



Florida Department of Transportation

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SECRETARY

January 13, 2015

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office
Section **913A**
Proposed Specification: **913A0000 Shell Rock Material.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are 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 review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

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)~~

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

SECTION 913A is deleted.