

I. STORAGE

Fire department stored water requirements for residential units outside of a water purveyor's district shall comply with the Santa Barbara County Fire Department Development Standard #3. For projects served by a water purveyor, stored water will not be allowed unless approved by the Fire Chief or designee.

NOTE: For commercial designated structures, see Development Standard #2.

- A. For non-sprinklered buildings, the tank shall have a capacity of 500 gals plus 1 gal per sq ft of building floor area (minimum of 2,500 gals) in addition to the domestic storage requirement. This amount shall be reserved for fire protection purposes exclusively. The domestic supply outlet from the tank must be located above the minimum capacity required by the fire department. (See Example, Page 3)
- B. For sprinklered buildings, the tank shall be 2,500 gals in addition to the domestic storage requirement. This amount shall be reserved for fire protection purposes exclusively. The domestic supply outlet from the tank must be located above the minimum capacity required by the fire department. (See Example, Page 3)
- C. For NFPA 13 sprinklered Tier I Wineries less than 5000 net square feet in size, stored water is required to be a minimum of 10,000 gallons and shall comply with all other aspects of this standard.
- D. Tanks shall be set on a three (3) inch compacted crushed stone or granular base, or on a concrete foundation (NFPA Chapter 11).
- E. The tank shall be maintained full at all times by an automatic refilling device.
- F. In designated High Fire Hazard areas, 30' brush clearance shall be maintained at all times around water tanks.
- G. When the fire service connection outlet is directly on the tank, the tank outlet and the approved control valve shall have a minimum inside diameter of 4 inches. The fire connection outlet shall have National Standard threads and be protected by a threaded metal cap.
- H. The outlet on the tank shall be located on the side of the tank, at the base, and shall face the road/driveway. The outlet shall be accessed by a fire department approved all weather road located within 10 ft of the outlet and situated in such a manner that fire apparatus will be able to connect to the outlet without blocking the roadway.

- I. When a standpipe or other fire service connection outlet is remote from the tank, an approved shutoff valve, locked in the open position, must be provided on the tank (See Example, Page 3)
- J. An underground cistern may also be used for a stored water fire protection system (SWFPS). An approved fire service connection and water main shall be installed and the base of the cistern shall be higher than the fire service connection outlet.
- K. For projects located in a designated High Fire Hazard Area, all above ground piping, including all pipes at the water tank as well as hydrant location(s), shall consist of galvanized metal.

II. STANDPIPE

- A. The standpipe shall have a minimum of one 4 in. and one 2 ½ in. discharge outlet. For a SWFPS providing in excess of 2,500 gals, other outlet configurations are acceptable subject to fire department approval. (See Example, Page 3)
- B. All SWFPS piping shall be no less than 4 in. (See Example, Page 3)
- C. The standpipe valve shall be mounted on a supported 4 in. galvanized riser.
- D. The standpipe shall be located no closer than 50 ft and no further than 150 ft from the structure being protected along the path of approach. (See Example, Page 3)
- E. The standpipe valve shall be a minimum of 18 in. and a maximum of 36 in. above grade and shall in no case be higher than the tank base. (See Example, Page 3)
- F. The standpipe and riser shall be painted red.
- G. The standpipe shall have national standard threads, a pentagonal operating nut and metal caps to protect threads.
- H. The standpipe shall be accessed by a fire department approved all weather road located within 10 ft of the standpipe and situated in such a manner that fire apparatus will be able to connect to the standpipe outlet without blocking the roadway. (See Example, Page 3)
- I. The water main shall be a minimum of 4 in. inside diameter. (See Example, Page 3)
- J. A SWFPS for multiple residential parcels may have cumulative water storage in a central location with mains and fire connections to each parcel.
- K. Plans for any SWFPS shall be submitted to the fire department for approval prior to project construction.

EXAMPLE:

Elevated water tank with automatic refill device, 2,500 gallons minimum capacity. Domestic storage outlet shall be located above the 2,500 gals minimum capacity.

