

ORIGINATION FORM

Specifications 410, 415,449, 548, 901, and 931

Date: **10 14-2013**

Originator: Timothy J. Ruelke, P.E.
Director, Office of Materials

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Specification Title: Section 410 Precast Concrete Box Culvert
Section 415 Reinforcing Steel
Section 449 Precast Concrete Drainage Products
Section 548 Retaining Wall System
Section 901 Coarse Aggregate
Section 931 Metal Accessory Materials for Concrete Pavement and
Concrete Structures

Specification Section, Article, or Subarticle Number:

Subarticle 548 -2.3; Article 548-7; Subarticle 931-1.2; Subarticle 901-1.2; Article 410-2; Article 415-6;
Article 449-2

Why does the existing language need to be changed?

ASTM Standards A 82, A 185, A 496 and A 497 have been replaced with modified ASTM A 1064.
The terminology Welded Wire Fabric has been replaced with Welded Wire Reinforcement.

Article 548-7 is expanded to allow shipment of precast concrete products after 72- hour curing period
and attainment of the 28-day compressive strength

Summary of the changes: The following are the summary of changes in each document.

- 1- Subarticle 548 -2.3: Replace ASTM A 82 and A 185 with ASTM A 1064.
- 2- Article 548-7: The article is expanded to allow shipment of precast concrete products after 72-
hour curing period and attainment of the 28-day compressive strength
- 3- Subarticle 931-1.2: The AASHTO M55 and M 221 have been deleted. ASTM A 1064 covers the
requirements.
- 4- Subarticle 901-1.2: The terminology Welded Wire Fabric has been replaced with Welded Wire
Reinforcement.

5- Article 410-2: ASTM A 82, ASTM A 496 and ASTM A 615 are deleted and replaced with ASTM A 1064.

6- Article 415-6: Welded Deformed Steel Welded Wire Reinforcement.

7- Article 449-2: ASTM A 82, ASTM A 496, A 185, A 497 and ASTM A 615 are deleted and replaced with ASTM A 1064.

Are these changes applicable to all Department jobs? **Yes**

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **No**

If yes, what is the estimated change in costs?

With who have you discussed these changes? The propose changes have been discussed with the colleagues at the following offices:

1- Steven Nolan, P.E. Structures Design Engineer
FDOT District 7 Structures Design

2- Gevin J. McDaniel, P.E.
Senior Structures Design Engineer
FDOT Structures Design Office

What other offices will be impacted by these changes? **District Materials and Construction Offices**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **NO**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **No**

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: October 25, 2013
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4490200 Precast Concrete Drainage Products.**

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

This change was proposed by Ghulam Mujtaba of the State Materials Office to update the language for current industry practice.

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 SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **November 22, 2013**, may not be considered. Your input is encouraged.

DS/ah
Attachment

PRECAST CONCRETE DRAINAGE PRODUCTS.
(REV 10-16-13)

ARTICLE 449-2 is deleted and the following substituted:

449-2 Materials.

Ensure that the materials used for the construction of the precast drainage products have a certification statement from the source, showing that they meet the applicable requirements of the Specifications with the following modifications:

Reinforcing Bar.....	Section 415
Coarse Aggregate*	Section 901
Fine Aggregate*	Section 902
Portland Cement and blended cement.....	Section 921
Water.....	Section 923
Admixtures.....	Section 924
Pozzolans and slag	Section 929
Gasket Material	Section 942
Blended Hydraulic Cements	AASHTO M 240
Welded Wire <i>Reinforcement Fabric</i> ASTM A 1064 ASTM A 185 or ASTM A 497	
Wire for Site Cage Machines	<i>ASTM A1064</i>
.....	ASTM A 82, ASTM A 496 or ASTM A 615

*For concrete pipes the gradation requirements of concrete aggregates as set forth in Sections 901 and 902 are not applicable.