



# Town of Paradise

## DEVELOPMENT SERVICES

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## Residential Fire Sprinkler Systems Plan Submittal and Inspection Requirements

All residential fire sprinkler systems within the jurisdiction of the Town of Paradise shall meet all the applicable sections of the Paradise Municipal Code, California Fire Code, California Residential code and NFPA 13. Residential Fire Sprinkler Systems are required for all new residential occupancies.

All residential fire sprinkler system submittals shall include:

- A. Three (3) sets of  $\frac{1}{4}$ "=1'-0" scaled plans on a minimum sheet size of 24" x 36" that comply with the Design and Plan Requirements.
- B. Three (3) sets of hydraulic calculations that comply with the Hydraulic Calculation Requirements of this standard.
- C. Three (3) sets of manufacturers' material information sheets for the sprinkler heads, piping, horn and strobe devices, back flow devices, flow switch and hangers.
- D. A completed Permit Application.
- E. Payment of Fees. A plan check and inspection fee will be charged for each submittal. Please remit payment at the time of submittal.

All fire sprinkler systems shall be designed and installed by a California licensed Fire Protection Contractor (C-16) or by a qualified Registered Professional Engineer (Civil, Mechanical or Fire Protection), licensed by the State of California (Board of Professional Engineers). All copies of the plans shall be stamped and signed by the licensed individuals.

To provide consistency with every sprinkler plan review, the Town of Paradise is requiring the following minimum information be on all plans submitted for plan review, renewal and approval. Please check off each item, sign and return this sheet with each submittal. If the item is Non-Applicable, write N/A next to the check box:

### General Information

- Property address.
- Name and address of the property owner and/or general contractor.
- Name, address, phone, fax, and license number of installing sprinkler contractor.
- Provide water flow data, Paradise Irrigation District Residential Fire Flow Test Record. Contact Paradise Irrigation District for assistance in acquiring water flow information. Verbal verification will not be accepted. The design contractor is responsible to ensure the accuracy of the water flow information. See the attached P.I.D. information.
- Full height building cross section showing the location of the sprinkler heads and piping.
- Symbol legend.
- Sprinkler legend including totals for the project.

- The domestic water demand must be included in the sprinkler flow at the domestic water system point of connection to the combination fire service line. Domestic water demand shall be at least 5 g.p.m. per unit for two dwelling units or less. For three or more dwelling units, the domestic demand shall be as estimated using the Tables in NFPA 13.

## Site Plan

- All property lines.
- Outline of residence and any additional structures located on the property.
- North arrow.
- Streets adjoining property.
- Access roads, driveways, etc.
- Location, size, pipe type, and length of underground supply line from the P.I.D. water main to the water meter.
- Location and size of the water meter on the plan and include the appropriate pressure drop in the calculations.
- Location and size of the backflow prevention device on the plan and include the appropriate pressure drop in the calculations.
- Location, size, pipe type, and length of underground supply line from water meter to house.
- Location and size of the fire sprinkler riser.
- Elevation difference between the base of the fire sprinkler riser and P.I.D. connection.
- Hydraulic reference points.

## Fire Sprinkler Riser Detail

- Location of main control valve for the domestic and fire sprinkler systems.
- Location of the domestic tie-in showing the domestic control valve.
- Location of the water flow switch, check valve, pressure gauges and test/drain assembly.
- Location of transitions between all piping materials.
- Hydraulic reference points.

## Piping Plans

- All plans must be drawn to  $\frac{1}{4}''=1'-0''$  scale on a minimum sheet size of 24" x 36".
- Completely dimension the plans. Dimension the sprinkler heads off of all adjacent walls.
- Location and type of all light fixtures. Indicate the depth of all fixtures that are not flush with the ceiling.
- Location of all heat producing devices (i.e. fireplaces, wood stoves, ovens, ranges, diffusers, furnaces, water heaters, etc.) Show the heat zone of each device and maintain the proper distances from these devices.
- Ceiling elevations. Clearly indicate any sloped, beamed, or special shaped ceilings. Indicate the degree of slope (or rise/run) on all sloped ceilings.
- Size, depth, and spacing of any exposed beams.
- Provide room names.
- Clearly indicate the use of any area or room where sprinkler protection is not being provided.
- The location of all sprinkler heads.
- All sprinklers must be spaced along the slope of the ceiling.

- Indicate the type, size, and length of all pipes.
- Indicate the type and location of all pipe hangers.
- Riser location.
- Location of the alarm bell.
- Method of freeze protection.
- Hydraulic reference points on plans.
- Indicate the basis for the hydraulic design (i.e. 16 x 16 spacing, 18 x 18 spacing, etc.)

**Inspection Requirements**

All inspections shall be scheduled 48 hours in advance. Please call the Town of Paradise at (530) 872-6287, to schedule all inspections.

- A. Approved plans and permit shall remain on site for any inspection.
- B. A hydrostatic pressure test in accordance with NFPA 13 shall be performed and witnessed by the Town of Paradise. All piping and attached appurtenances subjected to system working pressure shall be hydrostatically tested. Piping shall be hydrostatically tested. The system shall maintain pressure without loss for two hours.
- C. No pipe shall be covered or concealed prior to an overhead piping and hydrostatic test inspection. Any covered and concealed piping shall be made visible for inspection.

I have reviewed the above list and have complied with all items checked. The items that do not apply to this project have been indicated as N/A. Any items not checked or indicated as N/A have been addressed in the attached letter. I understand that if all the information required above is not shown on the plans or in the calculations, the submittal will be returned without review.

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Name	Title	Date
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