

USE IN ALL TENDERS SPECIFYING ASPHALT CONCRETE PAVEMENT - SUPERPAVE

(i) **AMENDMENT TO SPECIFICATION 3.53, ASPHALT CONCRETE PAVEMENT - SUPERPAVE, RE: RECLAIMED ASPHALT PAVEMENT (RAP)**

- i) The last 2 paragraphs of Subsection 3.53.2.1, **Asphalt**, are deleted.
- ii) The following is added after the existing paragraph of Subsection 3.53.2.4, **Reclaimed Asphalt Pavement**:

Rheological testing of the RAP is not required for mixtures using a maximum RAP to virgin aggregate ratio of 10/90.

For RAP/virgin aggregate blends greater than 10/90, the Contractor shall adjust the virgin asphalt grade and/or undertake rheology testing of the RAP and virgin asphalt cements according to the requirements listed in Table 3.53.2.4 Asphalt Grade Adjustment and Rheology Testing for RAP Usage.

Table 3.53.2.4 Asphalt Grade Adjustment and Rheology Testing for RAP Usage

| SPECIFIED GRADE | PERCENTAGE OF RAP ADDITIVE | | |
|---------------------|--|------------------------------|------------------|
| | #10% | > 10% AND # 20% | >20% AND # 30% |
| 64-34 | <i>No grade adjustment or rheology testing required.</i> | PG 64-37P or Note 1 | Note 1 |
| 64-37P | | Note 1 | Note 1 |
| 64-28 | | PG 64-34 or Note 1 or Note 2 | Note 1 or Note 2 |
| 58-28 | | PG 52-34 or Note 1 or Note 2 | Note 1 or Note 2 |
| 58-34 | | PG 52-37 or Note 1 | Note 1 |
| 58-37 | | Note 1 | Note 1 |
| 52-34 | | PG 46-34 or Note 1 or Note 2 | Note 1 or Note 2 |
| 46-34 | | Note 1 or Note 2 | Note 1 or Note 2 |
| All other PG grades | | Note 1 | Note 1 |

Note 1 - Virgin grade shall be selected according to the rheology blending procedures outlined in Appendix X1 of AASHTO M323.

Note 2 - Virgin grade may be selected with penetration testing of the recovered RAP and virgin asphalt binders with rheology blending according to TLT-300 Recycling of Asphalt Concrete Pavement. Allowable penetration values for the blended binders are contained in Table 3.53.2.4A.

Table 3.53.2.4A Allowable Penetration Values for RAP Virgin Asphalt Blends

| SPECIFIED GRADE | ALLOWABLE PENETRATION OF BLENDED BINDERS (dmm) | |
|------------------------|---|----------------|
| | MINIMUM | MAXIMUM |
| <i>PG 64-28</i> | <i>70</i> | <i>110</i> |
| <i>PG 58-28</i> | <i>120</i> | <i>160</i> |
| <i>PG 52-34</i> | <i>200</i> | <i>300</i> |
| <i>PG 46-34</i> | <i>300</i> | <i>400</i> |