ORIGINATION FORM
Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date: 5-25-2021

Office: Construction

Originator: Rich Hewitt

Specification Section: 300

Telephone: 386-943-5305

Article/Subarticle: 8.4

email: Richard.Hewitt@dot.state.fl.us

****Will the proposed revision require changes to:**

Publication	Yes	No	Office Staff Contacted and date contacted
Standard Plans Index	○	◉	Rick Jenkins 5/25/2021
Traffic Engineering Manual	○	◉	Javier Ponce 5/25/2021
FDOT Design Manual	○	◉	Bobby Bull 5/25/2021
Construction Project Administration Manual	○	◉	Scott Arnold 5/25/2021
Basis of Estimate/Pay Items	○	◉	Missy Hollis & Ryan Gray 5/
Structures Design Guidelines	○	◉	Andre Pavlov 5/25/2021
Approved Product List	○	◉	Karen Byram 5/25/2021
Materials Manual	○	◉	Tim Counts 5/25/2021

**This section must be completed prior to processing proposed revisions.

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction Bulletin** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Are all references to external publications current? **Yes** ◉ **No** ○

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Change to simplify tack rates down to two (from current number of five tack rates) and only require project staff to know surface being paved on top of (i.e. tack rate no longer dependent upon type of mix being placed). This greatly simplifies tack rates. Change also increases the upper tack rate tolerance. This helps reduces out of tolerance tack rates.

Summary of the changes:

Changes simplify tack rates down to two (from current number of five tack rates) and only require project staff to know surface being paved on top of (i.e. tack rate no longer dependent upon type of mix being placed).

Are these changes applicable to all Department jobs? **Yes** ◉ **No** ○

If not, what are the restrictions?

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

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M E M O R A N D U M

DATE: June 3, 2021

TO: Specification Review Distribution List

FROM: Daniel Strickland, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **3000100 PRIME AND TACK COATS.**

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

The changes are proposed by Richard Hewitt to simplify tack rates in the Standard Specification.

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://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx . Comments received after **July 1, 2021,** may not be considered. Your input is encouraged.

DS/dh

Attachment

PRIME AND TACK COATS.
(REV 5-25-21)

ARTICLE 300-1 is deleted and the following substituted:

300-1 Description.

Apply bituminous prime coats on previously prepared bases~~,~~ and apply bituminous tack coats on previously prepared bases and on existing pavement surfaces.

SUBARTICLE 300-8.4 is deleted and the following substituted:

300-8.4 Application Rate: Use an application rate defined in Table 300-2. Control the application rate within plus or minus 0.01 gallon per square yard of the target application rate. The target application rate may be adjusted by the Engineer to meet specific field conditions. Determine and record the application rate a minimum of twice per day, once at the beginning of each day's production and again, as needed, to control the operation. When using PG 52-28, multiply the target application rate by 0.6.

~~Table 300-2~~
~~Tack Coat Application Rates~~

~~Asphalt Mixture Type~~	~~Underlying Pavement Surface~~	~~Target Tack Rate (gal/yd^2)~~
~~Base Course, Structural Course, Dense Graded Friction Course~~	~~Newly Constructed Asphalt Layers~~	~~0.05 minimum~~
	~~Milled Surface or Oxidized and Cracked Pavement~~	~~0.07~~
	~~Concrete Pavement~~	~~0.09~~
~~Open Graded Friction Course~~	~~Newly Constructed Asphalt Layers~~	~~0.06~~
	~~Milled Surface~~	~~0.08~~

Table 300-2
Tack Coat Application Rates

Asphalt Mixture Type	Underlying Pavement Surface	Target Tack Rate (gal/yd^2)[1]
Base Course, Structural Course, Dense-Graded Friction Course, Open-Graded Friction Course	Newly Constructed Asphalt Layers	0.06
	Milled Asphalt Pavement Surface, Oxidized and Cracked Asphalt Pavement, Concrete Pavement	0.09
Note 1: Target tack application rates greater than those specified may be used upon approval of the Engineer.		

When using a meter to control the tack or prime application rate, manually measure the volume in the tank at the beginning and end of the application area for a specific target application rate. Perform this operation at a minimum frequency of once per production shift. Resolve any differences between the manually measured method and the meter to ensure

the target application rate is met in accordance with this Section. Adjust the application rate if the manually measured application rate is greater than plus 0.02 or minus 0.01 gallons per square yard when compared to the target application rate.