



Rock Community Fire Protection District

3749 Telegraph Rd. Arnold, MO 63010

Email: tberg@rockfire-rescue.org

(636) 296-2211 Ext. 5728 Office

www.rockfire-rescue.org

Fire Protection Permit Application

Owner Name: _____	Address: _____
City, State, Zip: _____	Phone: _____
Email: _____	

Contractor: _____	Contact: _____
Address: _____	Phone: _____
City, State, Zip: _____	Email: _____
Phone: _____	Engineer/Designer: _____

Project Description: _____

<u>Fire Protection/Extinguishing System</u>	<u>Fire Alarm Systems</u>
Type of System: <input type="checkbox"/> Wet Pipe <input type="checkbox"/> Dry Pipe	<input type="checkbox"/> Commercial <input type="checkbox"/> Industrial
<input type="checkbox"/> NFPA 13 <input type="checkbox"/> 13R <input type="checkbox"/> 13 D	<input type="checkbox"/> Assembly <input type="checkbox"/> Educational <input type="checkbox"/>
<input type="checkbox"/> Pre-action system <input type="checkbox"/> Nitrogen	<input type="checkbox"/> F, I, H use group <input type="checkbox"/> other
<input type="checkbox"/> Fire Pump <input type="checkbox"/> Addition/Re-locates <input type="checkbox"/> # of heads	<input type="checkbox"/> UUFX/NFPA 72 Compliant
<input type="checkbox"/> Underground Fire Main/PIV	
<input type="checkbox"/> Hydraulic calculations/submittal data/plans (Minimum 2 copies)	
<input type="checkbox"/> Kitchen fire suppression systems/Paint Booth Type/Brand of system _____	
<input type="checkbox"/> CO2 Extinguishing system	
Construction Cost: _____	Construction Cost: _____

The Undersigned acknowledges that he/she has read this application and the above information is correct and accurate. Applicant also understands by signing this application he/she could be held responsible as representative of this project for any violation of compliance with all applicable laws and ordinances of the Rock Community Fire Protection District.

_____ Signature of Applicant	_____ Date
Permit #: _____	Permit Fee: _____
Date Paid: _____	Plans approved: _____ (initial)



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Fire Sprinkler System Requirements and Information

Adopted Standards/Codes (Including Specific Edition)

- ☐ 2015 International Fire Code/Building Code
- ☐ NFPA 13-Standard for the Installation of Sprinkler Systems, most current edition
- ☐ NFPA 72-National Fire Alarm Code, most current edition
- ☐ NFPA 24 Standard for the Installation of Private Fire Service Mains and Appurtenances (most current edition).
- ☐ NFPA Standards (most current edition).
- ☐ Ordinance #101 of the Rock Community Fire Protection District

Plan Review & Submittal Requirements

1. Application form filled
2. New and Existing system alterations shall comply with applicable design standards and shall conform to requirements as specific in this section.
3. The typical time period for plan review of all projects is 2 weeks.
4. 2 sets of signed sealed drawings by professional engineer, 1 set of hydraulic calculations required for plan review.
5. Permit fees shall be paid prior to starting of job.

Underground Pipe Requirements

1. **C-900 CPVC** high pressure rated pipe per **NFPA 24** for underground fire mains.
2. Methods of underground restraints-Thrust blocks where soil is suitable, all requirements shall comply with NFPA 24 Chapter 10.
3. **P.I.V. NFPA 24 Chapter 6.** A post indicator valve shall be installed not less than 40 ft from the building.
4. **Underground Pipe**-2-hour hydrostatic test pressured at 200 lbs.
5. **Underground flushing of pipe**-flushing operation shall continue until water flow is verified to be clear of debris and a 20-minute underground flush is required to obtain a minimum velocity of 10 ft/sec per NFPA 24 Table 10.10.2.1.3.

Table 10.10.2.1.3

Nominal Pipe Size (inches)	Flow Rate (gpm)
4	390
6	880
8	1560
10	2440
12	3520

Requirements for Hydrostatically testing/equipment needed for flushing underground fire main:

- ☐ Contractor is responsible to perform a pretest on the system before notifying AHJ for acceptance testing.
- ☐ Notify the AHJ 24 hours before date of test.
- ☐ Perform all required acceptance tests.
- ☐ Hose Monsters to divert water.
- ☐ Burlap bags are required to collect debris/rocks that might cause damage to buildings or vehicles.
- ☐ Pitot gauge to check required (GPM) flow requirements per NFPA 24 Table 10.10.2.1.3
- ☐ Copy of NFPA 24 figure 10.10.1 Contractor's Material and Test Certificate for Underground Piping shall be given to the Fire Marshal after acceptance testing is completed and approved.
- ☐ System to be tested at 200 psi for 2 hours:
 - ☐ -50 psi in excess of static pressure over 150 psi
 - ☐ -Leakage shall not exceed 2 quarts per hour per 100 gaskets or joints.

Additives:

At no time should additives, corrosive chemicals, such as sodium silicate, brine, or other chemicals *shall not* be used while hydrostatically testing the system or for stopping leaks.

Safety Considerations:

Excavations exceeding 5 ft. in depth shall require sloping, shoring or shielding unless solid rock is present.

Special Standpipe Requirements for Installation:

Per Rock Community Fire Protection District ordinance #101-**Section F905.3.1 Standpipe Systems (Page 116)**

Height: Delete except for exceptions: Add new subsection: Class III standpipe systems shall be installed in all commercial buildings with an *automatic sprinkler system*, shall be located in stairwells on intermediate landing where *2 floors or more are present*.

Fire Hose Threads and F.D.C Requirements:

- ☐ All thread connections shall be N.S.T (National Standard Thread).
- ☐ FDC access shall be clear and unobstructed for a width of 36 inches on either side and 78 inches in height.
- ☐ FDC shall be located **not less than 18 inches** and **no more than 4 ft above** the level of the adjacent grade or access level.
- ☐ FDC sign shall be installed. Sign shall be 12 inches H X 18 inches L, reflective white with red 6-inch letters.
- ☐ **FDC** shall be no more than 100 feet from fire hydrants or approved by fire code official.
- ☐ **FDC** shall be 5-inch Storz connection with 30-degree bend.
- ☐ **FDC** shall have a locking 5-inch Storz cap. (ordered from Knox Company).



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FIRE ALARM DRAWING REQUIREMENTS

Fire alarm drawings submitted to the Rock Community Fire Protection District shall comply with the ICC codes, NFPA 72, NFPA 70 and RCFPD ordinance #101.

2 sets of Shop drawings NICET Level 4 or sealed by engineer. All drawings for fire alarm systems shall be submitted for review and approval prior to installing the system and shall include, but not limited to, all the following.

1. All fire alarm systems shall be **UL UUFX certified**.
2. All fire alarm systems shall have document box per NFPA 72.
3. Declaration Page completed by contractor and returned to FM office. (on website).
4. Remote annunciator panel required by entrance per RCFPD ordinance #101 and shall be clearly accessible/visible from entry.
5. Point to Point addressable system. EOL device shown.
6. Proper spacing/coverage/location of spot detectors (heat & smoke).
7. Proper spacing/coverage/location of beam detectors.
8. Proper location of duct detectors. Label all test switches with RTU and #.
9. Proper spacing and location of pull stations.
10. Proper location of detectors associated with door holders.
11. Proper location of detectors associated with stair pressurization.
12. Proper spacing/coverage/location of notification appliances checked with discipline meter for proper dba.
13. Add condition that audible notification be checked during inspection
14. Sprinkler flow switches monitored.
15. Sprinkler tamper switches monitored.
16. Fire pump monitored.
17. Battery calculations.
18. Device legend.
19. Elevator control room, shaft, and recall.
20. Special systems, VESDA, etc.
21. All fire and burglar panels shall have code **"7100"** programmed into panel for fire department. Per RCFPD ordinance #100.
22. All devices shall be labeled with proper device and/or module #.
23. 100% completed acceptance test with NFPA 72 certificate of completion and UL certificate.

If you have any questions, please feel free to contact me at 636-296-2211 extension 5748

Fire Marshal
Jeff DeLapp



Rock community Fire Protection District

Owner's Declaration of Fire Alarm Certifying (UL) or Placarding (FM) Company

Owner Name: _____

Agent Name: _____

Site address: _____

Project name: _____

Owner/Agent Phone: _____

Owner/Agent Fax: _____

I understand that the fire alarm system required for the above project is a single system for which the building owner is responsible, and it is required to meet the requirements of 2015 the International Fire Code, RCFPD ordinance #100 as amended, and NFPA 72 requirements for Central Station Service. As such, my bid specifications and contracts require the system to meet the requirements of Central Station Service and be certificated (UL) or placarded (FM) in accordance with the options identified in NFPA 72 for Central Station Service and third-party verification.

I have identified below, the Fire Alarm Company I will be hiring to provide Certification or Placarding of this building's fire alarm system.

☐ A UUFX listed full service central station company

☐ A UUFX listed Fire Alarm Service-Local Company

Date of Compliance: _____

Company Issuing

Certificate/Placard: _____

Company Address: _____

Contact Name: _____

Listing Number: _____

Company Phone: _____

I understand the following:

- The system installation permit will **NOT** be approved and issued unless an approved company has been identified above.
- The system installation will not be signed off nor an occupancy permit issued until the Fire Marshal or Fire Inspector verifies a certificate (or placard) is on site, or receives a copy of an acceptable "request for certificate" receipted and numbered by Underwriter's Laboratories (or Similar from Factory Mutual System)

DO NOT sign this form unless you understand what it requires. If you have questions, please contact the Rock Community Fire Protection District for this project

Signature of Owner or Owner's Agent

Date

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