**Design Standards Letter**

**Letter Number: S-2018-04**

**Letter Date: 08/6/2018**

**Effective Date: 10/01/2018**

**Section: 107, 503, 505, 618, 704, 806, 1081**

**Subject: Revised Supplement to the 2018 Standard Specifications**

**TO:** All Central and District Offices

**FROM:** Sarah Kleinschmit

**DATE:** August 6, 2018

**SUBJECT:** Standard Specifications Letter No. 4, 2018

The Supplemental Revisions to the *2018 Missouri Standard Specifications for Highway Construction*, effective October 1, 2018 are 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 503 BRIDGE APPROACH SLAB**

*Sec 503.2* Added “Aggregate for Base” to table.

*Sec 503.3.1* Removed language requiring all underseal access holes shall be opened and replaced it with may be required to be drilled.

*Sec 503.5 Basis of Payment* Inserted the following sentence as the second sentence in the paragraph. Any inspection access holes required for inspection and no voids or cavities are detected will be paid at the fixed unit price for concrete coring in Section 109.15 Fixed Cost Items.

**SECTION 505 BRIDGE DECK CONCRETE WEARING SURFACE**

*Sec 505.20.9.4* Changed the time for allowing vehicles on latex modified concrete from 96 hours to 72 hours.

**SECTION 618 MOBILIZATION**

*Sec 618.2 Basis of Payment* Deleted entire paragraph and replaced with “ Payment for mobilization will be made incrementally as stated herein”. Moved items (a) thru (e) to Section 618.2.2 Partial Payments.

*Sec 618.2.1 Reimbursement for Contract Bond and Railroad Liability Insurance* Added as new subsection.

*Sec 618.2.2*  Delete Section and replaced with new Section 618.2.2 Partial Payments. Add items (a) – (e) from Section 618.2. Revised item (e) by removing language “amount bid for mobilization exceeding ten percent of the original contract price, less the amount for the contract bond and Railroad Liability Insurance, will be paid” and replaced it with “remaining amount will be paid”.

**MAJOR REVISIONS:**

**SECTION 107 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

*Sec 107.10.3* Deleted language “resulting in sediment shall be treated by filtration, settling basins or other means sufficient to reduce the sediment concentration to applicable limits established by MDNR” and replaced with “producing sediment laden runoff shall be treated in accordance with Sec 806”.

**SECTION 505 BRIDGE DECK CONCRETE WEARING SURFACE**

*Sec 505.40.2.1* Reworded section to clarify Type HE cement can be used with approval of mixture by Engineer.

*Sec 505.40.2.2* Added as new section and renumbered subsequent sections accordingly.

*Sec 505.40.3.1* Changed Specific Value for Slump, inches to 9 (max) and Net Water-Cement Ratio, max. Lbs.a of water/lbs. of cement to 0.42 in the table.

**SECTION 704 CONCRETE MANSONRY REPAIR**

*Sec 704.3.3 Full Depth Repair* Added the following language to the end of the section, “and for voided slabs, the removal and replacement of the deteriorated void tube in the required areas”.

*Sec 704.3.7 Substructure Repair (Formed)* Added the following sentence to the end of the section, “The extent of a single formed repair area for measurement shall be the contiguous concrete surfaces that meet at a formed edge”.

**SECTION 806 POLLUTION, EROSION AND SEDIMENT CONTROL**

*Sec 806.4.12. thru 806.4.12.3* New subsections added on Portland cement concrete residue and wash water and other operations that produce sediment laden runoff and how to manage it with the appropriate control measure.

**SECTION 1081 COATING OF STRUCTURAL STEEL**

*Sec 1081.4.3.1* Added requirement of safety data sheet (SDS) and all paint removed with approved blast media shall be sent to the Doe Run lead smelter for recycling.

*Sec 1081.4.3.3* Added requirement of containment system.

*Sec 1081.4.3.3.1* Added new section for Waste Solvent Management and renumbered subsequent sections accordingly.

*Sec 1081.4.3.3.2.2* Changed number to 1081.4.3.3.3.2 and removed “such as unapproved blast media” from the first sentence.

*Sec 1081.4.3.3.3 Shipment of Residue* Changed number to 1081.4.3.3.4. Removed description of heavy metal/lead and requirement of Missouri licensed hazardous waste transporter with a hazardous waste manifest and land ban forms. Changed shipping to a lead smelter to shipping to the Doe Run smelter.

*Sec 1081.4.3.3.4 Personal Protective Equipment* Changed number to 1081.4.3.3.5 and removed “lead and lead” from the first sentence.

*Sec 1081.4.3.3.5 Invoices and Payment* Changed number to 1081.4.3.3.6. In the first sentence changed “lead and non-lead based residue” to “paint residue/blast media”. Changed approved lead smelter to Doe Run smelter. Added language to the beginning of the second sentence “Spent solvents shall be disposed of at an EPA approved”.

*Sec 1081.5.3.1.2 Water for Power Washing* Deleted sentences 2 – 5 which removed the collection and disposal requirement for wastewater from Power Washing and added “During power washing operation, solids shall be contained or removed, but collection of wash water is not required for this activity”.

*Sec 1081.5.3.1.3 Collection of Residue* In the first sentence changed “lead or non-lead based” to “all paint”. In the second sentence, removed “or wastewater”. Deleted the following sentences. (Wastewater collected during cleaning operations shall be tested in accordance with 40 CFR 261.24. Wastewater that test results indicate is a hazardous waste as determined by 40 CFR 261.24 shall be handled as hazardous waste in accordance with the 10 CSR 25. The contractor shall keep an inventory of the quantity of heavy metal contaminated wastewater generated and delivered to the storage site and the quantity of heavy metal contaminated wastewater that has been disposed. Wastewater that has been tested and determined to be non-hazardous shall be handled in accordance with Sec 1081.5.3.1.2. Any remaining hazardous or non-hazardous residues shall be disposed of in accordance with Sec 1081.4.3.3.) In the last sentence updated Sec 1081.4.3.3.2.2 to Sec 1081.4.3.3.3.2.

*Sec 1081.5.3.1.4 Testing of Water Samples* Renamed section to “Testing of Paint Residue”. In the first sentence, deleted “wastewater” and replaced with “paint residue”. In the second sentence, delete “total metals, oil and grease, biochemical oxygen demand, total suspended solids, ph and”. Add the following sentences to the end of the section. If TCLP heavy metals test results exceed the regulatory limits, the contractor shall handle and dispose of the material in accordance with hazardous waste regulations at an EPA-approved RCRA treatment, storage, or disposal (TSD) facility. If test results indicate levels below the regulatory limits, then the material shall be disposed of as a solid waste at a sanitary landfill.

*Sec 1081.5.3.2.2 Power Wash Cleaning* Add the following sentence as the third sentence in the section. Construction of a containment system around the work area is required and shall consist of wooden framed construction, installation of a drip tarps consisting of #100 sieve filter fabric, or other alternative method that effectively filters the water and captures solids, as approved by the Engineer.

SKK/TMO