

Design Standards Letter

Letter Number: S-2007-06

Letter Date: 12/28/2007

Effective Date: 02/01/2008

Section/Plan No.: SEE BELOW

Subject: Revised Supplement to the Standard Specifications

Body

The Supplemental Specifications to the *2004 Missouri Standard Specifications for Highway Construction*, effective February 1, 2008 are now available. These revisions will be in effect with the February 2008 bid opening.

Questions regarding the Supplemental Revisions to the Standard Specifications should be directed to Brian K. Williams, Central Office, Engineering Policy Group, at 573-751-9254 or myself at 573-751-3813.

MAJOR REVISION:

General Special Provision

Div 500 - Optional Roller Compacted Concrete Shoulders – Incorporated roller compacted concrete as an optional material for A2 and A3 shoulders in lieu of asphalt or concrete.

Div 600 - "Drive Smart" Signs – Amended provision to clarify installation locations.

Sec 401

Sec 401.2.2 – Revised section to reference requirements for Recycled Asphalt Pavement (RAP) to be in accordance with Sec 403.

Sec 401.3 – Revised table to incorporate BP-3 aggregate requirements.

Sec 401.4.1 – Amended to included T 312 test method to the list of methods in the AASHTO proficiency sample program.

Sec 401.4.4.1 – Revised to specify properties for Base, BP-1, and BP-2. Incorporated the option to use a gyratory compactor when testing these mixes and waived the stability requirements when a gyratory compactor is used.

Sec401.4.4.2 – Added new section to address properties and gyration requirements for BP-3.

Sec 401.4.4.3 – Added new section to address properties of BP-3NC (NC – non-carbonate) mix.

Sec 401.4.5 – Revised to indicate when moisture susceptibility testing is required.

Sec 401.5 – Deleted subsection (a) and re-lettered remaining subsections. Added sieve size to be used to evaluate maximum variations from job mix for BP-3 in revised subsection (a).

Sec 401.5.2 – Deleted design level F pavements that may be used in lieu of 401 mixes.

Sec 401.8.2 – Deleted methodology related to cold feed bin adjustments when failing tests are experienced.

Sec 401.8.3 – Clarified the duration for contractor retained samples.

Sec 402

Sec 402.2.3 – Revised section to reference requirements for RAP to be in accordance with Sec 403.

Sec 402.5 – Modified section reference for deleterious content requirements to Sec 401.21 in subsection (c).

Sec 402.10.9 – Clarified when hauling over completed surfaces is allowed.

Sec 403

Sec 403.1.1 - Amended section to include SMR as a form of SMA.

Sec403.2.1 – Corrected ASSHTO test method reference by removing the M.

Sec403.2.3 – Corrected ASSHTO test method reference by removing the M.

Sec 403.2.4 – Modified to exempt all SMA mixes from section requirements.

Sec403.2.5 – Corrected ASSHTO test methods referenced by removing the M.

Sec 403.2.6 – Incorporated new section to address binder requirements for recycled asphalt.

Sec 403.2.6.1 – Previously *Sec 403.2.6*. Revised to address allowable RAP that may be used.

Sec 403.2.6.2 – Incorporated the use of recycled asphalt shingles in asphalt mixtures.

Sec 403.3.1 – Added gradation range for SP095 and optional notation (R) for SM mixes.

Sec 403.3.3 – Revised to address requirements for SMR mixtures.

Sec 403.3.5 - Corrected ASSHTO test method reference by removing the M and added footnote to table regarding SP095 mixes.

Sec 403.4 – Revised AASHTO method used for designing asphalt mixtures. Corrected the ASSHTO test method 312 reference by removing the M.

Sec 403.4.5 – Revised footnote, regarding SMA mixtures, at the bottom of the table.

Sec 403.4.6.2 – Included VMA requirements for SP095.

Sec 403.5.1 – Incorporated an optional location for obtaining samples for testing.

Sec 403.5.9 – Replaced MoDOT test method with AASHTO T 329.

Sec 403.10.2 – Clarified compensation when contractor substitutes a smaller nominal maximum size mixture.

Sec 403.11 – Removed references to changing aggregate fraction percentages as field adjustments.

Sec 403.11.1 – Modified AASHTO method for designing mixes.

Sec 403.17.2.3 - Clarified the duration for contractor retained samples.

Sec 403.17.3.1 – Included a calibration requirement for gyratory compactors.

Sec 403.19.3 – Modified quality assurance (QA) testing frequencies for various tests indicated in the table.

Sec 403.19.3.2.1 – Provided option for contractor to use testing frequencies indicated in *Sec 403.19.3* for small quantities or the reduced testing requirements included in the section.

Sec 403.23.5 – Modified tensile strength table percentage ranges and price adjustment percentages.

Sec 403.23.7.4.1 – Revised to allow the contractor the option to utilize normal evaluation requirements for small quantities.

Sec – 409

Sec 409.1 – Revised section description.

Sec 409.3.1 – Deleted subsection (g).

Sec 409.3.2 – Deleted section and renumbered subsequent section.

Sec 409.4 – Revised section to make more performance based.

Sec 409.5.1 - Deleted section and renumbered subsequent sections.

Sec 409.5.2 – Revised to be performance based.

Sec 409.5.3.1 – Revised to produce a performance specification and clarify cleanup of material placed on unauthorized areas.

Sec 409.5.4.1 (existing section) – Deleted section.

Sec 409.5.3.2 – Amended to address pre-coating when specified.

Sec 409.5.5 through 409.5.5.2 (existing sections) – Deleted sections.

Sec 409.6 – Deleted text. Created header section.

Sec 409.6.1 and 409.6.2 – Amended section to incorporate requirements for contractor to provide contact information signage to address damage claims by the public.

Sec 409.9 – Amended to address contact signs and pre-coating aggregate.

Sec – 413

Sec 413.30.2 – Deleted reference to aggregate being in accordance with Sec 1001.14.

Sec 413.30.2.1 – Modified minimum value for % crushed, single face in the table.

Modified footnote (a) and added footnote (b).

Sec 413.30.2.2 – Added footnote (a) to table.

Sec 413.30.3 – Revised section number from *Sec 413.30.2.5* and provided new section name.

Sec 413.30.3.1 – Added new section to allow waiving mixture verification process for laboratories that participate in the Proficiency Sample Program and achieve a specific score.

Sec 403.30.3.2 – Incorporated new section outlining necessary information for submittal of a mix design.

Sec 413.30.4 – Created new section header

Sec 413.30.4.1 – Incorporated new section to outline asphalt binder requirements per mix type.

Sec 413.30.4.2 – Incorporated table from previous *Sec 413.30.2.5*. Removed asphalt binder reference and revised various sieve criteria.

Sec 413.30.1.3 – Previously *Sec 413.30.2.5.1*, revised film thickness requirement.

Sec 413.30.4.4 – Previously *Sec 413.30.2.5.2*, provided new section title.

Sec 413.30.2.5.3 – Deleted section.

Sec 413.30.4.5 – Previously *Sec 413.30.2.5.4*, provided new section title.

Sec 413.30.4.6 – Previously *Sec 413.30.2.5.5*. Revised to address tensile strength ratio of mixes when compacted to specified criteria.

Sec 413.30.4.7 – Previously *Sec 413.30.2.5.6*, provided new section title.

Sec 413.30.5 through Sec 413.30.5.4.1 – Previously *Sec 413.30.3 through Sec 413.30.3.4*, provided new section titles.

Sec 413.5.5 – Added new section to address limits of target application rates of asphalt emulsion.

Sec 413.30.5.5 through 413.30.5.6 – Previously *Sec 413.30.4.1 and 413.30.3.5*.

Sec 413.30.5.7 and Sec 413.30.5.8 – Added sections to address mixing plant requirements and hauling equipment.

Sec 413.30.6 and Sec 413.30.6.1 – Renumbered existing sections, previously *Sec*

413.30.4 and 413.30.4.1.

Sec 413.30.4.1.1 – Deleted existing section.

Sec 413.30.6.1.1 – Previously Sec 413.30.4.1.2, Revised to incorporate testing and sampling criteria.

Sec 413.30.6.1.2 – Previously Sec 413.30.4.1.3, Revised to incorporate testing and sampling criteria.

Sec 413.31.6.1.3 – Added new section to address deleterious content testing.

Sec 413.30.6.2 – Revised section number from 413.30.4.2.

Sec 413.30.6.3 – Added section to provide guidance for deleterious content tolerances.

Sec 413.30.6.4 through 413.30.7 – Renumbered sections, previously Sec 413.30.4.2.1 through 413.30.7

Sec 413.30.7.1 – Added testing frequency for deleterious content.

Sec 413.7.2 and 413.7.2.1 – Renumbered sections, previously Sec 413.30.5.2 and 413.30.5.3

Sec 413.30.7.2.2 – Added new section to clarify favorable asphalt content comparisons.

Sec 413.30.8 and 413.30.9 – Previously numbered Sec 413.30.6 and 413.30.7.

Sec 902

Sec 902.14.3 – Deleted concrete pad around pull boxes.

Sec 902.15.1 – Replaced reference to Type B bases with Type F bases.

Sec 902.19.2 – Modified termination locations for neutral cable and grounding conductor.

Sec 902.19.3 – Amended requirements for luminaire connections.

Sec 1002

Sec 1002.2.1.1 – Revised to indicate specified requirements apply to combined aggregates.

Sec 1002.2.1.2 – Deleted section.

Sec 1004

Sec 1004.2.1.1 - Revised to indicate specified requirements apply to combined aggregates.

Sec 1061.1

Sec 1061.1 – Replaced RETMA testing requirement with EIA.

Sec 1061.2 – Revised testing standard for copper wire.

Sec 1061.4 – Incorporated option to use cross-linked polyethylene insulated cable and revised insulation types. Revised insulation thickness table.

Sec 1061.6 – Revised insulation types and incorporated cross-reference to Sec 1061.4 for insulation thicknesses.

JGJ / BKW