

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 _____943_____.
Section/File number

New Section _____.
Section number

Subject: Corrugated Steel and Pipe Arch-General Requirements

Origination date: March 7, 2005

Originator: Jerome D. Taylor

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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: 9430100 - Corrugated Steel
Pipe and Pipe Arch-General Requirements**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Section 943.

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 #:

**CORRUGATED STEEL PIPE AND PIPE ARCH-GENERAL REQUIREMENTS.
(REV 3-25-05)**

ARTICLE 943-1 (Pages 849 and 850) is deleted and the following substituted:

943-1 General Requirements.

Corrugated steel pipe, including round culvert pipe, pipe arch and underdrain and coupling bands for each type shall conform to AASHTO M 36 [AASHTO M 36M]. 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.

In addition, except for underdrain corrugated steel pipe including pipe arch shall be fabricated with helical corrugations with a minimum of two annular corrugations formed on each end of each pipe to accommodate a coupling band. Annular fabrication is not permitted unless specifically called for in the plans or specifications.

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.~~