



# COASTSIDE FIRE PROTECTION DISTRICT

## OFFICE OF THE FIRE MARSHAL

Address: 1191 Main Street, Half Moon Bay, CA, 94019 | Phone: (650) 345-1612

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### STANDARD DETAIL AND SPECIFICATION MANUAL

<b>Section:</b> Developer Information	<b>Title:</b> Residential Sprinkler Requirements
<b>Effective:</b> January 10, 1999	<b>Revised:</b> May 7, 2019
<b>Number:</b> DI-005	<b>Authorized By:</b> Gary Silva, Fire Marshal

#### Purpose:

The Coastside Fire Protection District, in an effort to speed the approval of plans checked by the District, is establishing this Standard for the use of the submitter.

#### General:

When plans are submitted with all of the proper code citations and notations of requirements are posted, then the time spent checking the plans is decreased, as there is less chance of rejection and re-submittal.

#### RESIDENTIAL SPRINKLER SPECIFICATIONS:

##### REQUIREMENTS:

- A minimum of 3 spare sprinklers of each type (one for pilot heads), temperature rating, and orifice size plus appropriate wrench shall be provided in a box located 5-6 feet above floor next to the system riser. Instructions on maintenance shall be provided to the building owner.
- Contractor shall install a remote inspector's test complete with an orifice the equivalent diameter as the smallest sprinkler head in the system. In addition, the test fixture shall be labeled with an approved sign stating: "Inspector's Test"
- The waterflow switch shall be set to operate the alarm within 30-60 seconds after system activation and verified during the final inspection.
- Waterflow switch and alarm shall be installed in conduit and on a dedicated circuit. Tie-in shall be after the house meter and before the main disconnect to the building. Circuit breaker to read: "Fire Alarm" in red.
- The Coastside County Water District / Montara Water and Sanitary District requires that the water supply for the sprinkler system be from a separate fire service line and water meter connected to their municipal water system.
- Sprinkler coverage shall be provided throughout the residence with the only exception being closets less than 24 square feet. Areas accessible for storage shall be protected.

- Furnace rooms and laundry rooms shall be sprinklered.
- Exterior sprinkler heads shall be corrosion resistant per NFPA 13-11.4.
- All valves shall have adequate clearances for grasping.
- Use manufacturer's specifications for installations and locations near heat zones, slopes, obstructions, etc.
- All devices, combination of devices, and equipment shall be approved or listed for the purposes for which they are intended. Manufacturer's specification sheets shall be made available.
- All attached garages shall be sprinklered.
- A Pilot Head will be placed in the attic, near the attic access.
- A sprinkler head shall be mounted on a metal sprig above any attic access opening and where required by the authority having jurisdiction.
- An interior audible device shall be mounted in a central location audible from the master bedroom upon activation of the required flow switch.
- An exterior bell and interior audible device are required to be wired into the required flow switch on your fire sprinkler system. The bell, horn / strobe, and flow switch, along with the garage door opener are to be wired into a separate circuit breaker at the main electrical panel and labeled.  
The location of the required interior horn / strobe needs to be in a common area hallway audible from the master bedroom.

#### SUBMITTAL REQUIREMENTS:

The following information is required on all sprinkler plan submittals:

- Name, address and phone number of:
  1. Developer/owner
  2. Sprinkler Installer
  3. Designer
  4. Designer's stamp and signature
- Engineer's stamp and signature
- Street address of building
- Sprinkler type, manufacturer, temperature rating, orifice size, minimum flows and operating pressure (include cut sheet)
- Sprinkler spacing
- Type of piping and schedule
- Identify all rooms including details, e.g. soffits, slopes, etc.
- Building elevations and plan views. Draw to scale.



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- Submit three (3) sets of plans and hydraulic calculations.
  - 2 head calculations except on sloped ceiling
  - use 3 head calculations or show listed head for sloped ceilings
  - Show water supply from City water main or water tank if City main is unavailable.
  - Detail all segments of underground water supply piping from the main to the base of the riser- include cutsheet on backflow preventor & meter and account for their characteristics in all flow calculations.

#### INSPECTIONS:

The following inspections are required:

- An underground flush is required for this project. Underground systems will not be allowed to be connected to the overhead system without a witnessed flush. Please call the fire district administration office to make an inspection appointment. Allow a minimum of 48 hours-advanced notice for all required inspections. All underground supply piping must be Copper Type L, K, or PVC C-900. The use of Schedule 40 PVC is not acceptable.
- An aboveground hydro is required for this project. Please call the fire district administration office to make an inspection appointment. Allow a minimum of 48 hours-advanced notice for all required inspections.
- A final fire system inspection is required for this project. This inspection requires that all related fire system components be tested in conjunction with one another. All components must function properly to pass the inspection. The spare sprinkler head box, must be installed near the riser in a protected location. Cover plates on concealed heads must be uninstalled at final to ensure that the sprinklers can be visualized.