

# SINGLE FAMILY RESIDENTIAL FIRE SPRINKLERS

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## Residential Automatic Fire Sprinklers

All new residential structures shall be provided with an approved automatic fire sprinkler system. When an addition or conversions from non-habitable to habitable spaces are made in excess of 50 percent of the habitable building area, 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)
- To Submit for a New Permit: You'll need to create an account to apply for Building, Fire, Planning and Public Works Engineering permits. Visit our [E-OneStop Online Services](#) site to create your account and submit your permit.

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

