ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

X Modify Specification _____290_____
Section/File number

☐ New Section _____.
Section number

Subject: Granular Subbase

Origination date: 11/01/2006

Originator: Tom Malerk
Office/Phone: State Materials Office / 352-955-6620
Email address/ Userid: tom.makerk@dot.state.fl.us
rt820tm

Problem statement: Section 290 is modified for general clean up.

Information source: Ben Watson, State Materials Office

Background data: For more information please contact Ben Watson at 352-955-2935.

Recommended Usage Note: All contracts let after July 2007.

Expected fiscal impact, if implemented: None

Implementation of these changes, if and when approved, will begin with the July 2007 letting.

Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

DENVER J. STUTLER, JR.
SECRETARY

M E M O R A N D U M

DATE: November 29, 2006

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: Proposed Specifications Change: 2900000 Granular Subbase

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

This change was proposed by Tom Malerk of the State Materials Office for general cleanup.

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 SP965DB or duane.brautigam@dot.state.fl.us. Comments received after December 27, 2006 may not be considered. Your input is encouraged.

DFB/ft

Attachment

COMMENTS:

Submitted by: Phone #:

GRANULAR SUBBASE
(REV 11-1-06)

SECTION 290 (Pages 229 – 230) is deleted and the following substituted:

SECTION 290
GRANULAR SUBBASE

290-1 Description.

Construct a granular subbase as a component of an Optional Base.

290-2 Materials.

Select one of the materials listed below and conform to the following requirements:

Graded Aggregate 204-2
Limerock .....Section 911
Bank Run Shell .....Section 913
Shell Rock .....Section 913A
Cemented Coquina .....Section 915

290-3 Construction Methods.

For the subbase material selected, construct the subbase in conformance with the following:

Limerock .....Section 200
Bank Run Shell .....Section 200
Shell Rock .....Section 200
Cemented Coquina .....Section 204
Graded Aggregate .....Section 204

Straightedge and hard-planing provisions will not apply. Compact the subbase to an average of not less than 98% of the maximum density as determined under ~~FM 5-521~~ *AASHTO FM 1-T 180, Method D. Average up to a maximum of four consecutive sections to obtain the specified density.* The minimum acceptable density at any location within the subbase is 95% of maximum. The highest density used in calculating the average density will be 100% of the maximum.

Priming is not required.

When Granular Subbase is substituted for Subgrade on shoulders, achieve a minimum of 95% density for each section. Notify the engineer upon successful completion of Quality Control testing on each section. Reduced frequency is not allowed when using Granular Subbase.

The Department will verify QC results at a minimum frequency of one test for each set of averaged sections with a minimum acceptable density of 95% as determined by AASHTO FM 1-T 180, Method D at any location within the subbase.

290-4 Thickness Requirements.

290-4.1 General: Do not substitute granular subbase materials in excess of the tolerance specified for the asphalt portion of the Optional Base.

290-4.2 Measurements: When the Department is ready to measure the finished subbase, provide the coring equipment and the operator and include this in the unit price for Optional Base. The Engineer will select the coring locations and make the acceptance measurements. Thickness measurements will be taken through 3 inch diameter holes. For subbase areas greater

than 1,000 yd^2, the minimum frequency of measurement will be one per 200 feet of roadway. For smaller subbase areas, the minimum frequency of measurement will be one per 500 yd^2 of subbase.

290-4.3 Maximum Allowable Thickness: The maximum allowable thickness of the subbase is 4 1/4 inches. Remove and replace areas of subbase exceeding the maximum allowable thickness.

290-4.4 Minimum Allowable Thickness: The minimum allowable thickness of the subbase is 3 1/2 inches. Remove and replace areas not meeting the minimum allowable thickness. If authorized by the Engineer, additional asphalt may be substituted to achieve the full combined Optional Base thickness.