



Materials Specifications & Special Provision Changes 2015 Regional Asphalt Seminars

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Specifications



Overview

- **Need for changes to specifications discussed with VDOT and industry personnel until spring 2014**
- **DRAFT specification changes developed & sent to VDOT and industry stakeholders on July 9, 2014**
- **Final revisions sent to CN division in early September 2014.**

Input received

- 19 comments from industry, 27 from VDOT/VCTIR
- 46 total comments:
 - 20 comments accepted
 - 26 comments did not require action or not accepted
- 9 of 15 comments from VAA accepted & incorporated into the changes made to VDOT specifications

Noteworthy changes Section 210+

- **Move to Multi-Stress Creep Recovery (MSCR) for binders (*edits to Sections 211, 248, 315, and 317*)**
- **MSCR better predicts binder contribution to mix performance, particularly rutting.**

Noteworthy changes

Section 210+

MATERIALS DIVISION



MEMORANDUM

GENERAL SUBJECT: Asphalt Binders		NUMBER: MD 384-15
SPECIFIC SUBJECT: Implementation of MSCR Binder Testing & Classification		DATE: January 23, 2015
DIRECTED TO: CENTRAL OFFICE MATERIALS DISTRICT MATERIALS ENGINEERS	SIGNATURE: Charles A. Babish, PE <i>Signature on original copy of memorandum</i>	

Noteworthy changes

Section 210+

The naming convention for binder grades is being changed. Classifications of binders and their new/current equivalents are below. For binder designation in specifications and contracts, the same A, D and E nomenclature will be maintained.

Old Binder Grade	Old Binder Designation	New Binder Grade	New Binder Designation
<i>PG 64-22</i>	<i>A</i>	<i>PG 64S-22</i>	<i>A</i>
<i>PG 70-22</i>	<i>D</i>	<i>PG 64H-22</i>	<i>D</i>
<i>PG 76-22</i>	<i>E</i>	<i>PG 64E-22</i>	<i>E</i>

Additional binders that are used in Virginia and their new naming convention are below:

Old Binder Grade	New Binder Grade
<i>PG 58-28</i>	<i>PG 58S-28</i>
<i>PG 70-28</i>	<i>PG 64V-28</i>

More information about MSCR and its testing can be found in AASHTO M 332.

Noteworthy changes

Section 211

- Adds requirements for lab testing and reporting for permeability of **production** samples.
 - *First lot,*
 - *and every-other-lot thereafter*
 - *No spec requirement – simply reported to District Materials Engineers.*
- At Engineer's discretion, allows use of conventional surface mix in lieu of "Curb Mix" (C)
- Incorporates language from prior Special Provision for allowance of use of Recycled Asphalt Shingles (tabs or tear-offs).

Noteworthy changes

Section 315

- **New language requires use of MTV on interstate routes.**
- **New language requires longitudinal joints on overlaid layers to be offset 6”, and the surface joint to be 6-12” from the centerline.**
- **New language adds a minimum temperature of 200°F when using warm mix.**

Noteworthy changes

Section 317

- New language adds a minimum temperature of 200°F when using warm mix.
- *Resolve conflict in current Volume 2 – payment for trial sections will be limited to 2.*

Noteworthy changes

Public Notice Requirement

- **Added to all contracts, beginning in 2015, at the request of the Commissioner's office.**
- **General requirements for notification to the public to be made by the contractor.**

Noteworthy changes

PG64E-22 Price Adjustment (old PG 76-22)

- **Mirrors current procedure(s) for price adjustment of PG64S-22.**

Special Provisions



THMACO

- **Select-use special provision by districts going forward, at their discretion & decision-making**
- **Does not replace current THMACO special provision**
- **Instead offers options for the Engineer:**
 1. **Use current Special Provision, requiring spray-bar pavers**
 2. **Use new Special Provision, giving options for use of spray-bar or conventional paving equipment**

Rideability

- **General intent is for their use on ALL qualifying interstate and primary routes (subject to district decisions)**
- **Potential for default requirement on interstate & primary routes in 2016**
- **Target for each district to specify 2 “incentive only” sections in 2015.**

DRAFT – Scratch/Leveling Course Special Provision (under dev.)

- **General intent is for use in a similar fashion as the current surface prep/patching Special Provision that is currently in use.**
- **This is not in current contracts - the final version, one finalized, will be for select use by districts going forward at their discretion & decision-making**
- **Possible to use this as a work-order tool for those districts that think it beneficial to use it.**

Questions?