



**CALL NO. 312**

**CONTRACT ID. 112004**

**STATEWIDE COUNTY**

**FED/STATE PROJECT NUMBER FE01 121 DW11 0100000**

**DESCRIPTION WATERBORNE STRIPING IN DISTRICT 10**

**WORK TYPE WATERBOURNE PAINT STRIPING**

**PRIMARY COMPLETION DATE 9/1/2011**

**LETTING DATE: January 28, 2011**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME January 28, 2011. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

**REQUIRED BID PROPOSAL GUARANTY:** Not less than 5% of the total bid.

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**PART I**  
**SCOPE OF WORK**

CONTRACT ID - 112004

ADMINISTRATIVE DISTRICT - 10

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - VARIOUS

PCN - MP12100091002

FE01 121 DW11 0100000

WATERBORNE STRIPING IN DISTRICT 10 ON VARIOUS ROUTES. WATERBOURNE PAINT STRIPING.

GEOGRAPHIC COORDINATES LATITUDE 37^36'12" LONGITUDE 83^24'29"

COMPLETION DATE(S):

COMPLETION DATE - September 01, 2011

APPLIES TO ENTIRE CONTRACT

## **CONTRACT NOTES**

### **PROPOSAL ADDENDA**

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

### **BID SUBMITTAL**

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. ([www.transportation.ky.gov/contract](http://www.transportation.ky.gov/contract))

The Bidder must download the bid file located on the Bid Express website ([www.bidx.com](http://www.bidx.com)) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

### **JOINT VENTURE BIDDING**

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

### **UNDERGROUND FACILITY DAMAGE PROTECTION**

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

07/01/2010

**NATIONAL HIGHWAY**

This project is on the NATIONAL HIGHWAY SYSTEM.

**SPECIAL NOTES FOR WATERBORNE PAINT STRIPING  
AND DURABLE WATERBORNE STRIPING  
DISTRICT WIDE CONTRACTS**

**DESCRIPTION**

Work performed under this contract shall be in conformance with Commonwealth of Kentucky, Transportation Cabinet, Department of Highways' Standard Specifications for Road and Bridge Construction, 2008 Edition, applicable Special Provisions, Kentucky Methods, general notes, specifications included in this proposal and the Standard Drawings, 2008 Edition.

**SCOPE OF WORK**

The work performed under this contract shall consist of furnishing and applying waterborne striping paint for 4 inch lines and durable waterborne striping paint for 6 inch lines reflectorized with glass beads, to the sections of roadway provided in this contract with an updated listing provided at the pre-construction meeting. This contract is for the installation of centerlines, lane lines, edgelines, ramp lines, dotted lines and gore markings only. Gore marking materials shall be the same as the mainline of the roadway. Special markings such as stop bars, crosswalks, cross-hatching, railroad markings, etc. are not to be installed under this contract.

Intersection approach markings such as the edgelines of large painted islands or edgelines on mountable medians may be included at the discretion of the Engineer provided they can be painted by the striping truck. Markings that would require application by equipment other than the striping truck are not to be installed under this contract.

The vast majority of the work performed under this contract will consist of retracing existing lines. The Department will be responsible for pre-marking any section of roadway where the old markings are no longer visible or where the existing markings are to be changed. Edgelines shall not be installed on any section of roadway where edgelines do not currently exist without written authorization from the Chief District Engineer.

**MATERIALS FOR WATERBORNE AND DURABLE WATERBORNE PAINT STRIPING**

Select Materials for this project to meet the performance requirements detailed in **Section 842 and 846 of the Standard Specifications**. Initial samples for each formulation must be submitted for approval prior to initiation of the striping operation. The initial sample may be sent directly to the Department from the manufacturer of the paint.

Samples of paint will be obtained by the Department in accordance with the Materials Field Sampling Manual when striping operations are in progress. A minimum of one sample will be obtained per color, per truck, per week and shall represent the quantity of striping applied per week. Deductions for application of non-specification paint shall be assessed to the quantity of striping represented by the sample.

**BEADS:** The Department will evaluate beads as part of the installed pavement marking in accordance with Kentucky Method 202 or 203 as applicable. Testing of the coatings, gradation and quality of the product applied shall be the responsibility of the contractor.

### **MATERIALS SAMPLING AND ACCEPTANCE**

If two or more random samples obtained during striping operations fail to meet minimum compositional requirements, striping operations will be discontinued. Before the contractor is allowed to resume striping, the Department will randomly sample and test each batch of paint the contractor has in stock at the storage location.

For batches of paint that fail to meet the minimum compositional criteria, the stock material will be rejected. The contractor will be required to remove all failing paint from his central storage location. Batches that are tested and found to be in compliance with the compositional requirements may be used. After the Department has sampled all of the material at the central storage area, sampling and testing will resume according to the Materials Field Sampling Manual as soon as striping operations resume.

A deduction in payment will be made for any paint that fails to meet the material requirements of **Section 842 and 846 of the Standard Specifications.**

### **EQUIPMENT**

Each striper shall be equipped with electrical foot counters. The counters shall individually tabulate the amount of footage applied by each striping gun on the carriage, whether solid or dashed. The counters shall be capable of measuring up to six digits and shall have a reset feature. The counters shall be calibrated in the presence of the Engineer to insure an accurate measurement of the paint applied.

Each striper shall be equipped with an accurate dashing mechanism, capable of being adjusted to retrace existing lane line, dotted lines or centerline markings as directed by the Engineer. The striper shall also be equipped with a detection device that will automatically cutoff the paint guns when a raised pavement marker is detected in the pavement. The Contractor, at his own expense, shall replace or adequately clean any pavement marker lens that is painted.

The Contractor's **striper shall be equipped with a Data Logger System.** The Data Logger shall monitor and report the quantities of paint and beads consumed in line. The data logger shall calculate, in real time, the gallons of paint per mile, average wet film thickness, and pounds of beads per gallon of paint for each line application. The Data Logger shall monitor and report the ambient temperature, pavement temperature, and paint temperature. The data shall be recorded at the beginning of each line application and at a minimum of 1 mile increments during application. The Data Logger shall be capable of storing and supplying the necessary scaling and calibration

parameters to the flow meters, and shall provide a means of adjusting the scaling factor as necessary. The Data Logger shall include a remote cab mounted display, which shall indicate in real time, pavement temperature, application rate of paint in gallons per mile, paint film thickness in mils, and application rate of beads in pounds per gallon. In addition the Contractor's striper shall also be equipped with a calibrated measuring device for monitoring quantities of paint and beads consumed in line. A data logger report, as an Excel spreadsheet, shall be submitted to the engineer with each Daily Striping Report (DSR) containing the following information; route, line type, line width, line color, direction of application, weight of paint applied in pounds or number of strokes counted, appropriate scaling factors, paint film thickness in mils, paint application rate in gallons per mile, bead application rate in pounds per gallon, paint temperature obtained immediately after the heat exchanger, ambient temperature, pavement temperature, and vehicle speed in miles per hour. Application and temperature data shall be reported in one-mile increments for each line applied.

Prior to starting striping operations, all stripers shall be made available at a central location within Kentucky for inspection by the Department for compliance to Kentucky Method 64-267. Striping trucks that can fulfill the requirements of this method and these notes will be approved for use on this contract. Striping trucks that have not been approved for use by Department personnel will not be allowed to stripe as part of this contract. The Department reserves the right to perform random field verifications of striping equipment during this contract.

The Contractor shall provide a separate sweeping unit powerful enough to remove normal highway dirt and debris. This unit shall not be a part of the striper.

The Engineer may require the Contractor to provide detailed operating instructions from the manufacturer of the striping equipment if quality issues arise at any time during the contract. The Contractor shall then be required to operate the striping equipment within the suggested operating guidelines of the manufacturer, with particular emphasis on the speed of the striping operation, or make other adjustments until the quality of the striping is satisfactory to the Engineer.

## **CONSTRUCTION**

### **SURFACE PREPARATION**

Prepare the pavement surface for the striping operation in accordance with **Section 713.03.02 of the Standard Specifications**. All pavement surfaces shall be swept prior to striping and the cleaning operation shall be far enough in advance of the striping operation to prevent any dust from the cleaning operation from mixing with the paint. The sweeper must maintain contact with the roadway. When the Engineer determines abnormal amounts of debris or other material have accumulated beyond the capability of the required sweeping unit which will require shoveling or other means to remove, the Engineer will make arrangements, prior to painting, to have the material removed by the Department or that section of roadway will be deleted from the contract.

## **QUALITY CONTROL/QUALITY ASSURANCE**

Submit a Quality Control Plan in accordance with **Section 113 of the Standard Specifications**.

The Contractor shall designate a Quality Control Coordinator (QC) for the project who will be the contact person for any questions or concerns regarding the quality of the work performed under this contract. The Quality Control Coordinator shall:

- Hold current qualification from the Department as a Pavement Marking Inspection Technician
- Plan and oversee the Contractor's evaluation of the lines applied on the project
- Complete and submit Daily Striping Reports and Data Logger spreadsheets (electronic copies) to the Engineer within 24 hours of completion of that days striping
- Coordinate and review or Perform KM-202, for each section of striping and provide completed test reports (electronic copy) to the Engineer within one (1) working day of completion
- Document all adjustments made to the application process to consistently produce the quality of line desired
- Notify the Engineer of any changes in the striping work plan that are determined necessary
- Inform and mobilize crews to complete restriping or corrective work (after notification by the Department)
- Supply the appropriate certifications for paint to the Engineer assigned to the particular project at the time of sampling
- Track the quantities of materials supplied by the vendors and applied by the painting crew
- Meet with the Engineer to discuss and/or conduct field reviews on the project throughout the execution of the contract.

Quality control testing in accordance with KM-202 will be performed for each section of striping on zones selected by the Department based on KM-64-113.

At the Pre-construction Conference, the Contractor shall furnish the Department a quality control plan that covers in detail the following items:

- The name, address, phone and fax numbers for the Quality Control Coordinator
- The names of individuals other than the Quality Control Coordinator taking readings in accordance with KM202 ( these people shall hold qualification from the Department as Pavement Marking Inspection Technicians)
- An overall work plan which states the estimated starting and completion dates for the entire project, the number of crews to be used on the project and a general description of how the project will be completed
- A description of the striping equipment to be used on the project, including make and model of each striper, minimum and maximum operating speeds, and type of instruments to be used to calibrate the flow of paint and beads
- The frequency and method to be used to monitor application rates and quality of the line (specifically with regard to retroreflectivity, width, thickness, bead distribution, tracing accuracy, etc.)

- A list of paint(s) and bead(s) to be used in this contract along with a statement from the paint manufacturer that indicates the recommended minimum and maximum application temperatures for ambient temperature, pavement temperature, paint temperature, and guidelines for any other environmental factors that would adversely affect the successful performance of the paint
- The contact person, phone, e-mail and fax numbers for reporting claims for paint on vehicles
- Submit the description and product literature of the reflectometer to be used to the Engineer assigned to the project for approval

Acceptance of the Contractor's quality control plan is required prior to the start of work. The Department reserves the right to require the Contractor to make changes in the quality control plan and operations to obtain the quality specified in the contract.

After acceptance by the Department, the Contractor shall notify the Engineer in writing of any proposed change. Proposed changes are subject to acceptance by the Department.

The Department will provide the locations of randomly selected zones for QC testing for each section of striping within two weeks of receipt of the Daily Striping Report.

The Department will perform Quality Assurance (QA) testing on (at least) one segment of each section of striping completed by the Contractor. QA testing is intended to verify the Contractor's QC test data. Upon receipt of the Contractor's test report for each section, the QA Inspector will randomly select (at least) one segment for evaluation and test in accordance with KM202 with the exception that QA testing will be conducted within 2 weeks of receipt of the QC report.

The Department will base payment for each section evaluated in accordance with KM-202 on the Contractor's QC test results if the QC and QA mean values for each segment selected for QA testing differ by less than 10% of the QA mean value.

If a dispute should arise regarding the acceptability of the Contractor's QC test results the dispute resolution shall be conducted as follows:

1. If the retroreflectivity values obtained during the QA testing within a segment indicate a change in pay quantities (i.e. QC readings are passing and QA readings are failing) and the mean values differ by more than 10 % of the QA mean value; additional testing will be required. Discard the original QC and QA test results for the section in question. The QA will randomly establish three new zones, in accordance with KM-113, in each segment within the section in question. The QC and QA will jointly evaluate each new zone within the section in accordance with KM-202 (with the exception of the evaluation period if greater than 60 days). The QC test results for each segment will be used for evaluation of the section if the QC and QA mean values for each segment differ by less than 10% of the QA mean value.
2. If the variance between QC and QA testing does not indicate a change in the pay quantities for the section (i.e. QC and QA readings are both passing) however, the QC mean values differ by more than 10% of the QA mean value: additional readings will not be required.

Accept the QC test results for evaluation of the section. However, additional testing within the section in question should be conducted as soon as possible to determine the cause of the discrepancy. Resolution to the discrepancy should be documented.

3. If resolution to a dispute or variance of QC and QA test results cannot be achieved by the QC and QA, additional testing will be required. Discard the QC and QA test results for the section in question. Additional testing will be conducted by the QC, QA, and representatives of Central Office Division of Materials. Additional testing will be conducted within two weeks of receipt of a written request from the Engineer to the Division of Materials for each section in question. Three new zones, randomly selected in accordance with KM-113, will be established by the QA for each segment of the section in question. Each instrument to be used for testing will be calibrated in the presence of Central Office representatives prior to initiation of testing. The QC, QA and Central Office representatives will obtain readings for each new zone in accordance with KM-202 (with the exception of the evaluation period if greater than 60 days). The QC test results for each segment will be used for evaluation of the section if the QC mean values for each segment differ by less than 10% to the mean value obtained by Central Office. The QA test results for each segment will be used for evaluation of the section if the QC mean values differ by more than 10% to the mean value obtained by Central Office and the QA mean value differs by less than 10% to the Central Office mean value. If neither the QC nor QA mean values meet these requirements, the Central Office mean value for each segment will be used to evaluate the section in question. These results will be final and the basis of payment for the section in question.

The Contractor will incur all costs associated with additional testing performed by Department personnel for dispute resolution that does not result in the use of QC test data as the basis of payment. These costs will include the cost of maintenance and control of traffic.

The Department reserves the right to take over the QC portion of testing. In the event that the Department exercises this option, the Contractor will incur the cost of testing performed by the Department.

The Department reserves the right to evaluate designated routes, in whole or in part, in accordance with KM-203. The Department will identify routes or portions of routes to be evaluated in accordance with KM-203 at the Pre-construction Conference. Any section of striping which includes a designated route, in whole or in part, will be evaluated in accordance with KM-203. The evaluation of a section in accordance with KM-203 will be conducted at the Departments expense.

The Department will require the approved vendor performing retroreflectivity evaluation in accordance with KM-203 to successfully demonstrate compliance to his/her quality control procedures prior to collection of data for this contract. The Department will select an appropriate test site for demonstration purposes and conduct joint evaluations of both yellow and white longitudinal markings within the test site using approved 30M geometry handheld instruments. The demonstration will be deemed successful if the mean average obtained by the approved vendor differs by less than 10% to the mean average obtained by the Department for each marking evaluated within the test site.

The Department will provide notice to the Contractor regarding the date and location of the demonstration test site. The Contractor may elect to participate in the demonstration, using his/her hand held instrument, to obtain test data for informational purposes only.

The Department will base payment for each section evaluated in accordance with KM-203 solely on the test results obtained by the Department's approved vendor. Completed test results submitted by the Department's approved vendor will be considered final and are not subject to dispute.

The Department will furnish the Contractor with a blank electronic copy of the Contractors Daily Striping Report (DSR). The Contractor shall complete and furnish this standard DSR to the Engineer's office daily for each crew for each color and width of line applied. The information on the DSR shall reflect the milepoints and quantities for striping completed for that day and for that crew. The Contractor shall also include with the DSR the certification for the paint used on that day's striping. (Sample attached)

### **APPLICATION OF STRIPING**

Roadways shall be marked with 4", 6", 8" and 12" lines as indicated in the plans. The four-inch line shall not be less than four inches nor more than five inches in width. The six-inch line shall not be less than six inches nor more than seven inches in width. The centerline of all newly applied lines shall be within one inch of the centerline of the existing stripe. All of the Interstate and Parkway system shall be marked with six-inch lines using Durable Waterborne paint. Gore area markings shall be installed at twice the width of the normal line width on that portion of roadway. All lines shall have distinct, clean edges with proper bead distribution across the entire width and length of the line.

Passing zones and lane lines shall be installed as a 10' segment of paint with a 30' gap. The length of the 10' segment shall not be less than 10' nor longer than 10 feet 6 inches. The stripe-gap cycle shall not be less than 39 feet 6 inches and no longer than 40 feet 6 inches.

**Apply paint at an application rate in accordance with the application rate in Supplemental Specification 713.03.03. Bead application rate is at the discretion of the contractor and must meet retroreflectivity requirements.**

The Contractor shall be responsible for protecting the painted line from traffic until dry in order to eliminate tracking. Retroreflectivity readings will be taken on zones with substantial amounts of tracking and the readings will be used in the calculation of payment. If the contractor elects to use additional traffic control devices beyond what is specified in the TRAFFIC CONTROL PLAN, the additional cost shall be incidental to the bid item "Maintain and Control Traffic. "

If the Engineer determines that the quality of the striping applied by the Contractor is unsatisfactory with regard to retroreflectivity, bead distribution, paint thickness, overspray, accuracy of retracing, line width, consistency, tracking, etc., the Engineer may stop the striping

operation immediately until the Contractor can demonstrate that the problem has been corrected. **If it is determined by the Engineer that the striping is not applied at the specified application rate, restriping will be required.** Striping errors shall be handled as below.

### **CLEANING OF APPLIED STRIPING**

The contractor has the option to clean accumulated debris from affected route prior to performing QC testing. Cleaning is defined as a single pass using the broom truck to remove accumulated debris from the affected striping.

### **MARKING REMOVAL**

Any striping error (including tracking) that requires removal of a line applied by the Contractor shall be removed, at the Contractor's expense, by water blasting only (See SN 10W). This removal process shall be done in a manner that shall not be detrimental to the pavement. Upon notification of a striping error by the Engineer, the Contractor shall be required to begin the process of correcting the striping error within five working days and shall work continuously to complete the corrective work prior to striping any other section of roadway included in this contract. Liquidated damages, as outlined in **Section 108.09 of the Standard Specifications**, shall apply for each day beyond the five working days that the Contractor has not begun to correct the striping error or continuously worked to complete the corrective work.

The Contractor shall be responsible for all necessary cleanup of any paint or other material that is spilled onto the pavement or elsewhere as a result of his operations.

### **PAINT ON VEHICLES**

The Contractor shall be responsible for addressing disputes with the public regarding paint on vehicles that occur as a result of his operations. All complaints from the public shall be addressed in a timely manner and the Contractor must demonstrate a “good faith” attempt to resolve disputes to the satisfaction of the citizen. However, the Contractor shall have the right to dispute fault and refuse settlement in cases where the Contractor feels that paint on the vehicle was a result of negligence on the part of the citizen. Unresolved disputes involving paint on vehicles shall be handled through the legal system. The Department shall not be held responsible for paint on vehicles under any circumstances.

### **RETROREFLECTIVITY REQUIREMENTS**

The minimum retroreflectivity requirements shall be in accordance with **Section 713.03.05A of the Standard Specifications**.

Restriping will be required for striping that fails to meet the minimum retroreflectivity requirements. The provisions for restriping are described in the section of this contract entitled MEASUREMENT AND PAYMENT. Complete restriping within 30 calendar days after notification by the Engineer except that no striping will be performed after **October 15, 2011**. All aspects of this specification shall apply to lines that are repainted due to failure to meet the requirements of this specification including the retroreflectivity requirements.

Liquidated damages, as outlined in **Section 108.09 of the Standard Specifications**, shall be assessed for each day beyond the 30 calendar days that repainting is not completed and shall accrue until the **October 15, 2011** deadline. At that point, no additional striping will be performed and payment will be based upon the Payment Schedule.

### **SCHEDULING**

The contractor shall begin striping no later than **May 1, 2011**. At the Pre-construction conference, the Engineer shall provide the contractor with a list of priority routes (not to exceed 10 percent of the total project estimate) which are to be striped prior to **June 1, 2011**. The painting of all scheduled routes shall be completed by **September 1, 2011**. The Contractor shall be assessed liquidated damages as outlined in **Section 108.09 of the Standard Specifications** for each calendar day that any of the scheduled routes are not striped with all lines.

The Contractor shall coordinate the daily striping schedule, one week in advance, with the Engineer. **The Contractor shall ensure that once striping begins on a section that ALL striping on that section must be completed within two weeks.** Failure to comply with this requirement will result in withholding of pay estimates.

**The Engineer may eliminate any route from the schedule if it is determined that the route does not require retracing. Also, the Engineer may add additional routes to be striped. The Contractor shall be notified of these routes prior to July 1, 2011. Contrary to Section 104.02.02 of the Standard Specification, the overrun and underrun formula shall not apply to this contract.**

### **CONTRACT COMPLETION AND LIQUIDATED DAMAGES**

All routes that are required to be striped under this contract shall be completed by September 1, 2011. Contrary to specifications, no time extension will be granted. Liquidated damages will apply in accordance with **Section 108.09 of the Standard Specifications** for failure to complete the striping by September 1, 2011. Liquidated damages will accrue until October 15, 2011; no striping shall be performed after this date.

All priority routes shall be striped by June 1, 2011. Contrary to specifications, no time extension will be granted for failure to complete striping of these priority routes by the June 1, 2011

milestone completion date. Liquidated damages will apply in accordance with **Section 108.09 of the Standard Specifications**.

Sections that are required to be re-stripped must be completed within 30 calendar days after notification by the Engineer. All re-stripping must be complete by October 15, 2011. Failure to complete all necessary corrective work by the October 15, 2011 deadline will result in no additional payment for the stripe beyond the 70% that was initially paid for the installation of the stripe.

### **RE-TESTING OF FAILURES**

Costs associated with re-testing of striping failures for Kentucky Method 203 shall be reimbursed to the Department by the contractor. The reimbursement shall include mobilization of the mobile testing machine as well as the current per mile rate for the mobile striping contractor in accordance with the Cabinet's master agreement.

### **MEASUREMENT AND PAYMENT**

The Department will measure the quantity in linear miles. When a bid item is not included for 8-inch or 12-inch lines, the Department will measure the quantity at twice the rate for a 4-inch line when an 8-inch line is applied or twice the rate for a 6-inch line when a 12-inch line is applied.

Full payment to the Contractor for each bid item 4" and 6" PAVE STRIPING WB (COLOR) will be based upon successful compliance with the retroreflectivity requirements outlined in this contract. The Contractor will be paid 70% of the payment for the bid item after application of striping to a particular section of roadway. The remaining payment will be made based upon the following procedure and the Payment Schedule:

Each section of striping will be evaluated in accordance with KM 202 or KM 203, as applicable, for the purpose of evaluating retroreflectivity.

1. Section is accepted in accordance with the appropriate Kentucky Method.
2. If a section is not accepted, the contractor will be required to restripe the entire section at no additional cost to the Department. The restriping will be subject to the same requirements as the original striping.
  - If time does not allow for the section to be restriped, accept deduction in payment for the section that has been determined to be unacceptable.

**Payment Schedule**

	Initial Payment	Final Payment	Total Payment
Section is Accepted	70%	30%	100%
Section is Not Accepted	70%	0%	70%

**MAINTAIN AND CONTROL TRAFFIC**

See special note for Maintain and Control Traffic.

Items not listed as a bid item shall be considered incidental to other items of work.

**KENTUCKY TRANSPORTATION CABINET  
DISTRICT WIDE STRIPING**

**MANDATORY PRE-BID CONFERENCE**

**NOVEMBER 30, 2010**

**CONTRACTORS REPRESENTED:**

<b><u>Name</u></b>	<b><u>Representing</u></b>
Adam Johnson	Road Safe Traffic Systems
Gerald Reichert	Oglesby Construction
Cal Shullick	Oglesby Construction
Jamie Reischman	Interstate Road Management
Sean Brehm	Brehm Striping
Bryan Simpson	Reynolds Sealing and Striping
David Reynolds	Reynolds Sealing and Striping
Jason Reynolds	Reynolds Sealing and Striping
John Thompson	Central Seal
Rob Caldwell	Central Seal
Shawn Davy	A & A Safety, Inc.

**OTHERS ATTENDING:**

<b><u>Name</u></b>	<b><u>Representing</u></b>
Martin Sierocinski	Sherwin-Williams
Tom Wood	Sherwin-Williams
Diana Radcliffe	KYTC C.O. Maintenance
Wayne Simpson	KYTC C.O. Maintenance
Brandi Mitchell	KYTC Materials
Derrick Castle	KYTC Materials
Dave Villani	Ennis Paint
Scott Hunt	KYTC Construction Procurement
M. Chad Larue	KAHC
Rachel Mills	KYTC Construction
Michael Black	KYTC Materials

District Wide Striping  
Mandatory Pre-Bid Conference  
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**MINUTES**

The Mandatory Pre-Bid Conference began at 10:00 a.m. EST. The following items applicable to the project were discussed at the Pre-Bid Conference:

- A. Hierarchy** – The Department advised that statements and responses to questions received from Contractors at the Pre-Bid Conference will be transcribed as minutes of the conference and made available to Contractors on the Division of Construction Procurement’s web page prior to the bid letting. The written minutes will take precedence over any verbal comments made at the Pre-Bid Conference. In case of discrepancy between the minutes and the official proposal, the minutes will govern. The Department will accept bids only from Contractors represented at the Pre-Bid Conference. The pre-bid conference held November 30, 2010 will represent District Wide Striping contracts contained in both the December 10, 2010 and January 29, 2011 Lettings.
  
- B. Starting & Completion Dates** – The Department advised that bids will be opened for Districts 5, 6, 7, 8, 9, and 11 at the Department’s regular December 10, 2010 Letting with Districts 1, 2, 3, 4, 10 and 12 being opened at the Department’s regular January 29, 2011 letting. The specified starting date is May 1, 2011. Regardless of when the Contractor begins work, the specified completion date for priority routes is June 1, 2011 and the completion date for all routes is September 1, 2011.
  
- C. Liquidated Damages** – The Department Advised that contrary to the Standard Specifications, Liquidated Damages will be listed as in the proposal.
  
- D. Maintain and Control Traffic** – The Department advised the Contractor to read the Traffic Control Plan in the contract.
  
- E. Site Restoration and Erosion Control**– The Department advised that Site Restoration and Erosion Control would be required if Contractor’s staging or operations damaged any roadside features.
  
- F. Coordination** – The Department advised that the Engineer would coordinate the striping contracts with other work and local events.
  
- G. Explanation of Contract** –

District Wide Striping  
Mandatory Pre-Bid Conference  
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**Scope of Work**

- 4" standard waterborne paint meeting Section 842
- 6" durable/hi-build meeting Section 846

**Materials For Waterborne and Durable Waterborne Paint Striping**

- Initial samples should be sent per contract per formulation from the manufacturer (they cannot send a single sample to cover multiple contracts)
- Manufacturers are encouraged to send multiple lots of paint per formulation
- Department will collect a minimum one sample per color per truck per week directly from the striping truck
- Deduction for material will be applied to the entire week that the sample represents

**Materials Sampling and Acceptance**

- Each manufacturer should send in a written procedure on how to sample from the tote in the event of 2 or more failures

**Equipment**

- Data logger report must be in Excel format
- Data logger report must be submitted with the DSR
- Striping trucks will be inspected and qualified per KM 64-267
- Striping trucks will be inspected yearly (even the trucks that qualified last year)
  - In order to qualify trucks, the contracts will need to have paint available
- Sweeper unit shall not be a part of the striper

**Surface Preparation**

- Sweeper must maintain contact with the roadway

**Quality Control/Quality Assurance**

- Quality Control technician shall complete updated DSR
- Materials website will maintain a dated DSR that will probably be updated again before contracts go to bid
- DSR's must be submitted within 24 hours of completion of the days' striping
- QC shall perform KM202 and provide an electronic copy within one working day to the Engineer that includes both the KM202 spreadsheet and the tape printed from the back of the handheld retroreflectometer instrument (tape must include the data and the calibration information for every day's work)
- QC must perform QC testing on zones selected by the Department
- Zones will be randomly selected according to KM64-113

District Wide Striping  
Mandatory Pre-Bid Conference  
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- Zone site will be given to the contractor within 2 weeks of receiving the contractor's DSR
- Department will perform QA testing on at least one segment
- QC will perform KM202 within 30 to 60 days, turn in the spreadsheet and tape within one working day and the QA will have two weeks to complete testing upon receipt of the spreadsheet and tape (the QA will still have two weeks to complete testing even in the event that the contractor performs testing on day 60 and turns in the receipt on day 61 after the application of stripe)
- Contractors should not perform testing on routes tested by the mobile for safety reasons
- Routes that will be tested by the mobile will be provided at the pre-construction meeting
- Department will perform mobile verification of its approved vendor and allow the vendor to perform mobile testing if the mean average obtained by the vendor differs by less than 10% to the mean average obtained by the Department
- Contractors may attend the mobile verification but their readings will not be used for verification purposes

**Application of Striping**

- Centerline of newly applied lines must be within 1" of the centerline of existing stripe (new center of the line should be placed in the center of the existing stripe regardless of its current width)
- Department can check to see if the new centerline is within 1" of the centerline of the existing stripe and if it is not the contractor will be required to waterblast the stripe placed in error off
- Minimum application rates for paint (4" line = 16.5 gal/mile; 6" line = 36 gal/mile) must be met or restripe will be required at the original application rate (not the difference between what the contractor originally applied and what the contractor should have applied)
- Bead application rate is the contractor's choice but the minimum retroreflectivity requirements must be met

**Cleaning of Applied Striping**

- Contractors may make a single pass using a broom truck to 'clean' the line on routes affected by a lot of dirt and debris per the contract
- Contractors are encouraged to inform the district when they are going to 'clean' the line

**Marking Removal**

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- Contractors have 5 working days to start the removal process upon notification of a striping error

**Paint on Vehicles**

- Contractors must provide a contact number

**Retroreflectivity Requirements**

- In accordance with the specifications

**Scheduling**

- Contractor shall begin by no later than May 1
- Contractor may start early if their trucks are qualified, they have their materials, their initial samples are approved, etc.
- All 12 districts will provide priority routes
- Contractor must complete priority routes by June 1 or liquidated damages shall be assessed
- All schedules routes shall be completed by September 1
- No striping after October 15
- District can add routes until July 1
- The overrun and underrun formula shall not apply (routes added will be at contract price and there will be no underrun for routes deleted)

**Contract Completion and Liquidated Damages**

- No time extensions will be granted

**Addendum to the contract (approved by the state highway engineer's office)**

- Initial payment = 70%
- Final payment = 30%
- 1 year non-renewable contract and this change will be evaluated at the end of this contract

**Miscellaneous**

- D5 is the only contract that requires the purchase of a handheld retroreflector
- L\* a\* b\* values for color have not changed but the tolerance for color changed from 2.0DE\* to 4.0DE\*

**H.** Questions and Answers – The Department made the following responses to questions and answers:

District Wide Striping  
Mandatory Pre-Bid Conference  
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- 1. Will a copy of updated electronic forms be sent to the successful bidders once they have been awarded the contract?**

Answer: Yes, the latest Excel spreadsheets will be sent out. An updated KM202 will be in this packet. Contractors must provide their email addresses on the sign-in sheet.

- 2. If the mobile retroreflector is reading consistently lower than the Department's handheld retroreflector, how will the state address that?**

Answer: The mobile retroreflector and the state's handheld retroreflector have consistently been within the 10% allowed difference between the mean averages. As long as the state retroreflector is within that 10%, the vendor will be allowed to perform testing within the state.

- 3. Why does the state of Kentucky not have two minimum retroreflectivity requirements, one for values obtained by the handheld retroreflector and another one for values obtained by the mobile retroreflector like other states?**

Answer: Kentucky looked at the data and determined there was no justification for two numbers.

- 4. On the DSR's, are the contractors still going to be required to log all of the striping changes?**

Answer: Currently, yes. However, there are internal discussions about the possibility of changing the DSR.

- 5. Will the contractors be allowed to clean the stripe prior to testing performed by both the handheld retroreflector and the mobile retroreflector?**

Answer: The contractor will certainly be allowed to clean the stripe according to the contract prior to testing by the handheld retroreflector. The contractor should contact the district concerning cleaning routes prior to testing by the mobile retroreflector.

- 6. Does the state prepay for material?**

Answer: No. The Department will not pay for stockpiled materials for this contract.

District Wide Striping  
Mandatory Pre-Bid Conference  
Page 7 of 7

- 7. Are white and yellow stripes still required to be striped within two weeks of each other on a given route?**

Answer: Yes.

- 8. Is there a mechanism for re-testing a failing paint sample?**

Answer: No. However, the state has never refused to test informational samples sent directly from a manufacturer if they have concerns.

- 9. Did the Department consider lowering the retroreflectivity requirement from 225 mcd/m<sup>2</sup>/lux to 200 mcd/m<sup>2</sup>/lux?**

Answer: The Division of Construction, the Division of Materials and the Division of Maintenance met with representatives from the State Highway Engineer's office and considered lowering the retroreflectivity requirement. Based on the ability of contractors to meet the minimum retroreflectivity requirements in the past and FHWA's current proposal for minimum retroreflectivity requirements, the Department decided not to lower the minimum retroreflectivity requirement.

- 10. If a route is below 80% passing by mobile retroreflectometer testing, is the contractor required to re-stripe everything or just the failing routes?**

Answer: The Department is not making changes at this time. The requirements will be re-evaluated at the end of this contract. Currently, the contractor is required to re-stripe the day's work.

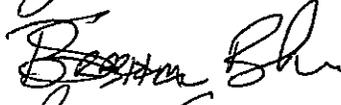
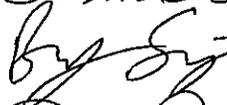
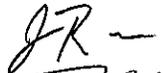
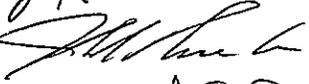
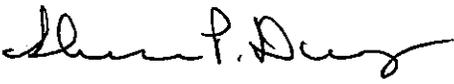
- I. Additional Questions** – If there are any questions not covered at the Pre-Bid Conference and these minutes, they should be addressed to the Department's Division of Construction Procurement in the usual manner.

KENTUCKY TRANSPORTATION CABINET  
DISTRICT WIDE STRIPING

MANDATORY PRE-BID CONFERENCE

NOVEMBER 30, 2010

CONTRACTORS SIGN IN ROSTER

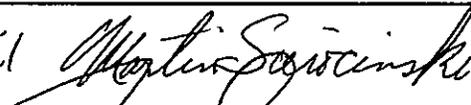
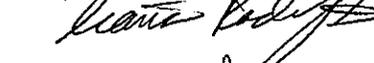
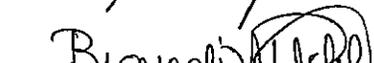
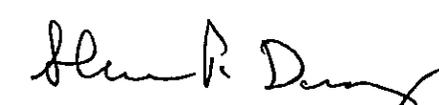
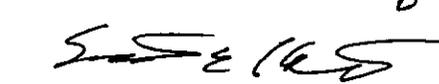
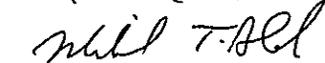
PRINT NAME	SIGNATURE	REPRESENTING
Adam Johnson	 <small>ajohnson@roadsafetraffic.com</small>	RoadSafe Traffic Systems
GERALD REICHERT		Oglesby Const.
Carl Skulluck	 <small>cats@oglesby.net</small>	Oglesby Const
JAMIE REISCHMAN		FRM (JREISCHMAN@DBI-SERVIC.COM)
SEAN BREHM	 <small>bscstrip@aol.com</small>	BREHM STRIPING
Bryan Simpson	 <small>Bryan D Reynolds Corporation</small>	Reynolds Sealing & Striping
DAVID REYNOLDS		Reynolds Striping <small>David@Reynoldscorporation.com</small>
Jason Reynolds		Reynolds Striping <small>Jason@Reynoldscorporation.com</small>
John Thompson	 <small>John Thompson Seal.com/central Seal</small>	Central Seal
Rob Caldwell		Central Seal
SHAWN DAVY	 <small>shawnd@aasafetyinc.com</small>	A&A SAFETY, INC.

KENTUCKY TRANSPORTATION CABINET  
DISTRICT WIDE STRIPING

MANDATORY PRE-BID CONFERENCE

NOVEMBER 30, 2010

OTHERS ATTENDING SIGN IN ROSTER

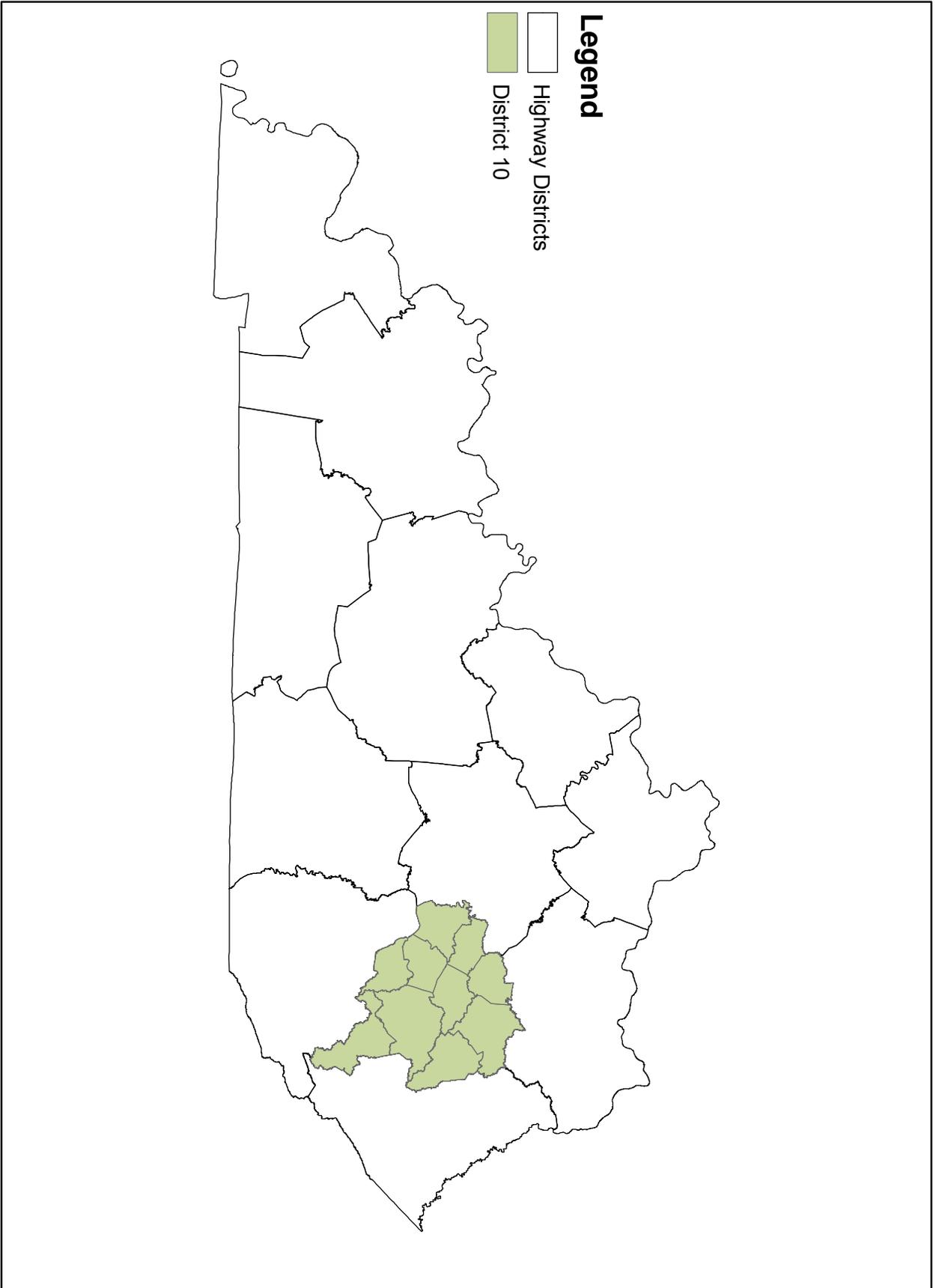
<u>PRINT NAME</u>	<u>SIGNATURE</u>	<u>REPRESENTING</u>
MARTIN SIEROCINSKI		Sherwin Williams
TOM WOOD		Sherwin Williams
DIANA RADCLIFFE		KYTC - CO maintenance
Wayne Simpson		KYTC - C.O. Maint,
Brandi Mitchell		CO - materials
<del>Bryan Simpson</del>	<del>Reynolds Sealing</del>	<del>Reynolds</del>
Dave Villani	<del>Striping</del>	Enns
Derek C. H.		CO - NOTED
SHAWN DANY		A & A SAFETY, INC.
Scott Hurst		Construction Proc.
M. Chad [Signature]		Ky. Assoc of Hwy Contractor.
Rachel Mills		CO - Construction
Michael Black		CO Materials

**TRAFFIC CONTROL PLAN**  
**Durable Waterborne and Waterborne Paint Striping**

1. Traffic shall be maintained in accordance with the MUTCD, the Standard Specifications for Road and Bridge Construction, and the Standard Drawings, current editions.
2. **Contrary to Section 112 of the Standard Specifications, all items necessary to maintain and control traffic shall be included in the bid item “Maintain and Control Traffic.” Measurement will be each and will be paid one (1) time per year.**
3. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the Contractor, unless otherwise addressed, when no longer needed.
4. The Engineer will approve all signing before the Contractor can start work.
5. If the Contractor desires to deviate from the traffic control scheme outlined in the standard drawings, he shall prepare an alternate plan and present it in writing to the Engineer. This alternate plan can be used only after review and approval of the District and the Divisions of Traffic and Construction.
6. The Contractor's vehicles shall always move with and not across or against the flow of traffic. These vehicles will not be permitted to make U-turns at any location. The striping truck will not be permitted to stop and back down the road or ramps to stripe gore lines and turn lanes. Vehicles shall enter or leave work areas in a manner that will not be hazardous to, or interfere with, normal traffic flow. Vehicles shall not park or stop except within designated work areas. Personal vehicles will not be permitted to park within the right-of-way except in specific areas designated by the Engineer.
7. The paint supply truck shall not be allowed to operate as one of the traffic control vehicles shown on the standard drawings. If one of the required traffic control vehicles experiences mechanical problems or for some other reason is not available to remain in position as shown in the traffic control scheme, the striping operation shall cease until all required vehicles are in place.
8. Striping may not be permitted on any roadway during the peak times of the day, holiday periods, or special events as determined by the Engineer.
9. On two-lane, two-way highways, the Contractor shall make provisions to the satisfaction of the Engineer to periodically allow traffic to safely pass the train of vehicles in the striping operation.

10. In low speed, urban situations, the intermediate trail vehicle, shown between the striper and the final trail vehicle on the attached traffic control drawings, may be deleted at the discretion of the engineer.

traffic control plan.doc



**WATERBORNE PAINT STRIPING  
(MP SYSTEM)**

**DISTRICT 10**

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	4" LINE*		6" LINE*		EDGE LINES	COMMENTS
		BEGIN	END		YELLOW	WHITE	YELLOW	WHITE		
BREATHITT	KY 15	0.000	26.446	26.446	47.60	55.54			YES	
BREATHITT	KY 30	0.000	19.320	19.320	34.78	38.64			YES	
BREATHITT	KY 52	0.000	9.674	9.674	17.41	19.35			YES	
BREATHITT	KY 205	3.553	9.945	6.392	11.51	12.78			YES	
BREATHITT	KY 476	5.837	11.446	5.609	10.10	11.22			YES	
BREATHITT	KY 1812	0.000	3.731	3.731	6.72	7.46			YES	
BREATHITT	KY 3232	0.000	0.600	0.600	1.20					
BREATHITT	KY 2471	0.000	0.186	0.186	0.37					
BREATHITT	KY 2472	0.000	1.027	1.027	2.05					
BREATHITT	KY 3068	0.000	0.693	0.693	1.39					
BREATHITT	KY 3231	0.000	1.116	1.116	2.23					
<b>TOTAL</b>				74.794	135.35	144.99	0.00	0.00		
ESTILL	KY 52	0.000	21.040	21.040	37.87	42.08			YES	
ESTILL	KY 82	0.000	5.029	5.029	9.05	10.06			YES	
ESTILL	KY 89	0.000	18.608	18.608	33.49	37.22			YES	
ESTILL	KY 499	7.741	9.215	1.474	2.65	2.95			YES	
ESTILL	KY 1398	0.000	2.404	2.404	4.33				YES	
ESTILL	KY 1840	0.000	0.354	0.354	0.64					
ESTILL	KY 2454	0.000	0.166	0.166	0.30					
ESTILL	KY 2455	0.000	0.217	0.217	0.39					
<b>TOTAL</b>				49.292	88.726	92.302	0.00	0.00		
LEE	KY 11	0.000	14.845	14.845	26.72	29.69			YES	
LEE	KY 52	11.860	24.524	12.664	22.80	25.33			YES	
LEE	KY 587	9.147	12.138	2.991	5.38	5.98			YES	
LEE	KY 3150	0.000	0.200	0.200	0.36					
<b>TOTAL</b>				30.700	55.26	61.00	0.00	0.00		
MAGOFFIN	US 460	0.000	20.426	20.426	36.77	40.85			YES	
MAGOFFIN	KY 114	0.000	5.026	5.026	9.05	10.05			YES	
MAGOFFIN	KY 9009	63.084	75.627	12.543			22.58	25.71	YES	
MAGOFFIN	KY 30	0.000	10.949	10.949	19.71	21.90			YES	
MAGOFFIN	KY 7	0.000	9.298	9.298	16.74	18.60			YES	
MAGOFFIN	KY 40	0.000	7.085	7.085	12.75	14.17			YES	
MAGOFFIN	KY 2493	0.000	0.349	0.349	0.63					
<b>TOTAL</b>				65.676	95.64	105.57	22.58	25.71		
MENIFEE	US 460	0.000	19.386	19.386	34.89	40.71			YES	
MENIFEE	KY 36	0.000	6.155	6.155	11.08	12.31			YES	

**WATERBORNE PAINT STRIPING  
(MP SYSTEM)**

**DISTRICT 10**

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	4" LINE*			6" LINE*		EDGE LINES	COMMENTS
		BEGIN	END		YELLOW	WHITE	YELLOW	WHITE			
MENIFEE	KY 77	7.110	9.912	2.802	5.04	19.58				YES	
MENIFEE	KY 1274	0.000	9.788	9.788	17.62	72.60		0.00	0.00		
<b>TOTAL</b>				38.131	68.64						
MORGAN	US 460	0.000	23.662	23.662	42.59	47.32				YES	
MORGAN	KY 7	0.000	7.887	7.887	14.20	15.77				YES	
MORGAN	KY 172	0.000	13.840	13.840	24.91	27.68				YES	
MORGAN	KY 191	13.045	14.718	1.673	3.01	3.35				YES	
MORGAN	KY 205	0.000	6.761	6.761	12.17	13.52				YES	
MORGAN	KY 519	0.000	10.544	10.544	18.98	21.09				YES	
MORGAN	KY 9009	59.500	63.084	3.584				6.45	7.17	YES	
MORGAN	KY 1162	0.000	2.869	2.869	5.16						
MORGAN	KY 1614	0.000	0.249	0.249	0.45						
MORGAN	KY 2494	0.000	0.598	0.598	1.08						
MORGAN	KY 2495	0.000	0.168	0.168	0.30						
MORGAN	KY 2499	0.000	0.442	0.442	0.80						
<b>TOTAL</b>				72.277	123.65	128.734		6.45	7.17		
OWSLEY	KY 11	0.000	17.444	17.444	34.89	34.89				YES	
OWSLEY	KY 28	0.000	2.890	2.890	5.78	5.78				YES	
OWSLEY	KY 30	0.000	19.644	19.644	39.29	39.29				YES	
OWSLEY	KY 3504	0.000	0.587	0.587	1.17						
<b>TOTAL</b>				40.565	81.13	79.96		0.00	0.00		
PERRY	KY 7	0.000	13.557	13.557	24.40	27.11				YES	
PERRY	KY 15	0.000	25.179	25.179	45.32	52.88				YES	
PERRY	KY 15X	0.000	2.306	2.306	4.15	4.61				YES	
PERRY	KY 28	11.928	18.063	6.135	11.04	12.27				YES	
PERRY	KY 80	0.000	15.862	15.862	28.55	39.66				YES	
PERRY	KY 451	0.000	3.895	3.895	7.01	7.79				YES	
PERRY	KY 476	0.000	22.275	22.275	40.10	44.55				YES	
PERRY	KY 550	0.000	2.497	2.497	4.49	4.99				YES	
PERRY	KY 699	0.000	12.463	12.463	22.43	5.42				YES	
PERRY	KY 9006	51.026	59.088	8.062				16.12	18.14	YES	
<b>TOTAL</b>				112.231	187.50	199.28		16.12	18.14		
POWELL	KY 9000	11.913	36.000	24.087				48.17	54.20	YES	
POWELL	KY 11	0.000	25.039	25.039	45.07	50.08				YES	
POWELL	KY 15	0.000	8.871	8.871	15.97	17.74				YES	
POWELL	KY 82	0.000	2.058	2.058	3.70	4.12				YES	

**WATERBORNE PAINT STRIPING  
(MP SYSTEM)**

**DISTRICT 10**

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	4" LINE*		6" LINE*		EDGE LINES	COMMENTS	
		BEGIN	END		YELLOW	WHITE	YELLOW	WHITE			
POWELL	KY 213	7.543	12.776	5.233	9.42	10.47	82.40	48.17	54.20	YES	
<b>TOTAL</b>				65.288	74.16						
WOLFE	KY 9009	46.223	59.500	13.277				26.55	29.87	YES	
WOLFE	KY 11	0.000	5.317	5.317	9.57	10.63				YES	
WOLFE	KY 15	0.000	10.255	10.255	18.46	20.51				YES	
WOLFE	KY 15S	0.000	1.236	1.236	2.22	2.47				YES	
WOLFE	KY 191	0.000	16.297	16.297	29.33	32.59				YES	
WOLFE	KY 205	0.000	6.913	6.913	12.44	13.83				YES	
WOLFE	KY 3039	0.000	0.928	0.928	1.67						
<b>TOTAL</b>				54.223	73.70	80.04		26.55	29.87		

**MP GRAND TOTAL**

565.046 983.76 1046.87 119.88 135.09

**WATERBORNE PAINT STRIPING  
(RS SYSTEM)**

**DISTRICT 10**

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	4" LINE*		EDGE LINES	COMMENTS
		BEGIN	END		YELLOW	WHITE		
BREATHITT	KY 540	0.000	3.748	3.748	7.50			
BREATHITT	KY 1098	0.000	7.803	7.803	15.61			
BREATHITT	KY 1933	0.000	4.980	4.980	9.96			
BREATHITT	KY 3193	0.000	4.477	4.477	8.95			
BREATHITT	KY 3237	0.000	9.044	9.044	18.09			
<b>TOTAL</b>				30.052	60.10	0.00		
ESTILL	KY 499	0.000	7.741	7.741	13.93	15.48	YES	
ESTILL	KY 1353	0.000	2.813	2.813	5.06			
ESTILL	KY 1886	4.985	6.343	1.358	2.44			
ESTILL	KY 3325	0.000	1.613	1.613	2.90			
ESTILL	KY 3326	0.000	0.870	0.870	1.57			
ESTILL	KY 3329	0.000	2.000	2.000	3.60			
<b>TOTAL</b>				16.395	29.51	15.48		
LEE	KY 587	0.000	9.147	9.147	16.46	18.29	YES	
LEE	KY 708	0.000	8.687	8.687	15.64			
LEE	KY 2017	0.000	7.493	7.493	13.49			
LEE	KY 3150	0.200	1.410	1.210	2.18			
<b>TOTAL</b>				26.537	47.77	18.29		
MAGOFFIN	KY 134	0.000	7.996	7.996	14.39			
MAGOFFIN	KY 404	0.000	2.688	2.688	4.84			
MAGOFFIN	KY 364	0.000	5.896	5.896	10.61			
MAGOFFIN	KY 542	2.841	5.843	3.002	5.40			
MAGOFFIN	KY 1397	0.000	3.026	3.026	5.45			
MAGOFFIN	KY 1415	0.000	2.758	2.758	4.96			
MAGOFFIN	KY 1437	0.000	2.950	2.950	5.31			
MAGOFFIN	KY 1766	0.000	1.984	1.984	3.57			
MAGOFFIN	KY 1888	0.000	4.061	4.061	7.31			
MAGOFFIN	KY 2493	0.000	0.349	0.349	0.63			
MAGOFFIN	KY 3333	0.000	3.822	3.822	6.88			
<b>TOTAL</b>				38.532	69.36	0.00		
MENIFEE	KY 1196	0.000	0.428	0.428	0.77			
MENIFEE	KY 1240	0.000	2.000	2.000	3.60			
MENIFEE	KY 1569	0.000	3.849	3.849	6.93			
MENIFEE	KY 3338	0.000	2.691	2.691	4.84			
<b>TOTAL</b>				8.968	16.14	0.00		

**WATERBORNE PAINT STRIPING  
(RS SYSTEM)**

**DISTRICT 10**

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	4" LINE*		EDGE LINES	COMMENTS
		BEGIN	END		YELLOW	WHITE		
MORGAN	KY 134	0.000	3.822	3.822	7.64			
MORGAN	KY 364	0.000	6.936	6.936	13.87			
MORGAN	KY 844	0.000	3.159	3.159	6.32			
MORGAN	KY 1002	0.000	2.628	2.628	5.26			
MORGAN	KY 1081	0.000	1.515	1.515	3.03			
MORGAN	KY 1569	0.000	1.051	1.051	2.10			
MORGAN	KY 1715	0.000	1.705	1.705	3.41			
MORGAN	KY 3333	0.000	1.776	1.776	3.55			
<b>TOTAL</b>				22.592	45.18	0.00		
OWSLEY	KY 587	0.000	0.480	0.480	0.96			
OWSLEY	KY 1411	0.000	3.464	3.464	6.93			
OWSLEY	KY 1503	0.000	3.931	3.931	7.86			
OWSLEY	KY 1938	0.000	2.481	2.481	4.96			
<b>TOTAL</b>				10.356	20.71	0.00		
PERRY	KY 1088	0.000	5.021	5.021	9.04			
PERRY	KY 484	0.000	4.397	4.397	7.91			
PERRY	KY 1387	0.000	0.626	0.626	1.13			
PERRY	KY 1440	0.000	2.961	2.961	5.33			
PERRY	KY 1165	2.325	7.236	4.911	8.84			
<b>TOTAL</b>				17.916	32.25	0.00		
POWELL	KY 599	0.000	2.032	2.032	3.66			
POWELL	KY 1028	0.000	4.711	4.711	8.48			
POWELL	KY 1639	2.809	6.542	3.733	6.72			
<b>TOTAL</b>				10.476	18.86	0.00		
WOLFE	KY 1094	3.985	7.469	3.484	6.27			
WOLFE	KY 1261	0.000	7.903	7.903	14.23			
WOLFE	KY 2028	0.000	2.374	2.374	4.27			
<b>TOTAL</b>				13.761	24.77	0.00		

**RS GRAND TOTAL**

195.585 364.653 33.78



**PART II**  
**SPECIFICATIONS AND STANDARD DRAWINGS**

### **SPECIFICATIONS REFERENCE**

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 2004*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2008* and *Standard Drawings, Edition of 2003 with the 2008 Revision*.

**Supplemental Specifications to The Standard Specifications  
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<b>SUBSECTION: REVISION:</b>	101.02 Abbreviations. Insert the following abbreviation and text into the section:  KEPSC     Kentucky Erosion Prevention and Sediment Control
<b>SUBSECTION: REVISION:</b>	101.03 Definitions. Replace the definition for Specifications – <i>Special Provisions</i> with the following:  Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to and individual project.
<b>SUBSECTION: REVISION:</b>	102.03 Contents of the Bid Proposal Form. Replace the first sentence of the first paragraph with the following: The Bid Proposal form will be available on the Department internet website ( <a href="http://transportation.ky.gov/contract/">http://transportation.ky.gov/contract/</a> ).  Delete the second paragraph.  Delete the last paragraph.
<b>SUBSECTION: REVISION:</b>	102.04 Issuance of Bid Proposal Form. Replace Heading with the following:  102.04 Bidder Registration.  Replace the first sentence of the first paragraph with the following:  The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder’s list for a project for any of the following reasons:  Replace the last sentence of the subsection with the following:  The Department will resume placing the bidder on the eligible bidder’s list for projects after the bidder improves his operations to the satisfaction of the State Highway Engineer.
<b>SUBSECTION: REVISION:</b>	102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work. Replace the first paragraph with the following:  Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and bulletins and addendums posted to the Department’s website and the Bid Express Bidding Service Website before submitting the Bid Proposal. The Department considers the submission of a Bid Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract.
<b>SUBSECTION: REVISION:</b>	102.07.01 General. Replace the first sentence with the following:  Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website ( <a href="http://www.bidx.com">www.bidx.com</a> ).  Replace the first sentence of the third paragraph with the following:  Bid proposals submitted shall use an eligible Digital ID issued by Bid Express.

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<p><b>SUBSECTION: REVISION:</b></p>	<p>102.07.02 Computer Bidding. Replace the first paragraph with the following:</p> <p>Subsequent to registering for a specific project, use the Department’s Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (<a href="http://transportation.ky.gov/contract/">http://transportation.ky.gov/contract/</a>). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service.</p> <p>Delete the second and third paragraph.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program.</p> <p>Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons:</p> <ol style="list-style-type: none"> <li>1) when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or</li> <li>2) when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or</li> <li>3) any failure to comply with the provisions of Subsection 102.07; or</li> <li>4) Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder’s Current Capacity Rating.</li> </ol>
<p><b>SUBSECTION: REVISION:</b></p>	<p>102.09 Bid Proposal Guaranty. Insert the following after the first sentence:</p> <p>Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier’s check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>102.10 Delivery of Bid Proposals. Replace paragraph with the following:</p> <p>Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following:</p> <p>Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>102.13 Public Opening of Bid Proposals. Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.</p> <p>Replace the paragraph with the following: The Department will publicly announce all Bid Proposals at the time indicated in the Notice to Contractors.</p>

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<p><b>SUBSECTION: REVISION:</b></p>	<p>103.02 Award of Contract. Replace the first sentence of the third paragraph with the following:</p> <p>The Department will normally award the Contract within 10 working days after the date of receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all bidders for a period not to exceed 60 calendar days for final disposition of award.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>105.03 Record Plans. Replace the section with the following:</p> <p>Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was based and, and signed by a duly authorized representative of the Department. The Department will make these plans available for inspection in the Central Office at least 24 hours prior to the time of opening bids and up to the time of letting of a project or projects. The quantities appearing on the Record Plans are the same as those on which Bid Proposals are received. The Department will use these Record Plans as the controlling plans in the prosecution of the Contract. The Department will not make any changes on Record Plans subsequent to their issue unless done so by an approved contract modification. The Department will make 2 sets of Record Plans for each project, and will maintain one on file in the Central Office and one of file in the District Office. The Department will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of the Record Plans at the Pre-Construction conference.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>105.12 Final Inspection and Acceptance of Work. Insert the following paragraphs after the first paragraph:</p> <p>Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion.</p> <p>Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work.</p> <p>Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required.</p> <p>The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptance of the electrical items on the project. The Department will also assume routine maintenance of those items. Any damage done to accepted electrical work items by other Contractors shall be the responsibility of the Prime Contractor. The Department will not be responsible for repairing damage done by other contractors during the construction of the remaining project.</p> <p>Failure to complete the electrical corrective work within the 90 calendar day allowance will result in penalties assessed to the project. Penalties will be assessed at ½ the rate of liquidated damages established for the contract.</p> <p>Replace the following in the second sentence of the second paragraph:</p> <p>Replace Section 213 with Section 212.</p> <p>Delete the fifth paragraph from the section.</p>

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<p><b>SUBSECTION: REVISION:</b></p>	<p>105.13 Claim Resolution Process. Replace the last sentence of the 3. Bullet with the following:</p> <p>If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay.</p> <p>Delete the last paragraph from the section.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>106.04 Buy America Requirement. Replace the section with the following:</p> <p><b>106.04 Buy America Requirement.</b> Follow the “Buy America” provisions as required by Title 23 Code of Federal Regulations § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:</p> <ul style="list-style-type: none"> <li>• Coating,</li> <li>• Galvanizing,</li> <li>• Painting, and</li> <li>• Other coating that protects or enhances the value of steel or iron products.</li> </ul> <p>The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:</p> <ul style="list-style-type: none"> <li>• Pig iron,</li> <li>• Processed, pelletized, and reduced iron ore material, or</li> <li>• Processed alloys.</li> </ul> <p>The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.</p> <p>Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.</p> <p>Use foreign materials only under the following conditions:</p> <ol style="list-style-type: none"> <li>1) When the materials are not permanently incorporated into the project; or</li> <li>2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.</li> </ol> <p>The Contractor shall submit to the Engineer the origin and value of any foreign material used.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph:</p> <p>All field welding must be performed by a certified welder unless otherwise noted.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>108.02 Progress Schedule. Insert the following prior to the first paragraph:</p> <p>Specification 108.02 applies to all Cabinet projects except the following project types:</p> <ul style="list-style-type: none"> <li>• Right of Way Mowing and/or Litter Removal</li> <li>• Waterborne Paint Striping</li> <li>• Projects that contain Special Provision 82</li> <li>• Projects that contain the Special Note for CPM Scheduling</li> </ul> <p>Insert the following paragraph after paragraph two:</p>

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	<p>Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims.</p> <p>Insert the following paragraph after paragraph six:</p> <p>The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule.</p> <p>Insert the following at the beginning of the first paragraph of A) Written Narrative.:</p> <p>Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (<a href="http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm">http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm</a>).</p> <p>Replace Part A) Written Narrative 1. And 2. with the following:</p> <ol style="list-style-type: none"> <li>1. Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work.</li> <li>2. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the contract, each project if the contract entails multiple projects, each phase of work, site of work, or segment of work as divided in the project plans, proposal, or as subdivided by the Contractor.</li> </ol>
<p><b>SUBSECTION: REVISION:</b></p>	<p>110.01 Mobilization. Replace paragraph three with the following:</p> <p>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 Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 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.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>110.02 Demobilization. Replace the third paragraph with the following:</p> <p>Bid an amount for Demobilization that is a minimum of \$1,000 or 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. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or 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.</p>

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<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>110.04 Payment. Insert the following paragraph following the demobilization payment schedule (4<sup>th</sup> paragraph):</p> <p>The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>112.03.01 General Traffic Control. Replace paragraph three with the following:</p> <p>All flaggers shall be trained in current MUTCD flagging procedures. Proof of training must be available for review at the Department's request. Flagging credentials must be current within the last 5 years.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>112.03.11 Temporary Pavement Markings. B) Placement and Removal of Temporary Striping. Replace the 2<sup>nd</sup> sentence of the first paragraph with the following:</p> <p>On interstates and parkways, and other roadways approved by the State Highway Engineer, install pavement striping that is 6 inches in width.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>112.03.12 Project Traffic Coordinator (PTC). Add the following at the end of the subsection:</p> <p>After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>112.03.15 Non-Compliance of Maintain and Control of Traffic. Add the following section:</p> <p><b>112.03.15 Non-Compliance of Maintain and Control of Traffic.</b> It is the Contractor's responsibility to conform to the traffic control requirements in the TCP, Proposal, plan sheets, specifications, and the Manual on Uniform Traffic Control Devices.</p> <p>Unless specified elsewhere in the contract, a penalty will be assessed in the event of non-compliance with Maintain and Control of Traffic requirements. These penalties will be assessed when the Contractor fails to correct a situation or condition of non-compliance with the contract traffic control requirements after being notified by the Engineer. The calculation of accrued penalties for non-compliance will be based upon the date/time of notification by the Engineer.</p> <p>The amount of the penalty assessed for non-compliance will be determined based upon the work zone duration, as defined by the MUTCD, and will be the greatest of the different calculation methods indicated below:</p> <p>A) Long-term stationary work that occupies a location more than 3 days.</p> <p>Correct the non-compliant issue within 24 hours from initial notification by the Engineer. If the issue is not corrected within 24 hours from the initial notification, a penalty for non-compliance will be assessed on a daily basis beginning from the initial notification of non-compliance. The Contractor will be assessed a \$1,000 daily penalty or the amount equal to the contract liquidated damages in Section 108.09, whichever of the 2 is greater. The penalty for non-compliance will escalate as follows for continued non-compliance after the initial notification.</p> <p>3 Days after Notification \$1,500 daily penalty or 1.5 times the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.</p>

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	<p>7 Days after Notification \$2,000 daily penalty or double the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.</p> <p>B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.</p> <p>Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.</p> <p>C) Short-term stationary is daytime work that occupies a location for more than 1 hour within a single daylight period.</p> <p>Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.</p> <p>If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>206.03.02 Embankment Replace the last paragraph with the following:</p> <p>When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A).</p>
<p><b>SUBSECTION: REVISION:</b></p>	<p>213.03.03 Inspection and Maintenance. Insert the following paragraph after the second paragraph:</p> <p>When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 5 days.</p>
<p><b>SUBSECTION: PART: REVISION:</b></p>	<p>213.03.05 Temporary Control Measures. E) Temporary Seeding and Protection. Replace the first paragraph with the following:</p> <p>Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (<i>Setaria italica</i>), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.</p>

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<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>213.03.05 Temporary Control Measures. F) Temporary Mulch. Replace the last sentence with the following:</p> <p>Place temporary mulch 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. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>303.05 Payment. Replace the second paragraph of the section with the following:</p> <p>The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>401.02.04 Special Requirements for Dryer Drum Plants. F) Production Quality Control. Replace the first sentence with the following:</p> <p>Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>401.02.04 Special Requirements for Dryer Drum Plants. Add the following:</p> <p>Part G) <b>Water Injection System.</b> Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA). Ensure the equipment for water injection meets the following requirements:</p> <ol style="list-style-type: none"> <li>1) Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted);</li> <li>2) Injection equipment has variable controls that introduce water ratios based on production rates of mixtures;</li> <li>3) Injects water into the flow of asphalt binder prior to contacting the aggregate;</li> <li>4) Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate.</li> </ol>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>401.03.01 Preparation of Mixtures. Replace the last sentence of the second paragraph with the following:</p> <p>Do not use asphalt binder while it is foaming in a storage tank.</p>

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<p><b>SUBSECTION: REVISION:</b></p>	<p>401.03.01 Preparation of Mixtures. Replace the third paragraph and Mixing and Laying Temperature table with the following:</p> <p>Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table:</p> <table border="1" data-bbox="391 409 1435 856"> <thead> <tr> <th colspan="4">MIXING AND LAYING TEMPERATURES (°F)</th> </tr> <tr> <th colspan="2">Material</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aggregates</td> <td>240</td> <td>330</td> </tr> <tr> <td colspan="2">Aggregates used with Recycled Asphalt Pavement (RAP)</td> <td>240</td> <td>—</td> </tr> <tr> <td rowspan="2">Asphalt Binders</td> <td>PG 64-22</td> <td>230</td> <td>330</td> </tr> <tr> <td>PG 76-22</td> <td>285</td> <td>350</td> </tr> <tr> <td rowspan="4">Asphalt Mixtures at Plant (Measured in Truck)</td> <td>PG 64-22 HMA</td> <td>250</td> <td>330</td> </tr> <tr> <td>PG 76-22 HMA</td> <td>310</td> <td>350</td> </tr> <tr> <td>PG 64-22 WMA</td> <td>230</td> <td>275</td> </tr> <tr> <td>PG 76-22 WMA</td> <td>250</td> <td>300</td> </tr> <tr> <td rowspan="4">Asphalt Mixtures at Project (Measured in Truck When Discharging)</td> <td>PG 64-22 HMA</td> <td>230</td> <td>330</td> </tr> <tr> <td>PG 76-22 HMA</td> <td>300</td> <td>350</td> </tr> <tr> <td>PG 64-22 WMA</td> <td>210</td> <td>275</td> </tr> <tr> <td>PG 76-22 WMA</td> <td>240</td> <td>300</td> </tr> </tbody> </table>	MIXING AND LAYING TEMPERATURES (°F)				Material		Minimum	Maximum	Aggregates		240	330	Aggregates used with Recycled Asphalt Pavement (RAP)		240	—	Asphalt Binders	PG 64-22	230	330	PG 76-22	285	350	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA	250	330	PG 76-22 HMA	310	350	PG 64-22 WMA	230	275	PG 76-22 WMA	250	300	Asphalt Mixtures at Project (Measured in Truck When Discharging)	PG 64-22 HMA	230	330	PG 76-22 HMA	300	350	PG 64-22 WMA	210	275	PG 76-22 WMA	240	300
MIXING AND LAYING TEMPERATURES (°F)																																																		
Material		Minimum	Maximum																																															
Aggregates		240	330																																															
Aggregates used with Recycled Asphalt Pavement (RAP)		240	—																																															
Asphalt Binders	PG 64-22	230	330																																															
	PG 76-22	285	350																																															
Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA	250	330																																															
	PG 76-22 HMA	310	350																																															
	PG 64-22 WMA	230	275																																															
	PG 76-22 WMA	250	300																																															
Asphalt Mixtures at Project (Measured in Truck When Discharging)	PG 64-22 HMA	230	330																																															
	PG 76-22 HMA	300	350																																															
	PG 64-22 WMA	210	275																																															
	PG 76-22 WMA	240	300																																															
<p><b>SUBSECTION: REVISION:</b></p>	<p>402.01 Description. Replace the paragraph with the following:</p> <p>Provide the process control and acceptance testing of all classes and types of asphalt mixtures which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced with water injection systems.</p>																																																	
<p><b>SUBSECTION REVISION:</b></p>	<p>402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. Add the following subsection:</p> <p>402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.</p>																																																	
<p><b>SUBSECTION: REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below:</p> <p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.</p>																																																	
<p><b>SUBSECTION: REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following:</p> <p>The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each subplot and average the subplot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.</p>																																																	

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<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. C) Conventional and RAP Mixtures Placed on Shoulders. Replace title with the following:  HMA, WMA, and RAP Mixtures Placed on Shoulders.</p>												
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. Replace the title with the following:  HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.</p>												
<p><b>SUBSECTION:</b> <b>PART:</b> <b>TABLES:</b> <b>REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures VMA Replace the VMA table with the following:</p> <table border="1" data-bbox="753 739 1117 955"> <thead> <tr> <th colspan="2">VMA</th> </tr> <tr> <th>Pay Value</th> <th>Deviation From Minimum</th> </tr> </thead> <tbody> <tr> <td>1.00</td> <td>≥ min. VMA</td> </tr> <tr> <td>0.95</td> <td>0.1-0.5 below min.</td> </tr> <tr> <td>0.90</td> <td>0.6-1.0 below min.</td> </tr> <tr> <td>(1)</td> <td>&gt; 1.0 below min.</td> </tr> </tbody> </table>	VMA		Pay Value	Deviation From Minimum	1.00	≥ min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	(1)	> 1.0 below min.
VMA													
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<p><b>SUBSECTION:</b> <b>PART:</b> <b>TABLES:</b> <b>REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures VMA Replace the VMA table with the following:</p> <table border="1" data-bbox="737 1121 1101 1373"> <thead> <tr> <th colspan="2">VMA</th> </tr> <tr> <th>Pay Value</th> <th>Deviation From Minimum</th> </tr> </thead> <tbody> <tr> <td>1.00</td> <td>≥ min. VMA</td> </tr> <tr> <td>0.95</td> <td>0.1-0.5 below min.</td> </tr> <tr> <td>0.90</td> <td>0.6-1.0 below min.</td> </tr> <tr> <td>(1)</td> <td>&gt; 1.0 below min.</td> </tr> </tbody> </table>	VMA		Pay Value	Deviation From Minimum	1.00	≥ min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	(1)	> 1.0 below min.
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<p><b>SUBSECTION:</b> <b>PART:</b> <b>TABLE:</b> <b>REVISION:</b></p>	<p>402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option B Mixtures VMA Replace the VMA table with the following:</p> <table border="1" data-bbox="743 388 1107 640"> <thead> <tr> <th colspan="2">VMA</th> </tr> <tr> <th>Pay Value</th> <th>Deviation From Minimum</th> </tr> </thead> <tbody> <tr> <td>1.00</td> <td>≥min. VMA</td> </tr> <tr> <td>0.95</td> <td>0.1-0.5 below min.</td> </tr> <tr> <td>0.90</td> <td>0.6-1.0 below min.</td> </tr> <tr> <td><sup>(2)</sup></td> <td>&gt; 1.0 below min.</td> </tr> </tbody> </table>	VMA		Pay Value	Deviation From Minimum	1.00	≥min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	<sup>(2)</sup>	> 1.0 below min.											
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<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>REVISION:</b></p>	<p>403.03.03 Preparation of Mixture. C) Mix Design Criteria. 1) Preliminary Mix Design. Replace the last two sentences of the paragraph and table with the following:</p> <p>Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows:</p> <table border="1" data-bbox="565 934 1269 1087"> <thead> <tr> <th rowspan="2">Class</th> <th rowspan="2">ESAL's (millions)</th> <th colspan="3">Number of Gyration</th> </tr> <tr> <th><i>N</i><sub>initial</sub></th> <th><i>N</i><sub>design</sub></th> <th><i>N</i><sub>max</sub></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>&lt; 3.0</td> <td>6</td> <td>50</td> <td>75</td> </tr> <tr> <td>3</td> <td>3.0 to &lt; 30.0</td> <td>7</td> <td>75</td> <td>115</td> </tr> <tr> <td>4</td> <td>≥ 30.0</td> <td>8</td> <td>100</td> <td>160</td> </tr> </tbody> </table>	Class	ESAL's (millions)	Number of Gyration			<i>N</i> <sub>initial</sub>	<i>N</i> <sub>design</sub>	<i>N</i> <sub>max</sub>	2	< 3.0	6	50	75	3	3.0 to < 30.0	7	75	115	4	≥ 30.0	8	100	160
Class	ESAL's (millions)			Number of Gyration																				
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<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>403.03.09 Leveling and Wedging, and Scratch Course. A) Leveling and Wedging. Replace the first sentence of the first paragraph with the following:</p> <p>Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.</p>																							
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>403.03.09 Leveling and Wedging, and Scratch Course. B) Scratch Course. Replace the second sentence of the first paragraph with the following:</p> <p>Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.</p>																							
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>407.01 DESCRIPTION. Replace the first sentence of the paragraph with the following:</p> <p>Construct a pavement wedge composed of a hot-mixed or warm-mixed asphalt mixture.</p>																							
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>409.01 DESCRIPTION. Replace the first sentence of the paragraph with the following:</p> <p>Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied.</p>																							
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>410.01 DESCRIPTION. Delete the second sentence of the paragraph.</p>																							

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<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>410.03.01 Corrective Work. Replace the last sentence of the paragraph with the following:  Provide a final surface comparable to the adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.</p>														
<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>REVISION:</b></p>	<p>410.03.02 Ride Quality. B) Requirements. 1) Category A. Replace the last sentence of the first paragraph with the following:  At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.</p>														
<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>REVISION:</b></p>	<p>410.03.02 Ride Quality. B) Requirements. 2) Category B. Replace the second and third sentence of the first paragraph with the following:  When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.</p>														
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>410.05 PAYMENT. Add the following sentence to the end of the first paragraph:  The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.</p>														
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>413.05.02 CL3 SMA BASE 1.00D PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:  The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.</p>														
<p><b>SUBSECTION:</b> <b>TABLE:</b> <b>REVISION:</b></p>	<p>413.05.02 CL3 SMA BASE 1.00D PG 76-22. JOINT DENSITY TABLE Replace the joint density table with the following:</p> <table border="1" data-bbox="695 1402 1140 1671"> <thead> <tr> <th colspan="2">LANE DENSITY</th> </tr> <tr> <th>Pay Value</th> <th>Test Result (%)</th> </tr> </thead> <tbody> <tr> <td>1.05</td> <td>95.0-96.5</td> </tr> <tr> <td>1.00</td> <td>93.0-94.9</td> </tr> <tr> <td>0.95</td> <td>92.0-92.9 or 96.6-97.0</td> </tr> <tr> <td>0.90</td> <td>91.0-91.9 or 97.1-97.5</td> </tr> <tr> <td>(1)</td> <td>&lt; 91.0 or &gt; 97.5</td> </tr> </tbody> </table>	LANE DENSITY		Pay Value	Test Result (%)	1.05	95.0-96.5	1.00	93.0-94.9	0.95	92.0-92.9 or 96.6-97.0	0.90	91.0-91.9 or 97.1-97.5	(1)	< 91.0 or > 97.5
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<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:  The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.</p>														

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<p><b>SUBSECTION:</b> 413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. <b>TABLE:</b> JOINT DENSITY TABLE <b>REVISION:</b> Replace the joint density table with the following:</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3" style="text-align: center;">DENSITY</th> </tr> <tr> <th style="text-align: center;">Pay Value</th> <th style="text-align: center;">Lane Density Test Result (%)</th> <th style="text-align: center;">Joint Density Test Result (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.05</td> <td style="text-align: center;">95.0-96.5</td> <td style="text-align: center;">92.0-96.0</td> </tr> <tr> <td style="text-align: center;">1.00</td> <td style="text-align: center;">93.0-94.9</td> <td style="text-align: center;">90.0-91.9</td> </tr> <tr> <td style="text-align: center;">0.95</td> <td style="text-align: center;">92.0-92.9 or 96.6-97.0</td> <td style="text-align: center;">89.0-89.9 or 96.1-96.5</td> </tr> <tr> <td style="text-align: center;">0.90</td> <td style="text-align: center;">91.0-91.9 or 97.1-97.5</td> <td style="text-align: center;">88.0-88.9 or 96.6-97.0</td> </tr> <tr> <td style="text-align: center;">0.75</td> <td style="text-align: center;">----</td> <td style="text-align: center;">&lt; 88.0 or &gt; 97.0</td> </tr> <tr> <td style="text-align: center;"><i>(1)</i></td> <td style="text-align: center;">&lt; 91.0 or &gt; 97.5</td> <td style="text-align: center;">----</td> </tr> </tbody> </table>	DENSITY			Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	1.05	95.0-96.5	92.0-96.0	1.00	93.0-94.9	90.0-91.9	0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5	0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	0.75	----	< 88.0 or > 97.0	<i>(1)</i>	< 91.0 or > 97.5	----
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<p><b>SUBSECTION:</b> 501.05.02 Ride Quality. <b>REVISION:</b> Add the following sentence to the end of the first paragraph:</p>	<p>The sum of the pay value adjustments for the ride quality shall not exceed \$0 for the project as a whole.</p>																								
<p><b>SUBSECTION:</b> 505.03.04 Detectable Warnings. <b>REVISION:</b> Replace the first sentence with the following:</p>	<p>Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the Standard Drawings.</p>																								
<p><b>SUBSECTION:</b> 505.04.04 Detectable Warnings. <b>REVISION:</b> Replace the paragraph with the following:</p>	<p>The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.</p>																								
<p><b>SUBSECTION:</b> 505.05 PAYMENT. <b>REVISION:</b> Add the following to the bid item table:</p>	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Pay Item</u></th> <th style="text-align: left;"><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>23158ES505</td> <td>Detectable Warnings</td> <td>Square Foot</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	23158ES505	Detectable Warnings	Square Foot																		
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23158ES505	Detectable Warnings	Square Foot																							
<p><b>SUBSECTION:</b> 509.01 DESCRIPTION. <b>REVISION:</b> Replace the second paragraph with the following:</p>	<p>The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, length, material, drain slot dimensions and locations typical features are met and the reported maximum deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph at a 25-degree angle.)</p>																								

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<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>601.03.02 Concrete Producer Responsibilities. Replace the first sentence with the following:</p> <p>Obtain the concrete from producers that are in compliance with KM 64-323 and on the Department's List of Approved Materials.</p> <p>Add the following to the first paragraph:</p> <p>If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.02 Concrete Producer Responsibilities. B) Certified Personnel. Replace the second sentence with the following:</p> <p>Ensure that the concrete technicians are certified as ACI Level I (Level I) and KRMCA Level II (Level II).</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.02 Concrete Producer Responsibilities. C) Quality Control. Replace the second sentence with the following:</p> <p>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, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.02 Concrete Producer Responsibilities. D) Producer Testing. Replace with the following:</p> <p>When producing for state work, have a Qualified Concrete Aggregate Technician or KYTC Qualified Aggregate Technician perform, at a minimum, weekly gradations and minus 200 wash tests and daily moisture contents of coarse and fine aggregate (Fine aggregates will not require a minus 200 wash test). Using the daily moisture contents, adjust the approved mix design accordingly prior to production. 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, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.02 Concrete Producer Responsibilities. E) Trip Tickets. Replace the second sentence with the following:</p> <p>Include on the trip ticket the Sample ID for the approved mix design and a statement certifying that the data on the ticket is correct and that the mixture conforms to the mix design.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>REVISION:</b></p>	<p>601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. Replace the second sentence with the following:</p> <p>Reduction of the total cement content by a combination of mineral admixtures will be allowed, up to a maximum of 40 percent.</p>

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<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>LETTER:</b> <b>REVISION:</b></p>	<p>601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. a) Fly Ash. Delete the last sentence of the third paragraph.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>NUMBER:</b> <b>LETTER:</b> <b>REVISION:</b></p>	<p>601.03.03 Proportioning and Requirements. C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures 2) Mineral Admixtures. b) Ground Granulated Blast Furnace Slag (GGBF Slag). Delete the second sentence of the third paragraph.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.03 Proportioning and Requirements. E) Measuring. Add the following sentence:  Conform to the individual ingredient material batching tolerances in Appendix A.</p>
<p><b>SUBSECTION:</b> <b>PART:</b> <b>REVISION:</b></p>	<p>601.03.09 Placing Concrete. A) General. Replace the last sentence of the fourth paragraph with the following:  Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for lengths greater than 20 feet.  Replace the second sentence of the fifth paragraph with the following:  When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the Engineer.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>605.02.05 Forms. Delete the last sentence.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>605.03.04 Tack Welding. Replace with the following:  The Department does not allow tack welding.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>606.02.11 Coarse Aggregate. Replace with the following:  Conform to Section 805, size No. 8 or 9-M.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>609.04.06 Joint Sealing. Replace Subsection 601.04 with the following:  Subsection 606.04.08.</p>
<p><b>SUBSECTION:</b> <b>REVISION:</b></p>	<p>609.05 Payment. Replace the Pay Unit for Joint Sealing with the following:  See Subsection 606.05.</p>

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<p><b>SUBSECTION: REVISION:</b></p>	<p>701.03.06 Initial Backfill. Replace the first sentence of the last paragraph with the following:</p> <p>When the Contract specifies, perform quality control testing to verify compaction according to KM 64-512.</p>						
<p><b>SUBSECTION: REVISION:</b></p>	<p>701.03.08 Testing of Pipe. Replace and rename the subsection with the following:</p> <p><b>701.03.08 Inspection of Pipe.</b> The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project.</p> <p>Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible.</p> <p>Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114.</p> <p>Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmental conditions, design service life, and an evaluation of the factor of safety using Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a reduced unit price as shown in the table below. Provide 5 business days for the Department to review the evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When the camera/video or laser inspection results are called into question, the Department may require direct measurements or mandrel testing.</p> <p>The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.</p>						
<p><b>SUBSECTION: REVISION:</b></p>	<p>701.04.07 Testing. Replace and rename the subsection with the following:</p> <p><b>701.04.07 Pipeline Video Inspection.</b> The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.</p>						
<p><b>SUBSECTION: REVISION:</b></p>	<p>701.05 PAYMENT. Add the following pay item to the list of pay items:</p> <table border="0"> <tr> <td><u>Code</u></td> <td><u>Pay Item</u></td> <td><u>Pay Unit</u></td> </tr> <tr> <td>23131ER701</td> <td>Pipeline Video Inspection</td> <td>Linear Foot</td> </tr> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	23131ER701	Pipeline Video Inspection	Linear Foot
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>					
23131ER701	Pipeline Video Inspection	Linear Foot					

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<b>SUBSECTION:</b> <b>TABLE:</b> <b>REVISION:</b>	<p>701.05 PAYMENT PIPE DEFLECTION DETERMINED BY CAMERA TESTING Replace this table with the following table and note:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">PIPE DEFLECTION</th> </tr> <tr> <th style="text-align: center;">Amount of Deflection (%)</th> <th style="text-align: center;">Payment</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0.0 to 5.0</td> <td style="text-align: center;">100% of the Unit Bid Price</td> </tr> <tr> <td style="text-align: center;">5.1 to 9.9</td> <td style="text-align: center;">50% of the Unit Bid Price <sup>(1)</sup></td> </tr> <tr> <td style="text-align: center;">10 or greater</td> <td style="text-align: center;">Remove and Replace</td> </tr> </tbody> </table> <p><sup>(1)</sup> Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price.</p>	PIPE DEFLECTION		Amount of Deflection (%)	Payment	0.0 to 5.0	100% of the Unit Bid Price	5.1 to 9.9	50% of the Unit Bid Price <sup>(1)</sup>	10 or greater	Remove and Replace		
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<b>SUBSECTION:</b> <b>TABLE:</b> <b>REVISION:</b>	<p>701.05 PAYMENT PIPE DEFLECTION DETERMINED BY MANDREL TESTING Delete this table.</p>												
<b>SUBSECTION:</b> <b>REVISION:</b>	<p>713.02.01 Paint. Replace with the following:  Conform to Section 842 and Section 846.</p>												
<b>SUBSECTION:</b> <b>REVISION:</b>	<p>713.03 CONSTRUCTION. Replace the first sentence of the second paragraph with the following:  On interstates and parkways, and other routes approved by the State Highway Engineer, install pavement striping that is 6 inches in width.</p>												
<b>SUBSECTION:</b> <b>REVISION:</b>	<p>713.03.03 Paint Application. Replace the second paragraph with the following table:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Material</th> <th style="text-align: center;">Paint Application Rate</th> <th style="text-align: center;">Glass Beads Application Rate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4 inch waterborne paint</td> <td style="text-align: center;">Min. of 16.5 gallons/mile</td> <td style="text-align: center;">Min. of 6 pounds/gallon</td> </tr> <tr> <td style="text-align: center;">6 inch waterborne paint</td> <td style="text-align: center;">Min. of 24.8 gallons/mile</td> <td style="text-align: center;">Min. of 6 pounds/gallon</td> </tr> <tr> <td style="text-align: center;">6 inch durable waterborne paint</td> <td style="text-align: center;">Min. of 36 gallons/mile</td> <td style="text-align: center;">Min. of 6 pounds/gallon</td> </tr> </tbody> </table>	Material	Paint Application Rate	Glass Beads Application Rate	4 inch waterborne paint	Min. of 16.5 gallons/mile	Min. of 6 pounds/gallon	6 inch waterborne paint	Min. of 24.8 gallons/mile	Min. of 6 pounds/gallon	6 inch durable waterborne paint	Min. of 36 gallons/mile	Min. of 6 pounds/gallon
Material	Paint Application Rate	Glass Beads Application Rate											
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<b>SUBSECTION:</b> <b>REVISION:</b>	<p>713.03.04 Marking Removal. Replace the last sentence of the paragraph with the following:  Vacuum all marking material and removal debris concurrently with the marking removal operation.</p>												
<b>SUBSECTION:</b> <b>REVISION:</b>	<p>713.05 PAYMENT. Insert the following codes and pay items below the Pavement Striping – Permanent Paint:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Pay Item</u></th> <th style="text-align: left;"><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>23159EN</td> <td>Durable Waterborne Marking – 6 IN W</td> <td>Linear Foot</td> </tr> <tr> <td>23160EN</td> <td>Durable Waterborne Marking – 6 IN Y</td> <td>Linear Foot</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	23159EN	Durable Waterborne Marking – 6 IN W	Linear Foot	23160EN	Durable Waterborne Marking – 6 IN Y	Linear Foot			
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>											
23159EN	Durable Waterborne Marking – 6 IN W	Linear Foot											
23160EN	Durable Waterborne Marking – 6 IN Y	Linear Foot											
<b>SUBSECTION:</b> <b>REVISION:</b>	<p>714.03 CONSTRUCTION. Insert the following paragraph at the end of the third paragraph:  Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement.</p>												

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<b>SUBSECTION: REVISION:</b>	714.03.07 Marking Removal. Replace the third sentence of the paragraph with the following:  Vacuum all marking material and removal debris concurrently with the marking removal operation.
<b>SUBSECTION: REVISION:</b>	716.01 DESCRIPTION. Insert the following after the first sentence:  Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.
<b>SUBSECTION: REVISION:</b>	716.02.01 Roadway Lighting Materials. Replace the third sentence of the paragraph with the following:  Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data.
<b>SECTION: REVISION:</b>	717 – THERMOPLASTIC INTERSECTION MARKINGS. Replace the section name with the following:  INTERSECTION MARKINGS.
<b>SUBSECTION: REVISION:</b>	717.01 DESCRIPTION: Replace the paragraph with the following:  Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion process or by applying preformed thermoplastic intersection marking material.
<b>SUBSECTION: REVISION:</b>	717.02 MATERIALS AND EQUIPMENT. Insert the following subsection:  717.02.06 Type I Tape. Conform to Section 836.
<b>SUBSECTION: REVISION:</b>	717.03.03 Application. Insert the following part to the subsection:  B) Type I Tape Intersection Markings. Apply according to the manufacturer’s recommendations. Cut all tape at pavement joints when applied to concrete surfaces.
<b>SUBSECTION: PART: REVISION:</b>	717.03.05 Proving Period. A) Requirements. Insert the following to this section:  2) Type I Tape. During the proving period, ensure that the pavement marking material shows no signs of failure due to blistering, excessive cracking, bleeding, staining, discoloration, oil content of the pavement materials, drippings, chipping, spalling, poor adhesion to the pavement, loss of retroreflectivity, vehicular damage, and normal wear. Type I Tape is manufactured off site and warranted by the manufacturer to meet certain retroreflective requirements. As long as the material is adequately bonded to the surface and shows no signs of failure due to the other items listed in Subsection 714.03.06 A) 1), retroreflectivity readings will not be required. In the absence of readings, the Department will accept tape based on a nighttime visual observation.

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<b>SUBSECTION: REVISION:</b>	717.03.06 Marking Removal. Replace the third sentence of the paragraph with the following:  Vacuum all marking material and removal debris concurrently with the marking removal operation.																																							
<b>SUBSECTION: REVISION:</b>	717.05 PAYMENT. Insert the following bid item codes:  <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Unit</u></th> <th><u>Pay Item</u></th> </tr> </thead> <tbody> <tr> <td>06563</td> <td>Pave Marking – R/R X Bucks 16 IN</td> <td>Linear Foot</td> </tr> <tr> <td>20782NS714</td> <td>Pave Marking Thermo – Bike</td> <td>Each</td> </tr> <tr> <td>23251ES717, 23264ES717</td> <td>Pave Mark TY I Tape X-Walk, Size</td> <td>Linear Foot</td> </tr> <tr> <td>23252ES717, 23265ES717</td> <td>Pave Mark TY I Tape Stop Bar, Size</td> <td>Linear Foot</td> </tr> <tr> <td>23253ES717</td> <td>Pave Mark TY I Tape Cross Hatch</td> <td>Square Foot</td> </tr> <tr> <td>23254ES717</td> <td>Pave Mark TY I Tape Dotted Lane Extension</td> <td>Linear Foot</td> </tr> <tr> <td>23255ES717</td> <td>Pave Mark TY I Tape Arrow, Type</td> <td>Each</td> </tr> <tr> <td>23268ES717-23270ES717</td> <td></td> <td></td> </tr> <tr> <td>23256ES717</td> <td>Pave Mark TY I Tape- ONLY</td> <td>Each</td> </tr> <tr> <td>23257ES717</td> <td>Pave Mark TY I Tape- SCHOOL</td> <td>Each</td> </tr> <tr> <td>23266ES717</td> <td>Pave Mark TY 1 Tape R/R X Bucks-16 IN</td> <td>Linear Foot</td> </tr> <tr> <td>23267ES717</td> <td>Pave Mark TY 1 Tape-Bike</td> <td>Each</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Unit</u>	<u>Pay Item</u>	06563	Pave Marking – R/R X Bucks 16 IN	Linear Foot	20782NS714	Pave Marking Thermo – Bike	Each	23251ES717, 23264ES717	Pave Mark TY I Tape X-Walk, Size	Linear Foot	23252ES717, 23265ES717	Pave Mark TY I Tape Stop Bar, Size	Linear Foot	23253ES717	Pave Mark TY I Tape Cross Hatch	Square Foot	23254ES717	Pave Mark TY I Tape Dotted Lane Extension	Linear Foot	23255ES717	Pave Mark TY I Tape Arrow, Type	Each	23268ES717-23270ES717			23256ES717	Pave Mark TY I Tape- ONLY	Each	23257ES717	Pave Mark TY I Tape- SCHOOL	Each	23266ES717	Pave Mark TY 1 Tape R/R X Bucks-16 IN	Linear Foot	23267ES717	Pave Mark TY 1 Tape-Bike	Each
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<b>SUBSECTION: REVISION:</b>	725.02.02 Type VI Class C & CT. Replace bullet 2) with the following:  2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all miscellaneous metal work conform to ASTM A 36 and galvanize according to ASTM A 123. For the SCI100GM fender panels conform to AASHTO 180. Galvanize the SCI100GM fender panels and SCI100GM -beam connectors after fabrication according to ASTM A 123.																																							
<b>SUBSECTION: REVISION:</b>	725.02.04 Type VII Class C. Replace bullet 2) with the following:  2) The SCI100GM System as developed by SCI Products, Inc. of St. Charles, Illinois. For all miscellaneous metal work conform to ASTM A 36 and galvanize according to ASTM A 123. For the SCI100GM fender panels conform to AASHTO 180. Galvanize the SCI100GM fender panels and SCI100GM-beam connectors after fabrication according to ASTM A 123.																																							
<b>SUBSECTION: REVISION:</b>	801.01 REQUIREMENTS. Delete the fourth sentence of the first paragraph and add the following to the second paragraph.  When supplying cement with a SO <sub>3</sub> content above the value in table I of ASTM C 150, include supportive ASTM C 1038 14-day expansion test data for the supplied SO <sub>3</sub> content on the certification.																																							
<b>SUBSECTION: REVISION:</b>	805.01 GENERAL. Replace the second paragraph with the following:  The Department’s List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.																																							
<b>SUBSECTION: REVISION:</b>	805.04 CONCRETE. Replace the “AASHTO T 160” reference in first sentence of the third paragraph with “KM 64-629”																																							
<b>SUBSECTION: TABLE: PART: REVISION:</b>	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. AGGREGATE SIZE USE Cement Concrete Structures and Incidental Construction Replace “9-M for Waterproofing Overlays” with “8 or 9-M for Waterproofing Overlays”																																							

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**SUBSECTION:** 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.  
**REVISION:** Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

Aggregate Size	Sieve	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT															
		4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90	0-15			0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30							
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100	35-70	10-30	0-5							
5	1 inch					100	90-100	20-55	0-10	0-5							
57	1 inch					100	95-100		25-60		0-10	0-5					
610	1 inch					100	85-100		40-75		15-40						
67	3/4 inch						100	90-100		20-55	0-10	0-5					
68	3/4 inch						100	90-100		30-65	5-25	0-10	0-5				
710	3/4 inch						100	80-100		30-75	0-30						
78	1/2 inch							100	90-100	40-75	5-25	0-10	0-5				
8	3/8 inch								100	85-100	10-30	0-10	0-5				
9-M	3/8 inch								100	75-100	0-25	0-5					
10 <sup>(2)</sup>	No. 4									100	85-100			10-30			
11 <sup>(2)</sup>	No. 4									100	40-90	10-40			0-5		
DENSE GRADED AGGREGATE <sup>(1)</sup>	3/4 inch						100	70-100		50-80	30-65			10-40		4-13	
CRUSHED STONE BASE <sup>(1)</sup>	1 1/2 inch				100			60-95		30-70	15-55			5-20		0-8	

<sup>(1)</sup> Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

<sup>(2)</sup> Sizes shown for convenience and are not to be considered as coarse aggregates.

<sup>(3)</sup> Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

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<p><b>SUBSECTION: REVISION:</b></p>	<p>805.16 SAMPLING AND TESTING. Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion Test.  Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue.</p>									
<p><b>SUBSECTION: REVISION:</b></p>	<p>810.04.01 Coating Requirements. Replace the "Subsection 806.07" references with "Subsection 806.06"</p>									
<p><b>SUBSECTION: PART: REVISION:</b></p>	<p>810.06.01 Polyvinyl Chloride (PVC) Pipe. B) Culvert and Entrance Pipe. Replace the title with the following:  B) Culvert Pipe, Storm Sewer, and Entrance Pipe.</p>									
<p><b>SUBSECTION: REVISION:</b></p>	<p>823.02 LIQUID MEMBRANE FORMING COMPOUNDS. Add the following:  Effective July 1, 2011, to remain on or be added to the Department's approved list, products must have completed testing or been submitted for testing through the National Transportation Product Evaluation Program (NTPEP) for Concrete Curing Compounds.</p>									
<p><b>SUBSECTION: REVISION:</b></p>	<p>837.03 APPROVAL. Replace the last sentence with the following:  The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material.</p>									
<p><b>SUBSECTION: REVISION:</b></p>	<p>837.03.01 Composition. COMPOSITION Table: Replace  <table border="1" data-bbox="391 1199 1295 1289"> <tr> <td>Lead Chromate</td> <td>0.0 max.</td> <td>4.0 min.</td> </tr> <tr> <td colspan="3">with</td> </tr> <tr> <td>Heavy Metals Content</td> <td colspan="2">Comply with 40 CFR 261</td> </tr> </table> </p>	Lead Chromate	0.0 max.	4.0 min.	with			Heavy Metals Content	Comply with 40 CFR 261	
Lead Chromate	0.0 max.	4.0 min.								
with										
Heavy Metals Content	Comply with 40 CFR 261									
<p><b>SUBSECTION: TABLE: REVISION:</b></p>	<p>842.02 APPROVAL. PAINT COMPOSITION Revise the following in the table:  Replace the 2.0ΔE* values in the table with 4.0ΔE* for both Yellow and White Paint on both the Daytime and Nighttime Color Spectrophotometer.</p>									
<p><b>SECTION: REVISION:</b></p>	<p>DIVISION 800 MATERIAL DETAILS Add the following section in Division 800  <b>SECTION 846 – DURABLE WATERBORNE PAINT</b>  <b>846.01 DESCRIPTION.</b> This section covers quick-drying durable waterborne pavement striping paint for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces.  <b>846.02 Approval.</b> Select materials that conform to the composition requirements below. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content. Submit initial samples for approval before beginning striping</p>									

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operations. The initial sample may be sent from the manufacture of the paint. The Department will randomly sample and evaluate the paint each week that the striping operations are in progress.

The non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis. The acrylic resin used shall be a 100% cross-linking acrylic as evidenced by infrared peaks at wavelengths 1568, 1624, and 1672 cm-1 with intensities equal to those produced by an acrylic resin known to be 100% cross-linking.

PAINT COMPOSITION		
Property and Test Method	Yellow	White
Daytime Color (CIELAB) Spectrophotometer using illuminant D65 at 45° illumination and 0° viewing with a 2° observer	L* 81.76 a* 19.79 b* 89.89 Maximum allowable variation 4.0ΔE*	L* 93.51 a* -1.01 b* 0.70 Maximum allowable variation 4.0ΔE*
Nighttime Color (CIELAB) Spectrophotometer using illuminant A at 45° illumination and 0° viewing with a 2° observer	L* 86.90 a* 24.80 b* 95.45 Maximum allowable variation 4.0ΔE*	L* 93.45 a* -0.79 b* 0.43 Maximum allowable variation 4.0ΔE*
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261
Titanium Dioxide ASTM D 4764	NA	10% by weight of pigment min.
VOC ASTM D 2369 and D 4017	1.25 lb/gal max.	1.25 lb/gal max.
Contrast Ratio (at 15 mils wft)	0.97	0.99

**846.02.01 Manufacturers Certification.** Provide a certification of analysis for each lot of traffic paint produced stating conformance to the requirements of this section. Report the formulation identification, traffic paint trade name, color, date of manufacturer, total quantity of lot produced, actual quantity of traffic paint represented, sampling method utilized to obtain the samples, and data for each sample tested to represent each lot produced.

**846.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT.** When non-specification paint is inadvertently incorporated into the work the Department will accept the material with a reduction in pay. The percentage deduction is cumulative based on its compositional properties, but will not exceed 60 percent. The Department will calculate the payment reduction on the unit bid price for the routes where the non-specification paint was used.

DURABLE WATERBORNE PAVEMENT STRIPING PAINT REDUCTION SCHEDULE						
Non-conforming Property	Resin	Color	Contrast	TiO <sub>2</sub>	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

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for Road and Bridge Construction, 2008 Edition**  
(Effective with the December 10, 2010 Letting)

<b>APPENDIX A:</b> <b>PART:</b> <b>REVISION:</b>	TABLUTION OF CONSTRUCTION TOLERANCES. 601.03.03 Replace with the following:  Concrete; accuracy of individual ingredient material for each batch. ± 2.0 for aggregates ± 1.0 for water ± 1.0 for cement in batches of 4 cubic yards or greater ± 1.0 for total cementitious materials in batches of 4 cubic yards or greater 0.0 to + 4.0 for cement in batches less than 4 cubic yards 0.0 to + 4.0 for total cementitious materials in batches less than 4 cubic yards ± 3.0 for admixtures
<b>APPENDIX A:</b> <b>PART:</b> <b>REVISION:</b>	TABLUTION OF CONSTRUCTION TOLERANCES. 601.03.03 C) 2) Delete

**STANDARD DRAWINGS THAT APPLY**

MOBILE OPERATION FOR PAINT STRIPING CASE I.....	TTS-100-01
MOBILE OPERATION FOR PAINT STRIPING CASE II.....	TTS-105-01
MOBILE OPERATION FOR PAINT STRIPING CASE III.....	TTS-110-01
MOBILE OPERATION FOR PAINT STRIPING CASE IV.....	TTS-115-01

## **PART III**

### **EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**

## TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

### LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

#### I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

#### II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY  
GENERAL ASSEMBLY TO PREVENT  
DISCRIMINATION IN EMPLOYMENT  
KRS CHAPTER 344  
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual

because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

#### III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

#### IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or

mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

## EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

### **Kentucky Equal Employment Opportunity Act of 1978**

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:  
**<https://www.eProcurement.ky.gov>**.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **[finance.contractcompliance@ky.gov](mailto:finance.contractcompliance@ky.gov)** or by phone at 502-564-2874.

**Kentucky Determination No. CR-10-II-HWY dated July 12, 2010**

	<b>BASIC HOURLY RATES</b>	<b>FRINGE BENEFIT PAYMENTS COMBINED</b>
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**CRAFTS:**

Boilermakers .....	24.65	12.94
Bricklayers.....	22.90	8.50
Stone Mason.....	21.50	8.50
Carpenters .....	21.40	8.50
Cement Masons .....	21.25	8.50
Electricians .....	*29.26	10.53

\*When workmen are required to work from bosom chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to a direct fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.

Ironworkers: Structural.....	21.50	8.50
Ironworkers: Reinforcing.....	21.30	8.50
Painters:		
All Excluding Bridges .....	19.92	9.57
Bridges .....	23.92	10.07
Piledrivers.....	21.05	8.50
Plumbers.....	22.52	7.80
Sheet Metal .....	20.40	7.80
Welders- Receive rate for craft in which welding is incidental.		

**LABORERS:**

General Laborer, Flagman, Steam Jenny.	<b>BASE RATE</b> .....	19.45
	<b>FRINGE BENEFITS</b> .....	8.50

Batch Truck Dumper, Deck Hand or Scow Man,  
Hand Blade Operator.

	<b>BASE RATE</b> .....	19.70
	<b>FRINGE BENEFITS</b> .....	8.50

### Kentucky Determination No. CR-10-II-HWY dated July 12, 2010

**LABORERS:** (continued)

Power Driven Tool Operator of the following: Wagon Drill, Chain Saw, Sand Blaster, Concrete Chipper, Pavement Breaker, Vibrator, Power Wheelbarrow, Power Buggy, Sewer Pipe Layer, Bottom Men, Dry Cement Handler, Concrete Rubber, Mason Tender.

**BASE RATE** ..... 19.80  
**FRINGE BENEFITS** ..... 8.50

Asphalt Lute and Rakerman, Side Rail Setter.

**BASE RATE** ..... 19.85  
**FRINGE BENEFITS** ..... 8.50

Gunnite Nozzle Man, Gunnite Operator.

**BASE RATE** ..... 19.95  
**FRINGE BENEFITS** ..... 8.50

Tunnel Laborer (Free Air).

**BASE RATE** ..... 20.00  
**FRINGE BENEFITS** ..... 8.50

Tunnel Mucker (Free Air).

**BASE RATE** ..... 20.05  
**FRINGE BENEFITS** ..... 8.50

Tunnel Miner, Blaster and Driller (Free Air).

**BASE RATE** ..... 20.40  
**FRINGE BENEFITS** ..... 8.50

Caisson Worker

**BASE RATE** ..... 20.95  
**FRINGE BENEFITS** ..... 8.50

Powderman

**BASE RATE** ..... 21.05  
**FRINGE BENEFITS** ..... 8.50

Drill Operator of Percussion type Drills which are both powered and propelled by an independent air supply.

**BASE RATE** ..... 22.25  
**FRINGE BENEFITS** ..... 8.50

**Kentucky Determination No. CR-10-II-HWY dated July 12, 2010**

**TRUCK DRIVERS AND RELATED CLASSIFICATIONS:**

Truck helper and Warehouseman.	<b>BASE RATE</b> ..... 19.70 <b>FRINGE BENEFITS</b> ..... 8.50
Driver, Winch Truck and A-Frame when used in transporting materials.	<b>BASE RATE</b> ..... 19.80 <b>FRINGE BENEFITS</b> ..... 8.50
Driver (Semi-Trailer or Pole Trailer), Driver (Dump Truck, Tandem Axle), Driver of Distributor.	<b>BASE RATE</b> ..... 19.90 <b>FRINGE BENEFITS</b> ..... 8.50
Driver on Mixer Trucks (All Types).	<b>BASE RATE</b> ..... 19.95 <b>FRINGE BENEFITS</b> ..... 8.50
Truck Mechanic	<b>BASE RATE</b> ..... 20.00 <b>FRINGE BENEFITS</b> ..... 8.50
Driver (3 tons and under), Tire Changer and Truck Mechanic Helper.	<b>BASE RATE</b> ..... 20.03 <b>FRINGE BENEFITS</b> ..... 8.50
Driver on Pavement Breakers.	<b>BASE RATE</b> ..... 20.05 <b>FRINGE BENEFITS</b> ..... 8.50
Driver (over 3 tons), Driver (Truck Mounted Rotary Drill).	<b>BASE RATE</b> ..... 20.24 <b>FRINGE BENEFITS</b> ..... 8.50
Driver, Euclid and other Heavy Earth Moving Equipment and Low Boy.	<b>BASE RATE</b> ..... 20.81 <b>FRINGE BENEFITS</b> ..... 8.50
Greaser on Greasing Facilities.	<b>BASE RATE</b> ..... 20.90 <b>FRINGE BENEFITS</b> ..... 8.50

**Kentucky Determination No. CR-10-II-HWY dated July 12, 2010**

**OPERATING ENGINEERS:**

**GROUP A:**

Auto Patrol, Batch Plant, Bituminous Paver, Cable-Way, Clamshell, Concrete Mixer (21 cu. ft. or over), Concrete Pump, Crane, Crusher Plant, Derrick, Derrick Boat, Ditching and Trenching Machine, Dragline, Dredge Engineer, Elevator (regardless of ownership when used for hoisting any building material), Elevating Grader and all types of Loaders, Hoe-Type Machine, Hoisting Engine, Locomotive, LeTourneau or Carry-All Scoop, Bulldozer, Mechanic, Orangepeel Bucket, Piledriver, Power Blade, Roller (Bituminous), Roller (Earth), Roller (Rock), Scarifier, Shovel, Tractor Shovel, Truck Crane, Well Points, Winch Truck, Push Dozer, Grout Pump, High Lift, Fork Lift (regardless of lift height), all types of Boom Cats, Multiple Operator, Core Drill, Tow or Push Boat, A-Frame Winch Truck, Concrete Paver, Gradeall, Hoist, Hyster, Material Pump, Pumpcrete, Ross Carrier, Sheep Foot, Sideboom, Throttle-Valve Man, Rotary Drill, Power Generator, Mucking Machine, Rock Spreader attached to equipment, Scoopmobile, KeCal Loader, Tower Cranes (French, German and other types), Hydrocrane, Tugger, Backfiller, Gurries, Self-Propelled Compactor, Self-Contained Hydraulic Percussion Drill.

**BASE RATE ..... 24.10**  
**FRINGE BENEFITS ..... 8.50**

**GROUP B:**

All Air Compressors (200 cu. ft. per min. or greater capacity), Bituminous Mixer, Concrete Mixer (under 21 cu. ft.), Welding Machine, Form Grader, Tractor (50 H.P. and over), Bull Float, Finish Machine, Outboard Motor Boat, Brakeman, Mechanic Helper, Whirley Oiler, Tractair and Road Widening Trencher, Articulating Trucks.

**BASE RATE ..... 21.20**  
**FRINGE BENEFITS ..... 8.50**

**GROUP B2:**

Greaser on grease facilities servicing heavy equipment.

**BASE RATE ..... 21.40**  
**FRINGE BENEFITS ..... 8.50**

**GROUP C:**

Bituminous Distributor, Cement Gun, Conveyor, Mud Jack, Paving Joint Machine, Pump, Tamping Machine, Tractors (under 50 H.P.), Vibrator, Oiler, Air Compressors (under 200 cu. ft. per min. capacity), Concrete Saw, Burlap and Curing Machine, Hydro Seeder, Power Form Handling Equipment, Deckhand Oiler, Hydraulic Post Driver.

**BASE RATE ..... 20.79**  
**FRINGE BENEFITS ..... 8.50**

**TRANSPORTATION CABINET  
DIVISION OF CONSTRUCTION PROCUREMENT  
COMPLIANCE SECTION  
PROJECT WAGE RATES**

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Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices registered with the Kentucky State Apprenticeship Supervisor unless otherwise specified in this schedule of wage rates.

These rates are listed pursuant to the Kentucky Determination No. CR-010-II HWY dated July 12, 2010. Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TRANSPORTATION CABINET  
DIVISION OF CONSTRUCTION PROCUREMENT  
COMPLIANCE SECTION  
PROJECT WAGE RATES**

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**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

**OVERTIME:**

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or to the undersigned.

Ryan Griffith, Director  
Division of Construction Procurement  
Frankfort, Kentucky 40622

**PART IV**  
**INSURANCE**

## INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

1. Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
2. Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
3. Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
4. The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
  - a. "policy contains no deductible clauses."
  - b. "policy contains \_\_\_\_\_ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
5. WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

**PART V**  
**BID ITEMS**

CONTRACT ID: 112004  
COUNTY: VARIOUS  
PROPOSAL: FE01 121 DW11 0100000

PAGE: 1  
LETTING: 01/28/11  
CALL NO: 312

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
SECTION 0001 ROADWAY						
0010	02572	QUALITY CONTROL	( 1.00)	LS		
0020	06520	PAVE STRIPING-WB PAINT-4 IN W MP ROUTES	1,046.870	MILE		
0030	06520	PAVE STRIPING-WB PAINT-4 IN W RS ROUTES	33.770	MILE		
0040	06521	PAVE STRIPING-WB PAINT-4 IN Y MP ROUTES	983.760	MILE		
0050	06521	PAVE STRIPING-WB PAINT-4 IN Y RS ROUTES	364.650	MILE		
0060	21741NC	MAINTAIN & CONTROL TRAFFIC	1.000	EACH		
0070	23139EN	STRIPING REMOVAL	1,000.000	LF		
0080	23140EN	DURABLE WATERBORNE MARKING-6 IN W MP ROUTES	135.090	MILE		
0090	23141EN	DURABLE WATERBORNE MARKING-6 IN Y MP ROUTES	119.880	MILE		
SECTION 0002 DEMOBILIZATION						
0100	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				