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Make the following amendments to said Section:

unmodified) shall conform to AASHTO M 320.

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## "702.01 Asphalt Cement.

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**PG 64-16**. Performance graded (PG) asphalt binder (neat or

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**PG 64E-22**. Performance graded binder (polymer modified) shall conform to AASHTO M 332 and meet the following additional requirement:

Amend **Subsection 702.01** by replacing lines 4 to 5 to read:

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AASHTO T 315 Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR). Phase angle on original binder shall be less than 77 degrees.

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(C) **Submittals.** Submit, before usage, a Certificate of Compliance, accompanied by substantiating test data, showing conformance with Performance Graded Asphalt Binder Specification. The Engineer will not accept the PG binder without adequate documentation."

Amend **Subsection 702.04** to add under line 32: (II)

Polymer modified asphalt shall conform to AASHTO M 316, except cationic type CQS-1P or CQS-1hP used for micro surfacing shall meet the requirements in Table 702.04-1.

TABLE 702.04-1 – Polymer Modified Emulsion for Micro Surfacing Requirements					
Property		Test Procedure (AASHTO)	Specification Min Max		
Emulsion Properties Viscosity, Saybolt-Furol, @ 122°F, SFS Sieve Test, % Residue by Evaporation, %		T59 T59 T59	15 62_	150 0.1	
Residue Properties From Low Temperature Evaporation			AASHTO R-78b		
MSCR @ 70° C, Recovery @ 3.2 kPa, %	T350		80		
MSCR @ 70°C, J <sub>nr</sub> @3.2, 1/kPa	T350			0.50	

## Notes:

- (a) Maintain the test temperature at 350°F (177°C) for 20 minutes.
- (b) After recovering the residue from AASHTO R-78, the sample may be annealed prior to testing to remove any excess moisture and provide for a consistent sample. The annealing can be accomplished by placing 20 grams of residue in a 6 oz. metal container (approx. 3-inch diameter) and heating to 163°C for no more than 15 minutes. The sample should be stirred with a spatula every 5 minutes. The sample can then be poured directly into a 25mm DSR silicone mold for evaluation.

30	(III) Amend Subsection 702.06 (Unassigned) b	y replacing line 23 to read:
	• • • • • • • • • • • • • • • • • • • •	Additives for WMA shall be
34	approved by the Engineer.	
35	END OF SECTION 702	2