

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Modify Specification _____ 962 _____
Section/File number

New Section _____
Section number

Subject: Miscellaneous Metal Items

Origination date: 05-03-10

Originator: Gevin McDaniel

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Problem statement: The following two Sections will be modified:

- Section 962-8.1 specifies ASTM A-53 for Pipe Railing. ASTM A-53 is very restrictive and not required by design for certain applications. Language is being added to allow pipe rails in accordance with other ASTM Specifications. In particular, the pipe rail detailed in Design Standard Index 400, Sheet 17 of 26 is being clarified to reference ASTM F-1083.
- Section 962-10 calls for a Certified Mill Analysis for all metal materials to be used in fabrication in accordance with their respective ASTM or AASHTO specification. Many ASTM and AASHTO specifications do not require a Certified Mill Analysis, only a Certification Statement. Language is being added to clarify the intent.

Information source: Charles Boyd, Steve Nolan, Ghulam Mujtaba

Background data: A comment was received during a separate industry review of Section 962 stating that funds are being tied up on jobs unnecessarily due to the requirement of obtaining a Certified Mill Analysis for non-structural tubing used for pipe railing as shown in Design Standard Index 400, Sheet 17 of 26. This particular pipe rail need not meet ASTM A-53 as mandated by Section 962-8.1. ASTM A-53 is too restrictive and meant for pipes under high pressure and high temperature. It also requires a Certified Mill Analysis to ensure the chemical properties of the pipe meet the

specification. For the pipe rail used in the Design Standard Index 400, Sheet 17 of 26, a less restrictive ASTM specification F-1083 is more applicable and only requires a Certification Statement.

Recommended

Usage Note:

Use for guardrail projects with pedestrian safety treatments.

**Estimated fiscal
impact, if
implemented:**

None

Implementation of these changes, if and when approved, will begin with the January 2011 letting.



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: July 7, 2010

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9620801 Structural Steel and Miscellaneous Metal Items (Other than Aluminum).**

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

The changes were proposed by Gevin McDaniel of the State Structures Design Office to clarify the test methods and required certification for different types of pipe railing.

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 ST986RP or rudy.powell@dot.state.fl.us. Comments received after **August 4, 2010** may not be considered. Your input is encouraged.

RP/dt
Attachment

STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS (OTHER THAN ALUMINUM)
(REV 5-3-10)

SUBARTICLE 962-8.1 (Page 916) is deleted and the following substituted:

962-8.1 Pipe Railings: *Unless otherwise noted in the Plans,* Provide steel pipe conforming to the requirements of ASTM A-53 for Standard Weight Pipe.

SUBARTICLE 962-10.1 (Page 918) is deleted and the following substituted:

962-10.1 General: Supply a Certified Mill Analysis *or Certification Statement* to the Engineer for all metal materials to be used in fabrication, including but not limited to plates, bars, shapes, and fasteners in accordance with their respective ASTM or AASHTO specification. Show or attach the full and complete designation of the project for which the materials are intended for use and specifically cross-identify each furnished piece to the order material.

Material meeting equivalent AASHTO and ASTM specifications may be supplied under either specification. Provide materials in accordance with the latest edition of the specifications shown below, as approved by the Engineer.