

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

(The person who receives or originates the issue and needs to forward the issue for action.)

Modify Specification _____948_____.
Section/File number

New Section _____.
Section number

Subject: Miscellaneous Types of Pipe

Origination date: March 7, 2005

Originator: Jerome D. Taylor

Office/Phone: State Drainage Office/414-4355

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Userid:

Problem statement: Requirement for Cross Drain and Storm Drain, soil tight pipe joints to be water tight to 2 psi [13.8 kPa], needs to be changed to 5 psi [34.5 KPa]. (Rabbit trail fix for Section 430 Change)

Information source: State Drainage Engineer and Department staff recommends this change.

Background data: When joints are water tight to 5 psi, chances of trench backfill infiltration would be nonesuch.

Recommended

Usage Note: Jobs with pipe.

**Desired
implementation**

date: Beginning with the January 2006 letting.



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: April 4, 2005

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: Proposed Specifications Change: 9480100 - Miscellaneous Types of Pipe

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Section 948.

This change was proposed by Jerome Taylor of the State Drainage Office to update this Section due to the modification of Section 430.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after May 2, 2005 may not be considered. Your input is encouraged.

DFB/jf

Attachment

COMMENTS:

Submitted by:

Phone #:

**MISCELLANEOUS TYPES OF PIPE.
(REV 3-25-05)**

SUBARTICLE 948-1.7 (Pages 858 and 859) is deleted and the following substituted:

948-1.7 Polyvinyl Chloride (PVC) Pipe (12 to 48 Inches [300 to 1,200 mm]):

Polyvinyl Chloride (PVC) Pipe for side drain, cross drain, storm drain and other specified applications shall conform to AASHTO M 278 for smooth wall PVC pipe, or AASHTO M 304 or ASTM F 949 for PVC ribbed pipe. Mitered end sections are not to be constructed of polyvinyl chloride. Use only concrete or metal mitered end sections as indicated in the Design Standards.

When rubber gaskets are to be installed in the pipe joint, the gasket shall be the sole element relied on to maintain a tight joint. Test pipe joints at the plant hydrostatically using test methods in ASTM D 3212 [ASTM D 3212M]. ~~Soil-tight joints must be watertight to 2 psi [13.8 kPa]. Watertight Pipe joints must be watertight to 5 psi [34.5 kPa] unless a higher pressure rating is required in the plans in accordance with 430-4.~~

Provide certification of the actual mean diameter of pipe shipped to the project. Include in the certification the minimum and maximum diameters used to certify the actual mean diameter. The certification shall be attested to by a person having legal authority to bind the manufacturing company.

SUBARTICLE 948-2.3 (Page 859) is deleted and the following substituted:

948-2.3 Corrugated Polyethylene Pipe (12 to 48 inches [300 to 1,200 mm]):

Corrugated Polyethylene Pipe for side drain, cross drain, storm drain and other specified applications shall conform to AASHTO M 294 with the following exceptions: corrugations may only be annular; pipe conforming to the minimum cell classification 335420E may be used if the combination of color and UV stabilizer provides the same or better UV protection as 335420C. Mitered end sections are not to be constructed of polyethylene. Use only concrete or metal mitered end sections as indicated in the Design Standards.

When rubber gaskets are to be installed in the pipe joint, the gasket shall be the sole element relied on to maintain a tight joint. Test pipe joints at the plant hydrostatically using test methods in ASTM D 3212 [ASTM D 3212M]. ~~Soil-tight joints must be watertight to 2 psi [13.8 kPa]. Watertight Pipe joints must be watertight to 5 psi [34.5 kPa] unless a higher pressure rating is required in the plans in accordance with 430-4.~~

Provide certification of the actual mean diameter of pipe shipped to the project. Include in the certification the minimum and maximum diameters used to certify the actual mean diameter. The certification shall be attested to by a person having legal authority to bind the manufacturing company.