



# Redlands Fire Department

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<https://www.cityofredlands.org/fire-department>



## **NFPA 24 PLAN REVIEW CHECKLIST**

Redlands Fire Department has created this checklist to assist design professionals submit comprehensive plans for private fire service mains. This proactive approach aims to enhance fire safety by guaranteeing that all necessary elements are included and properly accounted for in the design process. By streamlining the submission process, the checklist minimizes potential oversights and ensures compliance with fire safety regulations. The following code sections reference the 2022 California Fire Code and the 2019 version of NFPA 24.

### **REQUIREMENTS ON PLANS:**

Working plans shall be drawn to an indicated scale on sheets of uniform size, with a plan of each floor as applicable, and shall include the following items that pertain to the design of the system (4.1.3)

- 1) Name of owner.
- 2) Project address.
- 3) Point of compass.
- 4) A graphic representation of the scale used on all plans.
- 5) Name and address of contractor.
- 6) Size and location of all water supplies
- 7) Size and location of standpipe, risers, hose outlets, hand hose, monitor nozzles, and related equipment.
- 8) The following items that pertain to private fire service mains:
  - a) Size.
  - b) Length.
  - c) Location.
  - d) Weight.
  - e) Material.
  - f) Point of connection to city main.
  - g) Sizes, types, and locations of valves, valve indicators, regulators, meters, and valve pits.
  - h) Depth at which the top of the pipe is laid below grade.
  - i) Method of restraint.
  - j) Tracer wire for non-metallic pipe.
  - k) Typical details of thrust block sizes, underground pipe transition into building and pipe trench.
- 9) The following items that pertain to hydrants:
  - a) Size and location, including size and number of outlets and whether outlets are to be equipped with independent gate valves.
  - b) Thread size and coupling adapter specifications if different from NFPA 1963.
  - c) Whether hose houses and equipment are to be provided, and by whom.
  - d) Static and residual hydrants used in flow.
  - e) Method of restraint. (Mechanical restraints or thrust blocks.)
  - f) Public hydrants shall be painted yellow and private hydrants shall be painted OSHA safety red.
  - g) Hydrant detail from City of Redlands MUED Department Standard Drawing number A-20510.
- 10) Size, location and piping arrangement of fire department connections.

The working plan submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any devices, piping, or fittings. (4.1.4)