HUMBOLDT COUNTY BUILDING DEPARTMENT
CITY OF WINNEMUCCA BUILDING DEPARTMENT
SUBMITTAL LIST FOR AUTOMATIC SPRINKLER SYSTEM

Commercial System – NFPA 13 Standard for the Installation of Sprinkler Systems
Residential – Similar requirements for NFPA 13D & 13R

Referenced Codes: 2012 International Fire Code (IFC) Section 903, Nevada Administrative Code 477 (NAC 477), and NFPA 14

The following construction documents are required to be submitted for review and approval prior to any system installation. A permit must be obtained before any work begins. This permit will include both building and fire code. Deviation from approved plans shall require permission of the authority having jurisdiction.
All plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor and shall show items from the following list that pertain to the design of the system.

Plans must be designed by a Nevada fire protection engineer or by a company licensed by the Nevada State Fire Marshals Office, signed by the designer with company name, address and telephone number.

___ 1. Name of owner and occupant

___ 2. Location, include address/APN

___ 3. Point of compass

___ 4. Full height cross section, or schematic diagram, including structural member information if required for clarity and including ceiling construction and method of protection for nonmetallic piping.

___ 5. Location of partitions

___ 6. Location of firewalls

___ 7. Occupancy class of each area or room

___ 8. Location and size of concealed spaces, closets, attics, and bathrooms

___ 9. Any small enclosures in which no sprinklers are to be installed

___ 10. Size of city main in street and whether dead end or circulating; if dead end, direction and distance to nearest circulating main; and city main test results and system elevations relative to test hydrant

___ 11. Other sources of water supply, with pressure or elevation

___ 12. Make, type, model and nominal K-factor of sprinklers including sprinkler identification number

___ 13. Temperature rating and location of high-temperature sprinklers

___ 14. Total area protected by each system on each floor

___ 15. Number of sprinklers on each riser per floor

___ 16. Number of sprinklers on each dry system, preaction system, combined dry pipe-preaction system, or deluge system

___ 17. Approximate capacity in gallons of each dry pipe system

___ 18. Pipe type and schedule of wall thickness

___ 19. Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions). Where typical branch lines prevail, it shall be necessary to size only one typical line.

___ 20. Type of location and size of riser nipples.

___ 21. Type of fitting and joints and location of all welds and bends. The contractor shall specify on drawing any sections to be shop welded and the type of fittings or formations to be used.

___ 22. Type and locations of hangers, sleeves, braces, and methods of securing sprinklers when applicable.

___ 23. All control valves, check valves, drain pipes, and test connections.

___ 24. Make, type, model, and size of alarm or dry pipe valve.

___ 25. Make, type, model and size of preaction or deluge valve.

___ 26. Kind and location of alarm bells.

___ 27. Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment.

___ 28. Private fire service main sizes, lengths, location of valves, valve indicators, regulators, meters, and valve pits; and the depth that the top of the pipe is laid below grade.

___ 29. Piping provisions for flushing

___ 30. Where the equipment is to be installed as an addition to an existing system, enough of the existing system indicated and the plans to make all conditions clear.

___ 31. For hydraulically designed systems, the information on the hydraulic data nameplate.

___ 32. A graphic representation of the scale used on all plans.

___ 33. Name and address of contractor.

___ 34. Complete set of hydraulic calculation with all design criteria included.

___ 35. Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculations sheets.

___ 36. The minimum rate of water application (density or flow or discharge pressure), the design area of water application, in-rack sprinkler demand, and the water required for hose streams both inside or outside.

___ 37. The total quantity of water and pressure required noted at a common reference point for each system.

___ 38. Relative elevations of sprinklers, junction points and supply or reference points.

___ 39. If room design method is used, all unprotected wall openings throughout the floor protected.

___ 40. Calculation of load for sizing and details of sway bracing.

___ 41. The setting for pressure-reducing valves.

___ 42. Information about backflow preventers (manufacturer, size, type)

___ 43. Information about antifreeze solution used (type and amount)

___ 44. Size and location of hydrants, showing size and number of outlets and if outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided, and by whom, shall be indicated. Static and residual hydrants that were used in flow tests shall be shown.

___ 45. Size, location, and piping arrangement of fire department connections.

___ 46. Ceiling/roof heights and slopes not shown in the full height cross section.

___ 47. Edition year of NFPA 13 that the sprinkler system is designed to.

___ 48. Monitoring information including, company name, and equipment list.