**Design Standards Letter**

**Letter Number: S-2018-03**

**Letter Date: 05/17/2018**

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**Section: 106, 109, 403, 501, 606, 608, 613, 617, 620, 701, 703, 1011, 1057, 1081, 1091, 1092**

**Subject: Revised Supplement to the 2017 Standard Specifications and the New Publication of the 2018 Standard Specification**

**TO:** All Central and District Offices

**FROM:** Sarah Kleinschmit

**DATE:** May 14, 2018

**SUBJECT:** Standard Specifications Letter No. 3, 2018

Revisions Supplement to the 2017 Standard Specifications and the New Publication of the 2018 Standard Specification

The Supplemental Revisions to the *2017 Missouri Standard Specifications for Highway Construction* are now included in the new publication of the *2018 Missouri Standard Specification for Highway Construction* along with the following additional revision listed below. The 2018 *Missouri Standard Specification for Highway Construction* effective July 1, 2018 is now available on MoDOT’s website.

Questions regarding the Supplemental Revisions to the Missouri Standard Specification should be directed to Tim Oligschlaeger, Central Office, Engineering Policy Services, at 573-751-3813 or myself at 573-751-7412.

**MINOR REVISIONS:**

**SECTION 106 CONTROL OF MATERIAL**

*Sec 106.12.8.2* Labeled section PAL Identification. Removed the orange requirement, and requirement for approved alternate in the second sentence. Deleted the entire third sentence stating “Request for alternate PAL labeling shall be submitted to Construction and Materials for approval”.

**SECTION 109 MEASUREMENT AND PAYMENT**

*Sec 109.15* Changed existing Sec 109.15 to 109.16. Added new 109.15 Price Adjustment for Asphalt Cement.

*Sec 109.15.1 thru Sec 109.15.4.2* Added new sections detailing price index for Asphalt Cement, Seal Coat, Asphalt Underseal, and Polymer Modified Emulsion Membrane.

**SECTION 403 ASPHALTIC CONCRETE PAVEMENT**

*Sec 403.2.5.2* Replaced “when required to prevent draindown during production” with “in SMA Mixtures in the first sentence.

**SECTION 501 CONCRETE**

*Sec 501.13.1* Added new subsection on Incorporating Calcium Chloride.

*Sec 501.13.2* Added new subsection on Amount of Calcium Chloride.

**SECTION 606 GUARDRAIL, CRASHWORTHY END TERMINALS, ONE-STRAND ACCESS RESTRAINT CABLE AND THREE-STRAND GUARD CABLE**

*Sec 606.30.4 Method of Measurement* . Changed measurement from “ in accordance with Sec 207” to “in accordance with Shaping Slopes, Class III or as directed on plans” when roadway and drainage excavation is not included.

*Sec 606.30.5 Basis of Payment* . Changed basis of payment from “ linear grading” to “Shaping Slopes, Class III” when roadway and drainage excavation is not included.

**SECTION 608 CONCRETE MEDIAN, MEDIAN STRIP, SIDEWALK, CURB RAMPS, STEPS AND PAVED APPROACHES**

*Sec 608.3.7* Deleted “a minimum of a percent” in the last sentenced and replaced it with “in accordance with Sec 501.10.2”.

**SECTION 613 PAVEMENT REPAIR**

*Sec 613.10.2.4.2* Deleted “a minimum air content of 4 percent” and replaced with “an air content in accordance with Sec 501.10.2”.

*Sec 613.20.2.1* Deleted “a minimum air content of 4 percent” and replaced with “an air content in accordance with Sec 501.10.2”.

**SECTION 620 PAVEMENT MARKING**

*Sec 620.20.1.4.1* Added sentence, ”Payment for the removal of pre-existing markings will be paid separately except when the pre-existing markings were placed by the contractor as temporary pavement markings.”.

*Sec 620.20.2.6.2* Added new subsection. For open-graded pavement surfaces such as UBAWS Type B and C, it is allowable to apply a primer coat of temporary paint prior to applying the High Build Waterborne Paint. When a primer coat is used, it shall be applied in accordance with Sec 620.10.2 and shall be fully cured prior to application of the surface coat in accordance with the manufacturer’s recommendation or for a minimum of 12 hours, whichever is greater. No additional payment will be made for the primer coat except for locations where Temporary Pavement Marking Paint is provided in the contract.

*Sec 620.60 thru 620.60.4* Added new section and subsections on Contrast Pavement Markings.

**SECTION 701 DRILLED SHAFTS**

*Sec 701.6.4* Changed “Television Camera Inspection” to Video Camera Inspection”. Deleted section and replaced with “Video camera inspection, as required, will be measured for payment per each.

*Sec 701.7.5* Changed “unit bid price” to “contract unit price” in the first sentence. Deleted “, or when supplementary inspections are required by the engineer and no defects are found,” and “bid” in the second sentence. Deleted the third sentence, “Payment will not be made for supplementary video camera inspections that reveal defects due to the contractor’s operation”.

**SECTION 703 CONCRETE MASONRY CONSTRUCTION**

*Sec 703.3.6.1.1 Application Rate.* Changed application rate from “no less than 150 square feet per gallon” to “no less than one gallon per 150 square feet”.

**SECTION 1081 COATING OF STRUCTURAL STEEL**

*Sec 1081.4.3.3.1 Hazardous Waste Notification.* Added sentence three stating “The cost of obtaining the EPA identification number will be considered as part of the surface preparation cost and the engineer will subtract the cost from the contract”.

**SECTION 1091 LIGHTING EQUIPMENT**

*Sec 1091.7.1 Pre-Approval* Removed LED Luminaire New Product Submittal Form from the first sentence.

*Sec 1091.7.2.3* Removed “LED Luminaire New Product Submittal Form” from the sixth sentence.

*Sec 1091.7.2.4* Removed “ indicated on LED Luminaire New Product Submittal Form” and replaced with “for” in the second sentence.

**SECTION 1092 SIGNAL EQUIPMENT**

*Sec 1092.1.4* Replaced “reflectorized” with “retroreflective” throughout the entire section.

**MAJOR REVISIONS:**

**SECTION 617 CONCRETE TRAFFIC BARRIER**

*Sec 617.20.1 Description* Added MASH as other criteria barrier systems can meet beside NCHRP 350.

*Sec 617.20.2.1* Deleted “New temporary traffic barrier will not be required; however” and replaced with “All Type F temporary” at the beginning of the subsection.

*Sec 617.20.4.3* Replaced entire section with the following. Equipment or material shall not be stored near temporary barriers within the limits shown on the plans or as approved by the engineer.

*Sec 617.20.4.4* Deleted the first sentence “Temporary concrete traffic barrier shall not be anchored unless shown on plans or approved by the engineer”, and deleted the third sentence “Two-loop style Type F temporary concrete traffic barrier shall not be anchored”.

**SECTION 1011 GEOTEXTILE**

*Sec 1011.3.5.* Deleted entire section and table and replaced with new section and table.

*Sec 1011.3.5.1 thru 1011.3.5.4* New subsections added on Erosion Control Blankets.

*Sec 1011.3.6.1 thru 1011.3.6.4* New subsections added on Turf Reinforcement Mats.

**SECTION 1057 MATERIAL FOR JOINTS**

*Sec 1057.3.1 Alternative. Changed existing section to 1057.3.2 Graphite Grease and a*dded new section. Dowel bars manufactured with steel in accordance with ASTM A 1035 may be used in lieu of AASHTO M 31. Alloy Types CM and CS shall be used. The dowel bars manufactured with this type steel will not be required to be epoxy coated. Grades 100 and 120 may be used.

*Sec 1057.3.2.* Changed existing section to 1057.3.3 Pre-Dipped Bondbreaker.

*Sec 1057.4.1 Alternative.* Added section. Tie bars manufactured with steel in accordance with ASTM A 1035 may be used in lieu of AASHTO M 31. Alloy Types CM and CS shall be used. The tie bars manufactured with this type of steel will not be required to be epoxy coated. Grades 100 and 120 may be used for straight bars. For tie bars that are to be bent and straightened, ASTM A 1035 steel shall not be used.

*Sec 1057.7.2.1.* Changed section to 1057.7.2.1 Physical Properties.

*Sec 1057.7.2.2.* Changed section to 1057.7.2.2 Visual Inspection.

**SECTION 1064 TEMPORARY TRAFFIC BARRIER**

*Sec 1064.3.1 Approval.* Added MASH as another form of tests results manufacturers can submit.

SKK/TMO