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100  General Requirements and Covenants

101  General Information, Definitions, and Terms

101.2  Define acronyms for bureaus of structures & technical services as well as for the materials reporting system.

101.3  Adopt the AASHTOWare Project definition for change order.

102  Bidding Requirements and Conditions

102.1  Require prequalification statement 10 business days before the letting is closed. ASP 6 Oct 20 let.

102.6  Incorporate DBE commitment documentation requirements into completed proposals. ASP 6 Oct 20 let.

102.7  Department rejects proposals without complete DBE commitment documentation. ASP 6 Oct 20 let.

102.12  Department opens & posts proposals at noon the day after the letting is closed. ASP 6 Oct 20 let.

103  Contract Award and Execution

103.1  Department may consider responsiveness under 102.6 before awarding contracts. ASP 6 Oct 20 let.

104  Scope of Work

104.6.2  Clarify payment and add temporary traffic control zone devices defined in the WMUTCD.

104.6.2.2  Require class 3 top/pants ensemble for flaggers.

105  Control of the Work

106  Control of Materials

106.3.4.2.1  The department samples and tests fine aggregate sources.

106.3.4.2.3  Lightweight pieces tolerance for split sample tests & dispute resampling and retesting requirements.

107  Legal Relations and Responsibility to the Public

107.7  Require class 3 top/pants ensemble for workers during nighttime or low visibility operations.

107.17.1  Include earlier railroad coordination for work near the railroad right-of-way. ASP 6 Nov 20 let.

108  Prosecution and Progress

108.1.1  Require sublet request for all DBE work & material or supply purchase at any tier.

108.11  Update liquidated damages based on analysis of fiscal 2020 data.

109  Measurement and Payment

109.5  Redefine department payment for eliminated work.

109.6.3.3  Delete the 5% routine retainage that began at 75% project completion. ASP 6 Dec 2020 let.

200  Earthwork

201  Clearing and Grubbing

202  Roadside Clearing

203  Removing Old Culverts and Bridges

203.3.2.3  Incorporate and modify STSPs 203-015, 020, & 025 for removals over waterways.

203.3.3  Incorporate STSP 203-010 for debris containment.

203.4  Measurement for removals over waterways and debris containment bid items.

203.5.1  New bid items for removals over waterways and debris containment systems.

203.5.4  Payment for debris containment bid items.

204  Removing or Abandoning Miscellaneous Structures

204.3.2.4  Removals for ancillary structures and their associated foundations.

204.4  Removals for ancillary structures and their associated foundations.

204.5.1  New bid items for removing ancillary structures and their associated foundations.

205  Roadway and Drainage Excavation

206  Excavation for Structures

207  Embankment

208  Borrow

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

- **301.5** Cap 3X pay for EBS and pay for backfill at contract unit price.

#### 305 Dense-Graded Base

- **305.4** Specify volume-weight conversion factor for Base Aggregate Dense bid items.

#### 310 Open-Graded Base

#### 311 Breaker Run

- **311.4** Specify volume-weight conversion factor for Breaker Run bid items.

#### 312 Select Crushed Material

- **312.4** Specify volume-weight conversion factor for Select Crushed Material bid items.

#### 313 Pit Run

#### 315 Asphaltic Base

#### 320 Concrete Base

- **320.3.2.2** Incorporate intersection joint layout provisions previously in STSP 415-020.

#### 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

- **415.3.7.1** Incorporate intersection joint layout provisions previously in STSP 415-020.

#### 416 Concrete Pavement - Appurtenant Construction

#### 420 Diamond Grinding

#### 450 General Requirements for Asphaltic Pavements

- **450.2.1** Define wedge, butt, & vertical joints and define echelon & tandem paving. ASP 6 Nov 20 let.

- **450.2.8** Require engineer-approved wedging equipment & waive tacking for echelon paving. ASP 6 Nov 20 let.

#### 455 Asphaltic Materials

#### 460 Hot Mix Asphalt Pavement

- **460.2.2.3** Correct No. 6 mix gradations. ASP 6 Nov 20 let.

- **460.3.3.1** Reduced minimum density for select lower layers on paved or milled surfaces and on cold in-place recycle.

#### 465 Asphaltic Surface

- **465.5** Pay separately for tack coat used when placing asphaltic surface.

### 500 Structures

#### 501 Concrete

- **501.2** Extensive rewrite and reorganization to clarify general concrete material requirements.

- **501.2.4.2** Expanded supplemental cementitious materials to include silica fume, blended SCMs, and alternative SCMs.

- **501.2.5.3** Add high range water-reducing admixtures and hydration controlling admixtures.

- **501.2.7.4.1** Base aggregate acceptance on new combined aggregate gradation specification limits.

- **501.2.7.4.2** Incorporate optimized aggregate gradation and associated tarantula curve limits from STSP 715-005.
502.3.13.2 Add surface prep for resealing existing structures with protective surface treatment. STSP 502-005
502.3.13.3 Add surface prep for resealing existing structures with pigmented surface sealer.
502.4.5 Measure Expansion Devices from the outermost extent of the device not including turn-ups.
502.5.1 Add STSP 502-055 Protective Surface Treatment Reseal and Pigmented Surface Sealer Reseal bid items.
502.5.6 Define additional payment for surface prep and waste material handling under the Reseal bid items.

501.3.2.2.1 Eliminate the historical prescriptive concrete mixes; now just four standard grades.
501.3.2.2 Require a minimum amount of supplemental cementitious materials for all concrete.
501.3.2.3 Allow optimized mix designs with reduced cementitious materials for optimized gradations.
501.3.5.2 Engineer consults with BTS when contractor is using hydration controlling admixture.

502 Concrete Bridges

503 Prestressed Concrete Members

504 Culverts, Retaining Walls, and Endwalls

505 Steel Reinforcement

506 Steel Bridges

506.2.2.1 Adopt the Charpy test frequencies required under ASTM A709.

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

521 Corrugated Steel Culverts

522 Reinforced Concrete Culverts

522.1 Delete precast minimum cement content, use standard AASHTO requirement. ASP 6 Jan 21 let.

524 Salvaged Culverts

525 Corrugated Aluminum Culverts

526 Temporary Structures

526.5 Define two-stage payment for temporary structures.

527 Structural Plate Pipe and Pipe Arches

530 Corrugated Plastic Pipe Culverts

531 Ancillary Structure Foundations

531.2.2 Allow mechanical galvanizing for anchor rod assemblies.

531.5 Remove ancillary structure foundations under 204 bid items.

532 Ancillary Superstructures

532.2.1 Correct tapered vertical supports & multi-sided or large diameter round tapered poles. ASP 6 Nov 20 let.

532.3.8 Add acceptance and inspection subsection. ASP 6 Nov 20 let.

532.5 Remove ancillary structures under 204 bid items.

550 Driven Piles

550.2.1 Require grade 3 steel pipe sections & steel pile shells for cast-in-place concrete piles. ASP 6 Nov 20 let.

600 Miscellaneous Construction

601 Concrete Curb and Gutter

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

603 Concrete Barrier

604 Slope Paving
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<td>Upgrade high-speed internet service for department use in field offices.</td>
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700 Quality Management Program

701 General QMP Requirements

701.3.1 AASHTO test methods for surface resistivity and voids in aggregate

710 General Concrete QMP

710.2 Allow start-up gradation acceptance tests. ASP 6 Nov 20 let.

710.4 Mix design submittal worksheets DT2220 & DT2221 and optimized mix design from STSP 715-005.

710.5.6 Department gradation tests for acceptance; non-random contractor tests for production control.

710.5.7 Corrective action based on 4-point running averages for non-random contractor tests on each sieve.

715 QMP Concrete Pavement and Structures

715.2.2.1 Compressive & flexural strength for mix design approval of pavement & barrier concrete from STSP 715-010.
- Mandatory use of a minimum amount of fly ash for pavement and barrier concrete.

715.3.1.1 Beam tests for 28-day strength acceptance on contracts with 50,000 or more SY of concrete pavement.
- Informational concrete surface resistivity testing for pavement, barrier, and structure concrete.

715.5 New incentive bid items and disincentive administrative items for concrete pavement strength.

716 QMP Ancillary Concrete

716.1.1 Identify optimized aggregate gradations and associated corrective action in the quality control plan.

716.2.1 Delete aggregate testing requirements now under 710. ASP 6 Nov 20 let.

730 QMP Base Aggregate

740 QMP Ride

Bid Items

100 Bid Items

200 Bid Items

203.0220 Replace Removing Old Structure (station) - LS; now Removing Structure (structure) - EACH.

203.0250 Add bid items for removals over waterways.

203.0330 Add bid items for debris containment systems.

204.0246 New Removing Ancillary Structure & Removing Ancillary Structure with Restoration bid items.

300 Bid Items

400 Bid Items

460.6643 New HMA Pavement MT bid items for V and E mixes.

460.7643 New HMA Pavement HT bid items for V and E mixes.

500 Bid Items

600  Bid Items

601.0578  Add 30-inch curb & gutter bid items for use on roundabout truck aprons.

614.2345  New MGS Guardrail bid item for short long-spans that can be used with curb.

638.3150  Retire Removing Overhead Sign Support items now under the 204 Removing Ancillary Structures bid items.

646.9050  Add bid items for removing grooved-in regular and contrast permanent tape pavement marking.

700  Bid Items

715.0715  New strength incentive bid items for concrete pavement.

Appendix

Conversion Table U.S. Standard Measure to SI Metric

Standard Sieve Sizes

Bid Item Unit Abbreviations