

ORIGINATION FORM

Date: 3/15/2011

Originator: Stanley Youmas, Ben Watson

Contact Information: 850-414-4252, 352-955-2935

Specification Title: 914 Stabilization Materials

Specification Section, Article, or Subarticle Number: 914-2.2

Why does the existing language need to be changed?

Prior to the January 2011 workbook, the specifications did not address the maximum quantity of RAP or RAP blended material that could be used in stabilizing material. The language “Ensure the maximum final quantity of Reclaimed Asphalt Pavement (RAP) in the subgrade area is no more than 25% by volume of the stabilized area.” was added to 160-3.2 to address potential settlement issues when larger quantities of RAP material are used. However, it has become apparent that this does not address the potential for settlement that is directly related to the variability of actual asphalt content in RAP and RAP blended sources. The existing language needs to be modified and moved to Section 914 to more appropriately avoid potential settlement issues by determining the actual Asphalt Content in the final mixed Subgrade.

Summary of the changes:

914-2.2 Local Materials: Local materials used for stabilizing may be soils or recyclable materials such as crushed concrete, roof tiles and asphalt coated base or reclaimed pavement provided the following limits for Organic Content are met.

Average Organic Content* (FM 1-T- 267)	Maximum 2.5%
Individual Organic Content Sample (FM 1-T- 267)	Maximum 4%
*Note: A minimum of three samples per source.	
<i>If the Organic Content exceeds the allowable values and RAP or RAP-blended material is used as stabilizing material, the Engineer may allow FM 5-563 (with the exception of gradation analysis) in lieu of FM 1-T 267 after mixing. The maximum allowable test result is 4.7%.</i>	

Materials that contain hazardous substances or contaminants shall not be used.

If toxic substances, elements or compounds are suspected to exist at concentrations exceeding limits defined by EPA, qualifying tests shall be performed. Test methods for these substances shall be those mandated by EPA and analyzed by a certified laboratory.

Are these changes applicable to all Department jobs? If not, what are the restrictions?

All jobs

Will these changes result in an increase or decrease in project costs? If yes, what is the estimated change in costs? *No change in costs*

With who have you discussed these changes? *State Materials Office, Districts 4 and 6*

What other offices will be impacted by these changes? *Construction, materials*

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

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? *DCE Memo is being issued*



Florida Department of Transportation

RICK SCOTT
GOVERNOR

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OFFICE OF THE
SECRETARY

MEMORANDUM

DATE: April 20, 2011

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: **9140000 Stabilization Materials.**

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

This change was proposed by Ben Watson of the State Materials Office and Stanley Youmas of the State Construction Office to modify the language to avoid potential settlement issues by determining the actual asphalt content when using RAP or RAP blended material in the final mixed subgrade.

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 SP965RP or rudy.powell@dot.state.fl.us. Comments received after **May 19, 2011**, may not be considered. Your input is encouraged.

RP/dt
Attachment

STABILIZATION MATERIALS.

(REV ~~34-15308~~-11)

SECTION 914 (Page 827) is deleted and the following substituted:

**SECTION 914
STABILIZATION MATERIALS**

914-1 General.

This Section governs materials to be used in subgrade stabilization. Meet the following requirements:

Plasticity Index (AASHTO- T- 90)	Maximum 10
Liquid Limit (AASHTO- T- 89)	Maximum 40
Passing a 3--1/2 inch screen (AASHTO- T- 27)	Minimum 97%
LBR	No Requirement

914-2 Materials for Stabilizing (Limerock Bearing Ratio).

914-2.1 Commercial Materials: Materials may be either limerock, shell rock, cemented coquina or shell base sources approved in accordance with 6-3.3.

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

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