



Weber Fire District
2023 W 1300 N
Farr West, UT 84404
801-782-3580
www.weberfiredistrict.gov

Dry Hydrant Requirements

Electronic submittals for reviews are the preferred method.

Submit all documents and inquiries to: prevention@weberfiredistrict.gov

- To install a dry hydrant, a plan review and permit fee are required. The planning and permit process must be completed before the actual construction begins. A rough and final inspection is also required.
- A drawing of the dry hydrant system shall be submitted with the application.
- The area around the dry hydrant connection must be a hard surface capable of supporting a fire engine with a gross vehicle weight of 75,000 pounds and sized so that a fire vehicle measuring approximately 42 feet long and 8 feet 8 inches wide can park no more than eight feet from the dry hydrant connection.
- A minimum of three feet of clear, unobstructed space shall be provided around the dry hydrant.
- The WFD must approve the final location of the dry hydrant connection.
- The dry hydrant connection must be protected and have reflective material to identify it in the dark.
- An approved placard identifying the dry hydrant and gallons holding.
- A minimum of schedule 40 pipe and component fittings shall be used. Horizontal and vertical piping shall have an inside diameter of six inches. A minimum number of elbows shall be used in the system.
- Dry hydrant system piping shall be supported and/or stabilized using approved engineering design practices.
- Stabilization, pipe restraints, or equivalent protection shall be employed at elbows, joints, and other system stress points.
- The dry hydrant connection shall terminate with a six-inch ninety-degree elbow. The dry hydrant connection must terminate in a 6" National Thread female fitting with a plug. See example below.
- The center of the dry hydrant connection must be between 40 and 48 inches above grade, where the fire vehicle will park.
- The vertical piping, including the height of the riser, shall meet the requirements in Table A of this document.
- Dry hydrant systems shall be designed and constructed so that the slope and piping configuration do not impede drafting capability. Slope shall be considered in determining the maximum vertical piping dimensions.
- A strainer is required on the horizontal pipe termination in the water source. The strainer shall be not less than four feet below the normal water elevation. The strainer shall be at least one foot above the bottom of the water source.
- The water supply source for the dry hydrant shall be available year-round.
- For additional information, reference the current NFPA 1142 Edition.

PLEASE NOTE THAT THIS IS NOT A SUBSTITUTE FOR A HYDRANT OR SUPPRESSION SYSTEM

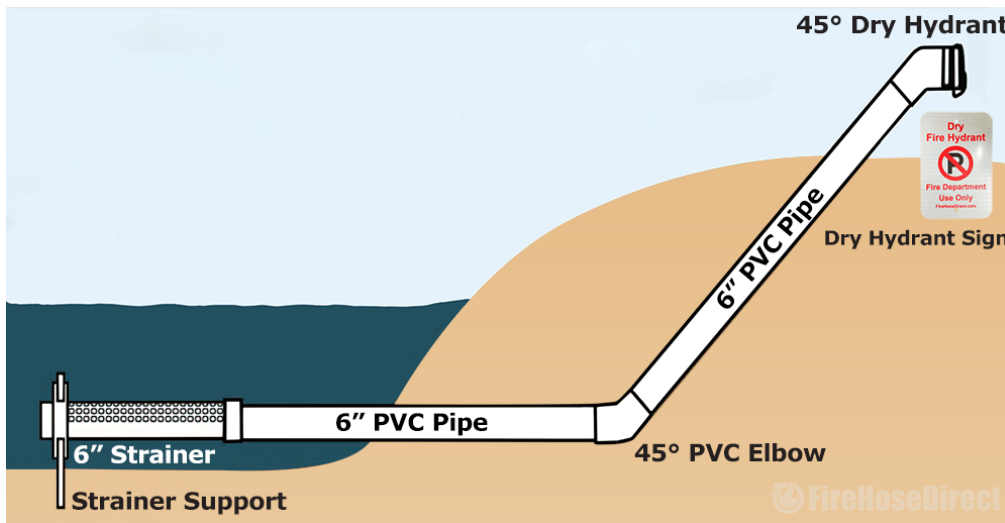
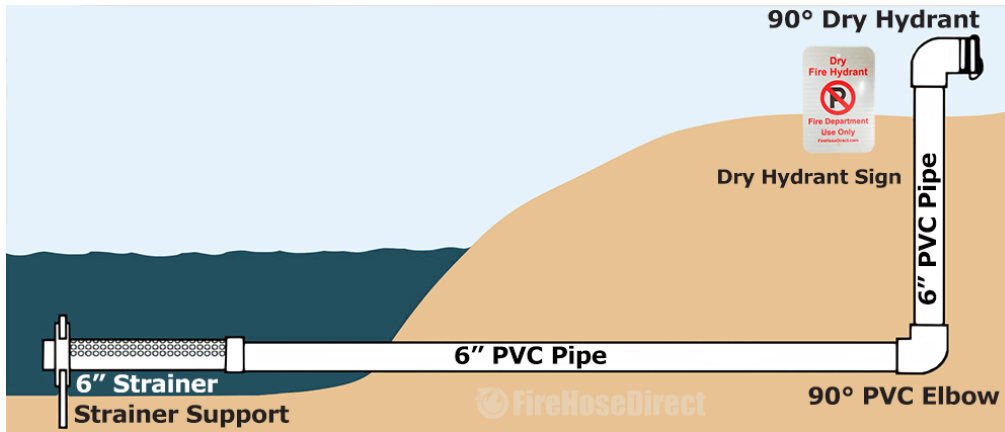
TABLE A – Maximum Attainable Lift

Elevation above sea level	Maximum height of vertical piping
4000'	18'
5000'	17'
6000'	16'
7000'	15'
8000'	14'
9000'	13'

Example of Dry Hydrant Connection



Example of Dry Hydrant Systems





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Plan Submittal Application

***NOTE: Please allow up to 14 business days for plan reviews. ***
Submit to: prevention@weberfiredistrict.gov

Date:	
Applicant Name:	
Applicant Address: <small>*Complete, include city & zip</small>	
Phone Number:	
Email Address:	
Project Name:	
Project Address: <small>*Complete, include city & zip</small>	
Project Description:	
Comments:	

***Plan review fees are due immediately and will not be released until the fee is paid. ***
Plans older than 30 days may be subject to a re-review fee.

For help, please call **801-782-3580**, email
prevention@weberfiredistrict.com or visit:
www.weberfiredistrict.com/fire-prevention