

**Utah Department of Transportation**



**Supplemental Specifications  
for**

**2012 Standard  
Specifications**

**FOR ROAD AND BRIDGE  
CONSTRUCTION**

Issued September 19, 2012

# Memorandum

UTAH DEPARTMENT OF TRANSPORTATION

**DATE:** September 19, 2012

**TO:** Holders of Hard Copy of Standard Specifications

**FROM:** Barry Axelrod  
Standards and Specifications

**SUBJECT:** Supplemental Specifications Distribution, dated September 19, 2012

Applicable files for the change are attached. Maintain these files as a supplemental update to the UDOT Standard Specifications dated January 1, 2012. No pages are to be removed or replaced in the basic book, electronic or hard copy.

Refer to the Standards and Specifications Web site, Standard and Supplemental Specifications at <http://www.udot.utah.gov/go/2012specifications> for electronic copies of any Standard or Supplemental Specification. Select the appropriate subtopic from there.

Refer to the Standards and Specifications Web site, Engineering Services Web Store at <http://www.udot.utah.gov/go/webstore> to purchase a hard copy of the Standard Specifications or Standard Drawings books.

Contact Barry Axelrod at 801-964-4570, 801-725-8823 (cell), or by email at [baxelrod@utah.gov](mailto:baxelrod@utah.gov) if you have any questions or problems with the electronic files.

Attachments

## Listing of Supplemental Specifications

### Issue Date: September 19, 2012

Revised August 30, 2012

Section 00120M Article 1.15, paragraph A20, Article 1.17, Article 1.18, and Article 1.20 replaced and Article 1.21, paragraph A14 and Article 1.27 added.

Section 00515M Article 1.11, paragraph A replaced.

Section 00570M Article 1.7, paragraph A38 and A66 through A104 replaced.

Section 00820M Article 1.17, paragraph C replaced.

Section 01315M Article 3.1, paragraph D2 and H1 replaced.

Section 01571M Article 2.1, paragraph B1 replaced.

Section 02822M Article 1.3, paragraph G and H and Article 2.5, paragraph B8 replaced.

Section 02823M Article 1.3 and Article 2.2, paragraph B6 replaced.

Section 02891M Article 1.3, Article 1.4, paragraph A1, and Article 2.1, paragraph C replaced.

Section 02893M Article 1.3, Article 2.1, paragraph A3c, Article 2.1, paragraph C1, and Article 2.1, paragraph D2 replaced.

Section 03211M Article 1.3 replaced, Article 2.1, paragraph C added, Article 2.2, paragraph A replaced, Article 2.7, paragraph D and Article 2.8, paragraph D added, Article 3.1, paragraph B1a replaced, and Article 3.1, paragraph E and Article 3.2, paragraph O added.

Section 03393M Article 1.5, paragraph B deleted, Article 2.1, paragraph A, Article 3.1, paragraph B, and Article 3.3, paragraph C and D replaced, and Article 3.3, paragraph I added.

Section 03924M Article 1.1, paragraph B added.

Section 05120M Article 1.3, Article 1.5, paragraph B1, Article 2.2, paragraph C1, and Article 2.2, paragraph D replaced.

Section 06055M Article 1.3 and Article 2.3 replaced.

Section 13553M Article 3.2, paragraph O replaced.

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**SECTION 00120M**

**BIDDING REQUIREMENTS AND CONDITIONS**

**Delete Article 1.15, paragraph A20 and replace with the following:**

20. Unsatisfactory performance on previous or current contracts or serving probation for actions on another project.

**Delete Article 1.17 and replace with the following:**

**1.17 PROPOSAL DELIVERY**

- A. Electronically transmit the proposal before the time specified in the Notice to Contractors.
- B. A manually submitted bid must include both a signed hard copy and electronic version. Electronic media device (CD/Flash Drive) must not be blank or unreadable and must contain the correct electronic bid items txt file in the indicated format.
  1. File format- Proj#\_UDOTContractorID\_bidopendate.txt
  2. The signed hard copy takes precedence over a manually delivered electronic version in the case of discrepancies or initialed changes to unit prices or DBE commitment.

**Delete Article 1.18 and replace with the following:**

**1.18 WITHDRAWING OR REVISING PROPOSALS**

- A. A proposal may be withdrawn or revised before the time set for receiving proposals.
- B. Provide the request for withdrawal to the Department with a telephone call followed by documented electronic communications including a company authorized signature and the UDOT Contractor ID before the time set for receiving proposals.
- C. Revise and save bid proposal using the current version of the Department's Electronic Bid System. Transmit to Department authorized repository before the time set for receiving proposals.

**Delete Article 1.20 and replace with the following:**

**1.20 PROBATION**

- A. A Contractor will be placed on probation if its Contractor ratings performed by the Department do not meet the minimum standard outlined in the Contractor rating process for any Department or Department administered projects.
  - 1. The Contractor will not be allowed to bid on Department or Department administered projects while on probation.

**Add Article 1.21, paragraph A14**

- 14. Contractor ratings performed by the Department do not meet the minimum standard outlined in the Contractor rating process.

**Add Article 1.27:**

**1.27 PUBLIC OPENING OF PROPOSALS**

- A. Proposals are publicly opened at the time indicated in the invitation for bids.

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**SECTION 00515M**

**CONTRACT AWARD AND EXECUTION**

**Delete Article 1.11, paragraph A and replace with the following:**

- A. Return the signed contracts, properly executed contract bonds, National Safety Rating Scores, and all required insurances to the Department within 15 calendar days after notice of award.
  - 1. The bidder can withdraw the proposal without penalty if the Department does not execute the contract within 30 calendar days after receiving signed contracts, bonds, and insurances.
  - 2. The contract is not considered in effect until executed by all parties.

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**SECTION 00570M**

**DEFINITIONS**

**Delete Article 1.7, paragraph A38 and replace with the following:**

38. **Debarment** – Action taken by the Department or federal government pursuant to policies or regulations that prohibits a person or company from performing work on a public project.

**Delete Article 1.7, paragraph A66 through A104 and replace with the following:**

66. **Probation** – Action taken by the Department pursuant to Department policies that prohibits a person or company from bidding on Department or Department administered projects.
67. **Profile Grade** – The trace of a vertical plane intersecting the top surface of the proposed wearing surface, usually along the longitudinal centerline of the roadbed. Profile grade means either elevation or gradient of such trace according to the context.
68. **Project** – The specific section of the highway or other specific property on which construction is to be performed together with all improvements to be constructed under the contract.
69. **Proposal** – A bidder's written response to a Department request for proposals. See also Value Engineering Change Proposal.
70. **Responsible Bidder** – A bidder able to perform the specified work as determined by the Department.
71. **Responsive Bid** – A bid that meets all requirements of the invitation for bids.
72. **Resources** – The labor, equipment, materials, and incidentals necessary to perform work on a contract bid item or other element of work.
73. **Right-of-Way** – A general term denoting land, property, or interest acquired for or devoted to transportation purposes.
74. **Roadbed** – The graded portion of highway within top and side slopes, prepared as a foundation for the pavement structure and shoulders.
75. **Roadbed Material** – Material in cuts, embankments, and embankment foundations from the subgrade down that supports the pavement structure.

76. **Roadside** – The areas between the outside edges of the shoulders and the right-of-way boundaries including unpaved median areas between inside shoulders of divided highways and areas within interchanges.
77. **Roadside Development** – Items necessary for the preservation or replacement of landscape materials. Features may include suitable plantings and other improvements or ground cover to preserve and enhance the appearance and stability of the highway right-of-way or acquired easements for scenic improvements.
78. **Roadway** – The portion of a highway within the construction limits.
79. **Shoulder** – The portion of the roadway adjacent to the traveled way where vehicles may stop for emergencies and which supports base and surface courses.
80. **Sidewalk** – That portion of the roadway constructed exclusively for pedestrian use.
81. **Significant Change in Character of Work** – Work that differs materially in kind or nature from that involved or included in the original contract or results in the total quantity of a major contract item, as defined in this section, varying from the original contract quantity by more than 25 percent.
82. **Site of Work** – As defined in Title 29 CFR Part 5.2 (I).
83. **Specifications** – The compilation of provisions and requirements for the performance of prescribed work.
- a. **Special Provisions** – A unique specification or a modification or revision to the standard specifications applicable to an individual contract.
  - b. **Supplemental Specifications** – Approved additions and revisions to the Standard Specifications.
  - c. **Standard Specifications** – Specifications approved for general application and repetitive use.
84. **Specifications Format** – See the Specification Writer’s Guide. Refer to <http://www.udot.utah.gov/go/standardsreferences>. The titles or headings of the sections, parts, articles, paragraphs, and sub-paragraphs in Standard Specifications and Special Provisions are intended for convenience of reference and have no bearing on their interpretation.
85. **Stabilization** – Modification of soils or aggregates by incorporating materials that increases load-bearing capacity, firmness, and resistance to weathering or displacement.
86. **State** – The State of Utah acting through its authorized representative.
87. **Structures** – Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, endwalls, buildings, sewers, service pipes, underdrains, foundation drains, and other such features that may be encountered in the work.



88. **Subcontractor** – An individual or legal entity to which a Contractor sublets part of the work.
89. **Substantial Completion** – Substantially complete. The day, determined by the Engineer, when all of the following have occurred:
- a. The public, including vehicles and pedestrians, has full and unrestricted use and benefit of the facilities both from the operational and safety standpoint including all Intelligent Transportation Systems (ITS) and Advanced Traffic Management Systems (ATMS).
  - b. All safety features are installed and fully functional, including, but not limited to, illumination, signing, striping, barrier, guardrail, impact attenuators, delineators, and all other safety appurtenances,
  - c. Only minor incidental work, replacement of temporary substitute facilities or correction or repair remains for physical completion.
  - d. The Contractor and Engineer mutually agree that all work remaining will be performed without lane closures, trail or sidewalk closures, or further delays, disruption, or impediment to the public.
90. **Substructure** – All of the structure below the girders or main load carrying members of simple and continuous span bridges, including abutments, bent caps, columns, bents, footings, wingwalls, and skewbacks of arches.
91. **Superintendent** – The Contractor's authorized employee in responsible charge of the work.
92. **Superstructure** – All of the structure except the substructure as defined in this section.
93. **Surety** – The legal entity or individual, other than the Contractor, executing a bond furnished by the Contractor.
94. **Time Related Cost (Time component)** – A bid item that identifies a daily value based on user costs or liquidated damages. Time value is the sum of the products of the time-related cost rates multiplied by the time bid by the Contractor to achieve the milestones specified.
95. **Town, City, or District** – A subdivision of the county used to designate or identify the location of the contract.
96. **Traveled Way** – The portion of the roadway designated for the movement of vehicles, excluding shoulders and auxiliary lanes.
97. **Unbalanced Bid**
- a. **Mathematically Unbalanced** – A bid containing lump sum or unit bid items that do not include reasonable actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs.

- b. **Materially Unbalanced** – A mathematically unbalanced bid that generates a reasonable doubt that awarding the contract to the bidder will result in the lowest ultimate cost to the Department.
- 98. **Unrestricted Traffic** – No traffic control measures in use that obstruct, delay, or in any way impede traffic flow, other than those specifically permitted in the contract.
- 99. **User Costs** – Costs incurred by the traveling public due to construction activities.
- 100. **Utility** – All privately, publicly, or cooperatively owned lines, facilities, and systems for producing, transmitting, or distributing communications, power, heat, gas, oil, water, waste, and storm water not connected with the highway drainage, signal systems, and other products that directly or indirectly serve the public. The utility company.
- 101. **Value Engineering Change Proposal** – A change proposed by the Contractor and considered by the Department intended to result in project cost savings to contract pay items without reducing the essential functions and characteristics of the project. Refer to Section 00725.
- 102. **Work** – The elements, activities, and incidentals necessary to complete a project (including labor, materials, equipment, and the interim products and stages attained in the course of reaching completion), and all alterations, amendments, or extensions made by change order or other written orders of the Engineer.
- 103. **Working Day** – Any calendar day, except:
  - a. Saturdays, Sundays, and contract-designated holidays.
  - b. Days between December 1 and February 29, inclusive.
  - c. Days when the Contractor is specifically required by the contract or letter from the Engineer to suspend operations through no fault of the Contractor.
  - d. Days when the Engineer determines that inclement weather or adverse conditions interfere with the progress of the work.
    - 1) When the Engineer determines that inclement weather prevents the Contractor from working with at least 75 percent of the normal labor and equipment force engaged in the work for at least 60 percent of the normal working day.
    - 2) When inclement weather stops the Contractor from beginning work at the normal starting hour and the crew is released as a result, it is not considered a working day even though conditions may improve and the major portion of the day could be considered suitable for operations.

104. **Working Drawings** – Drawings produced by the Contractor that supplement the contract drawings to provide information not included in the contract documents but that is required to fabricate, erect, transport, or temporarily support the structure or structural elements in the completion of the work. Working drawings do not supersede the contract drawings.
105. **Written Permission of the Engineer** – A letter signed by the Engineer granting specific permission and outlining limitations of the permission.

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**SECTION 00820M**

**LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

**Delete Article 1.17, paragraph C and replace with the following:**

- C. Contractor and the Department agree to provide each other with a copy of the summons and complaint within a reasonable time if served with a lawsuit or Notice of Claim. Do not file a responsive pleading on behalf of the Department until receiving written notice that the Department chooses to have Contractor handle the defense. The Department will provide the Contractor such written notice in a timely manner allowing the Contractor adequate time to respond to the summons.

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**SECTION 01315M**

**PUBLIC INFORMATION SERVICES**

**Delete Article 3.1 paragraph D2 and replace with the following:**

2. Deliver to the Region Public Involvement Manager upon completion of the project.

**Delete Article 3.1 paragraph H1 and replace with the following:**

1. Provide copies of all fliers, e-mail, or other materials containing project information to the Engineer and the Region Public Involvement Manager for review before distribution.

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**SECTION 01571M**

**TEMPORARY ENVIRONMENTAL CONTROLS**

**Delete Article 2.1, paragraph B1 and replace with the following:**

1. Silt Fence Fabric – Refer to AASHTO M 288, Table 7 – Temporary Silt Fence Property Requirements

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**SECTION 02822M**

**RIGHT-OF-WAY FENCE AND GATE**

**Delete Article 1.3, paragraph G and H and replace with the following:**

- G. ASTM A 641: Zinc-Coated (Galvanized) Carbon Steel Wire
- H. American Wood-Preservers' Association (AWPA) Book of Standards
- I. National Electrical Code (NEC)

**Delete Article 2.5, paragraph B8 and replace with the following:**

- 8. Apply field treatment preservatives according to AWPA Standard M4 after field drilling. Refer to AWPA Standard M4, Section 7 for accepted field treatment preservative systems.

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**SECTION 02823M**

**RIGHT-OF-WAY POLE FENCE**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. American Wood-Preservers' Association (AWPA) Book of Standards

**Delete Article 2.2, paragraph B6 and replace with the following:**

- 6. Apply field treatment preservatives according to AWPA Standard M4 after field drilling. Refer to AWPA Standard M4, Section 7 for accepted field treatment preservative systems.



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**SECTION 02891M**

**TRAFFIC SIGNS**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. ASTM A 513: Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing
- B. ASTM A 653: Steel, Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by Hot-Dip Process
- C. ASTM B 209: Aluminum and Aluminum-Alloy Sheet and Plate
- D. American Plywood Association (APA) Product Standard

**Delete Article 1.4, paragraph A1 and replace with the following:**

- A. Traffic Sign Components
  - 1. Panel – Assembly of substrate and attached sheeting. Several panels may be necessary to complete one sign. Panel types are:
    - a. Type
      - 1) A: Retroreflective sheeting on sheet aluminum.
      - 2) PW: Retroreflective sheeting on plywood-backed sheet aluminum.
    - b. Legend
      - 1) Non-reflective legend and border.
      - 2) Retroreflective legend and border.

**Delete Article 2.1, paragraph C and replace with the following:**

- C. Plywood Backing – According to APA product standard PS 1-83, Group One: ½ inch thick.
  - 1. 90/90, high density BB exterior (Douglas Fir) B Grade.
  - 2. Plugged-core (Douglas Fir) with ½ inch maximum gaps.

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**SECTION 02893M**

**OVERHEAD SIGN/VMS STRUCTURE**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. AASHTO M 111: Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- B. AASHTO M 232: Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- C. AASHTO M 270: Structural Steel for BridgesD.ASTM A 36: Carbon Structural Steel
- E. ASTM A 53: Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
- F. ASTM A 194: Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
- G. ASTM A 307: Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength
- H. ASTM A 314: Stainless Steel Billets and Bars for Forging
- I. ASTM A 500: Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
- J. ASTM A 563: Carbons and Alloy Steel Nuts
- K. ASTM B 221: Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
- L. ASTM B 308: Aluminum-Alloy 6061-T6 Standard Structural Profiles
- M. ASTM B 429: Aluminum-Alloy Extruded Structural Pipe and Tube
- N. ASTM C 1107: Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
- O. ASTM F 436: Hardened Steel Washers

- P. ASTM F 593: Stainless Steel Bolts, Hex Cap Screws, and Studs
- Q. ASTM F 594: Stainless Steel Nuts
- R. ASTM F 844: Washers, Steel, Plain (Flat), Unhardened for General Use
- S. ASTM F 1554: Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength
- T. AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 5<sup>th</sup> edition
- U. American Institute of Steel Construction (AISC)
- V. American Petroleum Institute (API)
- W. AWS D1.1 Structural Welding Code – Steel
- X. AWS D1.2 Structural Welding Code – Aluminum

**Delete Article 2.1, paragraph A.3.c and replace with the following:**

- c. Furnish nuts and washers. Refer to ASTM A 563, A 194 and F 436.

**Delete Article 2.1, paragraph C.1 and replace with the following:**

- 1. Use low carbon steel according to ASTM A 53 Grade B, ASTM A 500 Grade B, or API-5L-X42, except use chemical composition requirement of silicon either 0.00 to 0.04 percent or 0.15 to 0.25 percent. Refer to ASTM A 53 Grade B or A 500 Grade B (35,000 psi min yield strength) for other elements.

**Delete Article 2.1, paragraph D.2 and replace with the following:**

- 2. Refer to ASTM F 593 Type 304 for stainless steel bolts and ASTM F 594 for stainless steel nuts.

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**SECTION 03211M**

**REINFORCING STEEL AND WELDED WIRE**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. AASHTO M 31: Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
- B. AASHTO M 55: Steel Welded Wire Reinforcement, Plain, for Concrete
- C. AASHTO M 111: Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- D. AASHTO M 235: Epoxy Resin Adhesives
- E. AASHTO T 106: Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in Cube Specimens)
- F. ASTM A 108: Steel Bar, Carbon and Alloy, Cold-Finished
- G. ASTM A 493: Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging
- H. ASTM A 706: Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement
- I. ASTM A 767: Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement
- J. ASTM A 775: Epoxy-Coated Steel Reinforcing Bars
- K. ASTM A 955: Deformed and Plain Stainless-Steel Bars for Concrete Reinforcement
- L. ASTM A 970: Headed Steel Bars for Concrete Reinforcement
- M. ASTM E 1512: Testing Bond Performance of Bonded Anchors
- N. American Welding Society (AWS) Standards

- O. Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice
- P. UDOT Quality Management Plans (QMP)

**Add the following to Article 2.1:**

- C. Refer to ASTM A 955, Type XM-28, Grade 60 for deformed or plain stainless steel bars.

**Delete Article 2.2, paragraph A and replace with the following:**

- A. Refer to ASTM A 775 or AASHTO M 111.

**Add the following to Article 2.7:**

- D. Provide bar supports and wire ties for use with stainless steel bars that meet the following:
  - 1. Meet the requirements of Table 2.
  - 2. Provide bar supports that are plastic coated, epoxy coated, plastic, or stainless steel conforming to the requirements of ASTM A 493, Type 316.
  - 3. Provide wire ties that are plastic coated, plastic, or stainless steel conforming to the requirements of ASTM A 493, Type 316, annealed.
  - 4. Provide tie-down wires that are plastic coated or stainless steel conforming to the requirements of ASTM A 493, Type 316, annealed.

**Add the following to Article 2.8:**

- D. Use stainless steel splice coupler with stainless steel reinforcement.

**Delete Article 3.1, paragraph B.1.a and replace with the following:**

- a. Meet requirements of ASTM A 775 Appendix A.2 for repair material.

**Add the following to Article 3.1:**

- E. Ship, handle, and store stainless reinforcing steel so it does not come in contact with carbon steel.
  - 1. Cover stainless reinforcing steel with tarps during outdoor storage.
  - 2. Separate bundles of stainless reinforcing steel from other types of reinforcing steel with wooden spacers.
  - 3. Store stainless reinforcing steel on wooden supports off the ground or floor.

**Add the following to Article 3.2:**

- O. Place stainless steel reinforcement so that it does not come in contact with carbon steel.
  - 1. Do not tie stainless steel to uncoated or coated carbon steel reinforcement, galvanized attachments, or galvanized conduits.
    - a. Direct contact is not acceptable.
    - b. Use nylon or polyethylene spacers to maintain a minimum 1 inch clearance between the two metals and bind them with nylon cable ties when stainless reinforcing steel or dowels must be near coated or uncoated carbon steel reinforcing or galvanized metals,.
    - c. Either bar may be sleeved with a continuous  $\frac{1}{8}$  inch minimum thickness polyethylene or nylon tube extending at least 1 inch in each direction past the point of closest contact between the two dissimilar bars where insufficient space exists to maintain this minimum.
  - 2. Use only epoxy coated or non-metallic snap ties, straps, or other forming hardware in members that use stainless steel reinforcement to prevent corrosion from dissimilar metals.

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**SECTION 03393M**

**CONCRETE HEALER/SEALER**

**Delete Article 1.5, paragraph B.**

**Delete Article 2.1, paragraph A and replace with the following:**

- A. Use approved low viscosity, low modulus polymer or high molecular weight methacrylate (HMWM) system.
  - 1. Refer to Table 1 for concrete healer/sealer properties.

**Delete Article 3.1, paragraph B and replace with the following:**

- B. Healer/Sealer Systems
  - 1. Deliver materials to the project in their original containers bearing the manufacturer's label specifying the date of manufacturing, batch number, trade name brand, quantity, and mixing ratio.

**Delete Article 3.3, paragraph C and D and replace with the following:**

- C. Handle and mix according to the manufacturer's recommendations.
- D. Apply the concrete healer/sealer to the entire prepared concrete surface according to the manufacturer's recommendations.
  - 1. Do not place materials when weather or surface conditions prevent the material from being properly handled, placed, and cured.
  - 2. Completely cover or flood the deck with the material. Coverage rates will vary depending on the existing surface conditions.
    - a. Sweep, squeegee, pour, or spray the area with the sealer allowing it to flow into the cracks.
  - 3. Place all material within five minutes of mixing.
  - 4. Repeat this procedure until all cracks are completely filled and a uniform coating covers the deck.
  - 5. Sweep excess sealer with a broom from tined surfaces after the cracks have been filled and before the material begins to gel.
  - 6. Do not allow excess sealer to plug the tined surfaces of the bridge deck and approach slabs.

**Add Article 3.3, paragraph I:**

- I. Verify that the application has not caused the deck to become less skid resistant than the original deck surface as measured before the application according to AASHTO T 242. Take the necessary measures to correct the surface skid resistance if the deck does become less skid resistant after the application.



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**SECTION 03924M**

**STRUCTURAL CONCRETE REPAIR AND SEALING**

**Add Article 1.1, paragraph B.**

- B. Materials, procedures, and equipment for sealing columns, pedestals, bent and pier caps, diaphragms, wingwalls, abutment backwalls, beam ends, and parapets.

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**SECTION 05120M**

**STRUCTURAL STEEL**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. AASHTO M 111: Zinc (Hot-dip Galvanized) Coatings on Iron and Steel Products
- B. AASHTO M 270: Structural Steel for Bridges
- C. AASHTO LRFD Bridge Construction Specifications
- D. AASHTO LRFD Bridge Design Specifications
- E. AASHTO/AWS D1.5 Bridge Welding Code
- F. ASTM A 194: Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
- G. ASTM A 325: Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
- H. ASTM A 563: Carbon and Alloy Steel Nuts
- I. ASTM F 436: Hardened Steel Washers
- J. ASTM F 606: Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
- K. ASTM F 959: Compressible-Washer-Type Direct Tension Indicators for Use With Structural Fasteners
- L. American Institute of Steel Construction (AISC)
- M. Society for Protective Coatings (SSPC)
- N. UDOT Quality Management Plan

O. UDOT Steel and Concrete Construction Manual

**Delete Article 1.5, paragraph B.1 and replace with the following:**

1. Manufacturer's certificate of compliance for nut, bolt, and washer proof load tests as specified. Refer to ASTM F 606 and ASTM A 325.
  - a. Provide Certificate showing corresponding lot numbers appearing on the shipping package, certification, test location, time and date, and results of the testing.
  - b. Include rotational capacity and proof load test results.

**Delete Article 2.2, paragraph C.1 and replace with the following:**

1. Refer to ASTM A 194 or ASTM A 563.

**Delete Article 2.2, paragraph D and replace with the following:**

- D. Washers – Refer to ASTM F 436.

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**SECTION 06055M**

**TIMBER AND TIMBER TREATMENT**

**Delete Article 1.3 and replace with the following:**

**1.3 REFERENCES**

- A. AASHTO M 133: Preservatives and Pressure Treatment Processes for Timber
- B. AASHTO M 168: Wood Products
- C. AASHTO LRFD Bridge Requirements
- D. Southern Pine Inspection Bureau (SPIB) Standard Grading Rules
- E. Western Wood Products Association (WWPA) Standard Grading Rules

**Delete Article 2.3 and replace with the following:**

**2.3 TREATMENT**

- A. Meet requirements of AASHTO LRFD Bridge Requirements.
- B. Meet requirements of AASHTO M 133.

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**SECTION 13553M**

**ATMS CONDUIT**

**Delete Section 3.2 paragraph O and replace with the following:**

- O. Install a bushing or adapter at ends of all nonmetallic conduit that contain a conductor according to the NEC.