

FAIRFAX COUNTY WATER AUTHORITY

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2005-01

To: All Architects, Builders, Developers, Engineers, and Surveyors Practicing in Fairfax County

Subject: Corrosion Control Standards for Water Mains

Effective March 15, 2005, all site plans which include water mains to be constructed within the Fairfax Water (formerly Fairfax County Water Authority) service area shall meet the following standards:

- 1) All water mains shall be polyethylene encased in accordance with the following table, "Fairfax Water Corrosion Standards for Water Mains", ANSI/AWWA C105/A21.5 – American National Standard for Polyethylene Encasement for Ductile Iron Pipe Systems and the Fairfax Water Standard Trench Detail. Polyethylene shall be Class B material, seamless 4 mils thick high density cross-laminated. The flat tube form shall be used with minimum width based on nominal pipe diameter in accordance with ANSI/AWWA C105/A21.5.

FAIRFAX WATER CORROSION STANDARDS FOR WATER MAINS

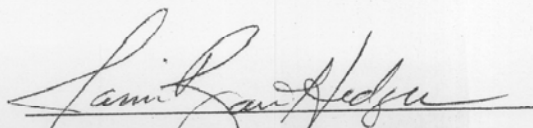
INSTALLATION	REQUIREMENTS ¹
Water Mains Less Than 24-inch Diameter	Single 4 mil polyethylene encasement
Water Mains 24-inch Diameter and Larger	Double 4 mil polyethylene encasement
Casing Pipe – Trenchless Crossing ²	Test Station Anodes
Gas Crossing & Other Impressed Current Systems	Bonded Joints Test Stations Anodes

¹ Refer to Fairfax Water Standard Details dated September 2004

² Carrier pipe (water main) does not require polyethylene encasement within casing pipe, but does require all pipe joints to be bonded and restrained pipe.

- 2) Fairfax Water Standard Details dated September 2004. These details may be found on the Fairfax Water website at <http://www.fairfaxwater.org/engineering/developers.htm>

Previous Fairfax Water corrosion standards dated June 10, 2002, will apply to all site plans approved by Fairfax County prior to March 15, 2005.



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