

## Table of Contents

### 100 General Requirements and Covenants

#### 101 General Information, Definitions, and Terms

#### 102 Bidding Requirements and Conditions

#### 103 Contract Award and Execution

#### 104 Scope of Work

104.3 Streamline claim process and add format for contractor 5-day written statements. ASP 6 Dec 2019 let.

104.6.1.2.1 Specify flagging as required in Wisconsin Flagging Handbook. ASP 6 Dec 2019 let.

104.6.1.2.2 Specify pilot vehicles as required in the Flagging Handbook. ASP 6 Dec 2019 let.

104.8 Specify pay for material from outside excavation limits but in ROW. ASP 6 Dec 2019 let.

104.10.1 Include WisDOT generated ideas needing contractor effort as potential CRIs. ASP 6 Dec 2019 let.

104.10.1 Allow changes to temporary pavement type or subgrade improvement CRIs. ASP 6 Dec 2019 let.

104.10.2 Prohibit adopting contractor CRI concepts and not share the savings. ASP 6 Dec 2019 let.

104.10.4.2 Eliminate WisDOT price adjustment for the fair value of deleted CRI work. ASP 6 Dec 2019 let.

#### 105 Control of the Work

105.11.2 Delete 105.11.2.2 and provide the engineer's written project complete notice under 105.11.2.1.4.

105.13 Streamline the claims process. ASP 6 Dec 2019 let.

#### 106 Control of Materials

106.3.4.2.2.2 Update F/T testing procedures as modified in CMM 860.2. ASP 6 Dec 2019 let.

#### 107 Legal Relations and Responsibility to the Public

#### 108 Prosecution and Progress

108.10.3 Clarify time extensions on projects covered by Trans 220. ASP 6 June 2020 let.

108.11 Update liquidated damages based on analysis of fiscal 2019 data.

#### 109 Measurement and Payment

109.7 Issue the semi-final estimate when the project is complete under 105.11.2.1.4.

## 200 Earthwork

#### 201 Clearing and Grubbing

#### 202 Roadside Clearing

#### 203 Removing Old Culverts and Bridges

#### 204 Removing or Abandoning Miscellaneous Structures

204.5.1 Rename the Removing Pavement bid item to Removing Concrete Pavement to better reflect its use.

#### 205 Roadway and Drainage Excavation

#### 206 Excavation for Structures

206.3.5 Require the contractor to submit cofferdam and crib plans to the department.

#### 207 Embankment

#### 208 Borrow

208.5 Specify pay for borrow from outside excavation limits but in ROW. ASP 6 Dec 2019 let.

#### 209 Granular Backfill

#### 210 Structure Backfill

#### 211 Preparing the Foundation

#### 213 Finishing Roadway

#### 214 Obliterating Old Road

## 300 Bases, Subbases, and Subgrade Aggregates

#### 301 Base, Subbase, and Subgrade Aggregate

301.2.3 Update F/T testing procedures as modified in CMM 860.2. ASP 6 Dec 2019 let.

301.2.4.5 Update F/T testing procedures as modified in CMM 860.2. ASP 6 Dec 2019 let.

- [305 Dense-Graded Base](#)
- [310 Open-Graded Base](#)
- [311 Breaker Run](#)
- [312 Select Crushed Material](#)
- [313 Pit Run](#)
- [315 Asphaltic Base](#)
- [320 Concrete Base](#)
- [325 Pulverized and Re-laid Pavement](#)
- [330 Milled and Re-laid Pavement](#)
- [335 Rubblized Pavement](#)
- [340 Cracked and Seated Pavement](#)
- [350 Subbase](#)
- [390 Base Patching](#)

## **400 Pavements**

- [405 Coloring and Stamping Concrete](#)
- [415 Concrete Pavement](#)
- [416 Concrete Pavement - Appurtenant Construction](#)
- [420 Diamond Grinding](#)
- [450 General Requirements for Asphaltic Pavements](#)

450.2.2 Update F/T testing procedures as modified in CMM 860.2. ASP 6 Dec 2019 let.
---

450.3.2.6.3 Establish compaction roller pattern determined by growth curve. ASP 6 Dec 2019 let.
---

450.3.2.8 Define layer thickness for wedge joints and allow vibratory plate compactors. ASP 6 Dec 2019 let.
---

### **455 Asphaltic Materials**

455.2.5 Require tack coats with "h" suffix indicating a stiffer emulsion. ASP 6 Dec 2019 let.
---

### **460 Hot Mix Asphalt Pavement**

460.2.2.3 Add No.6 and revise SMA No. 5 gradations. ASP 6 Dec 2019 let.
---

460.2.6 Clarify requirements for changing the percent of recovered asphaltic binder in FRAP, RAP and RAS.
---

460.2.7 Modify F/T tests in CMM 860.2; and add No. 6 mix & SMA min effective AC. ASP 6 Dec 2019 let.
--

460.2.8.2.1.3.1 Specify the exact rather than minimum tonnage for testing. ASP 6 Dec 2019 let.
--

460.2.8.2.1.3.1 Specify WisDOT modifications to AASHTO T166 and AASHTO T209 test procedures.
--

460.2.8.2.1.4.1 Require continuous control charts for mixes from multiple plants used on multiple contracts.
--

460.2.8.2.1.4.2 Add more sieve sizes. ASP 6 Dec 2019 let.
---

460.2.8.2.1.5 Add sieve sizes and specify VMA limits for No.6 mixes. ASP 6 Dec 2019 let.
--

460.3.2 Add leveling and wedging layers and thickness for No. 6 mixes. ASP 6 Dec 2019 let.
--

460.3.3.1 Specify compaction rather than density for No. 6 mixes. ASP 6 Dec 2019 let.
---

460.3.3.2 Eliminate specifying tests per lot by tonnage. ASP 6 Dec 2019 let.
--

460.5.2.1 Specify min or max VMA criteria. ASP 6 Dec 2019 let.
--

### **465 Asphaltic Surface**

### **475 Seal Coat**

## **500 Structures**

### **501 Concrete**

501.2.4.3 Reference CMM 870 for testing water used to make concrete.
--

501.2.5.5 Update freeze-thaw testing procedures as modified in CMM 860.2. ASP 6 Dec 2019 let.
---

501.2.9 Eliminate the WisDOT modifications for testing liquid curing compounds.
---

501.3.5.4 Eliminate equipment calibration but retain ready-mix plant notification & inspection.
---

### **502 Concrete Bridges**

502.4.2 Measure haunch concrete for new prestressed concrete girder bridges based on plan dimensions.
---

502.4.3 Measure seal concrete used up to a maximum of the volume the contract plan shows.
---

### **503 Prestressed Concrete Members**

### **504 Culverts, Retaining Walls, and Endwalls**

### **505 Steel Reinforcement**

505.2 Specify AASHTO M31, type S or type W steel. ASP 6 Dec 2019 let.

505.2.6.1 Move "coat in a CRSI certified plant" to 505.2.6.2.2; applies only to solid bars. ASP 6 Dec 2019 let.

505.2.6.2.2 Move "coat in a CRSI certified plant"; applies only to solid bars. ASP 6 Dec 2019 let.

505.4 Specify, for new prestressed concrete girder bridges, extra bars for out-of-range camber are incidental.

### **506 Steel Bridges**

506.2.3.1 Update references to current ASTM and AASHTO steel specifications

506.2.5.4 Update bolt lengths and guidance to agreement with RCSC requirements.

506.3.4.2 Allow either cold or heat cambering methods.

506.3.5 Allow holes made with CNC equipment.

506.3.12.3 Remove DTI installation method and update table 506-1 tension values to match ASTM F3125.

506.3.19.1 Include exceptions for field welding on primary members.

506.3.19.2 Include AWS D 1.1 welders and procedure submittal through the fabrication library.

506.3.21 Require submittal of material certified reports of test and analysis to the fabrication library.

### **507 Timber Structures**

### **509 Concrete Overlay and Structure Repair**

### **511 Temporary Shoring**

### **512 Steel Sheet Piling**

### **513 Railing**

### **514 Floor Drains, Deck Drains, and Downspouts**

### **515 Steel Grid Floors**

### **516 Waterproofing**

### **517 Paint and Painting**

### **519 Brick Masonry and Concrete Brick or Block Masonry**

### **520 Pipe Culverts**

520.2.1 Require culvert pipe from a department-approved fabricator.

520.3.1 Eliminate the use of mortar pipe joint seals.

520.3.3 Include materials requirements for pipe joint fillers and seals.

520.3.7 Increase deflection testing for polyethylene and polypropylene pipe culverts. ASP 6 June 2020 let.

### **521 Corrugated Steel Culverts**

521.2 Prohibit spiral rib pipe and require culvert pipe from a department-approved fabricator.

### **522 Reinforced Concrete Culverts**

### **524 Salvaged Culverts**

### **525 Corrugated Aluminum Culverts**

525.2 Prohibit spiral rib pipe and require culvert pipe from a department-approved fabricator.

### **526 Temporary Structures**

### **527 Structural Plate Pipe and Pipe Arches**

### **530 Corrugated Plastic Pipe Culverts**

530.2 Require culvert pipe from a department-approved fabricator.

### **531 Ancillary Structure Foundations**

531 Combine foundation specifications for ancillary structures into one section.

- 531.2.2 Require rolled threads for anchor rods and allow alternate grade for heavy hex nuts.

- 531.3.2 Specify requirements for drilled shafts and the use of casing.

- 531.3.3 Require replacing defective concrete foundations for ancillary structures.

- 531.5 Add concrete, drilling, rebar, foundation, and anchor assemblies bid items for ancillary structures foundations.

### **532 Ancillary Superstructures**

532 Combine structure specifications for ancillary structures into one section.

- 532.3.2 Require AASHTO LRFD for contractor designed overhead sign structures.

- 532.3.2.2 Require fabrication library submittal for high mast light tower drawings and design computations.

- 532.3.6.1 Add requirement for contractor anchor rod training certification.
- 532.5 Add high mast, structure mounted signs, and overhead sign support bid items.

## **550 Driven Piles**

## **600 Incidental Construction**

### **601 Concrete Curb and Gutter**

### **602 Concrete Sidewalks, Loading Zones, Safety Islands, and Steps**

### **603 Concrete Barrier**

603.5 Provide anchoring bid items for temporary precast barrier both on and off bridge decks.

### **604 Slope Paving**

604.3.4.1 Require a broomed finish for slip resistance on concrete slope paving.

### **606 Riprap**

### **608 Storm Sewer**

608.2.1 Require pipe from a department-approved fabricator and eliminate the use of mortar pipe joint seals.

608.3.3 Eliminate the use of mortar pipe joint seals.

608.3.7 Increase deflection testing for polyethylene and polypropylene storm sewer. ASP 6 June 2020 let.

### **611 Catch Basins, Manholes, and Inlets**

### **612 Underdrains**

### **614 Semi-rigid Barrier Systems and End Treatments**

614.3.5 Specify that adjusting post depth is no longer an option to adjust beam guard height.

### **615 Treated Rustic Timber Items and Historical Markers**

### **616 Property and Right-of-Way Fence**

### **618 Maintenance and Repair of Haul Roads**

### **619 Mobilization**

### **620 Concrete Corrugated Median and Concrete Median Nose**

### **621 Landmark Reference Monuments**

### **623 Dust Control Surface Treatment**

### **624 Water**

### **625 Topsoil and Salvaged Topsoil**

625.3.2 Delete requirements for Topsoil substitution and disposal of excess topsoil. ASP 6 Dec 2019 let.

### **626 Peat Humus**

### **627 Mulching**

### **628 Erosion Control**

628.3.7 Include erosion control orders for corrective action as well as mobilizations for erosion control.

628.5.11 Include a \$500 deduct for failing to promptly install department-ordered corrective actions.

### **629 Fertilizer and Agricultural Limestone**

### **630 Seeding**

### **631 Sodding**

### **632 Furnishing and Planting Plant Materials**

### **633 Delineators and Markers**

633.3 Combine crossover and median markers into one subsection covering all permanent flexible markers.

633.5 Combine the crossover and median marker bid items into a new bid item, Markers Permanent Flexible.

### **634 Wood and Tubular Steel Sign Posts**

### **635 Structural Steel Sign Supports**

635 Reference the new ancillary structure foundations section 531 instead of 636.

**Delete 636. Concrete sign supports are now covered under the new ancillary structure foundations section 531.**

### **637 Signing**

637.2.4.2.2 Eliminate the reference to the APL for overhead-mounted signs.

### **638 State Owned Signs and Supports**

638.3.2 Remove all signs on multiple supports before transporting.

## [639 Drilling Wells](#)

Delete 641. All sign structures are now covered under the new ancillary superstructures section 532.

## [642 Field Facilities](#)

## [643 Traffic Control](#)

643.2.3.3 Eliminate alternate sign covers that are not crash tested.

## [644 Temporary Pedestrian Facilities](#)

## [645 Geosynthetics](#)

645 Consolidate and clarify requirements for geosynthetics.  
- 645.2.3.2 Change the ASTM methods for tensile strength and overall flexural rigidity.  
- 645.3.1.5 Require covering type SR geotextile sooner, within 48 hours.

## [646 Pavement Marking](#)

646.3.1.1 Require Pavement Marking Daily - Longline and Pavement Marking Daily - Special forms.

646.3.1.2 Increase the bead application rate for paint marking.

646.3.1.6 Require a presence proving period for all materials but include retroreflectivity for grooved-in only.

646.3.2.3.1 Reduce the wait time before grooving asphalt pavement from 5 days to 2 days.

646.3.2.5 Require same-day marking for all long-line and specify delineation if marking cannot be placed.

## [648 Locating No-passing Zones](#)

## [649 Temporary Pavement Marking](#)

649.3 Require same-day marking for all long-line and specify delineation if marking cannot be placed.

## [650 Construction Staking](#)

## [651 General Requirements for Electrical Work](#)

## [652 Electrical Conduit](#)

## [653 Pull Boxes and Junction Boxes](#)

## [654 Bases](#)

654 Reference the new drilled shaft foundation section 531 for concrete, anchor rods, and concrete bases.

## [655 Electrical Wiring](#)

## [656 Electrical Service](#)

## [657 Poles, Arms, Standards, and Bases](#)

657 Reference the new ancillary superstructures section for galvanizing, bolt assemblies, and bolting.

657.5 Add new luminaire arms bid items and move the anchor assemblies on structures bid item to 531.

## [658 Traffic Signals](#)

## [659 Lighting](#)

## [660 High Mast Lighting Lowering Assemblies](#)

660 Move the foundation and pole shaft provisions for high mast lighting towers to 532.

660.5 Delete existing bid items & add a bid item for the lowering assembly and electrical installations.

## [661 Temporary Traffic Signals and Temporary Ramp Meters](#)

## [670 General Requirements for Intelligent Transportation Systems](#)

## [671 Intelligent Transportation Systems - Conduit](#)

## [673 Communication Vaults](#)

## [674 Intelligent Transportation Systems - Cable](#)

## [675 Controllers and Detectors](#)

## [677 Cameras](#)

677.3 Reference structure installation provisions now in 532.3.6.1 instead of in 657.

677.5 Pay for camera pole foundations under the new ancillary structure foundations section 531.

## [678 Communication Systems](#)

## [690 Sawing](#)

# [700 Quality Management Program](#)

## [701 General QMP Requirements](#)

701.3.1 Specify consolidation by rodding for SAM air void testing. ASP 6 Dec 2019 let.

## **710 General Concrete QMP**

### **715 QMP Concrete Pavement and Structures**

715.2.3.1 Require data from 5 trial batches for mix design acceptance.

715.3.1.2.2 Allow lane-feet sublots up to 25% longer than standard.

715.3.1.2.3 Allow CY sublots up to 25% larger than the standard.

### **716 QMP Ancillary Concrete**

716.2.1 Allow startup acceptance testing for small quantities of ancillary concrete.

716.2.1 Specify compressive strength for ancillary concrete.

### **730 QMP Base Aggregate**

730.1.2.3 Require electronic submittals for gradation, fracture, liquid limit, and plasticity.

730.3.1 Increase time allowed for stockpile tests. ASP 6 Dec 2019 let.

730.3.2 Allow lots up to 25% larger than the standard.

730.3.2 Increase time allowed for reporting recycled asphalt test results. ASP 6 Dec 2019 let.

730.4 Add test requirements for small quantity contracts <= 500 tons. ASP 6 Dec 2019 let.

### **740 QMP Ride**

740.3.2 Decouple ride segments from concrete sublots. ASP 6 Dec 2019 let.

## **Bid Items**

### **100 Bid Items**

#### **200 Bid Items**

204.0100 Rename Removing Pavement to Removing Concrete Pavement to better reflect its use.

#### **300 Bid Items**

#### **400 Bid Items**

460.5226 Add various new bid items for No. 5 and No. 6 mixes.

460.8824 Add new SMA bid items for E mixes.

#### **500 Bid Items**

502.3101 Rename the Expansion Device bid item to remove the structure ID supplemental description.

531 Add new bid items for ancillary structures foundations.

532 Add new bid items for ancillary structures.

#### **600 Bid Items**

603.8500 Add bid item for anchoring temporary barrier not on a bridge deck and rename existing item for bridge decks.

633.5350 Combine the crossover and median marker bid items into a new bid item, Markers Permanent Flexible.

634 Retire the bid items for 4X4 wood posts that do not pass MASH crash test.

637 Retire the sign supports bid items now covered under the new ancillary structure foundations section 531.

641 Retire the 641 bid items now covered under the new ancillary structures section 532.

646.7505 Rename the Ladder Pattern bid items to Block Style.

654.0115 Add bid items for type F and type 10-special concrete bases.

654 Retire the camera base bid items now the Foundation Camera Pole bid items under 531.

655.0142 Add bid item for Cable In Duct 4-2 AWG

657.0347 Add bid items for type 9-special and type 10-special poles.

657.0381 Add bid item for type F poles.

657.0536 Add bid items for 35-foot-special, 40-foot-special, and 45-foot-special monotube arms.

657.0820 Add bid items for 15-ft steel luminaire arms used on type 10 and type 13 poles.

657.6005 Move the bid item for anchor assemblies for poles on structures to 531.

660.0500 Retire the high mast foundation and tower bid items and add the lowering assemblies bid item.

#### **700 Bid Items**

## Appendix

Conversion Table U.S. Standard Measure to SI Metric  
Standard Sieve Sizes  
Bid Item Unit Abbreviations