**Design Standards Letter**

**Letter Number: S-2022-02**

**Letter Date: 01/24/2022**

**Effective Date: 04/01/2022**

**Section: 101, 108, 109, 206, 304, 403, 413, 502, 608, 617, 620, 712, 720, 1010, 1048, 1080, 1081**

**Subject: Revised Supplement to the 2021 Standard Specifications**

**TO:** All Central and District Offices

**FROM:** Sarah Kleinschmit

**DATE:** January 24, 2022

**SUBJECT:** Standard Specifications Letter No. 2, 2022

The Supplemental Revisions to the *2021 Missouri Standard Specifications for Highway Construction*, effective April 1, 2022 are now available on MoDOT’s website.

Questions regarding the Supplemental Revisions to the Missouri Standard Specification should be directed to Jen Haller, Central Office, Engineering Policy Services, at 573-526-2918 or myself at 573-751-7412.

**MINOR REVISIONS:**

**SECTION 101 DEFINITION OF TERMS**

*Sec 101.2.* In the Holidays section, add “June 19- Juneteenth”.

**SECTION 108 PROSECUTION AND PROGRESS**

*Sec 108.8.1.3.* Add “Missouri” in front of law in section (b).

**SECTION 109 measurement and payment**

*Sec 109.14.* Add the following sentences to the end of the section “Price Adjustment for fuel does not apply to fixed-cost items listed in Job Order Contracts”.

**SECTION 206 EXCAVATION FOR STRUCTURES**

*Sec 206.4.14* Add the following as new section. “Culvert Cleanout. When cleanout of a culvert is specified, all silt, trash, rocks, broken concrete and any other debris shall be removed for the entire limits such that flow in the culvert is restored to full capacity. If a manual inspection cannot easily be made due to bends in the culvert, or excessive length, the contractor shall provide the engineer with a video inspection recording in accordance with Sec 724.3.4”.

*Sec 206.6.10.* In the first sentence remove, “to be used in place”. Add the following sentence to the end of the section “No additional payment will be made for the video inspection, when required”.

**SECTION 304 AGGREGATE BASE COURSE**

*Sec 304.3.4.2* In the fourth sentence remove, “replacing any material retained on the 3/4 inch sieve, as provided therein”.

**SECTION 403 ASPHALTIC CONCRETE PAVEMENT**

*Sec 403.23.7.4.1* In section (a) change “will not be required” to “shall not apply”.

**SECTION 413 SURFACE TREATMENTS**

*Sec 413.10.5.1* In the table, the frequency for contractor QC change Grade A from “1 per 500 tons” to “1 per Day” and Grade B or C from “1 per Day” to “1 per Activity”.

**SECTION 502 PORTLAND CEMENT CONCRETE BASE AND PAVEMENT**

*Sec 502.4.8.5 Station Numbers.* Delete Section.

*Sec 502.4.8.6 Hand Finishing.* Renumber to *502.4.8.5*

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

*Sec 608.3.7.1.* In the first sentence remove, “and air content”. Add the following sentence as the new second sentence “The contractor shall measure air content from the first truckload and thereafter at a frequency of one test per 100 cubic yards”.

**SECTION 617 CONCRETE TRAFFIC BARRIER**

*Sec 617.10.3.3* Delete Section.

*Sec 617.10.3.4* Renumber to *617.10.3.3*

**SECTION 620 PAVEMENT MARKING**

*Sec 620.60.1* In the first sentence add “white” in front of intermittent, dotted and solid. Change “that have a continuous length greater than 1000 feet” to “as further described in Sec 620.60.3.1”.

*Sec 620.60.3.1* Add a new first sentence “Contrast Pavement Marking is required on all concrete surfaces that have a continuous length of 1,000 feet or greater. This requirement applies to all new and existing concrete pavement and bridge decks, including any cementitious overlays”.

*Sec 620.60.3.2* In the first sentence, change “1.5 inch to 1.5-inch”.

**SECTION 712 STRUCTURAL STEEL CONSTRUCTION**

*Sec 712.6.1 Certification.* Rename to “Welder Certification” Remove 712.6.2 title and change the first sentence from “Testing. Field welders shall be certified” to “Certification shall be”

*Sec 712.6.3 Welding Procedures.* Renumber to *712.6.2*

*Sec 712.6.4 Shear Connector.* Renumber to *712.6.3* Also, in the first sentence change “with applicable codes of Sec. 1080.3.3.4 AWP D1.5 Clause 7.7 code” to “2002 AWS Bridge Welding Code D1.5 Clause 7.7 by”

*Sec 712.6.4* Add the following as new section: “*Non-Destructive Testing (NDT) for Field Welds.* Complete joint penetration (CJP) field groove welds shall be NDT by ultrasonic testing (UT) or radiographic testing (RT) with UT acceptance criteria based on 2002 AWS Table 6.3, Tension Stress and RT acceptance criteria based on 2002 AWS Table 6.8, Tension Welds. Fillet field welds and partial joint penetration (PJP) field groove welds shall be NDT by the magnetic particle testing (MT) as required by 2002 AWS D1.5, Bridge Welding Code, Clause 6.7.2. Costs of NDT and any repairs required will be considered completely covered by the pay item for the steel work being performed”.

**SECTION 720 MECHANICALLY STABILIZED EARTH WALL SYSTEMS**

*Sec 720.4.7.4* Delete Section.

*Sec 720.6.* Remove last sentence, “No direct payment will be made when the contractor does not use pipe pile spacers”.

**SECTION 1010 SELECT GRANULAR BACKFILL FOR STRUCTURAL SYSTEMS**

*Sec 1010.2* In the first sentence, change to “or crushed stone” and remove “reclaimed concrete, or other approved material meeting the requirements of this Section”.

**SECTION 1048 PAVEMENT MARKING MATERIAL**

*Sec 1048.30.3.2* In the last sentence, change “75” to “65”.

**SECTION 1080 STRUCTURAL STEEL FABRICATION**

*Sec 1080.4.4 Partial Coating* Change the entire section contents to “Weathering steel partial coating shall be in accordance with Sec 1081.10.3.4.3”.

*Sec 1080.4.4.1 Surface Preparation* Delete Section.

*Sec 1080.4.4.2 Drain Bracket Coating* Delete Section.

**SECTION 1081 COATING OF STRUCTURAL STEEL**

*Sec 1081.10.3.4.3* Add the following as a new section pertaining to Weathering Steel Bridges.

SKK/JNH