Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
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STEPHANIE KOPELOUSOS
SECRETARY

July 30, 2009

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 234
Proposed Specification: 2340801.D01

Dear Ms. Gourdine:

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

These changes were proposed by Tom Malerk to modify the wording for calculating the spread rate to be similar to Sections 334 and 337.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to ST986RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

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

RP/dr
Attachment
cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

SUPERPAVE ASPHALT BASE – THICKNESS REQUIREMENTS.
(REV 7-29-09)

SUBARTICLE 234-8.1 (Page 220) is deleted and the following substituted:

234-8.1 General: *The total thickness of the Type B asphalt layer(s) will be the plan thickness as shown in the Contract Documents. Before paving, propose a thickness for each individual layer meeting the requirements of this specification, which when combined with other layers (as applicable) will equal the plan thickness. For construction purposes, the plan thickness and individual layer thickness will be converted to spread rate based on the maximum specific gravity of the asphalt mix being used, as well as the minimum density level, as shown in the following equation:*

Spread rate (lbs/yd^2) = t x G_{mm} x 43.3

Where: t = Thickness (in.) (Plan thickness or individual layer thickness)

G_{mm} = Maximum specific gravity from the verified mix design

The weight of the mixture shall be determined as provided in 320-2.2. For target purposes only, spread rate calculations should be rounded to the nearest whole number.

~~When the Department pays for the pavement on a square yard basis, the Engineer will determine the thickness of the asphalt base based upon the spread rate of the material. The minimum spread rate for the total thickness shall be established from the plan thickness in the following manner: 43.3 lbs/sy multiplied by the maximum specific gravity of the mix (as indicated on the mix design) for every one inch of desired thickness, or as determined by the Engineer. The weight of the mixture shall be determined as provided in 320-2.2 (including the provisions for automatic recordation system).~~

~~The spread rate for each individual layer shall be established by the Engineer. The minimum layer spread rate shall be 43.3 lbs/sy multiplied by the maximum specific gravity (G_{mm}) of the mix (as indicated on the mix design) for every one inch of desired thickness.~~

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Spread rate (lbs/yd^2) $= t \times G_{mm} \times 43.3$

Where: t = Thickness (in.) (Plan thickness or individual layer thickness)

G_{mm} = Maximum specific gravity from the verified mix design

The weight of the mixture shall be determined as provided in 320-2.2. For target purposes only, spread rate calculations should be rounded to the nearest whole number.