



FIRE SPRINKLER PERMIT SUBMITTAL CHECKLIST FOR KENMORE & LAKE FOREST PARK

Fire Marshal's Office

The following information is typically needed in order to submit an application for review. Depending on the scope of work, some items may not apply or may be combined. If you have a question on required items, please call the Fire Marshal's Office at 206-533-6565. Read each item carefully and provide all applicable information. **All site plans and civil drawings must be drawn to an engineering or architectural scale (e.g. 1" = 20' or 1/4" = 1').**

- Permit Application.** Indicate number of sprinkler heads, number of backflow devices and new or existing system in Project Description.
- Construction Drawings – two (2) copies** draw to architectural scale.

 - Site plan indicating the building's location on the property, with north arrow.
 - Building floor plan indicating the use of each room and the location of each sprinkler head.
 - Full height cross-section including ceiling detail, trusses, attics and interstitial spaces.
 - Type of building construction and the location of all area or occupancy separation walls.
 - Make, type, nominal orifice size, temperature rating and number of each sprinkler type.
 - Total number of sprinklers and approximate capacity in gallons of each dry-pipe system.
 - Pipe detail including: type, wall thickness, C-factor, fittings, nominal size and cutting lengths.
 - Type and location of hangers, sleeves, braces and methods of securing sprinklers.
 - Calculation of loads for sizing and details of sway bracing, including attachment to structure.
 - Details of all control valves, alarm valves, check valves, drains and test connections.
 - Current Washington State Sprinkler Certification stamp with an original signature.
- Hydraulic Calculation – two (2) copies**
Hydraulic reference points corresponding to identified points on the drawings.

 - The design density, design area of application and allowances for hose streams.
 - The information to be included on the hydraulic name plate on the riser.
 - Relative elevation of sprinklers, junction points and supply or reference points.
 - A directional flow diagram to accompany gridded system calculations.
 - Cut sheets for heads, piping, check valves and other appliances affecting flow.
- Sprinkler system plans, calculations, and contractors' materials and test certificates submitted to the City shall be stamped pursuant to WAC 212-80-083 including stamps for NFPA 13D, 13R, and 13.
- Single family detached and residential additions requirements:

 - New Construction
 - All new SFR homes and townhomes require an NFPA 13D sprinkler system.
 - Additions over 500 sq. ft. may require a sprinkler system or smoke alarm upgrades depending on size of addition.
- Submittal Fee: Sprinkler Systems**

New System:	\$1,195.00 plus \$3.00 per head
Existing System:	
• 1 – 10 heads (Over the Counter)	\$239.00
• 11 – 20 heads (Over the Counter)	\$478.00
• More than 20 heads (Full Review)	\$717.00 plus \$3.00 per head over 20 heads
Residential (R-3) 13-D System:	
• 1 – 30 heads	\$717.00
• More than 30 heads	\$717.00 plus \$3.00 per head
• Voluntary 13-D Systems in residences when not otherwise required	\$239.00
• Backflow Device	\$239.00 (including 4 devices), \$12.00 per device over 4

NOTE: All submittal items must be legible. Number each page consecutively. No pencil drawings will be accepted.

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