

Design Standards Letter

Letter Number: G-2000-11

Letter Date: 07/19/2000

Effective Date: 07/19/2000

Section/Plan No.: None

Subject: New Criteria for Bituminous and Superpave Mixtures

Body

The following criteria, effective immediately, should be used in selecting bituminous and Superpave mixtures for all Transportation Improvement Program projects:

Bituminous Mixtures Criteria for Transportation Improvement Program Projects		
<u>Corridor Designation</u>	<u>Traffic</u>	<u>Recommended Mixture</u>
Light Duty	Total Annual Average 24 Hour Commercial Truck Traffic \leq to 400	Bituminous Mixtures (Secs 301 and 401)
Light Duty	Total Annual Average 24 Hour Commercial Truck Traffic $>$ 400	Superpave Mixtures
Medium Duty and Heavy Duty	All Traffic	Superpave Mixtures

The following guidelines should be used by the designer in selecting layer thickness for bituminous mixtures as allowed above for light duty pavements:

1. Plant Mix Bituminous Pavement BP-1 mixtures may be placed in lifts of 1 ¾" to 2".
2. Plant Mix Bituminous Base (PMBB) may be placed in lifts of 3" to 4". Technically, the current Sec 301 of the Standard Specifications allows only a 3" PMBB lift beneath the surface lift. This section will be revised accordingly to allow the top PMBB lift to be placed 3" or 4" thick and will be included in the Supplemental Revision, Design Job Special Provision, which is inserted in all job proposals by General Headquarters Design.
3. The designer may use any reasonable combination of the above lifts, but the

normal lift thicknesses should be:

- (a) 1 ¾" BP-1
- (b) 3 ¾" = 1 ¾" BP-1 over 2" BP-1
- (c) 5 ¾" = 1 ¾" BP-1 over 4" PMBB

(Note, for edge drop off treatment, two - 2" lifts of BP-1 may be used in lieu of the 4" PMBB. However, it is recommended for normal applications, use the 4" PMBB. PMBB will not be allowed in 2" lifts.)

- (d) 7 ¾" = 1 ¾" BP-1 over 6" PMBB.

Direct any questions you may have to Pat McDaniel (573) 526-2903.

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