

Supplemental Specifications to The Standard Specifications for Road and Bridge Construction, 2000 Edition

SUBSECTION:	101.03 DEFINITIONS.
REVISION:	Add the following definition: New - Never been used before.
SUBSECTION:	102.02 CURRENT CAPACITY RATING.
REVISION:	Replace the subsection with the following: 102.02 CURRENT CAPACITY RATING. The Department will determine the current capacity rating of a bidder as the net difference between the bidder's maximum capacity rating as set forth in a Certificate of Eligibility and the total value of uncompleted Contract work, held as a prime contractor, that the bidder is performing for any owner. The Department will determine the value of uncompleted Contract work, held as a prime contractor, that the bidder is performing from the last approved pay estimate for each uncompleted Contract. The Department will not give credit for any work subcontracted. The Department will divide the total Bid Proposal of a joint venture equally among the participants in the joint venture. The Department will divide the total value of the uncompleted work of joint ventured projects equally among the joint venturers in determining a bidder's current capacity rating. The Department will not consider Bid Proposals exceeding the current capacity rating of a bidder
SUBSECTION:	102.04 ISSUANCE OF BID PROPOSAL FORM.
REVISION:	Replace the first sentence with the following: The Department reserves the right to disqualify or refuse to issue a Bid Proposal form to a potential bidder for any of the following reasons:
SUBSECTION:	104.02.02 Overrun and Underrun Formulas.
REVISION:	Replace the last paragraph with the following: When the Contractor submits a completed Bid Proposal for a project containing one or more of the listed items, the Contractor agrees to accept payment for the final quantity at the New Unit Price according to the appropriate formula. The Contractor further agrees that the formulas provide full and complete compensation for any and all unreimbursed expenses, loss of expected reimbursement, loss of anticipated profits, delay, inefficiency, and all other costs.

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SUBSECTION: 109.05.01 Materials on Hand. PART: B) Payments. REVISION: Replace the first two sentences with the following:	The Department may make partial payments for nonflammable and nonperishable materials that the Contractor will be incorporating into Contract items for the project, which conform to the Contract, for which the Contractor has documented and certified the delivered quantities, and which the Contractor has stockpiled and protected as required herein and as required by the Engineer. Upon written request from the Contractor, the Department will make partial payments for up to 95 percent of the Contractor's documented cost of each stockpiled material when the total documented cost of all the units of the material is more than \$10,000.00 or 3 percent of the project's total bid price.
SUBSECTION: 109.06 ACCEPTANCE AND FINAL PAYMENT. REVISION: Replace the second paragraph with the following:	After the Department deducts the total amount of all previous payments, liquidated damages, and any other appropriate deductions, the Department will certify the amount of money due the Contractor for payment to the Commonwealth as required by law. The Contractor's acceptance of payment for the final quantities constitutes as a release to the Commonwealth and the Department.
SUBSECTION: 111.04.02 Net Savings. REVISION: Add the following sentence to the end of the Subsection:	The Department will not include road user's costs when determining net savings.
SUBSECTION: 112.03.10 Removal of Permanent Pavement Markings. REVISION: Replace the Subsection with the following:	Remove all permanent markings and raised pavement markers that do not conform to the traffic operation in use. Remove striping according to Section 713.03.04. Remove raised pavement markers according to Subsection 403.03.02. When the marker's casting will conform to the final marking scheme but does not conform to the current traffic operation, the Department may allow lens removal in place of removing the entire marker. Additionally, when weather would prohibit patching for marker removal within 24 hours, the Department may allow lens removal until such time weather permits patching.

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SUBSECTION:	112.03.11 Temporary Pavement Markings.
PART:	A) Placement and Removal of Temporary Striping.
REVISION:	Add the following sentence to the first paragraph: On interstates and parkways, and roadways with pre-existing 6-inch wide striping, install pavement striping that is 6 inches in width. On other routes, install pavement striping that is 4 inches in width. Ensure that all lines have clean edges with a width tolerance of plus 1/2-inch.
SUBSECTION:	112.04.11 Temporary Signals-Two-Phase.
REVISION:	Add the following sentence: The Department considers a unit to include all components necessary to signalize the intersection.
SUBSECTION:	112.04.12 Temporary Signals-Multi-Phase.
REVISION:	Add the following sentence: The Department considers a unit to include all components necessary to signalize the intersection.
SUBSECTION:	202.03.01 Clearing and Grubbing.
REVISION:	Replace the second sentence of the third paragraph with the following: The Department will allow burning of perishable material when performed according to Regulation 401 KAR 63:005. When conditions or 401 KAR 63:005 prohibit burning, use an alternate approved method.
SUBSECTION:	202.04.01 Clearing and Grubbing.
REVISION:	Add the following sentence: The Department will not consider discrepancies in the plan quantity unless they are directly caused by approved plan changes.
SUBSECTION:	209.03.01 Ditching.
PART:	B) Cleaning Cross Drainage Structures.
REVISION:	Replace with the following: When the proposal includes either the bid item of ditching and shouldering or ditching, clean all drainage structures, except box culverts and structures defined as bridges, of all sediment, drift, and other debris.
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
PART:	I) Thermometers.
REVISION:	Delete the third paragraph.

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SUBSECTION:	402.03.01 Responsibilities.
REVISION:	Add the following: C) Process Control. After the setup period, perform the process control operations of KM 64-426.
SUBSECTION:	402.03.02 Acceptance.
PART:	A) General.
REVISION:	Add the following: Document and report all acceptance tests on the Asphalt Mixtures Acceptance Workbook (AMAW). Submit the completed AMAW for each lot to the Department within 5 working days after the completion of the lot.
SUBSECTION:	402.03.02 Acceptance.
PART:	H) Unsatisfactory Work.
NUMBER:	1. Based on Lab Data.
REVISION:	Change the first sentence to the following: After the setup period, when the Contractor or Department determines any individual sublot pay value would be below 0.90 for AC, AV, or VMA in any QC or QA test, make adjustments and immediately run tests again.
SUBSECTION:	403.03.02 Preparation of Base.
REVISION:	Replace the first sentence of the eighth paragraph with the following: Remove existing Type V markers. Fill the recess and any additional damaged area with compacted asphalt mixture within 24 hours of removal.
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	A) Mixture Composition.
REVISION:	Replace Part A) with the following: A) Mixture Composition. Provide the appropriate mixture composition for the specified asphalt mixture, or substitute a higher aggregate type. When substituting a mixture of a higher ESAL class, provide a mixture of no more than one ESAL class higher than the specified asphalt mixture. Conform to the gradation requirements of AASHTO MP2 for the Superpave mixture type the Contract specifies. Unless the Engineer authorizes otherwise in writing, use the same type and source of ingredient aggregates and asphalt binder throughout the entire project for each type of mixture. For asphalt surface courses requiring polish-resistant coarse aggregate, limit the portion of non-polish-resistant fine aggregate retained on a No. 4 sieve to 5 percent of the total combined aggregates.

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Revision Continued	When using a porous aggregate, increase the asphalt binder content (AC) as needed for asphalt binder absorption by the aggregate. The following aggregate requirements are listed in order of the highest, Type A, to the lowest, Type D: 1) Type A. Provide 100 percent of the coarse aggregate Class A sources. Ensure that 20 percent of the total combined aggregate is polish-resistant fine aggregate. 2) Type B. Select either of the 2 following options: a) Provide 100 percent of the coarse aggregate from Class B sources. b) Provide a 50/50% coarse aggregate blend containing any Class A polish resistant-aggregate except those identified as "Not Permitted as the polish-resistant portion of Class B blends." Submit all Class B blends to the Department for review. For Option a) or b) above, ensure that 20 percent or more of the total combined aggregate is polish-resistant fine aggregate. 3) Type C. Ensure that 40 percent or more of the total combined aggregate is polish-resistant; Class A coarse, fine, or combination. 4) Type D. No restriction on aggregate type.
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	B) Moisture Content of Mix
REVISION:	Replace the third sentence with the following: When moisture contents are 0.10 percent or greater, adjust the AC determination made on plant-produced mixture to reflect the actual AC as KM 64-434 directs.
SUBSECTION:	403.03.03 Preparation of Mixture.
PART:	C) Mix Design Criteria.
REVISION:	Add the following after the first sentence: The Department will allow ESAL Class 1 mixtures to pass through the restricted zone.
SUBSECTION:	407.02.02 Aggregate.
REVISION:	Change Sieve Size No. 30 to read Sieve Size No. 50.
SUBSECTION:	408.04.02 Mobilization for Asphalt Pavement Milling and Texturing.
REVISION:	Add the following: For group contracts, the Department will measure the quantity for each project (subsection) that has a bid item for Mobilization for Asphalt Pavement Milling and Texturing.

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SUBSECTION: 409.03.02 Preparation of Mixture.
PART: A) Mix Requirements.
REVISION: Add the following after the first sentence:

Conform to the following guidelines to select the appropriate grade of virgin asphalt binder to blend with the RAP.

- 1)When using 15 percent or less RAP in the mixture, select the same performance-graded (PG) binder as specified in the mixture's bid item. Do not make a grade adjustment to compensate for the stiffness of the asphalt binder in the RAP.
- 2)When using 16 to 25 percent RAP in the mixture, select one grade lower for the high temperature than the grade specified in the mixture's bid item.
- 3)When using 26 percent or more RAP in the mixture, select the binder grade for the virgin asphalt binder according to KM 64-427.

SUBSECTION: 410.05 PAYMENT.
REVISION: Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules:

RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED GREATER THAN 45 MPH

Rideability Index	Pay Value ⁽¹⁾
4.15 or higher	+0.15
4.10 to 4.14	+0.10
4.05 to 4.09	+0.05
3.70 to 4.04	0.00
3.60 to 3.69	-0.05
3.50 to 3.59	-0.10
3.45 to 3.49	-0.15
3.44 or lower	Corrective work or replacement required

RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED 45 MPH OR LESS

Rideability Index	Pay Value ⁽¹⁾
4.15 or higher	+0.15
4.10 to 4.14	+0.10
4.05 to 4.09	+0.05
3.45 to 4.04	0.00
3.44 or lower	Corrective work or replacement required

⁽¹⁾ The Department will not apply a positive pay value for corrective work other than removal and replacement to achieve the RI.

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SUBSECTION:	501.03.05 Weather Limitations and Protection.																												
REVISION:	Replace the first sentence of the sixth paragraph with the following: Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature.																												
SUBSECTION:	501.05 PAYMENT.																												
REVISION:	Replace the RIDE QUALITY ADJUSTMENT SCHEDULE with the following 2 schedules: RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED GREATER THAN 45 MPH <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: left;">Rideability Index</td><td style="text-align: right;">Pay Value⁽¹⁾</td></tr> <tr> <td>4.15 or higher</td><td style="text-align: right;">+0.03</td></tr> <tr> <td>4.10 to 4.14</td><td style="text-align: right;">+0.02</td></tr> <tr> <td>4.05 to 4.09</td><td style="text-align: right;">+0.01</td></tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: left;">Average for PI (inches per mile)⁽²⁾</td><td style="text-align: right;">Pay Value</td></tr> <tr> <td>8 or less</td><td style="text-align: right;">0.00</td></tr> <tr> <td>over 8, up to 9</td><td style="text-align: right;">-0.02</td></tr> <tr> <td>over 9, up to 10</td><td style="text-align: right;">-0.05</td></tr> <tr> <td>over 10, up to 12</td><td style="text-align: right;">-0.08</td></tr> <tr> <td>over 12</td><td style="text-align: right;">Corrective work required</td></tr> </table> RIDE QUALITY ADJUSTMENT SCHEDULE FOR ROADS POSTED 45 MPH OR LESS <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: left;">Rideability Index</td><td style="text-align: right;">Pay Value⁽¹⁾</td></tr> <tr> <td>4.15 or higher</td><td style="text-align: right;">+0.03</td></tr> <tr> <td>4.10 to 4.14</td><td style="text-align: right;">+0.02</td></tr> <tr> <td>4.05 to 4.09</td><td style="text-align: right;">+0.01</td></tr> </table> ⁽¹⁾ Contractor may correct areas to achieve a positive adjustment. The Department will perform additional requested testing and retesting for corrective work at a cost of \$150.00 per lane mile. The Department will deduct charges for requested additional testing and retesting for corrective work from monies due on the Contract. ⁽²⁾ The Department will apply the unit bid price adjustment to the total area of the 1,000-foot section of the traffic lane represented by the Profile Index. The Department will not make payment in excess of 50 percent for any main line	Rideability Index	Pay Value⁽¹⁾	4.15 or higher	+0.03	4.10 to 4.14	+0.02	4.05 to 4.09	+0.01	Average for PI (inches per mile)⁽²⁾	Pay Value	8 or less	0.00	over 8, up to 9	-0.02	over 9, up to 10	-0.05	over 10, up to 12	-0.08	over 12	Corrective work required	Rideability Index	Pay Value⁽¹⁾	4.15 or higher	+0.03	4.10 to 4.14	+0.02	4.05 to 4.09	+0.01
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Revision Continued	<i>pavement that has an average Profile Index in excess of 12 inches per mile until the Contractor completes the corrective work and the Department reprofiles and verifies that the average Profile Index has been reduced to 12 inches per mile or less.</i>
SUBSECTION: REVISION:	503.03.09 Ride Quality. Replace item 4) with the following: Achieve a RI of 3.80 or greater for each traffic lane with no individual one-mile section having a RI of less than 3.60.
SUBSECTION: REVISION:	506.03.01 Header Curb, Valley Gutter, and Curb and Gutter (Combination). In the second sentence of the third paragraph replace the Subsection reference 601.03.12 with 501.02.10. In the second sentence of the sixth paragraph replace the Subsection reference 601.03.16 with 501.03.17 D).
SUBSECTION: PART: NUMBER: REVISION:	601.02.13 Forms. F) Stay-In-Place Metal Forms. 1) Forms and Supports. Replace ASTM A 446 with ASTM A 653. Replace ASTM A 525 with ASTM A 924.
SUBSECTION: REVISION:	601.03 CONSTRUCTION. Add the following: Conduct a prepour meeting whenever the work will involve placing bridge slab concrete, concrete pumping, or trial batches. The Engineer will facilitate the meeting to discuss items such as timing of truck delivery, target air content and slump of delivered concrete, minimizing air content and slump loss through the pump, sampling location and procedures, and other items as appropriate. Attendance is required by the Contractor, concrete supplier, pump contractor (when pumping is involved), and jobsite inspector.
SUBSECTION: PART: TABLE: REVISION:	601.03.03 Proportioning and Requirements. A) Concrete Ingredient Proportions and Requirements for Various Classes of Concrete For Class AAA-HPC used for highway bridge superstructure applications, ensure the cementitious content consists of 508 pounds cement, 137 pounds fly ash, and 41 pounds microsilica.
SUBSECTION: PART: NUMBER: REVISION:	601.03.03 Proportioning and Requirements. B) Mortar, Grout, and Flowable Fill. 5) Flowable Fill. Replace with the following: 5) Flowable Fill. Use flowable fill consisting of a mixture of cement, sand, fly ash, water, and other materials the

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Revision Continued	Engineer approves. Contrary to Section 844, do not allow the loss on ignition for Class F fly ash to exceed 12 percent. Ensure that the concrete producer certifies mix proportions for flowable fill as follows: a) Flowable Fill for Pipe Backfill. Proportion as follows, per cubic yard batch: <table> <tr> <td>Cement</td><td>30 pounds</td></tr> <tr> <td>Fly Ash, Class F</td><td>300 pounds</td></tr> <tr> <td>Natural Sand (S.S.D.)</td><td>3,000 pounds</td></tr> <tr> <td>Water (Maximum)</td><td>550 pounds</td></tr> </table> b) Flowable Fill for Bridge End Bent Backfill. Proportion as follows, per cubic yard batch: <table> <tr> <td>Cement</td><td>100 pounds</td></tr> <tr> <td>Fly Ash, Class F or Class C</td><td>300 pounds</td></tr> <tr> <td>Natural or Crushed Sand (S.S.D.)</td><td>2,950 pounds</td></tr> <tr> <td>Water (Maximum)</td><td>550 pounds</td></tr> </table> Alternate Mixtures for Flowable Fill. The Department may approve other mixtures. The mixtures may include other proportions of the above materials, Class C fly ash, chemical admixtures, or aggregate not conforming to the Standard Specifications. When deviating from the above specified proportions and materials, make and test a trial batch of at least 4 cubic yards to ensure that the mix will have flow and density characteristics suited for the intended use. Use the ingredients, proportions, and equipment intended for the project, including batching, mixing, and delivery. The Department will observe all phases of the trial batching for approval. Ensure the proposed mixture is proportioned to obtain a minimum flow of 8 inches when tested with a 3 by 6 inch open ended cylinder modified flow test and meets applicable strength requirements. Ensure additional requirements, as stated below, for time of bleeding and time to achieve firmness are met when appropriate for application. Submit the proposed mixture proportions and appropriate test results to the Engineer for review and approval. When the mixture is proprietary, comply with Subsection 107.05. The Department will cast, cure, and break test cylinders from the flowable fill trial batch according to ASTM D 4832. Prior to completion of the 28 day curing period, transport the test cylinders to the MCL for compressive strength testing. Obtain an average compressive strength of 50 to 100 psi at 28 days for application as pipe backfill or minimum compressive strength of 250 psi at 28 days for application as bridge end bent backfill.	Cement	30 pounds	Fly Ash, Class F	300 pounds	Natural Sand (S.S.D.)	3,000 pounds	Water (Maximum)	550 pounds	Cement	100 pounds	Fly Ash, Class F or Class C	300 pounds	Natural or Crushed Sand (S.S.D.)	2,950 pounds	Water (Maximum)	550 pounds
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Revision Continued	For applications requiring early opening to traffic or placement of pavement as soon as possible, provide a mixture that conforms to the following general guidelines: 1) Mixture bleeds freely within 10 minutes. 2) Require the mixture to support a 150-pound person within 3 hours. The Engineer will approve flowable fill, delivered to the project, based on certifications indicating proper proportions for the intended use.
SUBSECTION: PART: NUMBER: REVISION:	601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP Cement or Mineral Admixtures. 2) Mineral Admixtures. Add the following after the first sentence: Reduction of the total cement content by a combination of any mineral admixtures will be allowed, up to a maximum of 30 percent.
SUBSECTION: PART: NUMBER: LETTER: REVISION:	601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP Cement or Mineral Admixtures. 2) Mineral Admixtures. b) Ground Granulated Blast Furnace Slag (GGBF Slag). Replace the first sentence with the following: When added as a separate ingredient, use Grade 120 or Grade 100 GGBF slag to reduce the quantity of cement.
SUBSECTION: PART: REVISION:	601.03.04 Classes and Primary Uses. P) Non-Shrink Grout. Replace with the following: Bonding and sealing for post-tensioning, tie-back rods and bolts, and box beams.
SUBSECTION: PART: REVISION:	601.03.09 Placing Concrete. D) Weather Limitations. Replace the first sentence of the second paragraph with the following: Maintain the temperature of the mixture at or below 90 °F during placement. Unless the Engineer determines that safety concerns or other considerations prohibit a shutdown, cease concrete production when the mixture exceeds 90 °F until adequate methods are in place to reduce or maintain the mixture temperature.

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SUBSECTION:	601.03.15 Opening to Traffic.
TABLE:	Required Time in Calendar Days Before Applying Significant Loads on Concrete Structures
REVISION:	Change the title of the seventh item to the following: Caps on Concrete Pile Bents, Open Column Abutments, and Piers
SUBSECTION:	603.04.02 Bridges and Culverts.
REVISION:	Replace the subsection title with the following: Bridges, Culverts, and Retaining Walls.
SUBSECTION:	606.02 MATERIALS AND EQUIPMENT.
REVISION:	Add the following subsection: 606.02.11 Coarse Aggregate. Conform to Section 805, size 9-M.
SUBSECTION:	607.03.23 Cleaning and Painting.
PART:	E) Application of Field Coatings.
REVISION:	Replace the fifth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.
SUBSECTION:	611.03.01 Transportation and Handling.
REVISION:	Replace the first sentence with the following: Handle and store the precast units so that flexural stresses are not induced until the concrete age is 7 days or attains a compressive strength of 3,000 psi.
SUBSECTION:	611.03.02 Precast Unit Construction.
REVISION:	Replace the first sentence and Part 1) with the following: Construct units according to ASTM C 789, ASTM C 850, and Section 605 with the following exceptions and additions: 1) A water meter is not required if using dry-cast methods.
SUBSECTION:	613.05 PAYMENT.
REVISION:	Replace 8160 Structure Excavation with the following: 2203 Structure Excavation Unclassified
SUBSECTION:	614.03.06 Paint Application.
REVISION:	Replace the first sentence of the fourth paragraph with the following: Paint from the top of the structure toward the bottom, and proceed by sections, bays, or parts of the work, unless the Contract or Engineer directs otherwise.

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SUBSECTION:	701.02.04 Bedding Materials.
REVISION:	Replace the first sentence with the following: Use No. 8 aggregate, No. 9 aggregate, or a fine aggregate conforming to Subsection 804.08 for bedding material.
SUBSECTION:	701.03.05 Joints.
PART:	B) Corrugated Metal Pipe.
REVISION:	Replace with the following: Construct joints using a band with annular corrugations and a bolt, bar and strap connector. Use a minimum nominal band width of 20 inches. Ensure the band is manufactured from the same base material as the pipe it is joining. The Department may allow dimple band connections for field cut pipe. Install the connecting bands according to the manufacturer's written recommendations.
SUBSECTION:	703.02.09 Geotextile Fabric.
REVISION:	Replace Section reference 845 with 843.
SECTION:	713 PERMANENT PAVEMENT STRIPING.
REVISION:	Add the following subsection: 713.03.06 Acceptance of Non-Specification Markings. If corrective work has been performed and the work meets all requirements except for minimum retroreflectivity, the Department may accept the work according to Subsection 105.04. When the Engineer determines that the markings may be left in place, the Department will accept them at a reduction in the Contract unit bid price according to the Acceptance Pay Schedule. The Engineer may also apply this section when corrective work cannot be performed due to weather. Acceptance Pay Schedule – White 156 to 174 mcd/lux/square meter – 50% pay 138 to 155 mcd/lux/square meter – 25% pay 120 to 137 mcd/lux/square meter – 0% pay < 120 mcd/lux/square meter – unacceptable Acceptance Pay Schedule – Yellow 126 to 149 mcd/lux/square meter – 50% pay 103 to 125 mcd/lux/square meter – 25% pay 80 to 102 mcd/lux/square meter – 0% pay < 80 mcd/lux/square meter – unacceptable

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SUBSECTION:	714.05 PAYMENT.
REVISION:	Add the following: The Department will pay 75 percent of the unit bid price upon completion of the work. Provided the minimum retroreflectivity requirements are met after the 180-day proving period, the Department will pay the remaining 25 percent.
SUBSECTION:	801.01 REQUIREMENTS.
REVISION:	Add the following to the end of the first paragraph: Foreign cements are added to the approved list based upon testing by the sponsoring approved cement mill laboratory along with submittal and approval of verification samples.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates.
PART:	B) Sand Equivalent.
REVISION:	Replace the third paragraph with the following: The Department may waive the sand equivalent requirement provided the portion of the combined aggregate passing the No. 40 sieve is non-plastic according to AASHTO T 90.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates KM.
TABLE:	Superpave Fine Aggregate Consensus Property Requirements.
REVISION:	For ESAL Class 1, Replace both dashes with 40.
SUBSECTION:	805.03.01 Soundness and Shale.
PART:	AGGREGATE USE/Portland Cement Concrete Mixtures.
REVISION:	Replace the title use "Class AA, Class S and Bridge Deck Overlays" with "Aggregate for Bridge Decks, Bridge Deck Overlays, and Bridge Barrier Walls"
SECTION:	805 COARSE AGGREGATES.
TABLE:	Sizes of Coarse Aggregates.
REVISION:	Replace KM 64-420 in footnote (1) with KM 64-620.
SECTION:	805 COARSE AGGREGATES.
TABLE:	Aggregates Size Use.
REVISION:	For Cement Concrete Structures and Incidental Construction add 9-M for Overlays to the sizes to be used column.
SUBSECTION:	810.04.01 Coating Requirements.
REVISION:	In the second paragraph, replace AASHTO M 246 with AASHTO M 245 and delete the last 2 sentences.
SUBSECTION:	810.04.02 Inlet and Outlet Requirements.
REVISION:	Replace the last sentence with the following: When using 14 gauge or thinner sheets to fabricate helical lockseam or welded seam pipe, reroll the inlet and outlet end with at least 4 complete corrugations. Match mark all pipe that is 54 inches or larger in diameter.
SUBSECTION:	810.04.05 Slotted Drain Pipe.
PART:	A) Type I.
REVISION:	Replace bounded with banded.

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SUBSECTION:	814.05.02 Composite Plastic.
REVISION:	Add the following sentence to the first paragraph: Rubber is an acceptable alternate to plastic in their composition.
SUBSECTION:	821.03 SAMPLING AND TESTING.
REVISION:	In the third sentence of the first paragraph, replace calendar days with working days.
SUBSECTION:	835.06 TRAFFIC LOOP ENCAPSULANT.
REVISION:	Replace the 24 – 40 Hardness (Indentation) property requirement with 35 – 65.
SUBSECTION:	836.01 TYPE I TAPE.
PART:	E) Material Warranty.
REVISION:	In the second paragraph, replace KM 201 with KM 64-202 or KM 64-203.
SUBSECTION:	837.01 PRE-MIX BEADS.
REVISION:	Replace the subsection with the following: Supply the thermoplastic material with pre-mix beads. The gradation and coating are at the manufacturer's discretion. Include the selected gradation on the product certification so that the Department may analyze the verification samples.
SUBSECTION:	837.02 DROP ON BEADS.
REVISION:	Replace the subsection with the following: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
SUBSECTION:	840.01.06 Reflectivity.
REVISION:	Replace the first sentence with the following: Provide the following specific reflectivity of the reflective surface at 0.2 degrees divergence angle when the incident light is parallel to the base of the marker:
SECTION:	842.02 APPROVAL.
TABLE:	Paint Composition.
REVISION:	Replace the 0.96 Contrast Ratio for yellow with 0.97. Replace the 0.96 Contrast Ratio for white with 0.99. Replace the 10 mils wft. test method for Contrast Ratio with 15 mils wft.
SECTION:	842.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION PAVEMENT STRIPING PAINT.
TABLE:	Pavement Striping Paint Reduction Schedule.
REVISION:	Replace the 20% Reduction Rate for color with 10%. Replace the 20% Reduction Rate for TiO ₂ with 10%. Add a Reduction Rate of 10% for Contrast Ratio.