Section 111.4, delete the following, "shall be liable to a fine of not less than (Amount) dollars or more than (Amount) dollars," and replace with: "shall be subject to fine and/or imprisonment up to the maximum specified in (32-1-1001 and 32-1-1002 C.R.S., as amended)

Section 113.2, add paragraph

(a) Pursuant to 32-1-1002(1)(e)(II) of the Colorado Revised Statute, the District Board may fix and from time to time may increase or decrease fees and charges, in its discretion, for inspections and review of plans and specifications which are:

1. Requested or mandated for existing structures, buildings and improvements; and
2. Necessitated in conjunction with any other county regulation, resolution or condition of development; or
3. Performed in conjunction with the construction of structures, buildings and improvements.

(b) Said fees and charges may, at the discretion of the District Board, include a charge for reimbursement to the District of any consultation fees, expenses or costs incurred by the District in the performance of the inspection or review of plans and specifications.

Section 114, add new section

This chapter shall be interpreted to be consistent with the provisions of (32-1-1002(3), C.R.S.,)

CHAPTER 2 – DEFINITIONS

Add the following definitions:

Board of Directors - Those persons elected by statute under Colorado Revised Statutes, Title 32, that govern the Elk Creek Fire Protection District.

County – The counties of Jefferson & Park, Colorado.

District – The legally defined boundaries of the Elk Creek Fire Protection District within Jefferson and Park Counties, Colorado.

Exemption From Platting – As defined by each County.

Planned Building Group – A number of buildings or structures constructed on a parcel of land, which is under ownership, control, or development of one individual, corporation, partnership, or firm, excluding agricultural buildings. Special features are included but are not limited to: Construction of buildings or structures having similar occupancies and/or design appearance; limited means of vehicular access to property; limited access to public water supplies for fire suppression use; and possibly written property restrictions relative to maintenance, use, and operation of the buildings or structures constructed thereon.

Subdivision – A portion of land divided into lots for real estate development.

CHAPTER 3 – GENERAL PRECAUTIONS AGAINST FIRE

Section 307.1.1, shall be added to the end of the paragraph. The code official is authorized to impose a burn ban in the District if the current conditions are deemed hazardous.

Section 308.1.1, add paragraph: Gel Candles. Are prohibited.

CHAPTER 4 - EMERGENCY PLANNING AND PREPAREDNESS

Section 401.5, shall be added and shall read: It shall be a violation of this Article and Code and Colorado Revised Statute, 32-1-1002(4)(a) I (Fire Protection Districts) for any persons to:

- A. Willfully or maliciously give, make, or cause to be given or make a false alarm of fire whether by use of manual pull-station, telephone call, or otherwise.
- B. Willfully or maliciously disconnect, cut, sever, or in any manner tamper with any part of the communication apparatus.

Aid, abet, knowingly permit, or participate in the commission of any act prohibited by this section.

CHAPTER 5 - FIRE SERVICE FEATURES

Section 503.2.1.1, add new section: **Dimensions.** Fire apparatus access roads serving commercial structures shall have an unobstructed width of not less than 24 feet, including an 18 foot paved travel surface and 3 foot shoulders on both sides in accordance with template 17 of the Jefferson County Roadway Design Manual and an unobstructed vertical clearance of not less than 13 feet 6 inches. Additionally, the travel surface shall be capable of supporting an imposed load of 68,000 pounds.

Section 503.2.4, shall read: **Turning Radius.** The minimum horizontal curve radius shall be 30 feet at centerline.

Section 503.2.5, shall read: **Dead Ends.** Dead end roads exceeding 150 feet in length shall be provided with a vehicle turnaround in accordance with Template 16 or Template 18 of the Jefferson County Roadway Design and Construction Manual.

Section 503.2.6, add to end of paragraph: A bridge shall be capable of supporting an imposed load of 68,000 pounds if a commercial or residential structure exceeds 50 feet travel distance on an approved fire department access road.

Section 503.2.7, shall read: **Grade.** The maximum grade for fire apparatus access roads shall be 10 percent on straight sections. A maximum of 12 percent grade where the dip of the natural terrain bears between South 60 degrees East and South 45 degrees west is allowed. A maximum grade of 8 percent for curves with radius of less than or equal to 50 feet at centerline.

Exception: Upon written application the Fire Code Official may approve a grade of 15 percent on straight sections and 12 percent on curves if an approved automatic fire sprinkler system is installed in any Group R occupancies regardless of size and all Group U occupancies larger than 1000 square feet except agricultural barns. Sprinkler systems installed under this section shall meet the requirements of NFPA Standard 13, *Standard for the Installation of Sprinkler Systems*, NFPA Standard 13D, *Standard for the Installation of Sprinkler Systems in One – and Two Family Dwellings and Manufactured Homes*, NFPA Standard 13R, *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and including Four Stories in Height*.

Section 503.2.9, shall be added as a new section: **Driveway Approaches.** All driveway approaches shall comply with standard 9 of the Jefferson County Roadway Design and Construction Manual.

Section 503.6, shall read: **Gates.** All gates installed on fire apparatus access roads shall be a minimum of 2 feet larger than the travel way and shall be located a minimum of 30 feet from the public right of way and shall not open outward. Additionally, all new electric gates shall be equipped with a Knox Switch and all manual gates shall be equipped with a Knox Padlock. Any existing gate serving a single residence, community or commercial development shall provide the District with the operating code or means to over-ride the system. The District shall also be authorized to place a combination lock on any gate or chain in order to gain access to the property.

Section 503.7 – **DRIVEWAYS SERVING ONE DWELLING UNIT**, shall be added as a new section

Section 503.7.1, shall be added as a new section and shall read: **General**. Driveways shall be in accordance with section 501 and 503.

Section 503.7.2, shall be added as a new section and shall read: **Curve Radius**. Driveways shall have a minimum horizontal curve radius of 30 feet at centerline.

Exception: If the length of the driveway does not exceed 50 feet.

Section 503.7.3, shall be added as a new section and shall read: **Width**. Driveways shall have a minimum width of 14 feet, including 10 foot all weather travel surface and 2 foot shoulders on both sides in accordance with template 17 of the Jefferson County Roadway Design and Construction Manual. Additionally, residential structures with driveways exceeding 50 feet travel distance shall be capable of supporting an imposed load of 68,000 pounds.

Exception: If the length of the driveway does not exceed 50 feet.

Section 503.7.4, shall be added as a new section and shall read: **Grade**. Driveways shall have a maximum grade of 10 percent on straight sections. A maximum of 12 percent grade where the dip of the natural terrain bears between South 60 degrees East and South 45 degrees west is allowed. A maximum grade of 8 percent for curves with radius of less than or equal to 50 feet at centerline.

Exception 1: Upon written application the Fire Code Official may approve a grade of 15 percent on straight sections and 12 percent on curves if an approved automatic fire sprinkler system is installed in any Group R occupancies regardless of size and all Group U occupancies larger than 1000 square feet except agricultural barns. Sprinkler systems installed under this section shall meet the requirements of NFPA Standard 13D, *Standard for the Installation of Sprinkler Systems in One – and Two Family Dwellings and Manufactured Homes*.

Exception 2: If the length of the driveway does not exceed 50 feet

Section 503.7.5, shall be added as a new section and shall read: **Turnaround**. A vehicle turnaround installed in accordance with Template 16 or Template 18 of the Jefferson County Roadway Design and Construction Manual shall be required if the length of the driveway exceeds 150 feet in length.

Section 503.7.6, shall be added as a new section and shall read, **Approaches**. Driveway approaches shall comply to Standard 9, Driveway and Private Approaches into Roads in accordance with the Jefferson County Roadway Design and Construction Manual.

Section 503.7.7, shall be added as a new section and shall read **Alternate Standards**. The Fire Code Official may approve alternate standards for driveways. A written request and plan shall be submitted to the fire district for approval.

Section 503.8, **PRIVATE ROADS SERVING TWO TO FIFTEEN DWELLING UNITS** shall be added as a new section.

Section 503.8.1 shall be added as a new section and shall read: **General**. Private Roads shall be in accordance with section 501 and 503.

Section 503.8.2, shall be added as a new section and shall read: **Curve Radius.** Private Roads shall have a minimum horizontal curve radius of 30 feet at centerline.

Section 503.8.3, shall be added as a new section and shall read: **Width.** Private Roads shall have a minimum width of 20 feet, including 16 foot all weather travel surface and 2 foot shoulders on both sides in accordance with template 17 of the Jefferson County Roadway Design and Construction Manual, for private roads serving up to 15 dwelling units. Additionally, private roads shall be capable of supporting an imposed load of 68,000 pounds.

Exception: A total width of 14 feet including a 10 foot all weather travel surface, 2 foot shoulders on both sides, and vehicle pullouts, in accordance with Template 19 of the Jefferson County Roadway Design and Construction Manual, located at 150 foot intervals, may be approved.

Private roads serving 16 or more dwelling units shall have a total width of 24 feet including an 18 foot all weather travel surface and 3 foot shoulders on both sides in accordance with template 17 of the Jefferson County Roadway Design and Construction Manual.

Section 503.8.4, shall be added as a new section and shall read: **Grade.** Private roads shall have a maximum grade of 10 percent on straight sections. A maximum of 12 percent grade where the dip of the natural terrain bears between South 60 degrees East and South 45 degrees west is allowed. A maximum grade of 8 percent for curves with radius of less than or equal to 50 feet at centerline.

Exception 1: Upon written application the Fire Code Official may approve a grade of 15 percent on straight sections and 12 percent on curves if an approved automatic fire sprinkler system is installed in any Group R occupancies regardless of size and all Group U occupancies larger than 1000 square feet except agricultural barns. Sprinkler systems installed under this section shall meet the requirements of NFPA Standard 13D, *Standard for the Installation of Sprinkler Systems in One – and Two Family Dwellings and Manufactured Homes*

Exception 2: If the length of the driveway does not exceed 50 feet.

Section 503.8.5, shall be added as a new section and shall read: **Turnaround.** A vehicle turnaround installed in accordance with Template 16 or Template 18 of the Jefferson County Roadway Design and Construction Manual shall be required if the length of the private road exceeds 150 feet in length.

Section 503.8.6, shall be added as a new section and shall read, **Intersections.** Private road intersections shall comply to Standard 9, Driveway and Private Approaches into Roads in accordance with the Jefferson County Roadway Design and Construction Manual.

Section 503.8.7, shall be added as a new section and shall read **Alternate Standards.** The Fire Code Official may approve alternate standards for private roads. A written request and plan shall be submitted to the fire district for approval.

Section 503.8.8, shall be added as a new section and shall read: Where no suitable water system meets the requirements of Appendix B, Table B105.1, the Code Official shall use NFPA Standard 1142, (most current edition) *Water Supplies for Suburban and Rural Water Fire Fighting*, or a figure of 400 gallons per acre or 4000 gallons per structure, whichever is greater.

Exception 1: Where any structure is within 1000 feet, measured along an actual fire apparatus route, of an approved water supply and there exists a recorded document giving the Fire District the right in perpetuity to use said approved water supply for fire fighting purposes, the Fire Code Official may grant a variance for the water supply

requirements. If such water supply ever fails to meet the approval of the Fire District or is no longer available, then the water supply requirements shall be immediately met.

Exception 2: Installation of a minimum of 12,000 gallons of stored water, unless required for an automatic sprinkler system, shall not be required unless in the opinion of the Fire Code Official, the building or occupancy constitutes a significant hazard.

Section 503.9, **PLANNED DEVELOPMENT AND TRIPLEX OR LARGER MULTI-FAMILY STRUCTURES** shall be added as a new section.

Section 503.9.1, shall be added as a new section and shall read: **General.** Planned developments, subdivisions, planned building groups, and exempt from platting shall be in accordance with section 501 and 503 regardless of covenants and private treaty.

Section 503.9.2, shall be added as a new section and shall read: **Water Supply.** All new planned development, subdivisions, planned building groups, and exempt from platting shall supply 4000 gallons of water per dwelling or 400 gallons per acre, whichever is greater. This formula shall apply to the entire subdivision or size of property originally platted as a new subdivision or property, and will not allow for deeding acreage to any private, governmental or non-profit entity.

Section 503.9.3, shall be added as a new section and shall read: If a water supply requirement exceeds 50,000 gallons, a pressurized hydrant system shall be installed as specified in the 2006 IFC Appendix B & C.

Exception: If an approved automatic fire sprinkler system is installed in all occupancies regardless of size except agricultural barns a bulk water cistern will be allowed. Sprinkler systems installed under this section shall meet the requirements of NFPA Standard 13, *Standard for the Installation of Sprinkler Systems*, NFPA Standard 13D, *Standard for the Installation of Sprinkler Systems in One – and Two Family Dwellings and Manufactured Homes*, NFPA Standard 13R, *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and including Four Stories in Height*.

Section 503.9.4, shall be added as a new section and shall read: All water supplies shall be approved by the Fire Code Official, and shall be installed and operational prior to any construction.

Section 503.9.5, shall be added as a new section and shall read: All water supplies shall remain the responsibility and be maintained by the owners of the property served.

Section 503.9.6, shall be added as a new section and shall read: Non-compliance with Section 503 shall result in the issuance of a final violation notice.

Section 503.10, **COMMERCIAL DEVELOPMENT AND TRIPLEX OR LARGER MULTI-FAMILY STRUCTURES** shall be added as a new section.

Section 503.10.1, shall be added as a new section and shall read: **General.** Commercial development and triplex or larger multi-family structures shall be in accordance with section 501 and 503.

Section 503.10.2, shall be added as a new section and shall read: **Water Supply.** On site water supply shall meet the requirements of the NFPA Standard 1142, (most current edition) *Water Supplies for Suburban and Rural Water Fire Fighting*.

Exception 1: Where any structure is within 1000 feet, measured along an actual fire apparatus route, of an approved water supply and there exists a recorded document giving the Fire District the right in perpetuity to use said approved water supply for fire fighting purposes, the Fire Chief may grant a variance for the water supply requirements. If such water supply ever fails to meet the approval of the Fire District or is no longer available, then the water supply requirements shall be immediately met.

Exception 2: Installation of less than 12,000 gallons of stored water, unless required for an automatic sprinkler system, shall not be required unless in the opinion of the Fire Code Official the building or occupancy constitutes a significant hazard.

Section 503.10.2.1, shall be added as a new section and shall read: If a water supply requirements exceeds 50,000 gallons, a pressurized hydrant system shall be installed as specified in the 2006 International Fire Code Appendices B and C.

Exception: If an approved automatic fire sprinkler system is installed in all occupancies regardless of size except agricultural barns a bulk water cistern will be allowed. Sprinkler systems installed under this section shall meet the requirements of NFPA Standard 13, Standard for the Installation of Sprinkler Systems, NFPA Standard 13D, Standard for the Installation of Sprinkler Systems in One – and Two Family Dwellings and Manufactured Homes, NFPA Standard 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and including Four Stories in Height.

Section 503.10.2.2, shall be added as a new section and shall read: All water supplies shall be approved by the Fire Code Official and shall be installed and operational prior to any construction.

Section 503.10.2.3, shall be added as a new section and shall read: All water supplies shall remain the responsibility and be maintained by the owners of the property served.

Section 503.10.3, shall be added as a new section and shall read: Non-compliance with Section 503 shall result in the issuance of a final violation notice.

Section 506.1, delete and replace with: **When Required.** Any commercial structure protected by a fire alarm system, including special systems shall be required to provide and install a Key Box in an accessible location. The key box shall be of an approved type and shall contain keys to gain necessary access as required by the code official. In the event that the building is condemned or abandoned, the building owner or appropriate designee shall be required to remove the key box and return it to the District.

Section 508.2.2.1, shall be added as a new section and shall read: All new cisterns shall be made up of pre-fabricated concrete, pre-fabricated steel or pre fabricated fiberglass. All cisterns shall be of a single tank type and meet the total capacity required and shall meet the Elk Creek Fire Protection Districts Fire Cistern Standard. Additionally, fire cisterns shall be filled and maintained by the property owner or designee. The District will replace any water taken out of the cistern for training or actual fire free of charge. Ownership of the cistern(s) shall be maintained by the property owner and an easement granting access to the said cistern shall be provided to the District.

CHAPTER 9- FIRE PROTECTION SYSTEMS

Section 901.6, Add to section: The Fire Code Official shall approve the removal of any nonrequired fire protection systems or equipment.

Section 907.2, shall be added as third paragraph and shall read: An approved automatic and manual fire alarm system shall be installed and maintained in all new A, B, E, F, H, I, M, R-1, R-2, R-4 and S, occupancy group classification regardless of size.

Section 907.2.3, shall be added as a second paragraph and shall read: Day care facilities providing care for more than 6 persons shall be equipped with an automatic and manual fire alarm system.

Section 907.9.5, shall be added as an additional sentence and shall read: All supervising stations shall be listed.

CHAPTER 10 – MEANS OF EGRESS

Section 1004.2, add sentence at end of paragraph: **Overcrowding is prohibited.** An admittance of persons beyond the approved capacity of a place of assembly is prohibited. The Fire Code Official, upon finding over crowding conditions or obstructions in aisles, passageways or other means of egress, or upon finding a condition which constitutes a serious menace to life is authorized to cause the performance, presentation spectacle or entertainment to be stopped until such condition or obstruction is corrected.

CHAPTER 24 – TENTS AND OTHER MEMBRANE STRUCTURES

Section 2404.15.6, add sentence at end of paragraph: Cooking of food, producing grease laden vapors, shall be prohibited in tents, canopies and membrane structures.

CHAPTER 33 – EXPLOSIVES & FIREWORKS

Section 3310, shall be added as a new section and shall read: This chapter shall be interpreted to be consistent with the provisions of (12-28-101, *et seq.*, C.R.S.) and any applicable county resolution/ordinance, shall govern all fireworks, their sale, storage and use.

CHAPTER – REFERENCED STANDARDS

Add the following paragraph: The latest and most current edition of the following codes and standards shall be used. In the event of a conflict between the provisions of these codes or standards and Colorado State Statutes, the most stringent provisions shall apply.

Add NFPA 1144-02 Standard for Protection of Life and Property from Wildfire

Appendix K

FEE SCHEDULE FOR PLAN REVIEW, INSPECTIONS AND PERMITS & FIRE CODE VIOLATION FINES

The Elk Creek Fire Protection District shall have the authority to place a fee on the following reviews, inspections and permits.

Construction Permit Fees

New Residential Building (includes all required plan review and inspections)

Single Family Dwelling	\$500.00
Multi-Family Dwelling	\$500.00 per dwelling

Commercial Buildings

New construction	\$.15 / sf
Tenant Finish / Remodel	\$.15 / sf
Fire Alarm	\$25.00 + \$.02 X valuation
Sprinkler System	\$25.00 + \$.02 X valuation
Special Extinguishing Systems (Kitchen Hood, FM-200, ect.)	\$100.00
Re-Inspection Fee	\$100.00
(Fee shall double for each subsequent re-inspection)	
Spray Booth Plan Review and Inspection	\$200.00 per booth
Hourly Rate	\$150.00 / Hour
Other Plan Review (without inspection)	\$100.00
Other Plan Review (with inspection)	\$150.00
Rush Plan Review – 72 Hour	\$100.00
Rush Plan Review – 48 Hour	\$250.00
Rush Plan Review – 24 Hour	\$500.00
After Hour Inspection on Normal Working Day	\$500.00 per system
After Hour Inspection on Weekends	\$1000.00 per system

Operational Permit Fees

Hazardous Material Operational Permit	\$100.00
Fireworks Display Outdoors	\$150.00
Fireworks Stand	\$1500.00
Special Event Permit (fee waived for non-profit events)	\$100.00

General Fees for Fire Prevention

Fire Investigation Report	\$25.00
Call Reports	\$10.00
Investigative Photographs (35mm)	\$2.00 each
Digital Photographs	\$1.00 each
Investigative Videos	\$35.00 each
Re-Issue Permits	\$25.00
Fire Watch	\$50.00 per hour/per firefighter
Re-Inspection of Business Inspection (after 2 re-inspections)	\$100.00
Nonrequired Cistern Plan Review and Inspection	\$50.00
Cistern filling 0 to 20,000 gallons	\$500.00 Minimum
20,000 gallons or more (\$500.00 Minimum)	\$50.00 per Additional Tanker

Fines for Violations of the Fire Code

Restitution of Intentional False Alarm	\$1000.00 per apparatus per hour
Special Event without Permit	Double Fee
Defacing Fire Alarm /Fire Protection	\$500.00
Re-setting Fire Alarm/Protection System Unauthorized	\$100.00
Construction without a Permit (fines double for each offense)	\$500.00
Tampering with Fire Alarm/Protection System	\$1000.00
Interference with a Firefighter	\$1000.00
Fire Code Violation without Compliance	\$100.00 per day per violation

False Fire Alarm Fee Schedule (including residential dwellings)

First three fire alarms in a twelve month period	No Charge
4 th . False alarm in a twelve month period	\$100.00
5 th . False alarm in a twelve month period	\$200.00
6 th . False alarm in a twelve month period	\$400.00
7 th . False alarm in a twelve month period	\$800.00

Fines continue doubling for each false alarm after the 7th

APPENDICES ADOPTED UNDER THE 2009 INTERNATIONAL FIRE CODE SHALL INCLUDE

- B FIRE FLOW REQUIREMENTS FOR BUILDINGS
- C FIRE HYDRANT LOCATION AND DISTRIBUTION
- E HAZARD CATEGORIES
- F HAZARD RANKING
- G CRYOGENIC FLUID – WEIGHT AND VOLUME EQUIVALENTS
- H HAZARDOUS MATERIALS MANAGEMENT PLAN
- I FIRE PROTECTION SYSTEMS – NONCOMPLIANT CONDITIONS
- J EMERGENCY RESPONDER RADIO COVERAGE
- K add as a new appendix: FEE SCHEDULE FOR PLAN REVIEW, INSPECTIONS AND
PERMITS & FIRE CODE VIOLATION FINES