

**ORIGINATION FORM**  
**Proposed Revisions to the Specifications**

**Date:**

**Specification Section:**

**Originator:**

**Articles/Subarticles:**

**Telephone:**

**email:**

**Why does the existing language need to be changed?**

**Summary of the changes:**

**Are these changes applicable to all Department jobs?    Yes            No**  
**If not, what are the restrictions?**

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

**With who have you discussed these changes?**

**What other offices will be impacted by these changes?**

**Will this revision necessitate changes to the following:    BOE            PPM            SDG            CPAM**

**Design Standards                      List Affected Index Nos.**

**Other manual?**

**Are all references to external publications current?    Yes            No**  
**If not, what references need to be updated (please include changes in the redline)?**

**Will this revision necessitate any of the following:**

**Design Bulletin**

**Construction Bulletin**

**Estimates Bulletin**

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

Daniel Scheer 850-414-4130 [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us)

Frances Thomas 850-414-4101 [frances.thomas@dot.state.fl.us](mailto:frances.thomas@dot.state.fl.us)

Debbie Toole 850-414-4114 [deborah.toole@dot.state.fl.us](mailto:deborah.toole@dot.state.fl.us)

Ray Haverty 850-414-4129 [ray.haverty@dot.state.fl.us](mailto:ray.haverty@dot.state.fl.us)



*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.  
SECRETARY

**MEMORANDUM**

**DATE:** November 26, 2014  
**TO:** Specification Review Distribution List  
**FROM:** Daniel Scheer, P.E., State Specifications Engineer  
**SUBJECT:** Proposed Specification: **913A0000 Shell Rock Material.**

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

This change was proposed by John Shoucair of the State Materials Office (SMO) to move the language from Section 913A to Section 911 in order to consolidate all materials used for base and stabilized base into one Section. Section 913A will be deleted.

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 online at <http://www2.dot.state.fl.us/SpecificationsEstimates/Development/IndustryReview.aspx> . Comments received after **December 24, 2014**, may not be considered. Your input is encouraged.

DS/dt  
Attachment

**SHELL - ROCK MATERIAL.**  
**(REV 10-6-14)**

SECTION 913A is deleted.

**SECTION 913A**  
**~~SHELL - ROCK MATERIAL~~**

**~~913A-1 General.~~**

~~Shell rock materials to be used for shell rock base shall be defined as naturally occurring heterogeneous deposits of limestone with interbedded layers or lenses of loose and cemented shell, to include cemented sands (calcitic sandstone). This material shall be mined and processed in a manner that will result in a reasonably homogenous finished product.~~

~~Approval of mineral aggregate sources shall be in accordance with 6-2.3.~~

**~~913A-2 Deleterious Substances.~~**

~~Shell rock materials shall not contain lumps of clay, organic matter, cherty or other extremely hard materials, or other substances not defined, in sufficient quantity as to be detrimental to the finishing, strength, or performance of the base. The material shall not contain loose, free silica sand in sufficient quantity to prevent bonding of the base, or to result in a surface which is susceptible to distortion under construction traffic, or accumulation of loose sand on the finished surface which precludes bonding of the bituminous tack coat with the base, nor shall the material contain more than 50% loose, free shells, corals or skeletal remain of other marine invertebrates (retained on the No. 4 sieve). Materials shall contain no water sensitive clay minerals.~~

**~~913A-3 Physical and Chemical Properties.~~**

~~Shell rock material shall meet the following physical and chemical properties:~~

~~Limerock Bearing Ratio (LBR) (FM 5-515) Production of this material shall be controlled so as to meet the following requirements for LBR value:~~

~~The average of test values shall not be less than 100.~~

~~No individual test value shall be less than 90.~~

~~No two consecutive test values between 90 and 100.~~

~~Plasticity (AASHTO T89 and AASHTO T90) That portion of the material passing the No. 40 sieve shall be non-plastic.~~

~~Carbonates (FM 5-514) The minimum of the average percentage of carbonates of calcium and magnesium shall be 50. Material represented by any individual carbonate LOT average of less than 45% is unacceptable.~~

~~Gradation Requirements Materials classified as shell rock shall be graded uniformly down to dust and in addition, meet the following specific requirements:~~

~~Passing 3-1/2 inch sieve (maximum dimension not to exceed  
6 inches) ..... minimum 97%  
Passing No. 4 sieve ..... maximum 70%  
Passing No. 200 sieve ..... maximum 20% (washed)~~