

**CHANGES TO
DIVISION 100
OF THE STANDARD SPECIFICATIONS**

The following Supplemental Specifications, which have been previously approved by the Specifications Committee and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS 100-1	Required Contract Provisions for State Construction Jobs
SS-100-2	Manual for Assessing Safety Hardware (MASH)
SS-102-1	Bidding Requirements and Conditions
SS-103-1	Determination of DBE Participation
SS-105-1	Construction Control Markings
SS-105-2	Equipment and Material Storage on Bridge Structures
SS-105-3	Control of Work
SS-107-1	Worker Visibility
SS-110-1	Protection of Water Quality and Wetlands

The errata for the 2003 Edition have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
101.01(a) & (b)	Addition or changes made to abbreviations of: ADA, DEPT, LRFD, MUTCD, MASH, AB, STAA.
101.01(c)	Definition of Professional Engineer.
101.01(c)	Definition of Professional Surveyor.
102.01	Reference to AR code in 3 rd paragraph corrected.
102.04	Revised deadline for purchasing plans, proposal forms and specifications prior to bid opening.
102.07	Clarification of minimum/maximum unit bid prices.
106.01(b)(1)	Change to certification statement for iron or steel products.
106.04	Updated standard governing significant digits.
107.05	Split required contract provisions into (a) Federal Aid and (b) Non-Federal Aid
107.12	Changes to monument restoration by a Professional Surveyor.

**CHANGES TO
 DIVISION 200
 OF THE STANDARD SPECIFICATIONS**

The following changes have been incorporated into the 2014 Edition. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
200	Minor grammatical changes.

**CHANGES TO
 DIVISION 300
 OF THE STANDARD SPECIFICATIONS**

The following supplemental specification, which has been previously approved by the Specifications Committee and is included in current projects as appropriate, has been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS-303-1 Compaction of Aggregate Base Courses

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
306.03	Added waiver of further tests for PL and LL if first 5 tests show non-plastic material.
307.03 (b)	Deleted PM Portland Cement; Limits Slag-Modified Portland Cement to 25% maximum; Changed “ground granulated blast furnace slag” to “slag cement”.
308.03 (b)	Deleted PM Portland Cement; Limits Slag-Modified Portland Cement to 25% maximum; Changed “ground granulated blast furnace slag” to “slag cement”.
308.05 (c)	Changed calibration of machines testing concrete cylinders to 12 months, not to exceed 13 months.

**CHANGES TO
DIVISION 400
OF THE STANDARD SPECIFICATIONS**

The following Supplemental Specifications, which have been previously approved by the Specifications Committee and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS-403-1	Polymer/Latex Modified Cationic Emulsified Asphalt for Asphalt Surface Treatments
SS-404-1	Production Verification of Asphalt Concrete Hot Mix
SS-404-2	Design and Quality Control of Asphalt Mixtures
SS-409-1	Mineral Aggregates
SS-410-3	Density Testing for ACHM Leveling Courses and Bond Breakers
SS-411-1	Asphalt Concrete Cold Plant Mix

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
401.02	Asphalt penetrating prime deleted.
403.03(d)	“...asphalt being tested begins to drip...” changed to “...asphalt fails to comply...”
403.03(e)	“...asphalt being tested begins to drip...” changed to “...asphalt fails to comply...”
403.03(g)	Asphalt penetrating prime deleted.
403.04	Asphalt penetrating prime temperature limits deleted.
404.01(a)	Defined quantity of one gallon sample of PG AB to be used in mix design.
404.01(a)	Eliminated specified quantities of aggregate samples.
404.01(b)	AASHTO standards updated.
404.04	Note 2 AASHTO standard updated.
Table 409-1	Note added to Sodium Sulfate Soundness.
Table 409-1	Note 1 changed to 2, Note 2 changed to 3.
Table 409-2	Table adjusted, AASHTO standards updated.
409.04	Heading added to Subsection.
409.04(c)	409.05 changed to 409.04(c)
410.09(b)(1)	First sentence of 2 nd paragraph deleted.
410.10(c)	Spelling of calibrated corrected.
418.02(a)	“...quick setting CSS-1h...” changed to “...CQC-1h...”

**CHANGES TO
DIVISION 500
OF THE STANDARD SPECIFICATIONS**

The following Supplemental Specifications, which have been previously approved by the Specifications Committee and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

- SS-501-1 Installation of Tie Bars
- SS-507-1 Installation of Dowel Bars and Tie Bars

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
501.02(a)	Deleted PM Portland Cement; Limits Slag-Modified Portland Cement to 25% maximum; Changed “ground granulated blast furnace slag” to “slag cement”.
501.02(b)	AHTD Test Method 530 deleted and replaced by AASHTO T 71; compressive strength requirement added.
501.02(e)(3)	Second paragraph detailing air content deleted.
501.02(f)(2)	Changed “ground granulated blast furnace slag” to “slag cement”.
501.02(g)	AASHTO standard changed to ASTM standard.
501.02(h)(1)a	AASHTO standard changed to ASTM standard.
501.02(h)(2)a	Backer rod filler Type 2 changed to Type 3
501.02(h)(2)d	AASHTO standard changed to ASTM standard.
501.02(h)(2)e & f	Type 6 joint sealer eliminated; Type 7 joint sealer renumbered to become Type 6. AASHTO standard changed to ASTM standard.
501.02(i)(1), (2), (4), & (5)	AASHTO standards changed to ASTM standards.
501.03(a)	Paragraph detailing air content deleted from Subsection 501.02(e)(3) inserted into this Subsection. Changed “ground granulated blast furnace slag” to “slag cement”.
501.03(b)	Portland Cement Association “Design and Control of Concrete Mixes” added as procedural source for mix design by Contractor. Changed “ground granulated blast furnace slag” to “slag cement”. Spelling of commercial corrected.
501.05(l)(3)	Added reference to ASTM C 309.
502.02	AASHTO standard changed to ASTM; AASHTO standards updated; certification statement reworded.
504.05	“Type” of Approach Gutters deleted.
509.03	Type 6 joint sealer eliminated.

**CHANGES TO
DIVISION 600
OF THE STANDARD SPECIFICATIONS**

The following Special Provisions and Supplemental Specifications which have been previously approved by the Specifications Committee, and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS-600-1	Water for Vegetation
SS-603-1	Maintenance of Traffic
SS-604-1	Retroreflective Sheeting for Traffic Control Devices in Construction Zones
SS-604-2	Inspection of Traffic Control Devices in Construction Zones
SS-606-1	Pipe Culverts for Side Drains
SS-606-2	Pipe Culverts
SP	Precast Reinforced Concrete Box Culverts
SP	Wattles
SP	Triangular Silt Dikes

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
604.02(a)	Updated FHWA website address.
604.02(b)	Eliminated Type VII sheeting for signs; sheeting requirements for traffic drums and delineators deleted;
Table 604-1	Deleted
Table 604-2	Deleted
Table 604-3	Deleted
604.05(b)(2)	Expanded on process of automatic adjustments of bids if maximum unit price is exceeded.
605.03(d)	Deleted language requiring payment recovery and/or withholding.
606.01	Deleted phrase "...of like cross-sectional shape..." from SS-606-1
607.02	Design certification by PE moved to new subsection, "Design".
607.03	Formerly "Construction Requirements", changed to "Design";
607.03(a)	New subsection on design requirements for LRFD box culverts.
607.03(b)	New subsection on design requirements for cast in place box culverts not designed by LRFD standards.
607.04	Formerly "Method of Measurement and Basis of Payment", changed to "Construction Requirements".
607.05	New subsection # for "Method of Measurement and Basis of Payment".

Spec. Section	Description of Change
609.02(c) & (f)	Updated AASHTO standard; added ASTM standard.
611.02(a)(3)	Changed AASHTO standard to ASTM standard.
611.03(f)	Eliminated references to VHS tape.
611.05	Changed VHS tape to video.
613.02(d)	Changed AASHTO M 298 to ASTM B 695.
617.02(a)(1)	Added “U1” after “AWPA”.
617.02(a)(2)	Updated AASHTO standard.
617.02(b)(3)	Updated AASHTO standard.
618.02(a)	Updated AASHTO standard.
618.02(c)	Changed AASHTO M 298 to ASTM B 695.
618.02(d)	Updated standards and Section referenced.
619.02(a)(1)	Frequencies of acceptance sampling and testing referenced to Subsection 802.06.
620.02(c)	Wildflower seed mixture increased.
620.05(d)	Expanded on process of automatic adjustments of bids if minimum unit price is not met.
621.01(d)	Changed Baled Straw Ditch Checks to Baled Straw Filter Barrier; modified description as needed.
621.01(g)	Removed “...natural drainage channels...” from Diversion Ditch description and added appropriate areas.
621.01(m)	Added more allowable areas for discharge of runoff.
621.02(d)	Changed Baled Straw Ditch Checks to Baled Straw Filter Barrier; Removed word “...advanced...”.
621.03(a)	Removed “...final stabilization of the area has been accomplished...” and added “...the Engineer determines the items are no longer required.”; noted that temporary erosion control items/devices must be removed before the NOT has been submitted.
621.03(e)	Changed baled straw ditch checks to baled straw filter barriers.
621.03(g)	Added sentence about overflow area construction.
621.04(d) & 621.05(d)	Changed Baled Straw Ditch Checks to Baled Straw Filter Barriers.
633.02	Changed AASHTO M 298 to ASTM B 695.
635.03(b)	Provided guidelines for additional control points.
636.03(b)	Provided guidelines for additional control points.
637.02	Corrected spelling of pentachlorophenol.

**CHANGES TO
DIVISION 700
OF THE STANDARD SPECIFICATIONS**

The following Special Provisions and Supplemental Specifications, which have been previously approved by the Specifications Committee and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS-711-1	Concrete Pull Box
SS-712-1	Design and Material Requirements for Span Wire Support Poles
SS-714-1	Design and Material Requirements for Traffic Signal Mast Arms and Poles
SS-715-1	Design and Material Requirements for Traffic Signal Pedestal Poles
SS-718-2	Reflectorized Paint Pavement Markings
SS-719-2	Thermoplastic Pavement Marking Material
SS-720-1	Permanent Pavement Marking Tape
SS-723-1	General Requirements for Signs
SP	Temporary Impact Attenuation Barrier

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
707.02	Updated MUTCD reference.
712.02(b),(d), & (e)	Changed AASHTO M 298 to ASTM B 695.
714.02(b),(d), (e) & (h)	Changed AASHTO M 298 to ASTM B 695.
715.02(b)&(e)	Changed AASHTO M 298 to ASTM B 695.
716.02	Updated materials requirements.
718	Numerous Changes: Eliminated solventborne paint and associated requirements. Updated various standards and specifications throughout.
721.02(c)	Changed requirements of RPM to ASTM D 4280. Eliminated requirements 1-6.
722	Plowable Pavement Marker Section deleted.
723.02(c)	Removed delineators.
724.02	Corrected spelling of Alclad.
728.02	Added Type VIII sheeting. Updated AASHTO standard.

Spec. Section	Description of Change
731.05	Added relocation item.
734.02(b)	Added phrase, "...is non-gating, redirective and..."

**CHANGES TO
DIVISION 800
OF THE STANDARD SPECIFICATIONS**

The following Supplemental Specifications, which have been previously approved by the Specifications Committee and are included in current projects as appropriate, have been incorporated into the Standard Specifications for Highway Construction, Edition of 2014:

SS-804-1	Installation of Dowel Bars and Tie Bars
SS-807-1	Paint Color
SS-821-1	Installation of Dowel Bars and Tie Bars
SP	Driven Steel Piling by Method B
SP	Steel Shell Piles
SP	Transitional Approach Railing
SP	Armored Joint with Neoprene Strip Seal

The following changes have been incorporated into the 2014 Edition, along with the following changes. The location and brief description of the changes are shown below:

Spec. Section	Description of Change
801.10	Corrected spelling of undercut.
802.02(a)	Deleted PM Portland Cement; Limits Slag-Modified Portland Cement to 25% maximum; Changed "ground granulated blast furnace slag" to "slag cement".
802.02(a)	New requirements for alkalis in cement and cementitious material.
802.02(a)	Added moderate heat of hydration (MH) to Type II cement.
802.02(b)	Changed AHTD Test Method 530 to AASHTO T 71 and FA compressive strength.
802.02(e)(3)	Changed chlorides to "intentionally added chlorides or chloride containing compounds as a functional ingredient".
802.02(g)	Changed "ground granulated blast furnace slag" to "slag cement".
802.05(b)	Added Portland Cement Association design procedure.
802.05(c)	Changed Type II cement to Type II (MH).
802.05(e)	Changed "ground granulated blast furnace slag" to "slag cement".
802.14(b)	Reworded third paragraph.

Spec. Section	Description of Change
802.17(a)(1), (3) & (4)	Changed AASHTO M 171 to ASTM C171; added the word “performance” to (3) & (4).
802.17(a)(5)	Changed AASHTO M 148 to ASTM C309.
802.18(d)	Changed ASTM D 224 Type I to ASTM D6830 Class S Type IV.
802.18(e)	Changed AASHTO M 138 to ASTM B152.
802.19(b)(3)	Changed color standard 595 A to 595 B.
802.20(a)	Added sentence, “The use of longitudinal screeds on spans with a horizontal curve is prohibited.”
802.21(a)	Added “...in a line. The use of split pours for multiple units in a prestress line will not be permitted.” to 3 rd paragraph.
802.21(g)	Added “...or as specified,...” to compressive strength requirements.
802.22(a)	Added sentence, “ Shop drawings for prestressed concrete structures or components shall be submitted to the Engineer for review and approval before fabrication begins.”
802.22(f)(1)	Updated title of publication; added “...or permanent marking...”
802.22(f)(2)d & f	Added “...or as specified,...” to compressive strength requirements.
802.22(g)	Updated title of publication.
803.02(a)	Changed ASTM D 260 to ASTM D 260-86 (2001)
804.02(a)	Changed AASHTO M 53 to M 322 Type A. Added “Mill test reports shall be submitted for reinforcing steel.”
804.02(d)	Changed AASHTO M 284 to ASTM A775; changed Annex reference to A2.
804.05	Changed AASHTO M 284 to ASTM A775
804.07	Added reference to LRFD Design Specifications.
805.07(h)	Added “Unless otherwise specified in the plans, the...”
805.08(e)	Added 3 rd paragraph about optional preboring.
805.09(b)(2)	Phrase, “Except as noted herein, piling...” added before 1 st sentence; added SP to end of 1 st paragraph.
805.09(b)(2)	In 3 rd bullet, changed “another” to “a”.
805.09(c)(8)	In 2 nd bullet, changed “another” to “a”.
806.01	Added word “approaches” to 1 st sentence.
806.02(c)	Changed AASHTO M 298 to ASTM B695
806.05(a)	Added “When spans are supported by falsework, railings...” to 1 st sentence.
806.06(a)	Added the word “Metal” to beginning of 1 st sentence.

Spec. Section	Description of Change
806.07(a)	Specified BOP for Metal bridge railing; added preparation of shop drawings.
807.02	Updated AISC Categories
807.05(a)&(b)	Updated ASTM standards.
807.06(a)&(b)	Changed AASHTO standards to ASTM.
807.07	Changed some AASHTO standards to ASTM.
807.08	Added yield strength requirement.
807.14(a)(b)&(c)	Changed AASHTO standards to ASTM.
807.17	Changed AASHTO standard to ASTM.
807.18	Deleted ANSI reference.
807.23(a)&(b)	Deleted ANSI reference.
807.25	Changed AASHTO standard to ASTM.
807.26(a)&(b)	Deleted ANSI references.
807.30	Deleted ANSI reference.
807.32	Deleted ANSI reference.
807.34(b)	Deleted ANSI reference.
807.35	Added phrase, “unless otherwise noted in the plans.”
807.71	Changed AASHTO standard to ASTM.
807.71(d)(3)	Deleted “below” and added “in Table 807-1”.
807.77(a)	Deleted last paragraph.
807.89(a)(2)	Changed AASHTO standard to ASTM.
808.02	In 3 rd paragraph, changed minimum thickness to nominal thickness.
808.04(b)1&2	Changed nominal dimension to plan dimension.
808.07	Added bent/pier number to marking requirement.
809	Major modifications; added pay items Armored Joint with Neoprene Strip Seal & Silicone Joint Sealant and respective requirements.
810	Deleted Section 810, Closed Cell Joint Filler
815.03(g)	Changed Type IV to Type II, Class I.
817.02(a)(4)	Updated AWPA standard and preservatives.
817.02(d)	Changed AASHTO M298 to ASTM B695.
817.02(g)	Changed AASHTO standard to ASTM.
817.04(a)	Updated AWPA standard.
822.08	Changed AASHTO standard to ASTM.

