

**Utah Department of Transportation**



**Supplemental Specifications  
for**

**2012 Standard  
Specifications**

**FOR ROAD AND BRIDGE  
CONSTRUCTION**

Issued March 14, 2013

# Memorandum

UTAH DEPARTMENT OF TRANSPORTATION

**DATE:** March 14, 2013

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

**FROM:** Barry Axelrod  
Standards and Specifications

**SUBJECT:** Supplemental Specifications Distribution, dated March 14, 2013

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.

### **Issue Date: November 14, 2012**

Revised October 25, 2012

Section 02752M Article 3.10, paragraph E

Section 03211M Article 1.3 replaced, Article 2.1, paragraph C added, Article 2.2, paragraph A replaced, Article 2.7, paragraph B 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. (This issue replaced previously issued Supplemental Specification for this section.)

Section 13557M Article 3.1, paragraph A and Article 3.2, paragraph E replaced.

## **Issue Date: March 14, 2013**

Revised February 28, 2013

Section 00570M Article 1.7, paragraph A38, paragraph A49 Table 1, and paragraphs A66 through A104 replaced.

Section 00727M Article 1.28, paragraph B replaced.

Section 00820M Article 1.13, Article 1.17, paragraph C, and Article 1.17, paragraph F3 replaced.

Section 01282M Article 1.9, paragraphs C1b and D5 and Article 1.11, paragraph E1 replaced

Section 01456M Article 1.6, paragraph C replaced.

Section 02821M Article 1.3, paragraph H and Article 2.2, paragraph A1 replaced.

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

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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 A49, Table 1 and replace with the following:**

Table 1

<b>Holiday Categories</b>	
<b>Category I</b>	<b>Category II</b>
Martin Luther King, Jr. Day	New Year's Day
Presidents' Day	Memorial Day
Columbus Day	Independence Day
Veteran's Day	Pioneer Day
	Labor Day
	Thanksgiving Day
	Christmas Day

**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 00727M**

**CONTROL OF WORK**

**Delete Article 1.28, paragraph B and replace with the following:**

- B. Employ a qualified safety person.
  - 1. Required qualifications
    - a. Verifiable broad based safety background.
    - b. One of the following degrees or certifications:
      - 1) College degree in Occupational Safety & Health (OSH) related field
      - 2) Associate Safety Professional (ASP)
      - 3) Certified Safety Professional (CSP)
      - 4) Certified Industrial Hygienist (CIH)
      - 5) Construction Health and Safety Technician (CHST)
      - 6) Associate in Risk Management (ARM)
      - 7) OSHA 500, or other nationally recognized OSH related field certification approved by UDOT Risk Management
    - c. Must stay current on certification via the OSHA 502 or equivalent of 8 Continuing Education Units (CEU) in OSH related fields every 3years.
  - 2. Responsibilities
    - a. Perform on-site safety inspections on a monthly basis, for jobs 45 days or longer in duration. Refer to the UDOT Safety and Health Manual.
    - b. Coordinate all safety related efforts with the on-site competent safety person.
    - c. Cannot perform production-related responsibilities on the project.

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**SECTION 00820M**

**LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

**Delete Article 1.13 and replace with the following:**

**1.13 PROTECTING AND RESTORING PROPERTY AND LANDSCAPE**

- A. Preserve public and private property during the work.
- B. Do not perform work on public or private property if the legal right to access the property has not been secured. All damage as a result of trespass will be the financial responsibility of the Contractor including additional acquisition costs.
- C. The Engineer verifies the location of monuments and property line markers and provides written approval before they are moved, disturbed, or damaged.
- D. Accept liability for any damage to public or private property resulting from defective work, materials, or non-execution of the contract until contract completion.
- E. Restore damaged property and items removed temporarily during construction to a condition similar or equal to that existing before the damage at no cost to the Department.
- F. Temporarily discontinue work if remains of prehistoric dwelling sites or artifacts of historical or archeological significance are encountered. Refer to Section 01355.

**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.

**Delete Article 1.17, paragraph F3 and replace with the following:**

3. Notify claimants of denied or partially denied claims of \$5,000 or less of their right to request re-examination by the  
UDOT Claims Re-Examination Board  
4501 South 2700 West  
West Valley City, UT 84114-8430  
Phone: (801) 965-4715
  - a. The information provided to the claimant includes:
    - 1) A time deadline for requesting re-examination equal to seven days after notification of denial or partial denial
    - 2) Address and name of the person to whom it should be directed
    - 3) General information helpful in making a determination

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**SECTION 01282M**

**PAYMENT**

**Delete Article 1.9, paragraph C1b and replace with the following:**

- b. The following additional markups will be allowed on the aggregate of work according to change order performed solely by subcontractors:
  - 1) 15 percent markup on first \$75,000 of total subcontracted work.
  - 2) 10 percent markup on total of subcontracted work between \$75,000 up to \$250,000
  - 3) 7.5 percent markup on total of subcontracted work exceeding \$250,000

**Delete Article 1.9, paragraph D5 and replace with the following:**

- 5. The following additional markups will be allowed on the aggregate of work according to change order performed solely by subcontractors:
  - a. 15 percent markup on first \$75,000 of total subcontracted work.
  - b. 10 percent markup on total of subcontracted work between \$75,000 up to \$250,000.
  - c. 7.5 percent markup on total of subcontracted work exceeding \$250,000.

**Delete Article 1.11 paragraph E1 and replace with the following:**

- 1. The following additional markups will be allowed on the aggregate of work according to change order performed solely by subcontractors:
  - a. 15 percent markup on first \$75,000 of subcontracted work.
  - b. 10 percent markup on total of subcontracted work between \$75,000 up to \$250,000.
  - c. 7.5 percent markup on total of subcontracted work exceeding \$250,000.

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**SECTION 01456M**

**MATERIALS DISPUTE RESOLUTION**

**Delete Article 1.6, paragraph C and replace with the following:**

- C. Include the following items in the engineering analysis where applicable:
  - 1. Data supporting the Contractor's test results. Data must be based on project quality control testing.
    - a. Split sample testing performed within the applicable contract.
    - b. Contractor's test data for the disputed results along with all supporting test data and calculations for calculated values such as bulk specific gravity, maximum specific gravity, and ignition oven results for disputing VMA in asphalt concrete.
    - c. Successful laboratory correlation information when required by material specification.
  - 2. Slump, air, yield, and similar items for disputing compressive strength of Portland cement concrete.
  - 3. Statistical analysis or identification of outliers.
  - 4. Procedures or issues leading to disputed acceptance test results.
  - 5. Incentive/Disincentive calculations based on both Contractor and Department test values, individually.

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**SECTION 02821M**

**CHAIN LINK FENCING AND GATES**

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

- H. ASTM F 1043: Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework
- I. ASTM F 1083: Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

**Delete Article 2.2, paragraph A1 and replace with the following:**

- 1. Schedule 40, hot-dip galvanized coated pipe. Refer to ASTM F 1043 and ASTM F 1083.

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**SECTION 02891M**

**TRAFFIC SIGNS**

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

**1.3 REFERENCES**

- A. ASTM A 123 / A 123M: Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- B. ASTM A 513: Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing
- C. ASTM A 653: Steel, Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by Hot-Dip Process
- D. ASTM A 787: Electric-Resistance-Welded Metallic-Coated Carbon Steel Mechanical Tubing
- E. ASTM B 209: Aluminum and Aluminum-Alloy Sheet and Plate
- F. 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 B and replace with the following:**

- B. Substrate Aluminum – 0.080 or 0.125 inch thick as follows. Refer to ASTM B 209 alloy 6061-T6, or 5052-H38.
  - 1. Use 0.125 for signs installed on frame and Gore signs.
  - 2. Use 0.080 for all other signs.

**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.

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

- E. Posts, “T” and “U” brackets, extensions, and hardware according to SN Series Standard Drawings.
  - 1. Post P1
    - a. 2<sup>3</sup>/<sub>8</sub> inch outside diameter 0.080 (14 Gauge)
    - b. Refer to ASTM A 513 or ASTM A 787
    - c. Galvanize according to ASTM A 653 or ASTM A 123
    - d. Color – Powder coated as required
  - 2. Post P2
    - a. 2<sup>3</sup>/<sub>8</sub> inch outside diameter 0.095 (13 Gauge)
    - b. Refer to ASTM A 513 or ASTM A 787
    - c. Galvanize according to ASTM A 653 or ASTM A 123
    - d. Color – Powder coated as required
  - 3. Post P3
    - a. 2<sup>7</sup>/<sub>8</sub> inch outside diameter 0.134 (BWG 10)
    - b. Refer to ASTM A 513 or ASTM A 787
    - c. Galvanize according to ASTM A 653 or ASTM A 123
    - d. Color – Powder coated as required
  - 4. Post P4
    - a. 2<sup>7</sup>/<sub>8</sub> inch outside diameter 0.160 (NP 40)
    - b. Refer to ASTM A 513 or ASTM A 787
    - c. Galvanize according to ASTM A 653 or ASTM A 123
  - 5. Post P5
    - a. 2<sup>7</sup>/<sub>8</sub> inch outside diameter 0.276 (SCH 80)
    - b. Refer to ASTM A 513 or ASTM A 787
    - c. Galvanize according to ASTM A 653 or ASTM A 123
  - 6. “T” and “U” Extension and 90 degree Post Extension
    - a. Manufacture according to SN Series Standard Drawings.
    - b. Galvanize according to ASTM A 653 or ASTM A 123

7. Standard Pipe Posts
  - a. Match post size with base requirements.
8. S Section and W Section steel posts
  - a. Structural Steel: Refer to Section 05120.
  - b. Match post size with base requirements