



SINGLE FAMILY RESIDENTIAL FIRE SPRINKLERS

Residential Automatic Fire Sprinklers

All new residential structures shall be provided with an approved automatic fire sprinkler system. When an addition to an existing residential structure exceeds 50% of the existing living area and the addition is a minimum of 500 square feet, an approved fire sprinkler system shall be installed throughout the building.

Typically, fire sprinkler systems shall be designed and installed in accordance with the National Fire Protection Association's (NFPA) Standard 13D for the *Installation of Sprinkler Systems in One and Two Family Dwellings and Mobile Homes*.

Plan Check for Fire Sprinkler Systems

When an automatic fire sprinkler system is to be installed, the plans submitted for the building permit shall include the following notes:

- Automatic fire sprinkler systems shall be installed in accordance with NFPA 13D.
- Fast response fire sprinkler heads shall be installed in habitable spaces.
- The automatic fire sprinkler system shall be installed by a licensed (C-16) contractor, who shall have a City of Sunnyvale Business License and proof of worker's compensation insurance.
- Diagram of the residential water supply valves (see reverse side of this page for sample)
- Three complete sets of fire sprinkler plans and calculations (wet signed and stamped by the design professional) shall be submitted for a 21 day plan review at the One Stop Permit Center. Plans and calculations shall be reviewed and permit issued prior to installation.

The plans for fire sprinkler systems shall be designed by a licensed fire sprinkler contractor (C-16) and submitted for review and approval independently from the building permit plans.

When automatic fire sprinklers are installed, the existing water meter may be required to be upgraded by the local water jurisdiction (California Water Service or City of Sunnyvale). The domestic water line from the water meter to the residence may need to be increased in size to accommodate the fire sprinkler system.

Fire Sprinkler Inspection

The first fire sprinkler inspection shall be completed prior to scheduling the rough framing inspection with the building inspector. Fire sprinkler plans shall be submitted with sufficient time for review and approval by the Fire Protection Engineer prior to the rough frame inspection.

Residential Water Supply Valving Diagram

