



**FIRE SUPPRESSION
APPLICATION
CITY OF HAMTRAMCK
www.hamtramck.us**



**BUILDING DEPARTMENT 3401 EVALINE
HAMTRAMCK, MICHIGAN 48212
(313) 800-5233 Ext. 296**

**FIRE DEPARTMENT - FIRE PREVENTION BUREAU
2625 CANIFF ST. HAMTRAMCK, MICHIGAN 48212
(313) 305-4503 Ext. 225**

PERMIT TYPE:	TYPE:	# OF SYSTEMS:
SPRINKLER	HYDRAULIC	?
CIRCLE ONE	PIPE SCHEDULE	?
IN EACH		?
DRY/WET CHEMICAL		?
COLUMN		?
GAS SUPPRESSION		?
HOOD SUPPRESSION		?
PAINT SPRAY BOOTH		?
STANDPIPE		?

ENTER NUMBER
IN BOX

PROPERTY ADDRESS & INFORMATION

STREET NUMBER _____ STREET NAME _____ UNIT NUMBER _____

NAME OF BUSINESS AT THIS LOCATION _____

APPLICANT INFORMATION:

CONTRACTOR NAME AS SHOWN ON LICENSE _____

STREET ADDRESS _____ PHONE NUMBER (____) _____

CITY _____ STATE _____ ZIP _____ FAX NUMBER (____) _____

E-MAIL ADDRESS (REQUIRED) _____

NOTE: ALL CONTRACTORS MUST REGISTER WITH THE CITY ON A SEPARATE FORM

PROPERTY OWNER:

FIRST NAME _____ LAST OR BUSINESS NAME _____ STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____ PHONE NUMBER (____) _____

ALL REQUESTED INFORMATION MUST BE PROVIDED - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

**FILL IN ONE OF THE NEXT TWO BOXES BELOW COMPLETELY
DEPENDING ON THE TYPE OF SYSTEM**

FIRE SPRINKLER SYSTEMS:

CONSTRUCTION COST: _____ (INCLUDE ALL COSTS INCLUDING WATER SUPPLY)

TOTAL BUILDING SQUARE FOOTAGE: _____ # OF FIRE AREAS: _____

TOTAL# OF HEADS: _____ 13ACKFLOW PREVENTER: NEW EXISTING

CURRENT CERTIFICATION: YES NO

WATER UTILITIES: NEW _____ EXISTING _____ SIZE _____

FINISH FLOOR ELEVATION: _____ FINISH GRADE ELEVATION: _____

KNOX BOX ON BUILDING?: YES LOCATION _____

NO _____ (IF 10, OBTAIN APPLICATION FROM F.D.)

DRY/WET CHEMICAL OR GAS, HOOD SUPPRESSION, SPRAY BOOTH OR STANDPIPE:

CONSTRUCTION COST: _____ (INCLUDE ALL COSTS INCLUDING WATER SUPPLY)

SUPPRESSION AGENT: _____ # OF POUNDS OF AGENT: _____

TOTAL# OF HEADS/NOZZLES: _____

BACKFLOW PREVENTER: 1EW EXISTING

CURRENT CERTIFICATION: YES NO

KNOX BOX ON BUILDING?: YES NO (IF NO, OBTAIN APPLICATION FROM F.D.)

ARCHITECT OR ENGINEER: (IF APPLICABLE)

FIRST NAME LAST OR BUSINESS NAME NUMBER STREET NAME

CITY STATE ZIP PHONE NUMBER

() _____

FACSIMILE NUMBER (REQUIRED)

SEND PLAN REVIEW COMMENTS TO THE ARCHITECT/ENGINEER APPLICANT

ALL SUBMISSIONS MUST INCLUDE FOUR COPIES OF THE CONSTRUCTION DOCUMENTS. TWO COPIES MUST BE A FULL SIZE COPY (24 X 36 MAXIMUM) TO SCALE, AND TWO COPIES MUST BE NO LARGER THAN 11 X 17 INCHES. ALL REDUCED COPIES MUST BE FULLY LEGIBLE AND HAVE A GRAPHIC SCALE. REVERSED TEXT DRAWINGS WILL NOT BE ACCEPTED.

DESCRIBE THE OVERALL SCOPE OF THE WORK

THE FOLLOWING ATTACHMENTS ARE PART OF THIS APPLICATION FORM:

FIRE RISER DETAIL

FIRE DEPARTMENT MINIMUM PLAN REVIEW REQUIREMENTS

BUILDING DEPARTMENT LOCAL REQUIREMENTS FOR INSPECTION OF FIRE PROTECTION SYSTEMS

INSPECTION PROCEDURES

FIRE SUPPRESSION DESIGN CRITERIA

FIRE SUPPRESSION PERMIT FEE SCHEDULE

FIRE SUPPRESSION FEE WORKSHEET (TO BE RETURNED WITH APPLICATION)

PERMIT PROCESS FLOW CHART

PERMITS ARE NOT TRANSFERABLE AS TO PERSON OR PLACE AND ARE NOT REFUNDABLE. ISSUANCE OF A PERMIT DOES NOT GUARANTEE COMPLIANCE WITH ANY CODE. PLAN REVIEWS NOTE ALL OBSERVED DEFECTS AND ARE SUBJECT TO FIELD CORRECTION. COMPLETED WORK MUST BE INSPECTED IMMEDIATELY. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS AND PAYMENT OF FEES. IF WORK IS STARTED BEFORE A PERMIT IS ISSUED, AN ADDITIONAL INVESTIGATIVE FEE WILL BE ASSESSED.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT 230 OF THE PUBLIC ACTS OF 1972, BEING SECTION 125.15321 OF THE MICHIGAN COMPILED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THE STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.

APPLICANT SIGNATURE:

I HEREBY CERTIFY THAT I HAVE RECEIVED, READ AND UNDERSTAND THIS FORM AND THE ABOVE ATTACHMENTS AND THAT ALL INFORMATION PROVIDED HEREIN IS CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE.

APPLICANT'S SIGNATURE

DATE

DRIVERS LICENSE NUMBER

DATE OF BIRTH

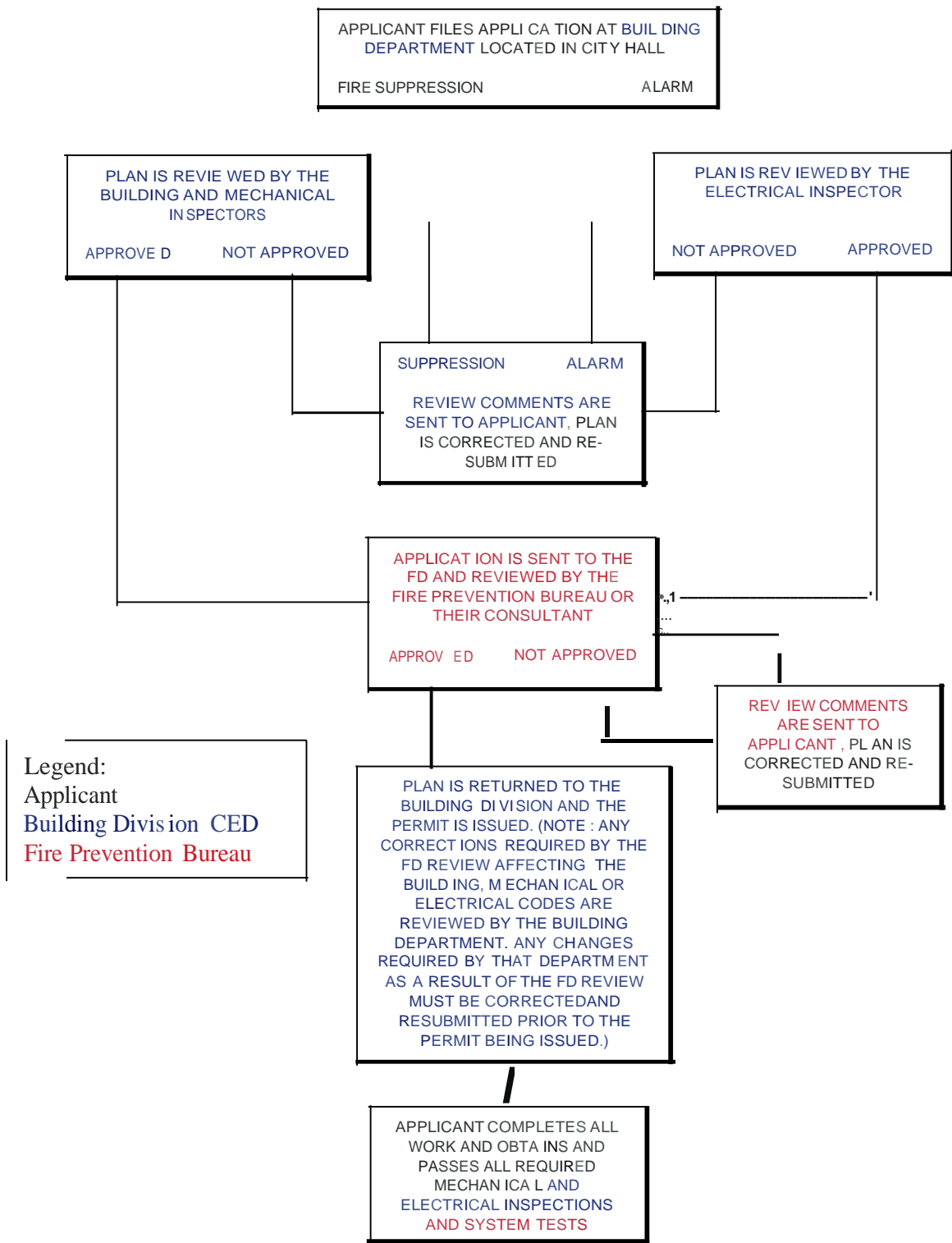
OFFICE USE ONLY

	FEES:	PAID:	
Admin Fee COD:	_\$50.00_	_____	Permit #: _ _ _ _ _
Admin Fee FD:	_\$100.00_	_____	Date Issued: _____
Mech Insp:	_\$75.00_	_____	Issued by: _ _ _ _ _
Plan Review Fee:	_____	_____	
Contractor Registration:	_\$15.00_	_____	
Investigative Fee:	_____	_____	
Other:	_____	_____	
TOTAL:	_____	_____	

OFFICE USE ONLY:	
_____	_____
APPROVED BY	DATE
COMMENTS:	

CITY OF HAMTRAMCK

FIRE SUPPRESSION AND FIRE ALARM PERMIT PROCESS



CITY OF HAMTRAMCK

BUILDING DEPARTMENT
(313) 800-5233 x296

FIRE DEPARTMENT
FIRE PREVENTION BUREAU
(313) 305-4503 x225

www.hamtramck.us

FIRE SUPPRESSION PERMIT FEES AND POLICIES

1. FEE SCHEDULES:

COD Administration Fee: \$50.00 (Required on all permits)
 FD Administration Fee: \$100.00 (Required on all permits)

Mechanical Inspection - COD \$75.00 each (One required on all permits)

Re-Inspection Fee: \$40.00 each inspection (Charged on all failed inspections by COD and FD. Must be paid prior to re-inspection.)

FD Plan Review Fees:

In-House Reviews: Project cost x .03, minimum \$200.00

Outside Consultant Reviews:

Fire Suppression Systems:

Number of Heads	Fees:
1 to 20	\$200.00
21 to 100	\$400.00
101 to 200	\$525.00
201 to 300	\$650.00
301 to 500	\$900.00
Over 500	\$900 plus \$ 1.00 per head over 500
Fire Pumps or standpipes	\$200.00 per pump or standpipe
Rush Plan Reviews:	Add 100% to base fee. 1 to 3 days turn around. Add \$25 for overnight plan return.

Restaurant Hood Systems:

Wet Chemical Systems	Mechanical Hood and Duct Systems
1 to 15 nozzles \$250.00	\$300.00 per hood system
16 to 30 nozzles \$350.00	Additional hood at same time \$150.00
31 to 50 nozzles \$500	
Over 50 nozzles \$500.00 plus \$8.00 per nozzle over 50	

Clean Agent or Dry Chemical Systems

Pounds of Sunnression Aecent	Fee
1 to 50	\$225.00
51 to 100	\$275.00
101 to 200	\$300.00
201 to 300	\$325.00
301 to 400	\$350.00
401 to 500	\$375.00
501 to 750	\$450.00
751 to 1,000	\$525.00
Over 1,000	\$525 plus \$0.20 for each pound of Agent over 1,000
Rush Plan Reviews:	Add 100% to base fee.* 1 to 3 days turn around.

* add \$25 for overnight plan return

Other fees:

Other fees may apply. Contact the Fire Prevention Bureau if there are questions.

By-Pass Meter

\$175.00 (Paid separately at the Water Department.)

Contractor Registration Fee:

\$15.00 for term of license. (Requires valid State Mechanical license, driver's license, workman's compensation information and a federal I.D. number. Initial registration must be done in person by license holder.)

2. POLICIES:

All applications are received at the Ouilding Department in City Hall.

All plan reviews include one initial and one follow-up review. Additional fees will be charged for plan reviews past one follow-up review.

Mechanical inspections are scheduled through the Building Department at (313) 800-5233 x296. Hydrostatic and other system tests are scheduled with the Fire Prevention Bureau at (313) 305-4503 X225. All tests and inspections that are not approved require payment of a \$40.00 re-inspection fee to both Departments prior to re-inspection.

**FIRE SUPPRESSION PERMIT
FEE COMPUTATION WORKSHEET
(SUBMIT WITH PERMIT APPLICATION)**

FEE ITEM:	DESCRIPTION:	FEE:	#OF ITEMS:	TOTAL:
COD Admin. Fee	Building Division Administration Fee (Req.)	\$50.00	I	\$50.00
FD Admin. Fee	Fire Department Administration Fee (Req.)	\$100.00	I	\$100.00
Mechanical Insp.	Building Division Mechanical Inspection (Req.)	\$75.00	I	\$75.00
	Additional Mechanical Inspection(s)	\$75.00		
FD Review Fees:	In-House Review (Contact FD to determine if applicable)	Project cost x .03, \$200 Min.		
	Consultant Reviews Fire Suppression:			
	Fire Suppression - Number of Heads	Fee:		
	I to 20 heads	\$200.00		
	21 to 100	\$400.00		
	101 to 200	\$525.00		
	201 to 300	\$650.00		
	301 to 500	\$900.00		
	Over 500	\$900.00 plus \$1.00 per head over 500		
	Fire Pump or standpipe	\$200		
	Restaurant Hood Systems:			
	Wet Chemical Systems up to 15 nozzles	\$250.00		
	Wet Chemical Systems 16 to 30 nozzles	\$350.00		
	Wet Chemical Systems 31 to 50 nozzles	\$500.00		
	Wet Chemical Systems over 50 Nozzles	\$500 plus \$8 per nozzle over 50		
	Mechanical Hood and Duct System	\$300 per system		
	Additional hood at same time	\$150.00		

(CONTINUED)

FEE ITEM:	DESCRIPTION:	FEE:	#OF ITEMS:	TOTAL:
	Clean Agent or Ory Chemical Systems			
	1 to 50 lbs.	\$220.00		
	51 to 100 lbs.	\$275.00		
	100 to 200 lbs.	\$300.00		
	201 to 300 lbs.	\$325.00		
	301 to 400 lbs.	\$350.00		
	401 to 500 lbs.	\$375.00		
	501 to 750 lbs.	\$450.00		
	751 to 1,000 lbs.	\$525.00		
	Over 1,000 lbs.	\$525 .00 plus \$0.20 per pound over 1,000		
	Rush FD Review - 1 to 3 days - Fax	Add 100% to base review fee.*		
	*Add \$25.00 for overnight plan delivery.			
Other:				
By-pass Meter	By-pass Meter paid to Water Department*	\$ 175 .00		
	TOTALS:			

*Applicant may furnish their own bypass meter.

HAMTRAMCK FIRE DEPARTMENT
 "RIGHT-TO-KNOW"
EMERGENCY CONTACT FORM

A. Address

Telephone Number

B. Business Name

Fax Number

C. EMERGENCY CONTACTS:

INCLUDE AREA CODE

<u>FIRE ALARM Company</u>	<u>*Telephone Number*</u>
<u>SECURITY ALARM Company</u>	<u>*Telephone Number*</u>

D. PRINT Person | **AFTER-HOUR** Contact Names/Title

Phone Number

1.	
EMAIL:	
2.	
EMAIL:	
3.	
EMAIL:	
4.	
EMAIL:	

Completed By:
 (Please Print) _____

Update as of this date: _ _ _ _ _

Complete this form and give to the fire inspector at the time of the inspection.

FINAL INSPECTION REQUIREMENTS FOR FIRE PROTECTION, EMERGENCY LIGHTING AND LIFE-SAFETY.

Due to the complexity involved in inspecting and approving the above systems the following shall be the policy regarding final inspections:

In all new or remodeled commercial, industrial and multi-family construction the final inspection of the fire suppression (sprinkler) system, the emergency lighting system, required alarm systems and general life-safety issues including egress routes and aisle width will be done as a combined inspection by the Fire Department and Building Department.

The following guidelines apply:

1. The construction must be substantially complete and ready for occupancy.
2. All suppression, alarm and lighting systems must be fully operational.
3. Fire suppression systems must be pressurized for a hydrostatic test.
4. All windows must be blacked out with plastic or other acceptable means.
5. All fixtures and stock must be in place.
6. All portable fire fighting equipment must be permanently installed.
7. All contractors involved with the systems being inspected shall be on site.

The following items will be checked/tested. (Not an inclusive list.)

1. Complete hydrostatic, residual pressure (open drain) and, where required, trip time tests on the fire suppression (sprinkler) system and fire pump if so equipped.
2. Audible and visual indicators for fire alarms. These alarms must be visible from all occupied areas of the structure and produce a sound level of at least 60dB everywhere in the structure.
3. Emergency lighting system. Emergency lights must produce a light level of not less than one foot-candle in all main and secondary aiseways, at all exit doors and in vestibules, and sufficient additional lighting to permit safe egress from all other areas.
4. All aisles must provide the minimum required and unobstructed width for their entire length and may not be narrowed in the direction of egress travel.
5. Operation of all door panic hardware.
6. Placement and visibility of fire extinguishers and related signage.
7. Placement of Knox Box.
8. Location and readability of the permanent address on building.
9. Location and wording of fire lane signage.
10. Accessibility and labeling of the F.D. connection.



INFORMATION REQUIRED FOR FIRE ALARM AND FIRE SUPPRESSION PLAN REVIEWS

Sprinkler System Submittals:

***See NFPA 13 for a complete submittal list.**

- Plans must be to scale and clearly show work to be done including a detailed scope of work.
- Plan must show the job name and address, building dimensions and total square feet.
- The specific type and quantity of sprinklers shall be provided on every page.
- Catalog cut sheets for all sprinklers, valves, etc. shall be included and highlighted.
- Fire hydrant flow test information shall be dated and less than 1 year old.
- Hydraulic calculations shall clearly show the friction loss for the backflow preventer and include a graph curve sheet.
- All hydraulic node points shall be clearly shown on the drawings.
- All ceiling information including soffits, heights, construction type, slope, etc. shall be shown and noted with cross section detailed on the plans.
- Specific code sections and storage information shall be provided for all design densities over Ordinary Group II.
- All plans shall have the contractor's name, address, phone and fax number.
- Provide a scaled site plan clearly showing the building fire department connection location and fire hydrant locations.

Fire Alarm System Submittals:

***See NFPA 72 for a complete submittal list.**

- Plans shall be to scale and include a scope of work outlining details of the project.
- Plans must show job name and address, building dimensions and total square feet.
- The square foot area of the building shall be noted on the plans.
- Catalog cut sheets shall be provided and highlighted for all components to be installed.
- Specific details shall be provided regarding the offsite monitoring of the system including type of transmission means and name and location of receiving station.
- All wiring information shall be shown on the plans including size, type, and all point to point wire runs.
- Complete battery back up calculations shall be provided that clearly note battery size to be provided.
- Voltage drop calculations for notification devices shall be provided.
- All plans shall have the contractor's name, address, and phone number.

Kitchen Hood Wet Chemical System Submittals:

***See NFPA 17A for a complete submittal list.**

- Plans shall include exact hood, duct, pipe and appliance dimensions.
- Plans must show job name and address, building dimensions and total square feet.
- Catalog cut sheets shall be provided for all nozzles and equipment to be used.
- The tank size and flow point count shall be noted on the plans.
- All plans shall have the contractor's name, address, and phone number.
- A plan view of the kitchen shall show the hood, tank, and pull station locations.
- The plans shall clearly show the type of nozzles to be used and show the mounting height, and aiming point for each.

Kitchen Hood Mechanical System Submittals:

***See NFPA 96/mechanical code for a complete submittal list.**

- Plans shall include complete hood, duct and mounting dimensions.
- Plan must show job name and address.
- Plans shall include a roof detail showing the exhaust fans and all equipment within 15'.
- Specific information and manufacturer's UL listing shall be provided for all hoods calculated for other than code requirements.
- Complete calculations shall be shown for both the CFM and FPM used in sizing the exhaust duct and fan.
- Plans shall have the contractor's name, address, and phone number-----



LOCAL REQUIREMENTS FOR INSPECTION OF FIRE PROTECTION SYSTEMS

1. All hydrostatic and alarm tests must be scheduled directly with the fire department at 313-305-4503 Ext. 225. That office will coordinate with the building department. Piping inspections must be scheduled in the normal manor by calling 313 800-5233 Ext. 296.
2. The riser must be installed in accordance with the approved piping detail. The piping inspection by the Mechanical Inspector must be complete and approved.
3. The suppression system (including required alarms) must be complete and fully operational. We do not witness partial tests.
4. An inspectors test must be installed on **each** riser at the **farthest point** from the water source and reduced to the **smallest size head** in service on that riser.
5. The State of Michigan Bureau of Construction Codes has determined that the alarm system required to monitor a fire suppression system is NOT a "fire alarm" under the code and as such, notification devices are NOT required in the occupied spaces of a building. The Hamtramck Building and Fire Departments STRONGLY recommend that notification devices be installed in all buildings in sufficient numbers to alert all the occupants of the activation of the fire suppression system.

Whether the activation is from a fire, or another activity such as damage or freezing, the water flowing from these systems can cause severe building damage and personal injury in a matter of minutes. Immediate notification to building occupants is necessary to protect their safety.

6. Spare heads and wrenches must be in place.
 7. All fire department connections must be a 2 ½ inch siamese connector. There shall be a minimum of ten feet of separation between the F.D. connection and any gas or electric service equipment. All new or modified systems must comply with this requirement and the City riser diagram.
 8. All new or modified systems must conform to current backflow/cross connection rules and the City riser diagram.
 9. Dry pipe systems must be tested for timed operation as well as pressure.
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