

## Revisions Update – Effective July 1, 2025

### **Standard Plans**

#### **606.00AY Guardrail**

(sheet 4 of 7) Changed delineation reference to Std Plan 903.00.

#### **606.22V Bridge Anchor Section – Safety Barrier Curb on Bridge**

(sheet 4 of 6) Combined former sheets 4 and 5 into single sheet using connector plate table.

(sheet 5 of 6) New sheet for 1970s and 80s barrier connector plate.

(sheet 6 of 6) Removed thickness column from table since stated in general notes.

#### **606.41N Repair Only: Low-Tension Guard Cable**

(sheet 1 of 7) Changed delineation reference to Std Plan 903.00.

#### **606.50F Midwest Guardrail System (MGS)**

(sheet 3 of 9) Changed delineation reference to Std Plan 903.00.

#### **606.60C Midwest Guardrail System (MGS) – Vertical Barrier Transitions**

(sheet 1 of 6) Deleted note (1) since detailed in drawing and renumbered subsequent notes.

(sheet 4 of 6) Combined former sheets 4 and 5 into single sheet using connector plate table.

(sheet 5 of 6) New sheet for 1970s and 80s barrier connector plate.

(sheet 6 of 6) Removed thickness column from table since stated in general notes.

#### **616.10BF Temporary Traffic Control**

Devices (sheet 1 of 9) Removed flags from sign.

(sheet 3 of 9) Removed Advance Warning Rail System.

#### **616.20E Temporary Traffic Control Plans – Two Lane Roadways**

(sheet 3 of 5) Changed sign #11 (WO3-4 Be Prepared to Stop) to sign #7 (WO20-4 One Lane Road Ahead).

#### **617.10N Permanent Concrete Traffic Barrier**

(sheets 1, 3, 4, and 6 through 11 of 11) Changed delineation reference to Std Plan 903.00.

(sheet 2 of 11) Reorganized section diagrams.

(sheet 5 of 11) Added Transition Details for Median Lighting.

#### **620.00P Pavement Marking**

(sheet 5 of 6) Added lane reduction arrow and redrew bicycle word markings together.

(sheet 6 of 6) Changed yield line triangles' size and layout. Changed midblock crosswalk to longitudinal bar crosswalk with different layout and sizes.

#### **903.00 Delineators**

(sheets 1 through 5 of 5) New standard plan made from former 903.03BS sheets 11 through 15.

#### **903.03BT Post Installation and Sign Mounting Details**

(sheet 1 of 12) Combined the stub and footing details together and added "see Sec 903 for other concrete options" to concrete material callout.

(sheet 3 of 12) Overhauled the entire sheet to clarify sign mounting requirements.

(sheet 4 of 12) Simplified the note for height of suspended signs.

(sheet 5 of 12) Added "see Sec 903 for other concrete options" to concrete material callout in the footing detail.

(sheet 6 of 12) Relocated the round structures mounting detail to the next sheet.

(sheet 7 of 12) New sheet for mounting signs to round structures containing relocated detail from previous sheet and added special mounting for wide flat sheet signs on freeways.

(sheet 12 of 12) Added "polyurethane foam is not an allowable option" to note (3).

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**903.05L Highway Signing – Tubular Support Steel – Type S, One Tube**

*(sheet 1 of 2)* Corrected typo of 1" (inch) to 1' (foot) for post height increments.

**D-2BS** Deleted item 6161008 Advance Warning Rail System.

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**Standard Specifications** Brief description of the changes in a slightly larger bold font.

### MINOR REVISIONS:

#### **SECTION 102 Bidding Requirements and Conditions - added clarification regarding alternate bids.**

*Sec 102.7.1* Added “In case of alternate items, unit prices shall be entered for only one alternate in an alternate set. If unit prices are entered for more than one alternate in an alternate set then the bidder is irregular, unless otherwise specified in the bidding documents.”

**SECTIONS 401, 402, 403, 501, 502 all revised regarding aggregate sampling. Most note samples to be taken in accordance with AASHTO R 90, as they were previously lacking a specified method for aggregate sampling, and method AASHTO R 60 for air entrainment.**

#### **SECTION 401 Plant Mix Bituminous Base and Pavement**

*Sec 401.5.1 Sample Location.* Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

#### **SECTION 402 Plant Mix Bituminous Surface Leveling**

*Sec 402.6 Sample Location.* Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

#### **SECTION 403 Asphaltic Concrete Pavement**

*Sec 403.5.1 Gradation and Deleterious Content Control.* Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

*Sec 403.5.7 Aggregate Properties.* Add the following to the end of the section “Samples are to be taken from the combined cold feed whether from a drum-mix plant or a batch plant. Samples are to be taken in accordance with AASHTO R 90.”

#### **SECTION 501 Concrete**

*Sec 501.2.1 Aggregate Acceptance.* Add new last sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

*Sec 501.6.3 Calibration Frequency.* Add new second sentence “The commercial scale service shall be independent of the contractor, MoDOT consultants and all project subcontractors or suppliers including the concrete producers.”

*Sec 501.8.11 Delivery Tickets.* Add new items (k) through (s) and add last sentence “Other forms of reporting records may be permitted as approved by the engineer.”

#### **SECTION 502 Portland Cement Concrete Base and Pavement**

*Sec 502.11.2.1.1 Aggregate Gradation.* Add new third sentence “Samples shall be taken in accordance with AASHTO R 90.”

*Sec 502.11.2.1.2 Deleterious Materials.* Add new third sentence “Samples shall be taken in accordance with AASHTO R 90.”

*Sec 502.11.2.1.3 Absorption.* Add new second sentence “Samples shall be taken in accordance with AASHTO R 90.”

*Sec 502.11.2.1.4 Thin or Elongated Pieces.* Add new second sentence “Samples shall be taken in accordance with AASHTO R 90.”

*Sec 502.11.2.2 Slump.* In the last sentence add “taken” in front of “in accordance with”.

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Sec 502.11.2.3 *Entrained Air Content*. Add new eighth sentence “Material samples shall be taken in accordance with AASHTO R 60.”

### **SECTION 616 Temporary Traffic Control – Clarifies the colors of lights allowed by state law rather than referencing the law.**

Sec 616.5.1.1(a) *Red or Red and Blue Warning Lights*. Add new sentence to end of section “Red or red and blue lights may only be displayed between dusk and dawn and when the vehicles and/or equipment are stationary.”

### **SECTION 620, 1048 – Revised to bring contract pavement marking paint in line with current MoDOT policy for minor routes. Standard Waterborne paint is being eliminated and striping will be High Build. The pay items will now be Class 1 paint for minors and Class 2 Paint for majors. The thickness was bumped up for the Class 1 paint for minors (from 15 mils to 18 mils).**

Sec 620.10.2.1 *Description*. Delete the second sentence. In the third sentence, delete “for standard and high build waterborne”.

Sec 620.10.2.2 *Material*. In the first row of table, change “Standard” to “High Build”.

Sec 620.10.2.3.2 In the first sentence, change “15 mils” to “18 mils”.

Sec 620.10.6.2 *Applications*. In the first sentence, change “standard waterborne” to “Class 1 pavement marking”. In the second sentence, change “high build waterborne” to “Class 2 pavement marking”.

Sec 620.10.6.4 *Material*. In the first row of table, change “1048.30.2” to “1048.30”.

Sec 620.10.6.5 *Construction Requirements*. In the first sentence, change “15 mils” to “18 mils”.

Sec 620.20.2.2 *Material*. Delete the second row of table.

Sec 620.20.2.5 Replace title with “Class 1 Pavement Marking Paint”. In the first sentence, change “Standard waterborne” to “Class 1 pavement marking” and change “15 mils” to “18 mils”.

Sec 620.20.2.5.1 In the first sentence, change “standard waterborne” to “Class 1 pavement marking”.

Sec 620.20.2.6 Replace title with “Class 2 Pavement Marking Paint”. In the first sentence, change “High build waterborne” to “Class 2 pavement marking”.

Sec 620.20.2.6.1 In the first sentence, change “high build waterborne” to “Class 2 pavement marking”.

Sec 620.20.2.6.2 In the first sentence, change “High Build Waterborne Paint” to “Class 2 pavement marking paint”.

Sec 620.40.2.2.4 Replace title of first table with “Class 1 Paint (Type P Beads)”. Replace title of second table with “Class 2 Paint (Type L Beads)”. Replace title of fourth table with “Class 1/Class 2 Paint on Seal Coat Surfaces”.

### **SECTION 701 Drilled Shafts – Revised splice lengths per 10 Edition of LRFD AASHTO Bridge Design Specifications seismic details.**

Sec 701.4.12.1 *Reinforcing Ties, Splices and Clearances*. In the fourth sentence, change “30” to “24”.

### **SECTION 703 Concrete Masonry Construction – Increases the required application rate for curing compound.**

Sec 703.3.6.3.2.2 *Application Rate*. In the first sentence, change “150” to “200”.

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### **SECTION 706 Reinforcing Steel for Concrete Structures - Revised splice and development lengths specified in accordance with 10th Edition of LRFD AASHTO Bridge Design Specifications.**

Sec 706.3.3.4 In the table, add “& Galv.” after “Plain” in the column headings. Revise minimum lap lengths and minimum cover and spacing values in the table. Add “and Galvanized” after “Plain” in note below the table.

Sec 706.3.3.4.1 Revise the formula to the following:

$$B = \frac{d_b}{0.3c_b}, \text{ if } B > 3.33, \text{ then } B = 3.33$$

### **SECTION 1015 Bituminous Material – Revised to eliminate Re-refined Engine Oil Bottoms (REOB), Vacuum Tower Asphalt Extenders (VTAE), and require the presence of modifiers in the bill of lading or certifications.**

Sec 1015.3.1 *Certification*. In the third sentence add “chemical additives, such as polyphosphoric acid (PPA), used in modification,” between “grade of material,” and “specific gravity”.

Sec 1015.3.7 *Railroad Shipments*. In the second sentence add “chemical additives, such as PPA, used in modification,” between “grade of material,” and “quantity represented”.

### **SECTION 1015.10 Performance Graded Asphalt Binder**

Sec 1015.10.1 *General*. Add the following to the end of the first sentence “except Re-refined Engine Oil Bottoms (REOB) and Vacuum Tower Asphalt Extenders (VTAE) shall not be used as modifiers”.

### **SECTIONS 1042, 1063 – Modifications to be more in line with new MUTCD 11<sup>th</sup> Edition, these changes discontinue use of Advance Warning Rail System and Flags on temporary traffic control.**

#### **SECTION 1042 Highway Sign Material**

Sec 1042.2.7.4 *Barricades*. Rename section “Advanced Warning Rails” to “Barricades”. In the first sentence replace “Advanced Warning Rails” with “Barricades”.

#### **SECTION 1063 Temporary Traffic Control Devices**

Sec 1063.4.5 *Flag Assembly*. Delete section.

Sec 1063.4.6 *Advance Warning Rails*. Delete section.

**General Provisions Changes - Updated ECR to BDC due to name change** in DBE Program Requirements and Training Requirements