

# Design Standards Letter

**Letter Number: S-2001-06**

**Letter Date: 12/26/2001**

**Effective Date: 04/01/2002**

**Section/Plan No.: S101.1, S101.2, S104.11.1, S106.1.4, S107.13.2.5, S108.9, S109.7.2, S109.8, S109.8.1, S109.8.2, S109.9.3, S201.2.5.1, S202, S203.2.3, S203.2.3.1, S203.2.3.2, S203.2.3.3, S606, S613.2.7.1, S616.3.1.2, S702, S712.2.1.2, S712.2.4, S712.3.1.1, S712.10.2.7, S712.10.2.8, S712.10.2.9, S712.10.2.10, S712.10.2.11, S901, S902, S1040, S1045.5.1, S1045.6.1, S1045.7.1, S1045.5.2, S1045.8.1, S1045.8.2, S1045.8.3, S1045.8.4, S1045.8.5, S1045.9, S1045.10**

**Subject: Revised Supplement to the Standard Specifications**

**Body**

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 Questions concerning the Supplemental Revisions to the Standard Specifications should be directed to Kirsten Munck, General Headquarters, Design Standards, at 573-526-2919 or David Silvester at 573-526-2903.

NOTE	EXPLANATION
1	The following revisions are effective with the April 2002 bid opening.
SECTION	DESCRIPTION OF REVISION
<b>GSPs</b>	<p>The General Special Provision <i>Restoration of Disturbed Areas</i> has been removed and incorporated into the Standard Specifications. (See Sec 104.11.1 below for more information.)</p> <p>The General Special Provision <i>Navigable Waters Insurance Protection</i> has been removed and incorporated into the Standard Specifications. (See Sec 107.13.2.5 below for more information.)</p> <p>The General Special Provision <i>Gray Epoxy-Mastic Primer</i> has been removed and incorporated into the Standard Specifications. (See Sec 1045.10 below for more information.)</p> <p>Deleted General Special Provision <i>Geographic Reference System Monument</i>. New guidelines regarding location surveys have been placed in the Project Development Manual.</p> <p>Created a General Special Provision for <i>Snowplowable Raised Pavement</i></p>

*Markers.*

The Job Special Provision, *Video Detection System*, **DSP-00-13**, has been incorporated into the General Special Provisions (GSPs).

<b>SECTION</b>	<b>DESCRIPTION OF REVISION</b>
<b>101.1</b>	Amended the Abbreviations to include MDNR (Missouri Department of Natural Resources).
<b>101.2</b>	Definition of the term "Engineer" was expanded to include a statement regarding the use of the functional units within the contract documents, and that when the functional unit is designated in the specifications, the intended meaning is to be the engineer of the functional unit or designee.
<b>104.11.1</b>	"Final Clean Up" was revised to incorporate wording previously located in the General Special Provision, <i>Restoration of Disturbed Areas</i> , which included language pertaining to the restoration of disturbed areas <i>adjacent to and beyond</i> the limits of construction.
<b>106.1.4</b>	Modified to specify that material for sampling is to be selected by the inspector and shall not be material that is pre-selected for testing by the manufacturer or supplier.
<b>107.13.2.5</b>	New section created to incorporate the General Special Provision, <i>Navigable Waters Insurance Protection</i> , into the Standard Specifications. This specification addresses necessary insurance requirements for contractors working on either the Missouri or Mississippi River.
<b>108.9</b>	Changes the cost to the contractor if MoDOT personnel are called out to correct signal and lighting malfunctions for projects under construction from 2.5 times the cost for our services to 5 times.
<b>109.7.2</b>	Revised to allow the value of non-perishable material on a job site be included for payment estimate as long as the value of the material is at least \$10,000, and is included on a single invoice from one supplier, instead of the limitation of a \$10,000 value for one bid item, as previously specified.
<b>109.8 &amp; 109.8.1</b>	Restored provisions requiring the contractor to submit an affidavit to the effect that all payments have been made and all claims have been released for all material, labor and other items covered by the contract bond, written consent of the surety to final payment, and any other documents which may be required by the contract. Sec 109.8.1 is new text.
<b>109.8.1 &amp; 109.8.2</b>	Renumbered to 109.8.2 & 109.8.3 respectively.
<b>109.9.3</b>	Added in verbiage inadvertently removed regarding affidavits and payments to the contractor by the Commission while disputes on claims by the contractor remain unresolved.

<b>201.2.5.1</b>	Revised to add language to address the Missouri Department of Natural Resources' regulations within our specifications to reinforce our intent to comply with air quality laws and to reduce the amount of illegal burning that is occurring.
<b>202</b>	Completely revised this section to include language previously included in the Supplemental Revisions addressing removal and demolition projects.
<b>203.2.3, 203.2.3.1, 203.2.3.2 &amp; 203.2.3.3</b>	Sec 203.2.3, including subsections, regarding drilled and dug wells has been deleted since this information was incorporated into Sec 202. Secs 203.2.4 through 203.2.18, including subsections, have been renumbered to Secs 203.2.3 through 203.2.17, respectively.
<b>606</b>	Completely revised this section to include <i>Crashworthy End Terminal, Guard Cable 3-Strand, Guardrail Rehabilitation Projects</i> and <i>Use of Salvaged Guardrail</i> JSP's into the specifications. Additionally, numerous notes were removed from the Standard Plans and placed into the specifications. Sec 1040 was also revised accordingly.
<b>613.2.7.1</b>	Now requires both a 4-hour curing time and a compressive strength of 3500 psi for Type III cement prior to opening to traffic. Now requires the contractor to provide a trial mix to determine the approximate cure time needed to achieve the compressive strength of 3500 psi for all mixes.
<b>616.3.1.2</b>	This new section in the specifications was created to address new legislation regarding work zones and fines. Specifies that during any period of two hours or more that no person is present in the work zone to perform duties related to the work zone, all "Work Zone Fine" signs shall be covered.
<b>702</b>	Revised this section to incorporate a Bridge Special Provision pertaining to pile point reinforcement into the specifications. Implemented minor format changes for consistency.
<b>712.2.1.2</b>	Implemented minor format changes for consistency.
<b>712.2.4</b>	Revised this section to incorporate a Bridge Special Provision pertaining to fastener and fastener assemblies into the specifications. Implemented minor format changes for consistency.
<b>712.3.1.1</b>	Changed specification to address sampling of bolts, nuts and washers at the fabrication shop performing the primary fabrication.
<b>712.10.2.7, 712.10.2.8, 712.10.2.9, 712.10.2.10 &amp; 712.10.2.11</b>	New sections created to incorporate the Bridge Special Provision pertaining to fastener and fastener assemblies into the specifications.
<b>901</b>	This section has been completely revised to address numerous inconsistencies between requirements for lighting and signal applications. Changes include the following: pull box specifications were moved to Sec

	902; identification tags are now required for all light poles; new mounting options were added for photoelectric cell mounting; and a method of measurement for Type B poles has been added. A section was added to address screw anchor foundations. Screw anchor foundations will now require that shop drawings be submitted to Headquarters (similar to the lighting and signal poles) for pre-approval, and will then be placed on the <i>Traffic Signal and Highway Lighting Approved Products List</i> .
<b>902</b>	This section has been completely revised to address numerous inconsistencies between requirements for lighting and signal applications. Changes include the following: specifications for incandescent and optically limiting signal bulbs were added; pull box specifications were moved to Sec 902, and new specifications for circular pull boxes were developed; identification tags are now required for mast arms and signal posts; specifications for solid-state pretimed controllers have been removed and placed into a job special provision; and specifications for tone transmitter and receiver units, magnetometers, induction detector probes, ultrasonic presence detectors and shelf-mounted detectors have been removed.
<b>1040</b>	Completely revised this section to include the material requirements for <i>Crashworthy End Terminal, Guard Cable 3-Strand, Guardrail Rehabilitation Projects</i> and <i>Use of Salvaged Guardrail</i> JSP's into the specifications. Additionally, numerous notes were removed from the Standard Plans and placed into the specifications. Sec 606 was also revised accordingly.
<b>1045.5.1, 1045.6.1 &amp; 1045.7.1</b>	Added the word "Description." to the beginning of the section.
<b>1045.5.2</b>	Removed "for High Solids Inorganic Zinc Primer" from the title of this section and changed "State Project Operations Engineer" to "Project Operations".
<b>1045.8.1, 1045.8.2, 1045.8.3, 1045.8.4 &amp; 1045.8.5</b>	Added the word "Description." to the beginning of the section. Clarified that "the <i>finish</i> coating shall cure to a tough, abrasion resistant..." in existing Sec 1045.8.2, and rolled the text within that section up into 1045.8.1. Secs 1045.8.3 through 1045.8.5 were renumbered to 1045.8.2 through 1045.8.4, respectively.
<b>1045.9</b>	Sec 1045 was amended to include Sec 1045.9 - Aluminum Epoxy-Mastic Primer, including new subsections.
<b>1045.10</b>	Sec 1045 was amended to include Sec 1045.10 - Gray Epoxy-Mastic Primer, including new subsections.