

## Proposed Specification Revisions December 2014

The CAS Bureau is proposing revisions to 8 Standard Specifications. These proposed revisions will be out for comment during the month of December, 2014.

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|---------------------------------------|---------------------------------|
| 1. 101.03 Definitions (Calendar Day)  | Cleanup                         |
| 2. 108.07.1 Completion Date Contracts | Cleanup                         |
| 3. 212. Obliterate Roadway            | Re-vegetate as per Section 610  |
| 4. 401.03.17 Tack Coat                | Tack all Surfaces               |
| 5. 401.03.24 Rumble Strips            | Cleanup                         |
| 6. 409.03.10 Sweeping and Brooming    | Cleanup                         |
| 7. 608 Concrete Sidewalks             | DWD                             |
| 8. 714 Pavement Markings              | Blue, red or Black paint, Beads |

## 101.03 DEFINITIONS

### CALENDAR DAY

Every day shown on the calendar, beginning and ending at midnight.

For calendar day contracts, all days are assessed except no work days and days on which the Contractor is specifically required by the contract to suspend construction operations. Calendar days will be charged during no work days for each day construction activities occur that have any impact on the traveling public, exclusive of traffic flowing unimpeded on approved detours or emergency and maintenance repairs to the project, when the time requirements under Subsection 104.05.2 are met.

### NO WORK DAYS

No work days are holidays, Sundays, or during the winter shutdown. Work on holidays or Sundays must be approved by the Engineer. Travelway maintenance in accordance with Subsection 104.05.2, stormwater BMP maintenance, and providing protection for the public are exempt and this work may be accomplished on no work days without assessment of contract time.

## SECTION 212 OBLITERATE ROADWAY

### 212.01 DESCRIPTION

Obliterate roadway includes removal of the existing roadway and related items, rehabilitating the abandoned roadway area by scarifying and shaping, and ~~re-vegetation.~~

**Deleted:** seeding

### 212.02 RESERVED

### 212.03 CONSTRUCTION REQUIREMENTS

Grade and contour abandoned roadways to blend with the new roadway or existing terrain.

If not specified in the contract, dispose of the existing bituminous materials in conformance with applicable laws, rules, regulations and the Montana Solid Waste Management Act.

After the old roadway surfacing is removed, salvage the topsoil from areas to be graded and perform the rough grading. Grade and contour the obliterated roadway to blend with the new roadway and adjacent terrain. ~~Re-vegetate the disturbed areas in accordance with Section 610.~~

**Deleted:** Spread the salvaged topsoil and seed the obliterated roadway area.

Work construction scars, sharp breaks, and steep slopes or cuts to blend with the terrain.

Existing aggregate surfacing material may be used to construct fills when covered with 12 inches (305 mm) of soil capable of supporting plant growth. Existing bituminous materials used for embankment of the new roadway must conform to the requirements of Subsection 202.03.3.

Remove and dispose of bituminous materials, old structures, guardrail, and other non-salvageable items not included in other contract items for removal at Contractor expense. Remove and neatly store all material designated as salvageable to prevent damage.

The species of seed, seed bed preparation, fertilizing, mulching, and application rate is specified in the contract.

### 212.04 METHOD OF MEASUREMENT

Obliterate roadway is measured in stations to the nearest whole station along the centerline of the roadway obliterated.

~~Re-vegetation is measured and paid for in accordance with Section 610.~~

**Deleted:** Topsoil is measured in accordance with Subsection 203.04.¶  
Seeding is measured in accordance with Subsection 208.04.

### 212.05 BASIS OF PAYMENT

Payment for the completed and accepted quantities is made under the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Obliterate Roadway	Station

~~Material obtained from the obliterated roadway and used in the construction of the new roadway is measured and paid for as unclassified excavation in accordance with Section 203.~~

Payment at the contract unit price is full compensation for all resources necessary to complete the item of work in accordance with the contract.

**Deleted:** Seeding . Acre (ha)¶  
Topsoil . Cubic Yard (m<sup>3</sup>)¶

#### 401.03.17 Tack Coat

Apply tack coat in accordance with Section 407 and the contract.

Apply tack coat on ~~all surfaces to receive plant mix surfacing.~~

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#### 401.03.24 Rumble Strips

Construct rumble strips when specified ~~in the contract.~~ Cut the rumble strips into the finished plant mix surfacing. Use a machine equipped with a rotary type cutting head capable of making the cuts to the dimensions and pattern shown in the Detailed Drawings.

Produce the rumble strips without tearing and snagging the pavement. Remove resulting debris from the roadway before opening to traffic. Do not allow debris to enter any waterways.

Establish a control line and locate the rumble strips ~~in accordance with the Detail Drawings.~~

~~Offsets~~ may be adjusted ~~by the Project Manager~~ to avoid longitudinal pavement joints. Do not place rumble strips where concrete barrier rail or other roadside features prevent placement as specified.

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~~Cut rumble strips for all roadway sections paved through the final lift prior to winter shutdown, unless otherwise directed by the Project Manager.~~ If seal and cover is not scheduled to be completed within 10 business days after cutting rumble strips, fog seal the finished rumble strips.

Deleted: Do not cut rumble strips if the seal and cover operation will not be completed before winter shutdown.

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#### 409.03.10 Sweeping and Brooming

**B. Final Sweeping and Brooming.** Perform final sweeping and brooming operations to remove excess loose material no sooner than 5 calendar days before final pavement markings, ~~unless otherwise directed by the Project Manager.~~ Provide traffic control in accordance with Section 618.

## SECTION 608 CONCRETE SIDEWALKS

### 608.01 DESCRIPTION

This work is the construction of concrete sidewalks and the installation of Detectable Warning Devices (DWDs) at locations shown in the contract.

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### 608.02 MATERIALS

Furnish materials in accordance with the following section and subsection requirements:

Hydraulic Cement Concrete.....	551
Joint Materials .....	707.01
Reinforcing Steel .....	711.01

Use cast iron DWDs having a natural grey finish. Use DWDs – Type 1 for new sidewalk construction. DWDs – Type 1 are cast directly into sidewalk. Use DWDs – Type 2 for retrofits on existing sidewalks. Ensure gray iron castings are manufactured from iron conforming to ASTM A48 Class 30B, as noted in AASHTO M 306. Ensure ductile iron castings are manufactured from iron conforming to ASTM A536 Grade 80-55-06

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Deleted: Meet all of the Department's requirements on the QPL for DWDs – Type 1 and for DWDs – Type 2.

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Furnish DWDs listed on the QPL.

### 608.03.3 Detectable Warning Devices

**A. General.** Install DWDs so they extend the full width of the ramp, and the edge of the dome panel is located no more than 6 inches (150 mm) from the back of curb. Ensure that DWD edges are flush with adjacent sidewalk without gap or lip, with domes protruding above adjacent surfaces. If DWDs require cutting, locate non-factory edges on the exterior side of DWD installation.

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**B. Type 2.** Saw cut from existing sidewalk the minimum area required to allow installation. Remove the old sidewalk full depth within the cut area. Place new concrete meeting Section 608 requirements, and install DWD in accordance with manufacturer recommendation.

### 608.04 METHOD OF MEASUREMENT

Concrete sidewalk is measured by the square yard (m<sup>2</sup>), including wheelchair ramps and concrete under detectable warning devices.

DWDs are measured by the square yard (m<sup>2</sup>) installed and accepted. For Type 2 DWDs, removal of existing devices, concrete sawing and removal and all new concrete is not measured separately for payment.

#### A. Contracts with Sidewalk Work Not in Conjunction with Roadway Reconstruction.

Reinforcing steel, expansion joint material, bond breaker, excavation or embankment, crushed gravel base, and disposal of material associated with the work are not measured for payment.

#### B. All Other Contracts.

Reinforcing steel, expansion joint material, bond breaker, disposal of material, and crushed gravel base are not measured for payment. Excavation or embankment associated with the work is measured by the cubic yard (m<sup>3</sup>).

#### 714.04 WATERBORNE TRAFFIC PAINT

Furnish waterborne traffic paint in accordance with Table 714-2. Where the NTPEP method is specified, recorded NTPEP results must be within the specifications shown. Blue, red or black paint may be used without being NTPEP tested if the base paint is the same chemical composition as a NTPEP tested paint.

#### 714.05 HIGH DURABILITY WATERBORNE TRAFFIC PAINT

Furnish high durability waterborne traffic paint in accordance with Table 714-3. Where the NTPEP method is specified, recorded NTPEP results must be within the specifications shown. Blue, red or black paint may be used without being NTPEP tested if the base paint is the same chemical composition as a NTPEP tested paint.

#### 714.06 EPOXY OR OTHER POLYMERIC TRAFFIC PAINT

Furnish epoxy or other polymeric traffic paint in accordance with Table 714-4. Where the NTPEP method is specified, recorded NTPEP results must be within the specifications shown. Blue, red or black paint may be used without being NTPEP tested if the base paint is the same chemical composition as a NTPEP tested paint.

#### 714.08 REFLECTIVE GLASS BEADS

Furnish glass beads for reflectorizing traffic pavement markings in accordance with AASHTO M 247. Gradation and roundness will be determined in accordance with AASHTO PP 74. In the event of a dispute, ASTM D1274 will be used for gradation determination and ASTM D1155 will be used for roundness determination.

**Deleted: General.** Provide

**Deleted:** that are spherical, transparent, have a smooth, lustrous surface, and

**Deleted:** except as modified below and the pavement marking manufacturer's recommendations. Ensure the delivered beads are free from extraneous material and bead clumps easily break up while handling and distributing onto the stripe

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**Imperfections.** Ensure the glass beads do not contain more than 25% irregularly shaped particles when tested in accordance with ASTM D1155.¶  
**Color.** Ensure the glass beads do not impart a noticeable daytime hue to white pavement markings.¶  
**Chemical Stability.** Ensure the beads can withstand refluxing in distilled water in a Soxhlet extractor for 90 hours without noticeable dulling of the surface luster and not more than 2.5% loss in weight.¶  
**Gradation.**

**Deleted:** Meet Table 714-6 gradations, tested in accordance with ASTM D1214.¶  
**TABLE 714-6¶**  
**REFLECTIVE GLASS BEAD GRADATION¶**  
Percentage By Weight Passing Square Mesh Sieve ...