

Sewer and Drain Relining Part 2

: 1 (New), 1.1 (New), 1.2 (New), 1.3 (New), 1.4 (New), 1.5 (New), 1.6 (New), 1.7 (New), 1.8 (New), 1.9 (New), 1.10 (New), 1.11 (New), 1.12 (New), 44 ASTM, ASTM Chapter 44 (New), ASTM Chapter 44 (New)

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2015 Virginia Residential Code

Add new text as follows:

SECTION P3011 **RELINING BUILDING SEWERS AND BUILDING DRAINS**

P3011.1 General. This section shall govern the relining of existing *building sewers and building drainage piping*.

P3011.2 Applicability. The relining of existing *building sewer and building drainage piping* shall be limited to gravity drainage piping, 4 inches (102 mm) in diameter and larger. The relined piping shall be of the same nominal size as the existing piping.

P3011.3 Pre-installation requirements. Prior to commencement of the relining installation, the existing piping sections to be relined shall be descaled and cleaned. After the cleaning process has occurred and water has been flushed through the system, the piping shall be inspected internally by a recorded video camera survey.

P3011.3.1 Pre-installation recorded video camera survey. The video survey shall include verification of the project address location. The video shall include notations of the cleanout and fitting locations, and the approximate depth of the existing piping. The video shall also include notations of the length of piping at intervals no greater than 25 feet.

P3011.4 Permitting. Prior to permit issuance, the code official shall review and evaluate the pre-installation recorded video camera survey to determine if the piping system is capable to be relined in accordance with the proposed lining system manufacturer's installation requirements and applicable referenced standards.

P3011.5 Prohibited applications. Where review of the pre-installation recorded video camera survey reveals that piping systems are not installed correctly or defects exist, relining shall not be permitted. The defective portions of piping shall be exposed and repaired with pipe and fittings in accordance with this code. Defects shall include, but are not limited to, backgrade or insufficient slope, complete pipe wall deterioration or complete separations such as from tree root invasion or improper support.

P3011.6 Relining materials. The relining materials shall be manufactured in compliance with applicable standards and certified as required in Section 303. Fold-and-form pipe reline materials shall be manufactured in compliance with ASTM F1504 or ASTM F1871.

P3011.7 Installation. The installation of relining materials shall be performed in accordance with the manufacturer's installation instructions, applicable referenced standards and this code.

P3011.7.1 Material data report. The installer shall record the data as required by the relining material manufacture and applicable standards. The recorded data shall include but is not limited to the location of the project, relining material type, amount of product installed and conditions of the installation. A copy of the data report shall be provided to the code official prior to final approval.

P3011.8 Post-installation recorded video camera survey. The completed relined piping system shall be inspected internally by a recorded video camera survey after the system has been flushed and flow tested with water. The video survey shall be submitted to the the *code official* prior to finalization of the permit. The video survey shall be reviewed and evaluated to provide verification that no defects exist. Any defects identified shall be repaired and replaced in accordance with this code.

P3011.9 Certification. A certification shall be provided in writing to the code official, from the permit holder, that the relining materials have been installed in accordance with the manufacturer's installation instructions, the applicable standards and this code.

P3011.10 Approval. Upon verification of compliance with the requirements of Sections 717.1 through 717.9, the code official shall approve the installation.

ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken PA 19428

Revise as follows:

ASTM

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F1871 2011: Standard Specification for Folded/Formed Poly (Vinyl Chloride) Pipe Type A for Existing Sewer and Conduit Rehabilitation

Add new text as follows:

ASTM

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F1504-2014: Standard Specification for Folded Poly (Vinyl Chloride) (PVC) for Existing Sewer and Conduit Rehabilitation

Reason Statement: To date there has been limited to no code reference for all the technologies currently available to the relining piping systems. Many localities across the state, and country, are accepting it as an alternate material and method with no code guidance. This proposal is not an endorsement of any particular method or process. It does not promote or require relining. It simply provides installation and acceptance criteria when the application is encountered. This language will provide consistent application for all materials and technologies for the industry, including the code official and installers alike. Pipe relining technology has been successfully used for many years. It began with larger utility piping systems and has progressed into smaller piping systems that are privately owned and fall within the purview of the plumbing code. The process reduces the impact of open trench excavation's and thereby reduces repair cost according to industry data.

This proposal will increase Resiliency

Resiliency Impact Statement: Reducing open trench excavation, assisting with preservation of the natural environment and limiting destruction of private property will help increase resiliency.

The code change proposal will decrease the cost of construction

Cost Impact Statement: Reducing open trench excavation, assisting with preservation of the natural environment and limiting destruction of private property will reduce the cost of plumbing repairs.

Proposal # 123