

**Supplemental Specifications to The Standard Specifications
for Road and Bridge Construction, 2004 Edition**
(Effective with the November 16, 2007 Letting)

SUBSECTION:	105.07 COOPERATION WITH UTILITIES.
REVISION:	In the last paragraph, replace “KRS 367 Sections 1 through 10” with “KRS 367.4901 through 367.4917”
SUBSECTION:	107.11 Use of Explosives.
REVISION:	Replace “Department of Mines and Minerals” with “Office of Mine Safety and Licensing”.
SUBSECTION:	108.01 SUBCONTRACTING OF CONTRACT.
REVISION:	Replace the second and third sentence of the first paragraph with the following: When the Engineer gives such consent, the Engineer will allow the Contractor to subcontract a portion, but the Contractor must perform with his own organization work amounting to no less than 30 percent of the total Contract cost. The Department will not allow any subcontractor to exceed the percentage to be performed by the Contractor and will require the Contractor to maintain a supervisory role over the entire project.
SUBSECTION:	109.07 PRICE ADJUSTMENT.
REVISION:	Replace the section with the following: 109.07 PRICE ADJUSTMENTS. Due to the fluctuating costs of petroleum products, the Department will adjust the compensation of specified liquid asphalt items and diesel fuel in contracts when contract quantity thresholds are met. 109.07.01 Liquid Asphalt. The Department will compare the Kentucky Average Price Index (KAPI), for the month that the Contract is let, to the index for the month that the Contractor places the material on the project to determine the percent change. When the original contract quantity for asphalt items is equal to or greater than 3,000 tons and when the average price of the liquid asphalt products increases or decreases more than 5 percent, the Department will adjust the Contractor's compensation. The KAPI is calculated monthly using the average price, per ton at the terminal, from the active suppliers of liquid asphalt. <u>Adjustable Contract Items:</u> • Asphalt Curing Seal • Asphalt Material for Prime • Asphalt Base, All Classes • Asphalt Binder • Asphalt Surface, All Classes • Sand Asphalt Surface • Asphalt Open-Graded Surface • Asphalt Seal Coat • Asphalt Mixture for Leveling and Wedging • Drainage Blanket - Type II - Asphalt The Department will determine the price adjustment using the following formulas: <u>When PC is greater than PL</u> Asphalt Price Adjustment = $(Q \times A) / 100 \times PL \times [(PC - PL) / PL - 0.05]$ <u>When PC is less than PL</u> Asphalt Price Adjustment = $(Q \times A) / 100 \times PL \times [(PC - PL) / PL + 0.05]$ Where: Q = Tons of material or mixture placed each month. A = Percent of material or mixture that is asphalt. PL = KAPI for the month that the Contract is let. PC = KAPI for the month that the Contractor places the material or mixture. The job-mix formula for asphalt base, binder, and surface mixtures determines “A”, which is the percent of asphalt. For recycled mixtures, the Department will determine the adjustment for the new asphalt cement only. The Department will consider materials for prime and seal as 100 percent asphalt.

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Revision
Continued

109.07.02 Fuel. The Department will adjust the Contractor's compensation when the average price of diesel fuel increases or decreases more than 5 percent and the original Contract quantity for the item on which the fuel is consumed is equal to or greater than the threshold quantities listed in the following table.

<u>Item</u>	<u>Threshold Quantity</u>	<u>Fuel/Work</u>
Roadway Excavation	10,000 cubic yards	0.25
Embankment-in-Place	10,000 cubic yards	0.25
Borrow Excavation	10,000 cubic yards	0.25
DGA Base or Crushed Stone Base	5,000 tons	0.52
Stabilized Aggregate Base	5,000 tons	0.52
Drainage Blanket, Cement Treated or Untreated	5,000 tons	0.52
Drainage Blanket, Asphalt Treated	5,000 tons	3.00
Crushed Sandstone Base (Cement Treated)	5,000 tons	0.52
Hot-Mixed Asphalt Mixtures for Pavements or Shoulders	3,000 tons ⁽¹⁾	3.00
PCC Pavement, Base, or Shoulders	2,000 square yards ⁽²⁾	0.14

⁽¹⁾Total of all hot mixed asphalt Contract items.

⁽²⁾Total of all JPC pavement, JPC shoulder, and PCC base, Contract items.

The Department will determine the price adjustment using the following formulas:

When PC is greater than PL
Fuel Price Adjustment = $Q \times F \times PL \times [(PC-PL)/PL - 0.05]$

When PC is less than PL
Fuel Price Adjustment = $Q \times F \times PL \times [(PC-PL)/PL + 0.05]$

Where:

Q = Quantity for applicable item placed or performed that month.

F = The fuel to work unit ratio for each applicable item.

PL = Average reseller price of diesel fuel, excluding taxes, discounts, and superfund line items, in the Kentucky region for the month that the Contract is let.

PC = Average reseller price of diesel fuel, excluding taxes, discounts, and superfund line items, in the Kentucky region for the month that the Contractor uses the fuel on the project.

109.07.03 Payments and Deductions. When thresholds are met, the Department will adjust the Contractor's compensation for each eligible pay item, paid or deducted, monthly.

If later price decreases indicate that the Department made an overpayment, the Department will withhold the overpayment from succeeding pay estimates on the project, or the Contractor shall immediately refund the over payment to the Department.

When the Contractor places materials during any month after the month that the Contract time (including all approved time extensions) expires, the Department will use the average price for the month that the Contractor places the material or the average price for the last month of the Contract time; whichever is least.

The Department will not grant a time extension for any overrun in the Contract amount due to payments made according to this section. The Department will not make any additional compensation due to adjustments made according to this section.

The Department will adjust the Contractor's compensation on the following months pay estimate and on the final pay estimate. The Department will make the final adjustment of the Contractor's compensation on the final estimate for the project.

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SUBSECTION:	110.01 MOBILIZATION.
REVISION:	Replace the third paragraph with the following: Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any bids in excess of this amount to 5 percent for bid comparisons. The Department will base the award on the maximum allowable bid of 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for all other items, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts.
SUBSECTION:	110.02 DEMOBILIZATION.
REVISION:	Replace the first sentence of the third paragraph with the following: Do not bid an amount for Demobilization that is less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives.
SUBSECTION:	206.03.03 Compaction.
REVISION:	Replace "KM 64-412" with "KM 64-002"
SUBSECTION:	206.04.01 Embankment-in-Place.
REVISION:	Replace the first sentence of the sixth paragraph with the following: When payment is made for Embankment-in-Place, the Department will make payment for all embankment constructed on the project, including roadway embankment, refill in cuts, and embankment placed in embankment benches.
SUBSECTION:	212.03.03 Permanent Seeding and Protection.
PART:	Replace Parts A) and B) with the following:
REVISION:	A) Seed Mixtures for Permanent Seeding. Seed Mix Type I: 30% Kentucky 31 Tall Fescue (<i>Festuca arundinacea</i>) 20% Creeping Red Fescue (<i>Festuca rubra</i>) 35% Hard Fescue (<i>Festuca</i> (<i>Festuca longifolia</i>) 10% Ryegrass, Perennial (<i>Lolium perenne</i>) 5% White Dutch Clover (<i>Trifolium repens</i>) Seed Mix Type II: 60% Kentucky 31 Tall Fescue (<i>Festuca arundinacea</i>) 20% Ryegrass, Perennial (<i>Lolium perenne</i>) 20% (based on pure live seed, PLS) Little Bluestem (<i>Schizachyrium scoparium</i>) Seed Mix Type III: 40% Kentucky 31 Tall Fescue (<i>Festuca arundinacea</i>) 15% Perennial Ryegrass <i>Lolium perenne</i>) 20% Sericea Lespedeza (<i>Lespedeza cuneata</i>) 25% (based on pure live seed, PLS) Little Bluestem (<i>Schizachyrium scoparium</i>) 1) Permanent Seeding on Slopes 3:1 or Less. Apply seed mix Type I at a minimum application rate of 100 pounds per acre. 2) Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed mix Type II at a minimum application rate of 100 pounds per acre plus a nurse crop of either Cereal Rye or German Foxtail-Millet based on the time of year. During the months of June through August, apply 10 pounds of German Foxtail-Millet (<i>Setaria italica</i>). During the months of September through May, apply 56 pounds of Cereal Rye (<i>Secale cereale</i>). If adjacent to golf courses replace the crown vetch with Kentucky 31 Tall Fescue

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revision continued	3) Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and 12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre plus a nurse crop of either Cereal Rye or German Foxtail-Millet based on the time of year. During the months of June through August, apply 10 pounds of German Foxtail-Millet (<i>Setaria italica</i>). During the months of September through May, apply 56 pounds of Cereal Rye (<i>Secale cereale</i>). If adjacent to crop land or golf course replace the <i>Sericea Lespedeza</i> with Kentucky 31 Tall Fescue. B) Procedures for Permanent Seeding. Include a seeding plan in the Best Management Practices plan (BMP) according to Section 213. Prepare a seedbed and incorporate fertilizer and agricultural limestone as needed. Do not apply dry agricultural Limestone when it may generate a traffic hazard. Remove all rock and dirt clods over 4 inches in diameter from the surface of the seedbed. Unless the Engineer directs otherwise, track all slopes 3:1 or greater. Ensure that tracking is performed up and down and not across. Native Grass seed should be calculated figuring seed on a pure live seed basis (PLS), using the least amount of inert matter available. Seed and mulch to produce a uniform vegetation cover using the seeding rates as indicated to each application. Mulch with clean, weed free straw. Place straw to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. For the periods of March 1 through May 15 and from September 1 through November 1, the Department will allow the option of using hydromulch at minimum rate of 1,500 pounds per acre in place of straw with tackifier. Regardless of materials used, ensure the protective cover holds until seeding is acceptably established according to part G) of this subsection.
SUBSECTION:	213.03.01 Best Management Practices (BMP).
REVISION:	Replace the second and third sentence of the first paragraph with the following: Include erosion control for all off right of way work performed under a Department acquired permit. Ensure that the BMP provides storage for 3,600 cubic feet of water per surface acre disturbed.
SUBSECTION:	213.03.02 Progress Requirements.
REVISION:	Add the following after the first sentence of the third paragraph: Seed and mulch areas at final grade within 14 days. Temporary mulch areas not at final grade if work stops for longer than 21 days. Temporary mulch soil stock piles within 14 days of the last construction activity in that area.
SUBSECTION:	213.03.03 Inspection and Maintenance
REVISION:	Replace both "0.1-inch" references with "0.5-inch". Add the following sentence to the end of the second paragraph: Initiate corrective action within 24 hours of any reported deficiency.
SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	B) Silt Checks.
REVISION:	B) Silt Checks. Use one of the following types: 1) Silt Check Type II - Crushed stone such as cyclopean stone riprap, quarry run stone, or other size material approved by the Engineer, dumped in place and shaped to the configuration required. 2) Silt Check Type III - Blasted or broken rock dumped in place and shaped to the configuration required. Remove and properly dispose of sediment deposited at silt checks as necessary. When no longer needed, remove the silt checks and dispose of surplus materials as excavated materials according to Section 204. Seed and protect the entire area disturbed, as directed. Do not leave silt checks in place after completion of the project unless allowed by the Engineer or specified in the Plans.

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SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	F) Temporary Seeding and Protection.
REVISION:	Replace the first sentence with the following: Apply seed mix Type I at a minimum application rate of 100 pounds per acre plus a nurse crop of either Cereal Rye or German Foxtail-Millet based on the time of year. During the months of June through August, apply 10 pounds of German Foxtail-Millet (<i>Setaria italica</i>). During the months of September through May, apply 56 pounds of Cereal Rye (<i>Secale cereale</i>). Obtain the Engineer's approval for the seed before use.
SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	G) Temporary Mulch.
REVISION:	Replace the last sentence with the following: Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and apply tackifier.
SUBSECTION:	213.04.15 Temporary Silt Ditch.
REVISION:	Replace with the following: The Department will measure the quantity in linear feet.
SUBSECTION:	213.04 MEASUREMENT.
REVISION:	Add the following Subsection: 213.04.24 Clean Temporary Silt Ditch. The Department will measure the quantity in linear feet along the ditch line.
SUBSECTION:	213.05 PAYMENT.
REVISION:	Add the following lines: 20594 Temporary Silt Ditch Linear Foot 20601 Clean Temporary Silt Ditch Linear Foot
SUBSECTION:	303.03.01 Mixture
PART:	C) Cement Treated Mixture.
REVISION:	Delete the "For asphalt pavements" from the second paragraph.
SUBSECTION:	303.03.01 Mixture
PART:	C) Cement Treated Mixture.
REVISION:	Delete requirement "2".
SUBSECTION:	401.02.01 All Asphalt Mixing Plants.
REVISION:	Replace the third paragraph and numbers 1) and 2) with the following: When plants are in operation, the Department will require one computer on the site of operations for the purpose of recording and submitting test data. Ensure the computer is installed with and utilize the following minimum system requirements: Microsoft Office 2003 Professional (full installation).
SUBSECTION:	402.03.02 Acceptance.
PART:	D) Testing Responsibilities.
NUMBER:	4) Density.
REVISION:	Replace the first sentence of the third paragraph with the following: For surface mixtures placed on driving lanes and ramps, furnish 2 cores per subplot to the nearest laboratory facility (Contractor or Department lab) for density determination by the Engineer.
SUBSECTION:	402.03.02 Acceptance.
PART:	H) Unsatisfactory Work.
NUMBER:	1) Based on Lab Data.
REVISION:	Replace the "AASHTO MP2" references in the second paragraph with "AASHTO M 323".
SUBSECTION:	402.04 MEASUREMENT.
REVISION:	Replace the last sentence with the following: The Department will not measure construction of rolled rumble strips or pavement wedge texturing for payment and will consider them incidental to the asphalt mixture.

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SUBSECTION:	402.04.01 Weight.												
REVISION:	Replace first sentence of the second paragraph with the following: The Department will determine the bulk, oven-dry specific gravity for the fine and coarse aggregates according to KM64-605 and AASHTO T 85, respectively.												
SUBSECTION:	402.04.02 Thickness on New Construction.												
REVISION:	Delete the third paragraph and add the following at the end of the subsection: The Department will not measure initial thickness check coring or coring of corrective work for payment and will consider it incidental to the asphalt mixture.												
SUBSECTION:	402.05.02												
PARTS:	Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures Lot Pay Adjustment Schedule, Compaction Option B Mixtures												
REVISION:	Replace the VMA table with the following:												
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2">VMA</th></tr> <tr> <th>Pay Value</th><th>Deviation From Minimum</th></tr> <tr> <td>1.00</td><td>≤ 0.5 below min. VMA</td></tr> <tr> <td>0.95</td><td>0.6-1.0 below min.</td></tr> <tr> <td>0.90⁽²⁾</td><td>1.1-1.5 below min.</td></tr> <tr> <td>⁽¹⁾ (2)</td><td>> 1.5 below min.</td></tr> </table>		VMA		Pay Value	Deviation From Minimum	1.00	≤ 0.5 below min. VMA	0.95	0.6-1.0 below min.	0.90 ⁽²⁾	1.1-1.5 below min.	⁽¹⁾ (2)	> 1.5 below min.
VMA													
Pay Value	Deviation From Minimum												
1.00	≤ 0.5 below min. VMA												
0.95	0.6-1.0 below min.												
0.90 ⁽²⁾	1.1-1.5 below min.												
⁽¹⁾ (2)	> 1.5 below min.												
SUBSECTION:	403.03.03 Preparation of Mixture.												
PART:	A) Mixture Composition.												
REVISION:	Replace the “AASHTO MP2” reference in the first paragraph with “AASHTO M 323”. From the aggregate requirements list, delete 3) Type C.												
SUBSECTION:	403.03.03 Preparation of Mixture.												
PART:	C) Mix Design Criteria.												
REVISION:	Replace the “AASHTO MP2” references with “AASHTO M 323”. Replace the “AASHTO PP28” references in the second paragraph with “AASHTO R 35”.												
SUBSECTION:	403.03.03 Preparation of Mixture.												
PART:	C) Mix Design Criteria.												
NUMBER	1) Preliminary Mix Design.												
REVISION:	Add the following footnote to the table and associate it with the ESAL’s field “<0.3”: * For CL1 ASPH SURF 0.38D PG64-22 only.												
SUBSECTION:	403.03.06 Thickness Tolerances.												
PART:	B) New Construction.												
REVISION:	Replace the first paragraph with the following: Under the Engineer’s supervision, perform coring for thickness checks according to KM 64-420, as soon as practical after completion of all, or a major portion, of the asphalt base. The Engineer will measure the cores. Fill all core holes either with compacted asphalt mixture or non-shrink grout. Complete all remedial overlay work before placing the final course.												

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SUBSECTION: 403.03.08 Rumble Strips.
REVISION: Replace with the following:

403.03.08 Shoulder Rumble Strips and Pavement Wedge Texturing.

A) Shoulder Rumble Strips.

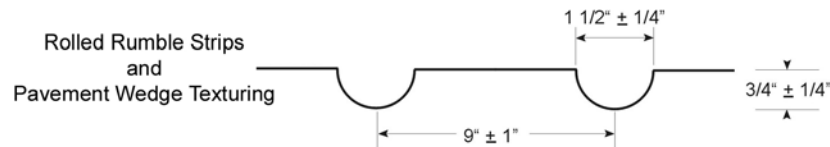
1) Interstates and Parkways. Construct sawed rumble strips on all mainline shoulders to the dimensions shown below. Do not place rumble strips on ramps.

2) Other Roads. Construct rolled rumble strips on shoulders of facilities with posted speed limits greater than 45 MPH. Unless specified in the plans or directed by the Engineer, do not construct rumble strips on facilities with posted speed limits of 45 MPH or less.

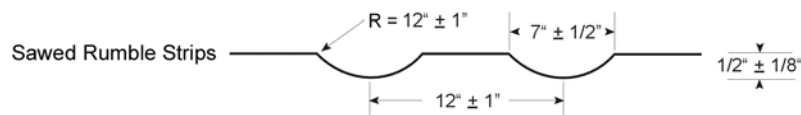
Construct rolled rumble strips on mainline shoulders to the dimensions shown below. On shoulders less than 3 feet wide, shorten the width and distance of the strips as the Engineer directs. Time the rolling operation so indentations are at the specified size and depth without causing unacceptable displacement of the asphalt mat. Correct unacceptable rolled rumble strips by sawing.

B) Pavement Wedge Texturing. Perform texturing on all pavement wedges constructed monolithically with the mainline or constructed using a surface mixture. When furnishing Asphalt Mixture for Pavement Wedge, binder, or a base mixture for the wedge, the Department will not require texturing.

Texture to the dimensions shown below. On wedges less than 3 feet, shorten the length and distance of the texturing as the Engineer directs. Time the rolling operation so indentations are at the specified size and depth without causing unacceptable displacement of the asphalt mat.



Place one foot out from the mainline pavement and to a width of 2 feet.



Place one foot out from the mainline pavement and to a width of 16 inches.

SUBSECTION: 403.04.03 Asphalt Mixtures.
REVISION: Replace the second sentence with the following:

The Department will not measure rolled rumble strips or pavement wedge texturing for payment and will consider them incidental to this bid item.

SUBSECTION: 403.04.07 Sawed Rumble Strips.
REVISION: Add the following subsection:

403.04.07 Sawed Rumble Strips. The Department will measure the quantity in linear feet. When rolled in rumble strips are specified, the Department will not measure sawed rumble strips for payment and will consider them incidental to the asphalt mixture.

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SUBSECTION:	403.05 PAYMENT						
REVISION:	Add the following bid item:						
	<table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>20362</td><td>Shoulder Rumble Strips – Sawed</td><td>Linear Foot</td></tr></table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	20362	Shoulder Rumble Strips – Sawed	Linear Foot
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>					
20362	Shoulder Rumble Strips – Sawed	Linear Foot					
SUBSECTION:	501.03.20 Opening to Public Traffic.						
REVISION:	Delete the last sentence of the first paragraph.						
SUBSECTION:	501.03.21 Tolerance in Pavement Thickness.						
REVISION:	Add the following:						
	Core the pavement as the Engineer directs.						
SUBSECTION:	501.04.06 Thickness.						
REVISION:	Add the following:						
	The Department will not measure coring for payment and will consider it incidental to the concrete pay items.						
SUBSECTION:	502.03 CONSTRUCTION.						
PART:	C) Curing and Protecting Pavement.						
NUMBER:	3)						
REVISION:	Replace the last sentence with the following:						
	The Department will allow permanent removal of the cover when the concrete attains the required opening strength of 3,000 psi.						
SUBSECTION:	502.03 CONSTRUCTION.						
PART:	D) Strength Testing and Opening to Traffic.						
NUMBER:	2) Testing.						
REVISION:	Replace the second paragraph with the following:						
	When the average compressive strength is 3,000 psi, the Department will allow the pavement to be opened to traffic and will test the remaining sets of cylinders at the required age. When the average compressive strength is less than 3,000 psi at the required age, do not open the pavement to traffic until the pavement has been in place for 7 days. The Engineer may accept the pavement based on additional testing.						
SUBSECTION:	503.03.09 Ride Quality.						
REVISION:	Replace parts 5) and 6) with the following:						
	5) Perform corrective work to achieve the required IRI by regrinding the entire width of the traffic lane at areas having a high IRI. The Engineer may exclude pavement areas where grinding alone will not correct deficiency.						
	6) The Department will create a strip chart when the test results show that the IRI is greater than 60 or upon request for lower IRI values.						
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.						
REVISION:	Replace the first sentence with the following:						
	Use a concrete producer from the List of Approved Materials when the quantity of concrete delivered to the project in a plastic condition is 250 cubic yards or more.						
	Ensure that the concrete producer complies with the following requirements:						

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SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	C) Quality Control.
REVISION:	Replace the first paragraph with the following: Take full responsibility for the batch weight calculations and quality control of concrete mixtures at the plant. Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content and unit weight tests, and monitoring the concrete temperature, all to provide concrete to the project conforming to specifications. A Level I concrete technician is responsible for testing production material for slump, entrained air, unit weight and temperature of the mixture. Ensure the technician performs all sampling and testing according to the appropriate Kentucky Methods. Delete the third paragraph.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	F) Records.
REVISION:	Retain all concrete technician records, test results and batch tickets pertaining to concrete produced for a Department project for at least 3 years after formal acceptance of the project. Make all records available to the Engineer and the Contractor on the project for review upon request.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
REVISION:	Replace the last sentence of the first paragraph with the following: Before producing any concrete for the project, submit a proposed mixture design to the Engineer and obtain the District Materials engineer's or the Central Office Material's approval. Submit the mix design electronically using the Concrete Mix Design Spreadsheet located on the Division of Materials Website. Spreadsheets require the minimum system requirements: Microsoft Office 2003 Professional (full installation).
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	1) New Mixture Designs.
REVISION:	Replace the first sentence with the following: Base the proposed mix design on standard Department methods unless the District Materials Engineer, or Central Office Materials approves otherwise.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	1) New Mixture Designs.
LETTER:	b)
REVISION:	Replace the second sentence with the following: The District Materials Engineer or Central Office Materials will provide an average value of the specific gravity aggregate absorption.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	1) New Mixture Designs.
LETTER:	g)
REVISION:	Replace the fourth and fifth sentence with the following: Central Office Materials will observe all phases of the trial batches. Have the producer submit a report containing mix proportions and test results for slump, air content, water/cement ratio, unit weight, and compressive strength for each trial batch to the Engineer for Central Office Materials review and approval.

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SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	2) Approval.
REVISION:	Replace the first sentence with the following: The District Materials Engineer or Central Office Materials will base approval of the mixture design on the following criteria:
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART:	G) Mix Designs.
NUMBER:	3) Changes in Approved Mix Designs.
REVISION:	Replace the first sentence with the following: Do not change the source of supply of the mixture ingredients without the District Materials Engineer's or Central Office Materials written permission. Replace the third sentence with the following: Upon the District Materials Engineer's or Central Office Materials written approval, the Department will allow the use of aggregate from the new source.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
TABLE:	INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE
REVISION:	Under Class of Concrete replace "AAA ⁽⁹⁾ " with "AAA ⁽⁸⁾ "
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
FOOTNOTE:	(6)
REVISION:	Add the following after the first sentence of the first paragraph: For products with voids, the slump may be increased to 7 inches. Replace the "0.3" requirement for Spring and Fall mix designs with "0.37".
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	A) Concrete.
FOOTNOTE:	(7)
REVISION:	Replace with the following: The precast fabricator may increase the slump of Class A concrete to a maximum of 7 inches provided the fabricator uses a high range water reducer (Type F and G) and maximum water/cement ratio of 0.46.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
NUMBER:	3) Water.
REVISION:	Delete the last sentence of the second paragraph.

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SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
NUMBER:	4) Measuring Admixtures.
REVISION:	Replace with the following: 4) Measuring Admixtures. Introduce liquid admixtures into the concrete batch along with, or as part of, the mixing water. Keep air-entraining admixtures completely separate from all other admixtures until introduction into the batch. Maintain and equip dispensing equipment to ensure no chlorides are introduced into any Department mix. Use approved dispensing equipment with a meter, gauge, or scale that can accurately be pre-set for the needed amount of admixture and can consistently deliver quantities of admixture to successive batches at any setting with satisfactory accuracy. The dispensing equipment must be visible to the batch operator if the actual dispensed amounts are not recorded on the computer batch ticket. Ensure admixture dispensers are inspected, calibrated and certified every 6 months. The Department may allow admixtures to be added, to the truck, at the project site provided the Engineer's approval is obtained first.
SUBSECTION:	601.03.04 Classes and Primary Uses.
REVISION:	Add the following part: R) Dry Cast. Precast units.
SUBSECTION:	601.03.05 Admixtures.
REVISION:	Replace the last sentence of the fourth paragraph with the following: Store admixtures where the liquid temperatures can be maintained between 32 and 110 °F.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	D) Weather Limitations and Protection.
REVISION:	Delete the last sentence of paragraph two.
SUBSECTION:	605.03 CONSTRUCTION.
REVISION:	Insert the following sentence after the first sentence: Ensure all non-composite box beam concrete contains an approved corrosion inhibitor from the List of Approved Materials.
SUBSECTION:	605.03.03 Casting.
REVISION:	Delete the first sentence in the first paragraph. Add the following after the first sentence of the third paragraph: Do not vibrate Self-Consolidating Concrete (SCC).
SUBSECTION:	605.03.04 Tack welding.
REVISION:	Replace the first sentence with the following: When tack welding steel reinforcement, use ASTM A 706 steel and conform to the following conditions.
SUBSECTION:	605.03.04 Tack Welding.
NUMBER:	3)
REVISION:	Replace the first sentence with the following: Tack weld only at intersections of bars except do not tack weld in any bend or within 2 bar diameters of a bend.
SUBSECTION:	605.03.04 Tack Welding.
NUMBER:	5)
REVISION:	Replace the last sentence with the following: Each sample must meet the minimum requirement for elongation, ductility, tensile and yield strength of the bar stock.

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SUBSECTION:	605.03.04 Tack Welding.
NUMBER:	6)
REVISION:	Delete the last sentence.
SUBSECTION:	605.03.04 Tack Welding.
REVISION:	Change footnote "(4) (d)" to "(5)"
SUBSECTION:	605.03.07 Removal of Forms and Surface Finish.
REVISION:	Add the following sentence before the last sentence of the paragraph: Finish dry cast products according to the Precast/Prestressed Concrete Manual.
SUBSECTION:	611.02.01 Concrete.
REVISION:	Replace with the following: Conform to Subsections 601.02 and 601.03 and the Precast/Prestress Concrete Manual.
SUBSECTION:	611.03.02 Precast Unit Construction.
REVISION:	Replace "AASHTO C 1433" with "ASTM C 1433"
SUBSECTION:	611.03.02 Precast Unit Construction.
NUMBER:	2)
REVISION:	Replace with the paragraph with the following: Mark all box culverts sections with the following information on the inside top of each section with letters no less than 2 inches high: a) Span, rise, maximum and minimum design earth cover, and KY Table 3. b) Date of manufacture. c) Name and trademark of the manufacturer. For entrance and exit box sections, indent the required information. Mark interior sections by indenting or with waterproof paint.
SUBSECTION:	701.02.05 Backfill Materials.
PART:	A) Granular Backfill.
NUMBER:	1)
REVISION:	Remove "A2" from the list of acceptable materials.
SUBSECTION:	701.03.03 Pipe Bedding.
REVISION:	Replace with the following: 701.03.03 Pipe Bedding. A) Reinforced Concrete Pipe. Construct bedding according to the Standard Drawings and this section. 1) Type 1 Installation. When working on a rock foundation, place bedding to a depth of 6 inches or equal to $B_c/12$, the pipe diameter in inches divided by 12, whichever is greater. For all other foundations, place a minimum of 4 inches of bedding. Shape the bedding to conform to the invert shape throughout the entire width and length of the proposed structure. Compact the bedding, but leave the center third of the pipe diameter ($B_c/3$) uncompacted. Place and compact additional bedding material in lifts 6 inches or less to an elevation of 0.30 the culvert diameter. 2) Type 4 Installation. When working on a rock foundation, place bedding to a depth of 6 inches or equal to $B_c/12$, the pipe diameter in inches divided by 12, whichever is greater. For all other foundations, place a minimum of 4 inches of bedding. B) Corrugated Metal, Thermoplastic, and Structural Plate Pipe. Place and compact bedding to provide 4 inches of bedding below the outside invert of the pipe after shaping. Shape the bedding to conform to the invert shape throughout the entire width and length of the proposed structure. Place and compact additional bedding material in lifts 6 inches or less to an elevation of 0.30 the culvert diameter.

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SUBSECTION:	701.03.06 Initial Backfill.
PART:	A) Reinforced Concrete
REVISION:	Replace with the following: A) Reinforced Concrete Pipe. 1) Type 1 Installation. When the top of the pipe is not within one pipe diameter of the subgrade, backfill with granular backfill, additional bedding material, or flowable fill from the top of the bedding to an elevation equal to 1/2 the pipe diameter, and either granular backfill, flowable fill, or embankment material in 6-inch lifts to an elevation of one-foot above the pipe. 2) Type 4 Installation. Backfill from the top of the bedding with granular backfill, flowable fill, or embankment material in 6-inch lifts to an elevation of one-foot above the pipe. The Department will allow Type 4 installations for median drains and pipe installations located 35 feet or more from the edge of shoulder, back of curb, or any paved surface.
SUBSECTION:	701.05 PAYMENT.
REVISION:	Replace bid item "2599 Fabric-Geotextile, Type IV Square Yard" with "21433ES214 Fabric-Geotextile, Type IV for Pipe Square Yard ⁽²⁾ " Replace foot note "*** The unit bid price is \$2.00 per square yard for Geotextile Fabric, Type III" with " ⁽²⁾ The unit price is \$2.00 per square yard for Fabric-Geotextile, Type IV for Pipe"
SUBSECTION:	710.02.15 Plastic Adjusting Rings.
REVISION:	Replace this section with: 710.02.15 Plastic or Rubber Adjusting Rings. Provide plastic or rubber adjusting rings that are on the Department's List of Approved Materials.
SUBSECTION:	710.03.03 Adjusted Small Drainage Structures.
REVISION:	Replace the last sentence of the first paragraph: For plastic or rubber adjusting rings, install and seal according to the manufacturer's recommendations.
SUBSECTION:	711.02 MATERIALS.
REVISION:	Replace with the following: Conform to the Contract requirements.
SUBSECTION:	713.03 CONSTRUCTION.
REVISION:	Add the following after the third paragraph: Offset longitudinal lines at least 2 inches from longitudinal pavement construction joints. Offset longitudinal lane lines on multi-lane highways 2 inches towards the median.
SUBSECTION:	714.03.06 Proving Period for Durable Markings.
PART:	B) Failure.
REVISION:	Replace the first sentence with the following: During the proving period, the Department will consider markings defective when the retroreflectivity falls below the minimum required or the material fails to meet the other requirements of A) above. Additionally, when more than 10 percent of any one-mile section or individual gore area is defective, the Department will consider the entire section defective.
SUBSECTION:	716.03.08 Testing.
REVISION:	Replace "10 megohms" with "100 megohms"
SUBSECTION:	721.03 CONSTRUCTION.
REVISION:	Replace the third paragraph with the following: Install fence 18 inches inside the right-of-way line or in other locations specifically indicated.
SUBSECTION:	723.03 CONSTRUCTION.
REVISION:	Replace the first sentence of the fourth paragraph with the following: Set right-of-way markers within 12 inches of the right-of-way line.

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SUBSECTION:	724.02.01 Plants.
REVISION:	Replace the reference “American Association of Nurserymen” with “American Nursery and Landscape Association”.
SUBSECTION:	801.01 REQUIREMENTS.
REVISION:	Add the following sentence after the third sentence of the first paragraph: Mills must request and be approved by the Department to supply cement with an SO ₃ content above the value in Table 1 of ASTM C 150.
SUBSECTION:	804.01.03 Conglomerate Sand.
REVISION:	Replace second sentence of the paragraph with the following: Conglomerate sand may include some material which has been produced by crushing larger pieces of the parent material.
SUBSECTION:	804.02 Approval.
REVISION:	Replace first sentence of the second paragraph with the following: The Department will consider a source for inclusion on the Aggregate Source List when the aggregate producer complies with KM 64-608 and provides the following:
SUBSECTION:	804.03 Concrete.
REVISION:	Second sentence in first paragraph should be a separate paragraph immediately following the first and should read as follows: Provide natural, crushed, or conglomerate sand. The Department will allow any combination of natural, crushed, or conglomerate sand when the combination is achieved in the concrete plant weigh hopper. The Engineer may allow other sands. Use natural or conglomerate sands as fine aggregates in concrete intended as a wearing surface for traffic. Conform to the following:
SUBSECTION:	804.04.03 Polish-Resistant Aggregate.
REVISION:	Add the following paragraph: Provide a signed certification from the aggregate producer for the manufactured polish-resistant fine aggregate stating that the aggregate is supplied from the approved parent material as found on the Department’s List of Approved Materials, Polish-Resistant Aggregate Source List and Guidelines on the Division of Materials’ webpage.
SUBSECTION:	804.04.04 Requirements for Combined Aggregates.
PART:	D) Absorption.
REVISION:	Delete the first sentence and replace the second sentence with the following: Provide total combined fine aggregates having a water absorption of no more than 4.0 percent.
SUBSECTION:	804.11 Sampling and Testing.
REVISION:	For Absorption (Fine Aggregate), replace method “AASHTO T 84” with “KM 64-605”
SUBSECTION:	805.02 Approval.
REVISION:	Replace first sentence of the second paragraph with the following: The Department will consider a source for inclusion on the Aggregate Source List when the aggregate producer complies with KM 64-608 and provides the following:

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SUBSECTION:	805.04.01 JPC Base, JPC Pavement, JPC Shoulders, and Concrete for Bridge Decks.
REVISION:	Replace the subsection heading and first sentence with the following: 805.04.01 JPC Base, JPC Pavement, JPC Shoulders, Concrete for Bridge Decks, and Precast Products. Add the following paragraph: Provide a signed certification from the aggregate producer for the approved freeze-thaw coarse aggregate stating that the aggregate is supplied from the approved parent material as found on the Department's List of Approved Materials and Concrete Aggregate Restriction List.
SUBSECTION:	805.04.01 JPC Base, JPC Shoulders, and Concrete for Bridge Decks.
PART:	3)
REVISION:	Replace the "tests" with "test" in the last sentence.
SUBSECTION:	805.05.05 Polish-Resistant Aggregate.
REVISION:	Add the following paragraph: Provide a signed certification from the aggregate producer for the manufactured polish-resistant coarse aggregate stating that the aggregate is supplied from the approved parent material as found on the Department's List of Approved Materials, Polish-Resistant Aggregate Source List and Guidelines on the Division of Materials' webpage.
SUBSECTION:	805.13.01 Cyclopean Stone Riprap and Channel Lining Class III.
REVISION:	Replace the subsection with the following: 805.13.01 Cyclopean Stone Riprap and/or Channel Lining Class III. Provide material meeting the general requirements of Section 805. Ensure that 100 percent passes through a square opening of 16 inches by 16 inches, and no more than 20 percent passes through square openings of 8 inches by 8 inches. The Department may allow stones of smaller sizes for filling voids in the upper surface and dressing to the proper slope.
SUBSECTION:	806.03.01 General Requirements.
TEST:	Dynamic Shear
REVISION:	Replace the 100% pay range "5,000-5,500" with "0-5,500"
SUBSECTION:	806.03.03 Modification.
REVISION:	Replace the first sentence with the following: Use only styrene-butadiene (SB) or styrene-butadiene-styrene (SBS) modifiers.
SUBSECTION:	810.02 APPROVAL.
REVISION:	Replace reference "KM 114" with "KM 115".
SUBSECTION:	810.03.06 Identification and Markings.
REVISION:	Delete the following text from the first paragraph: "When the manufacturer has more than one plant, include the plant letter assigned by the Division of Materials after the date of manufacture as follows: L-Louisville N-London" Delete the following paragraph: "The Department will not require the certification on the shipment approval form to be notarized. The Department will not require the information under "Pipe Data" on the approval form when the manufacture's shipment ticket is attached and contains the necessary information."

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SUBSECTION:	811.02.01 Requirements.
REVISION:	Replace the subsection with the following: Furnish bar reinforcement for bridges, cast-in-place culverts, and cast-in-place retaining walls that conforms to ASTM A 615 (billet) or ASTM A 996 (rail). ASTM A 706 steel is acceptable with prior approval of the Division of Materials. Do not weld any steel bar reinforcement unless it is ASTM A 706 rebar. The Engineer will accept rail steel bar reinforcement in straight lengths only. Do not use rail steel reinforcement where field bending is allowed or required.
SUBSECTION:	811.09.02 Dowel Bars.
REVISION:	Replace the reference to “ASTM A 616” with “ASTM A 996” Insert the following sentence between the third and fourth sentence of the first paragraph: Broken or sheared ends are acceptable with prior approval of the Division of Materials.
SUBSECTION:	811.06 BAR MATS.
REVISION:	Replace the subsection with the following: Conform to ASTM A 184 and fabricate by welding deformed Grade 60 weldable bars.
SUBSECTION:	811.09.02 Dowel Bars.
REVISION:	Replace the first paragraph with the following: Furnish dowel bars that are plain round bars conforming to ASTM A 706, A 615, A 996, or A 617 with respect to mechanical properties only. Provide either Grade 40, 50 or 60 steel. Saw cut the free ends of the dowels and ensure that they are free of burrs or projections. Broken or sheared ends are acceptable with prior approval of the Division of Materials. Coat dowel bars according to AASHTO M 254 with the following exceptions for Type B coatings:
SUBSECTION:	811.10.02 Epoxy Coating Material.
REVISION:	Replace both the reference to “ASTM D 3963 Annex” and “ASTM D 3963” with “AASHTO M 284”.
SUBSECTION:	812.01.02 Hot-Rolled Carbon Steel Sheets and Strip of Structural Quality, Grade 33 (Corrugated Steel Plank for Bridge Floors).
REVISION:	Replace the reference to “ASTM A 570” with “ASTM A 1011”

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SUBSECTION: 827.04 SEED.

REVISION: Replace with the following:

827.04 SEED. Conform to the requirements outlined in the "Kentucky Seed Law and Provisions for Seed Certification in Kentucky" and the "Regulations under the Kentucky Seed Law", with following exceptions:

- 1) Obtain seed only through registered dealers that are permitted for labeling of seed.
- 2) Ensure all deliveries and shipments of premixed seed are accompanied with a master blend sheet.
- 3) Ensure all bags and containers have an acceptable seed tag attached.
- 4) The Department may sample the seed at the job site at any time.

Do not use seed (grasses, native grasses, and legumes) if the weed seed is over one percent, total germination (including hard seed) is less than 80 percent, if the seed test date is over 9 months old exclusive of the month tested, or if the limits of noxious weed seed is exceeded.

Ensure that noxious weed seeds contained in any seed or seed mixture does not exceed the maximum permitted rate of occurrence per pound.

<u>Name of Kind</u>	<u>Max. No. Seeds (per pound)*</u>
Balloon Vine (<i>Cardiospermum halicacabum</i>)	0
Purple Moonflower (<i>Ipomoea turbinata</i>)	0
Canada Thistle (<i>Cirsium Arvense</i>)	0
Johnsongrass (<i>Sorghum halepense</i> and <i>Sorghum alnum</i> and perennial rhizomatous derivatives of these species)	0
Quackgrass (<i>Elytrigia Repens</i>)	0
Annual Bluegrass (<i>Poa annua</i>)	120
Buckhorn Plantain (<i>Plantago lanceolata</i>)	120
Corncockle (<i>Agrostemma githago</i>)	18
Dodder (<i>Cuscuta</i> spp.)	18
Giant Foxtail (<i>Setaria faberii</i>)	18
Oxeye Daisy (<i>Chrysanthemum leucanthemum</i>)	120
Sorrel (<i>Rumex acetosella</i>)	120
Wild Onion and Wild Garlic (<i>Allium</i> spp.)	18

* Seed or seed mixtures that contain in excess of 120 total noxious seeds per pound is prohibited

Wildflower seed shall not be planted until approved by the MCL.

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REQUIREMENTS FOR SEEDS			
	Purity (Min. %)	Germination (Min. %) Including Hard Seed and Dormant Seed	Hard Seed (Max. %) Allowed in Germination
Grasses			
Bentgrass (<i>Argrostis palustris</i>)	98	85	-
Bermudagrass, common (<i>Cynodon dactylon</i>)	97	85	-
Bluegrass, Kentucky (<i>Poa pratensis</i>)	98	85	-
Brome, smooth (<i>Bromus inermis</i>)	95	80	-
Canarygrass, reed (<i>Phalaris arundinacea</i>)	95	80	-
Fescue, chewings (<i>Festuca rubra</i> var. <i>commutata</i>)	97	85	-
Fescue, hard (<i>Festuca trachyphlla</i>)	97	85	-
Fescue, meadow (<i>Festuca elatior</i>)	97	85	-
Fescue, red (<i>Festuca rubra</i>)	97	85	-
Fescue, tall (<i>Festuca arundinacea</i>)	97	85	-
Orchardgrass (<i>Dactylis glomerata</i>)	97	85	-
Redtop (<i>Agrostis alba</i>)	95	80	-
Ryegrass, annual, common or Italian (<i>Lolium multiflorum</i>)	97	85	-
Ryegrass, perennial (<i>Lolium perenne</i>)	97	85	-
Lovegrass, Weeping (<i>Eragrostis curvula</i>)	96	80	-
Oat (<i>Avena Sativa</i>)	98	85	-
Rye (<i>Secale cereale</i>)	98	85	-
Timothy (<i>Phleum pratense</i>)	98	85	-
Wheat, common (<i>Triticum aestivum</i>)	98	85	-
Legumes			
Alfalfa (<i>Medicago sativa</i>)	98	85	25
Clover, alsike (<i>Trifolium hybridum</i>)	97	85	25
Clover, ladino (<i>Trifolium repens</i>)	98	85	25
Clover, white (<i>Trifolium repens</i>)	98	85	25
Crownvetch (<i>Coronilla varia</i>)	97	85	25
Lespedeza, Korean (<i>Lespedeza stipulacea</i>)	97	85	20
Lespedeza, Sericea (<i>Lespedeza cuneata</i>)	97	85	20
Sweetclover, white (<i>Melilotus alba</i>)	98	85	25
Sweetclover, yellow (<i>Melilotus officinalis</i>)	98	85	25
Trefoil, birdsfoot (<i>Lotus corniculatus</i>)	97	85	25
Native Grasses			
Little Bluestem (<i>Schizachyrium scoparium</i>)	85	80	-
Big Bluestem (<i>Andropogon gerardii</i>)	85	80	-
Indian Grass (<i>Sorghastrum nutans</i>)	85	80	-
Switchgrass (<i>Panicum virgatum</i>)	85	80	-

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SUBSECTION: REVISION:	827.07 EROSION CONTROL BLANKET. Replace the subsection with the following: 827.07 EROSION CONTROL BLANKET. Use a blanket from the Department's List of Approved Materials. Blankets must be machine constructed with two-sided netting filled with curled wood fiber mat, straw, or a straw and coconut fiber combination. Ensure the blanket is smolder resistant without the use of chemical additives. A) Dimensions. Furnish in strips with a minimum width of 4 feet and length of 50 feet. B) Weight. 1) Curled Wood Fiber. Ensure a minimum mass per unit area of 7.25 ounces per square yard according to ASTM D 6475. 2) Straw. Ensure a minimum mass per unit area of 7.5 ounces per square yard according to ASTM D 6475. 3) Straw/Coconut Fiber. Ensure a minimum mass per unit area of 6.75 ounces per square yard according to ASTM D 6475. C) Fill. Ensure the fill is evenly distributed throughout the blanket. 1) Curled Wood Fiber. Use curled wood fiber of consistent thickness with at least 80 percent of its fibers 6 inches or longer in length. 2) Straw. Use only weed free agricultural straw. 2) Straw/Coconut Fiber. Conform to the straw requirements above and ensure the coconut fiber is evenly distributed throughout the blanket and accounts for 30% or more of the fill. D) Netting. Use photodegradable extruded plastic mesh or netting, with a maximum spacing width of one inch square, on both sides of the blanket. Secure the netting by stitching or other method to ensure the blanket retains its integrity. E) Staples. Use steel wire U-shaped staples with a minimum diameter of 0.09 inches (11 gauge), a minimum width of one inch, and a minimum length of 6 inches. Use a heavier gauge when working in rocky or clay soils and longer lengths in sandy soils. Provide staples with colored tops when requested by the Engineer. F) Performance. 1) C-Factor. Ensure the ratio of soil loss from protected slope to ratio of soil loss from unprotected is ≤ 0.15 for a slope of 3:1 when tested according to ECTC method 2 (2-inch/hour for 30 minutes). 2) Shear Stress. Ensure the blanket can sustain a minimum shear stress of 1.75 pounds per square foot without physical damage or excess erosion (> 0.5 inches soil loss) when tested according to ECTC Method 3.
SUBSECTION: REVISION:	828.02 APPROVAL. Add the following: The Department will continue to include the masonry coatings on the list contingent upon receiving an annual certification containing the following information: 1) A statement that the masonry coating to be furnished during the particular calendar year is of the same composition as that previously approved for inclusion on the approved list. 2) A statement that the masonry coating conforms to the appropriate requirements of the Kentucky Standard Specifications for Road and Bridge Construction. 3) A statement that notification will be made to the Division of Materials of any changes in composition for review and approval before furnishing the material to projects.
SUBSECTION: TABLE: REVISION:	843.01.02 Acceptance Procedures for Non-Specification Fabric. GRAB STRENGTH PAYMENT REDUCTION Add the following note: The Department will use the lowest value of MACHINE and CROSS for the reduction calculation.

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SUBSECTION:	844.02.01 Fly Ash.
PART:	1)
REVISION:	Delete the last sentence.
SUBSECTION:	844.02.01 Fly Ash.
REVISION:	Replace the subsection with the following: 844.02.01 Fly Ash. Select from the Department's List of Approved Materials for fly ash sources. To be placed on the list, furnish samples and ASTM C 618 test data developed over the previous 3 months, and confirm to the requirements in KM 64-325.