



EVANSTON FIRE DEPARTMENT

RPZ RETROFIT INSTALLATION

STANDPIPE SYSTEMS

- All Backflow Preventers shall be Approved by a Testing Agency (ASSE, FM, UL)
- Cut Sheets shall be submitted when applying for a permit
- Systems that include a fire pump will require hydraulic calculations
- Systems that do not include a fire pump will not require hydraulic calculations
- If a fire alarm system is present in the building, control valves shall be electrically supervised
- If a fire alarm system is not present, control valves shall be locked in the open position

SPRINKLER SYSTEMS

- All Backflow Preventers shall be Approved by a Testing Agency (ASSE, FM, UL)
- Cut Sheets shall be submitted when applying for a permit
- Systems that were hydraulically designed will require revised hydraulic calculations
- Systems that were installed using the pipe schedule method will require calculations that verify the minimum pressure and flows for a pipe schedule system are met
- Control valves shall be electrically supervised

GENERAL INFORMATION

- Combination sprinkler-standpipe systems must meet the requirements of both
- Additional work may be necessary for the sprinkler or standpipe system if the system pressures do not achieve the minimum requirements
- Any work on the sprinkler or standpipe system shall be performed by a licensed Fire Sprinkler Contractor and will require its own permit
- Electrical supervision of valves shall be performed by a licensed electrician and will require its own permit

These are general guidelines for the retrofit installation of backflow preventers. Some systems may present unique situations that could alter the permitting and installation requirements. Please contact the Evanston Fire Prevention Bureau at (847) 866-5928 if you have any questions.