

Development Services Building Division

311 Vernon Street Roseville, California 95678

RESIDENTIAL FIRE SPRINKLER SUBMITTAL REQUIREMENTS

Effective January 01, 2011
Re: CRC section 313.0 & 2013 NFPA 13D

The following are minimum requirements for a residential fire sprinkler submittal. Please provide two (2) sets of plans, hydraulic calculations, and manufacturers' data sheets. This information shall be submitted at the Permit Center with a new master plan submittal or as a revision to an approved master plan indicating the applicable master plan permit number on the completed Plan Check Take in Form.

	neral Information Fire Sprinkler contractor, master plan square footage, subdivision name, phase, and developer's name on all documents Contact information including contact name, company name, address, phone, and email address Fire flow letter dated within the last 12 months from Environmental Utilities Pump and storage tank information (If applicable) Manufacturer's data sheets for all piping, meters, sprinkler heads and devices installed Full height building cross section showing vaulted ceilings and location of sprinkler heads and piping Symbol legend Sprinkler legend including totals for the project Plans and calculations to be stamped and signed by licensed C-16 or Fire Protection Engineer
	Property lines Outline of residences and any additional structures, showing the location of the most remote lot North arrow Streets adjoining property Location, size, type of pipe, and length of all underground from the city's main to the water meter(s) Location, type and size of meter and metersetter Location, size, type of pipe, and length of all underground from the meter to the fire sprinkler riser Location of fire sprinkler riser Elevation difference between the source and the most hydraulically demanding lot The hydraulic reference points
	with the ceiling Location of all heat producing devices (i.e. fireplaces, wood stoves, ovens, ranges, diffusers, furnace, water heaters, etc.), show the heat zone of each device and maintain the proper distances from these devices Ceiling elevations, clearly indicate the sloped, beamed, or special shaped ceilings Size, depth, and spacing of any exposed beams Provide room use and clearly indicate the dimensions of any area or room where sprinkler protection is not being provided The location of all sprinkler heads Indicate type, size, and length of all pipes

	Hydraulic reference points Indicate the basis for the hydraulic design (i.e. 16 x 16 spacing, 18 x 18 spacing, etc.) All sprinklers must comply with the current UL 1626 requirements providing a minimum density of .05 gpm/sq. ft. (The discharge requirements and number of design sprinklers shall be in accordance with the manufacturer's literature)
Fire	Location of main control valve for the domestic and fire sprinkler systems Location of the water flow switch, check valve, pressure gauges, and test/drain assembly Location of transitions between all piping materials Hydraulic reference points
Hy	All calculations to be stamped and signed by licensed C-16 or Fire Protection Engineer Show 1 and 2 head most hydraulically demanding locations The meter loss must include the fixed loss of the meter, and all other appurtenances, that occur at the meter utility box. The fixed losses must consider everything within the meter box as installed by the City of Roseville, and should be applied as a fixed loss device at the meter location in the hydraulic calculations. For the meter assembly diagram see detail W-5 at the link below: http://www.roseville.ca.us/civicax/filebank/blobdload.aspx?blobid=2374 The metersetter loss must include the fixed loss of the metersetter, and all other appurtenances. The fixed losses should be applied as a fixed loss device at the metersetter location in the hydraulic calculations