



515 Clark Avenue
Ames, IA 50010
Phone 515.239.5153
Fax 515.239.5404

AUTOMATIC FIRE SPRINKLER PERMIT APPLICATION

PERMIT FEE \$53.55

(Permits are valid for one (1) year from date of issue.)

Date _____

Installation Address:

(Street Address and Apartment or Suite Number)

Ames, IA _____

(City, State, Zip Code)

Building Use: ☐ Assembly ☐ Office (B) ☐ Residential
☐ Warehouse ☐ Institutional ☐ Educational (E)
☐ Other ☐ High-Rise

Property Owner of Record:

(Name)

(Street Address and Apartment or Suite Number)

(City, State, Zip Code)

Sprinkler Contractor Information:

(Company Name)

(Company Address)

(City, State, Zip Code)

(Phone Number)

(Company E-Mail)

The applicant or authorized agent affirms by signing that all information contained herein is true and correct to the best of his/her knowledge. By signing, they certify that they are appropriately trained and qualified for the scope of work proposed. It is understood that if any information is found to be incorrect or falsely stated that any permits granted from this application are immediately null and void. By signing, it is agreed that all City of Ames Codes shall be complied with. Additionally, it is understood that any alteration or change in plans without written approval subsequent to issuance of the permit shall constitute grounds for revocation and that all work is subject to field inspections by agents of the City of Ames.

Separate permits are required for building, electrical, plumbing, fire suppression systems, and/or mechanical work. The applicant is responsible for calling to schedule all required inspections. Calls for inspection require a minimum of twenty-four (24) hours notice.

X _____

(Signature of Applicant or Authorized Agent)

(Date)

Sprinkler System Description:

NFPA Standard

☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D ☐ Other _____

Water Supply

- ☐ Underground Only, Pipe Diameter _____
☐ Sprinkler Only, Pipe Diameter _____
☐ Underground with Hydrant, Pipe Diameter _____

☐ New Automatic Sprinkler System

☐ New Construction ☐ Retrofit

Type of system: ☐ Wet ☐ Dry ☐ Combination ☐ Other (state type) _____

Please indicate the number of Sprinkler Heads in the system. _____

Auxiliary Equipment ☐ Antifreeze ☐ Foam ☐ Fire Pump

☐ Standpipe, if yes, Type: _____

Type and model number of Backflow Preventer _____

☐ Existing Automatic Sprinkler System

☐ Addition ☐ Alteration

Type of system: ☐ Wet ☐ Dry ☐ Combination ☐ Other (state type) _____

Auxiliary Equipment ☐ Standpipe ☐ Antifreeze ☐ Foam ☐ Fire Pump

Please indicate the number of Sprinkler Heads in the system. _____

Type and model number of Backflow Preventer _____

☐ Non Existent

All sprinkler systems require an approved backflow prevention device. Changes to existing systems may require the addition or upgrade of backflow protection.

Description of work:

Plan Submittal Package Checklist:

Drawing/Plans are required at the time of application submittal. Plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor, and must include, at a minimum, the information listed below:

- (1) Name of owner and occupant.
- (2) Location, including street address.
- (3) Point of compass.
- (4) Full height cross section, or schematic diagram, including structural member information if required for clarity and including ceiling construction and method of protection for nonmetallic piping.
- (5) Location of partitions.
- (6) Location of fire walls.
- (7) Occupancy class of each area or room.
- (8) Location and size of concealed spaces, closets, attics, and bathrooms.
- (9) Any small enclosures in which no sprinklers are to be installed.
- (10) Size of city main in street and whether dead end or circulating; if dead end, direction and distance to nearest circulating main; and city main test results and system elevation relative to test hydrant.
- (11) Other sources of water supply, with pressure or elevation.
- (12) Make, type, model, and nominal K-factor of sprinklers including sprinkler identification number.
- (13) Temperature rating and location of high-temperature sprinklers.
- (14) Total area protected by each system on each floor.
- (15) Number of sprinklers on each riser per floor.
- (16) Total number of sprinklers on each dry pipe system, preaction system, combined dry pipe–preaction system, or deluge system.
- (17) Approximate capacity in gallons of each dry pipe system.
- (18) Pipe type and schedule of wall thickness.
- (19) Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions). Where typical branch lines prevail, it shall be necessary to size only one typical line.
- (20) Location and size of riser nipples.
- (21) Type of fittings and joints and location of all welds and bends. The contractor shall specify on drawing any sections to be shop welded and the type of fittings or formations to be used.
- (22) Type and locations of hangers, sleeves, braces, and methods of securing sprinklers when applicable.
- (23) All control valves, check valves, drain pipes, and test connections.
- (24) Make, type, model, and size of alarm or dry pipe valve.
- (25) Make, type, model, and size of preaction or deluge valve.
- (26) Kind and location of alarm bells.
- (27) Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment.
- (28) Private fire service main sizes, lengths, locations, weights, materials, point of connection to city main; the sizes, types and locations of valves, valve indicators, regulators, meters, and valve pits; and the depth that the top of the pipe is laid below grade.
- (29) Piping provisions for flushing.
- (30) Where the equipment is to be installed as an addition to an existing system, enough of the existing system indicated on the plans to make all conditions clear.
- (31) For hydraulically designed systems, the information on the hydraulic data nameplate.
- (32) A graphic representation of the scale used on all plans.
- (33) Name and address of contractor.
- (34) Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets.
- (35) The minimum rate of water application (density or flow or discharge pressure), the design area of water application, in-rack sprinkler demand, and the water required for hose streams both inside and outside.
- (36) The total quantity of water and the pressure required noted at a common reference point for each system.
- (37) Relative elevations of sprinklers, junction points, and supply or reference points.
- (38) If room design method is used, all unprotected wall openings throughout the floor protected.
- (39) Calculation of loads for sizing and details of sway bracing.

- (40) The setting for pressure-reducing valves.
- (41) Information about backflow preventers (manufacturer, size, type).
- (42) Information about listed antifreeze solution used (type and amount).
- (43) Size and location of hydrants, showing size and number of outlets and if outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided, and by whom, shall be indicated. Static and residual hydrants that were used in flow tests shall be shown.
- (44) Size, location, and piping arrangement of fire department connections.
- (45) Ceiling/roof heights and slopes not shown in the full height cross section.
- (46) Edition year of NFPA 13 to which the sprinkler system is designed.
- (47) A signed copy of the owner's certificate and the working plan submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any sprinklers, devices, piping, or fittings.

Acceptance Test Checklist:

The contractor shall verify completion of the following items prior to scheduling the final inspection.

- ☐ All equipment, devices, etc. have been installed per the submitted prints. Any deviations must be approved before acceptance testing and shall be noted on the as-built drawings that will be provided to the inspector.
- ☐ 100% pre-test has been completed and documented by the contractor.
- ☐ Any mechanical/electrical systems have been reviewed and approved by the Inspections Department.
- ☐ Contractor has proper documentation indicating adequate training and qualifications to install the selected system, permit, stamped drawings, system manuals, and needed testing equipment.
- ☐ Provide a Record of Completion attesting to proper installation, with a copy to the owner and the inspector.

A copy of the submittal package and record of completion shall be placed in a tube or binder marked "Fire Sprinkler Plans – Do Not Remove From Site". The tube or binder shall be installed at the Extra Sprinkler Head / Wrench storage Box.

Submit plans to: Ames Fire Department
 Fire Inspector
 515 Clark Avenue
 Ames, IA 50010

Approved by _____ Permit # _____