

Fire Sprinkler System and Standpipe System
Plan Submittal Check Sheet
City of Wheat Ridge

It is the responsibility of the sprinkler or standpipe system installer of record to assure that all applicable code requirements are adhered to. The current editions of the 2006 International Fire Code, as amended and the 2007 edition of the National Fire Protection Association Standard 13, “Automatic Sprinkler Systems” shall be the primary, but not all inclusive, resource documents.

The installation of new systems, addition, renovation and maintenance of any fire sprinkler or standpipe system shall comply with the following:

Contractors License:

Fire sprinkler contractors shall be licensed with the Building Inspection Division of the City of Wheat Ridge and the State of Colorado Division of Fire Safety.

Plan Review Fees:

Plan review and permit fees are collected by the Life Safety Division. For questions on plan review and permit fees, please contact the Arvada Fire Protection District at 303-424-3012 or our web site www.arvadafire.com.

Plan Submittal:

Plans may be submitted at the Arvada Fire Protection District offices located at 7903 Allison Way, Arvada, CO 80005-5033, on the Second Floor. Plans may be submitted Monday through Friday 8:00 AM to 4:30 PM. Upon completion of the plan review, two (2) sets of plans will be returned for your pick up and permit.

Plan Approval:

No installation work shall be performed until the submitted plans are reviewed and approved by the Life Safety Division.

Plans are reviewed on order in which they are received. Please submit your plans as soon as possible. Sprinkler and standpipe system plans are normally reviewed within 10 business days. The Life Safety Division works ten (10) hour days, four (4) day work weeks. If work loads dictate a longer plan turnaround, the Life Safety Division will notify the designer/installer if an additional time for plan review and approval is necessary.

Expedited Plan Reviews:

The Life Safety Division does not conduct expedited plan reviews.

Fire Sprinkler System and Standpipe System Plans:

- __ Submit three (3) complete sets of fire sprinkler system and or standpipe system plans and three (3) sets of supporting documentation including but not limited to copy of owner's certificate, cut sheets on equipment to be installed, product information, and hydraulic calculations.
- __ Two (2) sets of stamped plans will be returned to the contractor. One set of stamped drawings with the notation, "THIS SET OF PLANS IS TO REMAIN AT THE JOB SITE" is required to be at the site at all times for inspections.
- __ Sprinkler plans shall be stamped by a minimum level NICET III designer for fire sprinkler systems.
- __ State of Colorado, Division of Fire Safety, Plan Registration Form.
- __ Plans must be of a fire sprinkler and/or standpipe system only. No combination drawings using reflected ceiling plans, mechanical, electrical etc. will be accepted.
- __ Plans shall be provided with a scale. We would request that a minimum of a 1/8 inch equals one (1) foot be used.
- __ Plans shall include but not limited to sprinkler head locations, type of sprinkler heads, pipe sizes, hanger locations, sprinkler riser design, indication of remote areas and heads identified as calculated heads, indication of any non-sprinklered areas and code reference deleting sprinklers and other plan submittal requires as specified in NFPA 13 2007 edition, "Automatic Sprinkler Systems".
- __ All symbols appearing on the plans shall be indicated in a complete legend positioned on the plans.
- __ Ceiling heights shall be identified on the plans.

Ceiling construction such as flat, sloped, smooth, metal bar joist, trust joist, etc. must be identified on the plans.

Required Submittal Information:

All pertinent information shall be indicated or highlighted on information or cut sheets on the equipment to be installed on the sprinkler system.

Back flow Prevention.

The Water District of jurisdiction needs to be contacted to assure that the proposed back flow prevention device and installation is in accordance with adopted standards.

All control valves and tamper valves.

Check valves.

Fire department connection. Note: fire department connections shall be located on the front of the building or as specified by the Life safety Division.

Fire department connections shall be located within 150 feet of a new or existing fire hydrant.

Fire Department connections shall be located a minimum of thirty-six (36) inches above finished grade.

Hose threads on the fire department connection shall be National Standard Threads.

Locking Knox fire department connection caps are required to be installed on sprinkler systems.

Flow valves and pressure switches.

Gauges.

Inspectors test equipment and locations.

Auxiliary drains.

Piping.

Hangers.

Sprinkler heads

- ___Specialty valves, dry-pipe,-pre-action, etc.
- ___Standpipe outlets.
- ___Hose threads on standpipe outlets shall be National Standard Threads.
- ___Fire pumps and jockey pumps.
- ___Pump controllers.
- ___Water shields for heads below open mezzanines.
- ___Head guards for sprinkler heads subject to damage.

Calculations:

- ___Hydraulic Calculations
- ___Hydrant water flow data.

Submittal of As-Built Plans:

- ___Prior to the final inspection of the building or unit, as-built plans (If any changes from the approved plans) are required due to construction to the Life Safety Division.

Requirements prior to the Final Inspection of the Sprinkler or Standpipe System:

No acceptance testing will be conducted by the Life Safety Division prior to the completion of construction within the building or unit(s).

Final inspections are subject to field inspection.

Re-inspection fees will be charged for re-inspections needed due to incomplete sprinkler systems, failure of hydrostatic tests, and conditions that should be corrected prior to inspection such as painted heads, missing heads, mud caps in place.

Inspections:

- ___A minimum of twenty-four hours notice is required for all sprinkler system and standpipe system inspections. Available days and inspection times will be noted on the approved plans.
- ___No work is to be concealed until inspections are conducted and necessary corrections

have been completed and re-inspected.