

FAUQUIER COUNTY WATER AND SANITATION AUTHORITY  
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## UTILITY STANDARDS MANUAL AMENDMENT FORM

The Authority's Utility Standards Manual is hereby amended as follows:

### Section Being Amended: 4.07 Installation of Hydrants

#### From:

The hydrant shall be set upon a slab of stone or concrete not less than four inches thick and fifteen inches square. The back of the hydrant opposite the pipe connection shall be firmly blocked against the vertical face of the trench with a cast-in-place 3,000 psi concrete thrust block to prevent the hydrant from blowing off the line, as shown in the Detail WD-04. Not less than eight cubic feet of crushed stone shall be placed around the base of the hydrant to insure proper drainage.

The pipe connecting the hydrant to the water main shall be a nominal size of 6 inches and equipped with a valve and valve box. Hydrants shall be set with the invert of the pumper connection 18 inches above finished grade, with the pumper connection facing the street. The connecting pipe will have the same depth of cover as the distributing mains. The backfill around hydrants shall be thoroughly compacted to the grade line.

To prevent contamination from backsiphonage, avoid installing fire hydrants in areas subject to high groundwater, flooding, contaminant or pollutant spills, or in areas where surface water ponds. If unavoidable, a check valve shall be installed on the connector line. The check valve shall be positioned ahead of the hydrant main valve so as not to interfere with normal hydrant maintenance or repair, not impede access to water in an emergency, or cause water hammer.

Once final grade is achieved around a hydrant, the hydrant will be painted with a fresh coating of Rust-Oleum model# 245478: V7400 System, Alkyd Enamel, Safety Red paint; or approved equal. Paint shall be applied with a brush and/or roller in accordance with the manufacturer's recommendations. The use of aerosol paint is not permitted.

#### To:

The hydrant shall be set upon a slab of stone or concrete not less than ~~four~~ **six** inches thick and ~~fifteen~~ **twelve** inches square. The back of the hydrant opposite the pipe connection shall be firmly blocked against the vertical face of the trench with a cast-in-place 3,000 psi concrete thrust block to prevent the hydrant from blowing off the line, as

shown in the Detail WD-04. Not less than eight cubic feet of crushed stone shall be placed around the base of the hydrant to insure proper drainage.

The pipe connecting the hydrant to the water main shall be a nominal size of 6 inches and equipped with a valve and valve box **located as near the main as practicable. Where a 6-inch lead to a hydrant is longer than 50-feet, a second 6-inch gate valve shall be installed within 6-feet, but no closer than 1-foot, of the hydrant.** Hydrants shall be set with the invert of the pumper connection 18 inches above finished grade, with the pumper connection facing the street. The connecting pipe will have the same depth of cover as the distributing mains; **however, fire hydrants shall have a maximum bury depth of 7-feet.** The backfill around hydrants shall be thoroughly compacted to the grade line.

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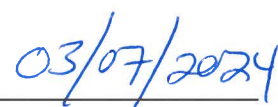
**All new fire hydrants shall be flow tested in accordance with NFPA 291: Recommended Practice for Fire Flow Testing and Marking of Hydrants. Test results shall be provided to the Authority's Water Department. Hydrant bonnet and caps shall be painted with the following capacity-indicating color scheme using reflective-type paint for easy identification at night:**

- Light Blue: Rated capacity of 1,500 gpm or greater**
- Green: Rated capacity of 1,000 to 1,499 gpm**
- Orange: Rated capacity of 500 to 999 gpm**
- Red: Rated capacity less than 500 gpm**

**Fire hydrant flow testing and marking of hydrants shall be completed by the developer under the supervision of the FCWSA staff prior to Final Inspection in accordance with Volume 3, Part C (Developer Services Procedures) of the Authority's Operating Code.**

Approved:

  
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Benjamin R. Shoemaker  
Executive Director

  
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Date