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## 2010 CALIFORNIA RESIDENTIAL CODE PLAN SUBMITTAL REQUIREMENTS FOR NFPA-13D OR R-313.3 FIRE SPRINKLER SYSTEMS

The following requirements are not inclusive for all types of systems and/or situations but are to be used as a guide for preparing a submittal for a Residential Fire Sprinkler System. The plan review may be done in a much more expedient manner when all requested information is provided and, in so doing, eliminate the need for costly re-submittals and additional plan reviews.

### BUILDING PERMIT SUBMITTALS

- Owner Occupied-Owner Builder must submit a minimum of (2) sets of site plans, (2) sets of sprinkler design plans, and (2) sets of hydraulic calculations bearing the designers signature, plan checked and approved by the local Fire Protection District, (if using NFPA-13d plans & hydraulic calculations, must have the Fire Protection Contractors wet seal and signature)
- All plan review drawings are to be 1/4" scale (preferred) or 1/8" scale. (Site plan need not be to scale when submitted for hydraulic purposes only.)
- The plan size shall not exceed 24 x 36"
- Plan sheets shall include the following information as identified below:

### SITE PLAN

(Approved by Lake County Environmental Health if septic system is on site)

1. Single line outline of the building(s) with a north arrow.
2. Location and name of all streets, and access roads, etc. adjoining the property.
3. Building address(s), a street name and assessors parcel number.
4. Provide water source information (well, tank and water service, etc).
5. Provide water source GPM and PSI.
6. Point of connection to the public water main, water meter location and size, with hydraulic calculation node points.
7. Location, size, type and length of underground supply line.
8. The locations of any transitions from one pipe type or size to another must be clearly indicated along with the corresponding hydraulic calculation node points.
9. Provide on the plan notations indicating the elevation (above sea level) at the Water source, the Base of Riser (BCR), and the highest sprinkler.
10. Riser location and size.

## PIPING PLAN

1. Hydraulically calculated area and all hydraulic node locations. In some circumstances two hydraulically calculated remote areas will need to be shown to prove which area is most demanding.
2. Sprinkler head locations to include dimensions from all obstructions, interior wall surfaces, ceiling fixtures and other sprinklers in the same compartment.
3. Ceiling elevation(s) including all slopes or irregular ceilings. Provide slope and elevation of all ceiling areas within a room.
4. Show any partial height walls and their dimensions.
5. The use of each room. When there is more than one room for the same use, further identification shall be provided.
6. Any questionable unfinished areas with the potential for storage should be identified.
7. Clearly indicate the location of any attic access w/ corresponding sprinkler head.
8. Clearly indicate the location of all heat producing appliances (water heaters, furnace, range, etc.) and the dimension to the closest sprinkler.
9. Indicate all pipe sizes, lengths, fittings, and types.
10. Hanger type(s) and allowable hanger spacing permitted (may be written as a plan note).
11. Square foot area (per head) protected by the calculated sprinkler heads.

## SECTIONAL VIEWS

12. A full height cross-section with root/ceiling and/or floor elevations (in feet).
13. Additional sections as needed to illustrate other ceiling configurations.
14. Provide roof and ceiling slopes (when applicable).
15. Corresponding Section Line on Piping Plan.
16. Drawings must show all fire sprinkler piping connections between floor levels.
17. A section view of the riser showing all valves, domestic connection, transitions of pipe type or size, and node points.

## GENERAL NOTES

18. Water flow data
19. Sprinkler legend: Include the number of each head type, factor, orifice size and temperature rating, make and model, including the manufacturers "cut" sheets and serial identification number (SIN) and the square foot area protected by the designed sprinkler heads.
20. Symbol legend.