

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION DESIGN DIVISION

NASHVILLE, TENNESSEE 37243-0348

INSTRUCTIONAL BULLETIN NO. 11-15

Regarding additional Instructions Regarding Computations for Micro-Surfacing

Effective immediately, Section 4-414.05 of the Roadway Design Guidelines is revised to add instructions regarding emulsion application rate.

4-414.05 COMPUTATIONS FOR MICRO-SURFACING

Item No. 414-03.01 Emulsified Asphalt for Micro-Surfacing

0.12 x Below aggregate quantity

= Tons

NOTE: Application rate based on 12 percent of the dry weight of the aggregate.

Item No. 414-03.02 Aggregate for Micro-Surfacing

Surface area (Sq. Yd.) x XX Lb./ Sq. Yd. 2,000 Lb./ Ton

= Tons

NOTE: Application rate of 32 pounds (approximate depth 0.375") per square yard shall be used if plans require a leveling mixture (14 pounds per square yard) and a surface mixture (18 pounds per square yard) to be placed, or 22 pounds (approximate depth 0.275") per square yard if only a surface mixture is to be placed, unless otherwise specified.

<u>Item No. 403-01</u> Bituminous Material for Tack Coat (TC) to be used with Micro-Surfacing

Surface area (Sq. Yd.) x *rate (Gal./ Sq. Yd.) = ----- Tons 231 Gal./ Sq. Yd.

* Rate 0.10 - 0.15 (Gal./Sq. Yd.) of the diluted emulsion

NOTE: The tack coat shall consist of 1 part emulsion and 3 parts water. The quantity for the emulsion payment, Item No. 403-01, should be 1/4 of the estimated application rate.

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September 16, 2011 CS:ARH