

Design Standards Letter

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Section: 203, 401, 403, 505, 609.20, 613, 702, 720, 1005, 1006, 1063

Subject: Revised Supplement to the 2024 Standard Specifications

TO: All Central and District Offices

FROM: Gidget Koestner

DATE: November 22, 2024

SUBJECT: Standard Specifications Letter No. 1, 2025

The Supplemental Revisions to the *2024 Missouri Standard Specifications for Highway Construction*, effective January 1, 2025 are now available on MoDOT's [website](#).

Questions regarding the Supplemental Revisions to the Missouri Standard Specifications should be directed to Duke Leggett in Central Office Design – Engineering Policy Services, at 417-895-7611 or myself at 573-751-6905.

MAJOR REVISIONS:

SECTION 609.20 – INTEGRAL CURB

Sec 609.20.3.1 Inserted the sentence “If the curb is to be constructed later, an epoxy coated longitudinal bar shall be tied to the tie bars.”

Sec 609.20.3.2 Added the last sentence “Form placement and slip form use shall ensure one-inch minimum concrete cover for longitudinal bar and tie bars, when used.”

Sec 609.20.3.4 Added “longitudinal bar” to specification.

SECTION 1005 – AGGREGATE FOR CONCRETE

Sec 1005.2.1.1 Changed word “will” to “shall.”

Sec 1005.2.1.2 Truncated the second sentence after “requirements below.” Changed the waiver durability factor in the paragraph text from 75 to 90. Added last sentence “Concrete pavement aggregate approval will be based on maximum aggregate size produced that meets durability requirements.” Altered the table’s layout, changed the durability factors, and added Micro-Deval and reactivity testing requirements.

Sec 1005.2.1.3 Inserted new section for test waiver requirements and renumbered two subsequent sections.

Sec 1005.2.1.5 Replaced “ASTM C 586, AASHTO T 161” with “ASTM C25, ASTM C1105, ASTM C1260.”

Sec 1005.2.4 Truncated the second sentence after “requirements below.” Changed the waiver durability factor in the paragraph text from 75 to 90, and the durability factor in the table from 75 to 80.

MINOR REVISIONS:

SECTION 203 – ROADWAY AND DRAINAGE EXCAVATION, EMBANKMENT AND COMPACTION

Sec 203.4.8 Human, Criminal, Historical, Archaeological or Geological Remains. Expanded the buffer from 50 feet to 330 feet.

SECTION 401 – PLANT MIX BITUMINOUS BASE AND PAVEMENT

Sec 401.2.2 Reclaimed Asphalt. Decreased the maximum Percent Effective Virgin Binder Replacement in the table’s second row: for RAP from 40 to 30; for RAS from 20 to 15; and for RAP and RAS combination from 40 to 30.

SECTION 403 – ASPHALTIC CONCRETE PAVEMENT

Sec 403.17.3.1 Calibration Schedule. Increased the interval (month) to 12 for thermometers, ovens, and timers. Changed the interval for gyratory compactor from daily to 1^c and added footnote “^cIncludes ram pressure, LVDT, frequency of gyration, and external angle.”

SECTION 505 – BRIDGE DECK CONCRETE WEARING SURFACE

Sec 505.70.10 Limitations of Operations. Added last sentence "Rebound number shall be correlated to cylinder compressive strength through development of a calibration curve specific to the project, and as directed by the manufacturer."

SECTION 613 – PAVEMENT REPAIR

Sec 613.10.4 Basis of Payment. Inserted “for removal of pavement or” in second sentence.

SECTION 702 – LOAD-BEARING PILES

Sec 702.2 Material. In the second row of table, amended the Specification to “ASTM A 252, Modified Grade 3*” and added footnote: “*Physical and chemical requirements shall meet

ASTM A 572 Grade 50.” In the fourth row for Structural Steel (HP) Pile, changed Grade 50S to Grade 50.

SECTION 720 – MECHANICALLY STABILIZED EARTH WALL SYSTEMS

Sec 720.4.3 Drainage Requirements. Added last sentence “Backfill cover between the top of the drain pipe and the bottom of the leveling pad shall be equal to the greater of 15 inches or 1.5 times the diameter of the drain pipe.”

SECTION 1006 – AGGREGATE FOR SURFACING

Sec 1006.3 Revised table footnote “a” to waive the maximum plasticity index requirements.

Sec 1006.4.1 Increased 500 tons to 1,000 tons.

SECTION 1063 – TEMPORARY TRAFFIC CONTROL DEVICES

Sec 1063.4.2.1 Sign Substrate. Updated requirements to current standards and shortened exposure time from one year to six months.

GJK/DML