CALL NO. 313

CONTRACT ID. 162012

VARIOUS COUNTIES

FED/STATE PROJECT NUMBER FE01 121 DW16 0120000

DESCRIPTION VARIOUS ROUTES IN DISTRICT 12

WORK TYPE WATERBOURNE PAINT STRIPING

PRIMARY COMPLETION DATE 9/1/2016

LETTING DATE: February 19,2016

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME February 19,2016. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

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

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SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 12

CONTRACT ID - 162012

FE01 121 DW16 0120000

COUNTY - VARIOUS

PCN - MP12100001612
FE01 121 DW16 0120000

VARIOUS ROUTES IN DISTRICT 12 -WATERBOURNE PAINT STRIPING

GEOGRAPHIC COORDINATES LATITUDE 37:38:39.00 LONGITUDE 82:34:42.00

COMPLETION DATE(S):

COMPLETED BY 09/01/2016	SPECIFIED COMPLETION DATE - ALL ITEMS IN CONTRACT
5 CALENDAR DAYS	REMOVESTRIPING ERRORS AND SPILLS
15 CALENDAR DAYS	RESTRIPING FAILED RETROREFLECTIVITY SECTIONS

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/construction-procurement)

The Bidder must download the bid file located on the Bid Express website (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.

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2012 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by KRS 14A.9-010 to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under KRS 14A.9-030 unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in KRS 14A.9-010, the foreign entity should identify the applicable exception. Foreign entity is defined within KRS 14A.1-070.

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer.

Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004. (See attachment)

10/29/12

Commonwealth of Kentucky
Finance and Administration Cabinet
OFFICE OF THE SECRETARY
Room 383, Capitol Annex
702 Capital Avenue
Frankfort, KY 40601-3462
(502) 564-4240
Fax (502) 564-6785

Steven L. Beshear
Governor

Lori H. Flanery
Secretary

SECRETARY'S ORDER 11-004

FINANCE AND ADMINISTRATION CABINET

Vendor Document Disclosure

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary to conduct a review of the records of a private vendor that holds a contract to provide goods and/or services to the Commonwealth; and

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary during the course of an audit, investigation or any other inquiry by an Executive Branch agency that involves the review of documents; and

WHEREAS, KRS 42.014 and KRS 12.270 authorizes the Secretary of the Finance and Administration Cabinet to establish the internal organization and assignment of functions which are not established by statute relating to the Finance and Administration Cabinet; further, KRS Chapter 45A.050 and 45A.230 authorizes the Secretary of the Finance and Administration Cabinet to procure, manage and control all supplies and services that are procured by the Commonwealth and to intervene in controversies among vendors and state agencies; and

NOW, THEREFORE, pursuant to the authority vested in me by KRS 42.014, KRS 12.270, KRS 45A.050, and 45A.230, I, Lori H. Flanery, Secretary of the Finance and Administration Cabinet, do hereby order and direct the following:

I. Upon the request of an Executive Branch agency, the Finance and Administration Cabinet ("FAC") shall formally review any dispute arising where the agency has requested documents from a private vendor that holds a state contract and the vendor has refused access to said documents under a claim that said documents are not directly pertinent or relevant to the agency's inquiry upon which the document request was predicated.

II. Upon the request of an Executive Branch agency, the FAC shall formally review any situation where the agency has requested documents that the agency deems necessary to

conduct audits, investigations or any other formal inquiry where a dispute has arisen as to what documents are necessary to conclude the inquiry.

III. Upon receipt of a request by a state agency pursuant to Sections I & II, the FAC shall consider the request from the Executive Branch agency and the position of the vendor or party opposing the disclosure of the documents, applying any and all relevant law to the facts and circumstances of the matter in controversy. After FAC's review is complete, FAC shall issue a Determination which sets out FAC's position as to what documents and/or records, if any, should be disclosed to the requesting agency. The Determination shall be issued within 30 days of receipt of the request from the agency. This time period may be extended for good cause.

IV. If the Determination concludes that documents are being wrongfully withheld by the private vendor or other party opposing the disclosure from the state agency, the private vendor shall immediately comply with the FAC's Determination. Should the private vendor or other party refuse to comply with FAC's Determination, then the FAC, in concert with the requesting agency, shall effectuate any and all options that it possesses to obtain the documents in question, including, but not limited to, jointly initiating an action in the appropriate court for relief.

V. Any provisions of any prior Order that conflicts with the provisions of this Order shall be deemed null and void.

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

NATIONAL HIGHWAY

Be advised that some routes in this project are on the NATIONAL HIGHWAY SYSTEM.

SPECIAL NOTES FOR WATERBORNE PAINT STRIPING
DISTRICT WIDE CONTRACTS – DISTRICT 12

DESCRIPTION

Perform all work according to the Commonwealth of Kentucky, Transportation Cabinet, Department of Highways' 2012 Standard Specifications for Road and Bridge Construction; Supplemental Specifications; applicable Standard and Sepia Drawings; applicable Special Provisions; Kentucky Methods; current editions, and the notes and specifications included in this proposal.

SCOPE OF WORK

The work performed under this contract shall consist of furnishing and applying waterborne striping paint for 4 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 there are no existing markings, old markings are no longer visible, or where the existing markings are to be changed. Do not place edge lines on any section of roadway where edgelines do not currently exist without written authorization from the Chief District Engineer.

MATERIALS FOR WATERBORNE PAINT STRIPING

PAINT: Select Materials for this project to meet the performance requirements detailed in **Section 842 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.

The Department will obtain subsequent samples of paint 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: Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. 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 shall be discontinued at the discretion of the Engineer. In the event striping operations are discontinued, 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 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. **The Department reserves the right to obtain any and all raw data recorded by the Data Logger at any time during this contract.**

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

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) along with printouts from the handheld retroreflectometer 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 (QCP) 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 KM-202 (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;
- Submit a manufacturer's sampling procedure for sampling from the tote.

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 KM-202 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. The Contractor and the Engineer shall document the resolution to the discrepancy.

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 to maintain and control 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 retroflectivity 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 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" and 8" lines as indicated in the summaries and/or as directed by the Engineer. The four-inch line shall be not less than four inches nor more than five inches in width. The centerline of all newly applied lines shall be within one inch of the centerline of the existing stripe. Mark all routes with four-inch lines using Waterborne Paint meeting the requirements of Section 842 of the Standard Specifications. Apply Gore area markings 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 be not less than 39 feet 6 inches and no longer than 40 feet 6 inches.

Apply paint, in a single pass, at an application rate in accordance with the application rate in Section 713.03.03 of the Standard Specification. 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. Notify the Engineer 48 hours prior to performing the cleaning operations.

MARKING REMOVAL

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 and for correcting any striping error (including tracking) that requires removal of a line applied by the Contractor. Contrary to Section 713.03.04 of the Standard Specifications; remove all striping errors or paint spills by water blasting only (see attached note) at no additional cost to the Department. This removal process shall be performed in a manner that shall not be detrimental to the pavement. Upon notification of a striping error or paint spill by the Engineer, the Contractor shall be required to begin the process of correcting the striping error or paint spill within five (5) working days and shall work continuously to complete the corrective work prior to striping any other section of roadway included in this contract.

The Engineer will notify the Contractor if existing striping errors need to be removed. Contrary to Section 713.03.04 of the Standard Specifications, remove all existing striping errors by water blasting only (see attached note). The Department will measure and pay for water blasting removal of existing stripes directed by the Engineer in linear feet.

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 the restriping within 15 calendar days after notification by the Engineer except that no striping will be performed after **October 15, 2016**. 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.

SCHEDULING

At the Pre-construction conference, the Engineer will 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, 2016**. The painting of all scheduled routes shall be completed by **September 1, 2016.**

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, 2016. 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 priority routes shall be striped by June 1, 2016. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the June 1, 2016 milestone completion date. Liquidated damages in the amount specified in **Section 108.09 of the Standard Specifications** will be assessed for each day that any priority route remains unstriped after June 1, 2016.

Sections that are required to be re-striped due to failure to meet retroreflectivity requirements must be completed within 15 calendar days after notification by the Engineer. The Department will assess Liquidated Damages in the amount specified in Section 108.09 of the Standard Specifications for each day beyond the 15 calendar days that the restriping is not completed and shall accrue until October 15, 2016. All re-striping must be complete by October 15, 2016. Failure to complete all necessary corrective work by the October 15, 2016 deadline will result in

no additional payment for the stripe beyond the 70% that was initially paid for the installation of the stripe and payment will be based upon the Payment Schedule.

All routes that are required to be striped under this contract shall be completed by September 1, 2016. Contrary to the Standard 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, 2016. Liquidated damages will accrue until October 15, 2016; no striping shall be performed after this date.

Remove all striping errors and spills within five (5) working days after notification by the Engineer. Liquidated damages, in the amount specified in **Section 108.09 of the Standard Specifications**, shall apply for each day beyond the five (5) working days that the Contractor has not begun to correct the striping error/spill or continuously work to complete the corrective work.

The Department will apply all Liquidated Damages accumulatively.

RE-TESTING OF FAILURES

The Department's 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

STRIPING: The Department will measure the paint striping quantity of each type in linear miles of paint stripe. The Department will measure the quantity at twice the rate for a 4-inch line when an 8-inch line is applied.

Full payment to the Contractor for each bid item PAVE STRIPING-WB PAINT-4 INCH (COLOR) will be based upon successful compliance with the retroreflectivity requirements outlined in this contract. The Contractor will be paid 70% of the Contract Unit Bid price 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:

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

2. If a Section is accepted in accordance with the appropriate Kentucky Methods, the Department will make final payment according to the following Payment Schedule.

3. If a section is not accepted in accordance with the appropriate Kentucky Methods, restripe the entire section within fifteen (15) calendar days after notification by the Engineer subject to the same requirements as the original striping at no additional cost to the Department. If the restriped Section is accepted in accordance with the appropriate Kentucky Methods, the Department will make final payment according to the following Payment Schedule. If the section is not restriped by October 15, 2016, the Department will not make final payment. Accept the 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%

QUALITY CONTROL: The Department will measure the quantity by the lump sum. The Department will not measure the QCP, any actions and personnel required to carry out the QCP, any testing, any testing equipment, or any other work necessary to perform the specified QC/QA procedures for payment and will consider them incidental to this item of work.

MAINTAIN AND CONTROL TRAFFIC: See Traffic Control Plan.

LAW ENFORCEMENT OFFICER: See Traffic Control Plan.

WATER BLASTING EXISTING STRIPE: See Special Note for Water Blasting Existing Stripe.

SPECIAL NOTE FOR WATER BLASTING EXISTING STRIPE

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Departmentôs 2012 Standard Specifications for Road and Bridge Construction.

1.0 DESCRIPTION. Remove pavement striping, temporary or permanent, from asphalt or concrete pavement using ultra-high pressure water.

2.0 MATERIALS AND EQUIPMENT.

2.1 Truck Mounted Ultra-high Pressure Pump and Water Tank. Use a truck having a separate hydrostatic transmission capable of speed increments of Ñ1 foot per minute at operatorôs discretion. Use a pump capable of delivering a minimum of 30,000 psi to a bumper mounted deck containing an operator controlled rotating manifold that is speed variable up to at least 3,000 rpm and accepts interchangeable waterjet nozzles. Provide all necessary waterjet nozzle setups and patterns to ensure clean sufficient removal. Ensure the deckôs discharge directs the water and removal material in a manner that is not hazardous to vehicles or pedestrians.

2.2 Water. Conform to Section 803.

3.0 CONSTRUCTION. Before starting work, provide the Engineer with a contractor work history of 2 projects where striping removal was completed acceptably for a similar type of pavement. If no history is available, complete 1,000 linear feet of striping removal and obtain the Engineerôs approval before continuing.

Conduct striping removal under lane closures meeting the conditions of the MUTCD and Kentucky Standard Drawings and Specifications. Waterblast to remove temporary or permanent striping completely as the Engineer directs. Do not damage the pavement in any way and protect all joint seals. If damage is observed, stop the removal process until the operator can make changes and demonstrate acceptable striping removal. Repair any damage to the pavement. Vacuum all marking material and removal debris concurrently with the blasting operation.

4.0 MEASUREMENT. The Department will measure the quantity in linear feet. When the removal areaôs width exceeds 8 inches and a second pass is required, the Department will measure the length of the additional pass for Payment. The Department will not measure for payment additional passes for widths of 8 inches or less or passes to further eradicate markings. The Department will not measure repair of damaged pavement for payment and will consider it incidental to this item of work.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
22664EN	Water Blasting Existing Stripe	Linear Foot

The Department will consider payment as full compensation for all work required under this note.

October 30, 2012

COORDINATION OF WORK WITH OTHER CONTRACTS

Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 Coordination Contracts
01/02/2012

TRAFFIC CONTROL PLAN
DURABLE WATERBORNE AND WATERBORNE PAINT STRIPING

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1. Maintain and Control Traffic in accordance with the Standard Specifications for Road and Bridge Construction, Supplemental Specification, Standard and Sepia Drawings, and the MUTCD, current editions.

2. Contrary to Section 112, include all items necessary to maintain and control traffic in the lump sum bid item "Maintain and Control Traffic". The Department will measure and pay only the bid items listed; consider all other work and necessary items to be incidental to the listed bid items. The Department will measure and pay "Maintain and Control Traffic" as one lump sum.

3. Maintain possession of all temporary traffic control items, devices, materials, and incidentals, unless otherwise specified in the proposal, when no longer needed.

4. If the Contractor desires to deviate from the traffic control scheme outlined in the Standard Drawings, prepare an alternate plan and present it in writing to the Engineer. Do not use the alternate plan until reviewed and approved by the District Engineer and the Divisions of Construction, Maintenance, and Traffic Operations.

5. Provide for the Contractor's vehicles to always move with and not across or against the flow of traffic. Do not allow vehicles to make U-turns at any location. Do not allow the striper to stop and back down the road or ramps to stripe gore lines and turn lanes. Require vehicles to enter or leave work areas in a manner that will not be hazardous to, or interfere with, normal traffic flow. Do not allow vehicles to park or stop within the right-of-way except within work areas designated by the Engineer. Do not allow personal vehicles to park within the right-of-way except in specific areas designated by the Engineer.

6. Do not allow the paint supply truck 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, cease the striping operation until all required vehicles are in place.

7. Do not perform striping operations on any roadway during the peak times of the day, holiday periods, or special events as determined by the Engineer.

8. On two-lane, two-way highways, make provisions to the satisfaction of the Engineer to periodically allow traffic to safely pass the train of vehicles in the striping operation.

9. In low speed, urban situations, the Engineer may permit the Contractor to delete the intermediate trail vehicle between the striper and the final trail vehicle shown on the Standard Drawings.

10. If requested by the Contractor, the Engineer may approve Law Enforcement Officer Police Support on Interstate highways when striping operations are taking place. If the Contractor requests Law Enforcement Officer Police Support on other than Interstate Highways, provide written justification for the Engineer's approval. If approved, provide two (2) police support units for each lane closure, each unit consisting of an off-duty law enforcement officer from any police agency having lawful jurisdiction and a police car equipped with externally mounted flashing blue lights. Place the police support unit at locations determined by the Engineer. The Department will measure and pay for each approved individual police support unit on a per hour basis for the officer with the police vehicle.

CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES

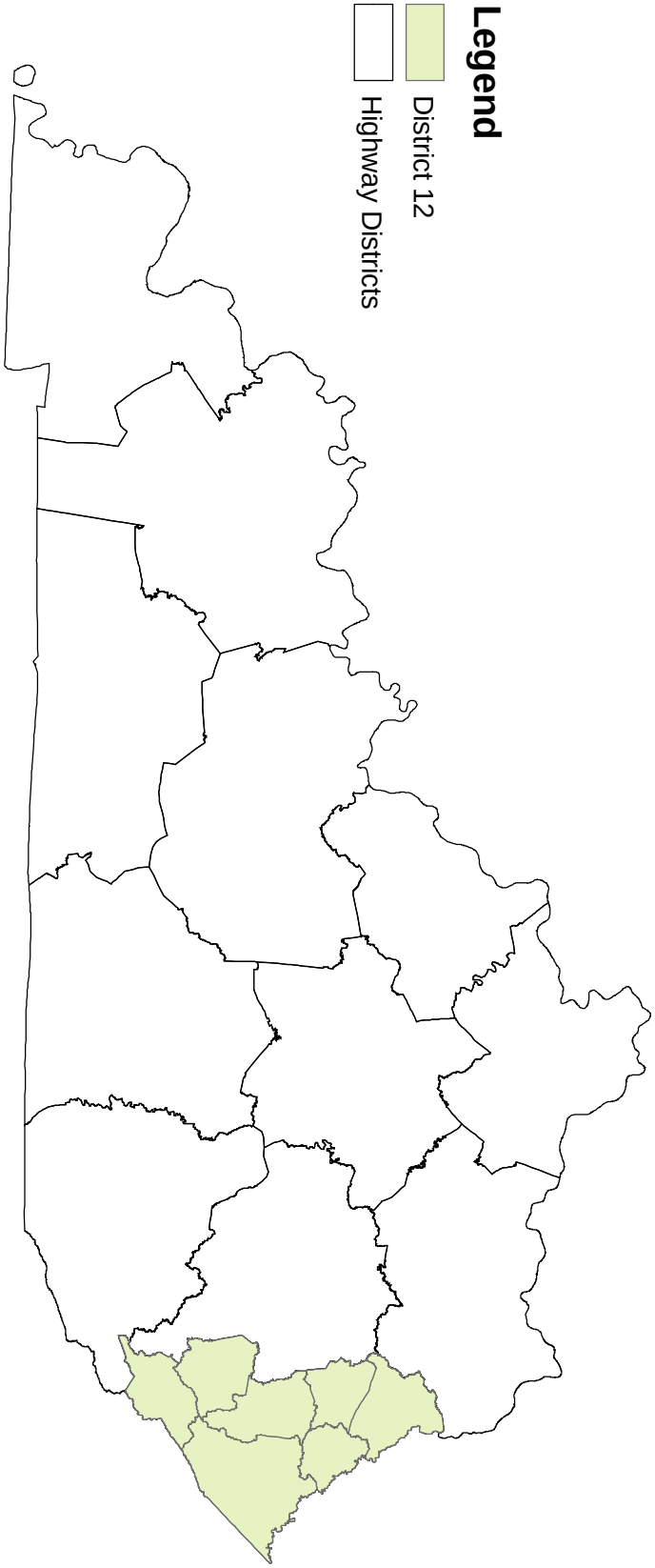
All Priority Routes shall be striped by June 1, 2016. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the June 1, 2016 milestone completion date. Liquidated damages in the amount specified in **Section 108.09 of the Standard Specifications** will be assessed for each day that any Priority Route remains unstriped after June 1, 2016.

Sections that are required to be re-striped due to failure to meet retroreflectivity requirements must be completed within 15 calendar days after notification by the Engineer. The Department will assess Liquidated Damages in the amount specified in Section 108.09 of the Standard Specifications for each day beyond the 15 calendar days that the restriping is not completed and shall accrue until October 15, 2016. All re-striping must be complete by October 15, 2016. Failure to complete all necessary corrective work by the October 15, 2016 deadline will result in no additional payment for the stripe beyond the 70% that was initially paid for the installation of the stripe and payment will be based upon the Payment Schedule.

All routes that are required to be striped under this contract shall be completed by September 1, 2016. Contrary to the Standard 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, 2016. Liquidated damages will accrue until October 15, 2016; no striping shall be performed after this date.

Remove all striping errors and spills within five (5) working days after notification by the Engineer. Liquidated damages, in the amount specified in **Section 108.09 of the Standard Specifications**, shall apply for each day beyond the five (5) working days that the Contractor has not begun to correct the striping error/spill or continuously work to complete the corrective work.

The Department will apply all Liquidated Damages accumulatively.


Legend
District 12
Highway Districts

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
MP SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
FLOYD	US	23	0.000	21.986	21.986	43.972	SKIP	Yes	4-Lane
FLOYD	KY	3	0.000	2.672	2.672	5.344	SKIP	Yes	
FLOYD	KY	3	2.672	4.585	1.913	3.826	SKIP	Yes	4-Lane
FLOYD	KY	7	0.000	12.787	12.787	SKIP	25.574	Yes	
FLOYD	KY	80	0.000	14.435	14.435	32.479	SKIP	Yes	4-Lane
FLOYD	KY	80S	0.000	0.222	0.222	0.444	SKIP	Yes	
FLOYD	KY	114	0.000	9.140	9.140	18.280	SKIP	Yes	
FLOYD	**KY**	**114**	**9.140**	**11.137**		**SKIP**	**SKIP**	**Yes**	**4-Lane (PAVE 2016)**
FLOYD	KY	114	11.137	12.157	1.020	2.040	SKIP	Yes	
FLOYD	KY	122	8.520	34.191	25.671	SKIP	51.342	Yes	
FLOYD	KY	302	0.000	12.575	12.575	25.150	SKIP	Yes	
FLOYD	KY	321	0.000	4.182	4.182	8.364	SKIP	Yes	
FLOYD	KY	321	4.182	5.076	0.894	1.788	SKIP	Yes	
FLOYD	KY	404	0.000	8.160	8.160	16.320	SKIP	Yes	
FLOYD	KY	550	0.000	4.575	4.575	9.150	SKIP	Yes	
FLOYD	KY	680	0.000	5.016	5.016	10.032	SKIP	Yes	
FLOYD	KY	680	5.016	10.457	5.441	SKIP	N/A	No	
FLOYD	KY	680	10.457	14.378	3.921	7.842	SKIP	Yes	
FLOYD	KY	777	8.065	8.995	0.930	1.860	SKIP	Yes	
FLOYD	KY	979	0.000	18.369	18.369	36.738	SKIP	Yes	
FLOYD	KY	1427	4.580	9.082	4.502	N/A	SKIP	Yes	
FLOYD	KY	1428	0.000	6.216	6.216	12.432	SKIP	Yes	
FLOYD	KY	1428	6.216	15.153	8.937	17.874	SKIP	Yes	
FLOYD	KY	1428	15.153	16.695	1.542	3.547	SKIP	Yes	3-Lane
FLOYD	KY	1428	16.695	17.257	0.562	1.124	SKIP	Yes	
FLOYD	KY	2554	0.000	0.744	0.744	1.488	SKIP	Yes	
FLOYD	KY	2555	0.000	2.344	2.344	4.688	SKIP	Yes	
FLOYD	KY	3024	0.000	2.975	2.975	5.950	SKIP	Yes	
FLOYD	KY	3051	2.201	2.652	0.451	0.902	SKIP	Yes	
FLOYD	KY	3188	0.000	1.265	1.265	2.530	N/A	No	
TOTAL					**183.447**	**274.163**	**76.916**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
JOHNSON	US	23	0.000	2.507	2.507	5.014	SKIP	Yes	4-Lane
JOHNSON	**US**	**23**	**2.507**	**6.725**		**SKIP**	**SKIP**	**Yes**	**4-Lane - (PAVE 2016)**
JOHNSON	US	23	6.725	16.864	10.139	20.278	SKIP	Yes	
JOHNSON	US	460	0.000	7.809	7.809	15.618	SKIP	Yes	
JOHNSON	KY	3	0.000	4.642	4.642	9.284	SKIP	Yes	4-Lane
JOHNSON	KY	40	0.000	8.529	8.529	17.058	17.058	Yes	
JOHNSON	KY	40	8.529	9.073	0.544	1.088	2.829	Yes	4-Lane
JOHNSON	KY	40	9.073	9.410	0.337	0.674	0.674	Yes	
JOHNSON	KY	40	9.410	10.566	1.156	2.312	2.312	Yes	
JOHNSON	KY	40	10.566	11.513	0.947	1.894	N/A	No	
JOHNSON	KY	40	11.513	11.872	0.359	0.718	0.718	Yes	
JOHNSON	KY	40	11.872	12.974	1.102	2.535	N/A	No	3-lane
JOHNSON	KY	40	12.974	13.999	1.025	2.050	SKIP	Yes	
JOHNSON	**KY**	**40**	**13.999**	**15.984**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
JOHNSON	KY	40	15.984	23.269	7.285	14.570		Yes	
JOHNSON	KY	172	0.000	12.370	12.370	SKIP	24.740	Yes	
JOHNSON	KY	201	0.000	10.320	10.320	20.640	SKIP	Yes	
JOHNSON	KY	302	0.000	6.486	6.486	12.972	SKIP	Yes	
JOHNSON	KY	321	0.000	9.562	9.562	19.124	SKIP	Yes	
JOHNSON	KY	321X	0.000	0.333	0.333	SKIP	N/A	No	
JOHNSON	KY	581	0.000	4.554	4.554	9.108	SKIP	Yes	
JOHNSON	KY	581	4.554	6.776	2.222	4.444	N/A	No	
JOHNSON	KY	825	0.000	5.079	5.079	N/A	SKIP	Yes	
JOHNSON	KY	825	5.079	14.105	9.026	SKIP	N/A	No	
JOHNSON	KY	1100	0.000	0.334	0.334	0.668	N/A	No	
JOHNSON	KY	1107	0.000	3.329	3.329	SKIP	N/A	No	
JOHNSON	KY	1107	3.329	4.988	1.659	SKIP	SKIP	Yes	
JOHNSON	KY	1107	4.988	6.483	1.495	SKIP	N/A	No	
JOHNSON	KY	1145	0.000	0.450	0.450	0.900	SKIP	Yes	
JOHNSON	KY	1145	0.450	1.239	0.789	N/A	SKIP	Yes	
JOHNSON	KY	1409	0.000	2.750	2.750	5.500	N/A	No	
JOHNSON	KY	1428	0.000	1.225	1.225	2.450	2.450	Yes	
JOHNSON	KY	1428	1.225	2.897	1.672	SKIP	SKIP	Yes	
JOHNSON	KY	1428	2.897	3.290	0.393	SKIP	N/A	No	
JOHNSON	KY	1614	0.000	1.197	1.197	2.394	N/A	No	
JOHNSON	KY	1624	0.000	3.020	3.020	SKIP	N/A	No	
JOHNSON	KY	2275	0.000	1.403	1.403	SKIP	SKIP	Yes	
JOHNSON	KY	2318	0.000	0.150	0.150	N/A	SKIP	Yes	
JOHNSON	KY	2333	0.000	0.647	0.647	SKIP	N/A	No	
JOHNSON	KY	2378	0.000	0.125	0.125	SKIP	N/A	No	
JOHNSON	KY	2381	0.000	2.191	2.191	SKIP	4.382	Yes	
JOHNSON	KY	2560	0.000	0.423	0.423	SKIP	N/A	No	
JOHNSON	KY	3214	0.000	3.243	3.243	6.486	N/A	No	
JOHNSON	KY	3224	0.000	4.523	4.523	9.046	N/A	No	
JOHNSON	KY	3507	0.000	0.141	0.141	0.282	SKIP	Yes	KY 302/KY 3 Ramp
JOHNSON	KY	3508	0.000	0.025	0.025	SKIP	SKIP	Yes	
JOHNSON	KY	3516	0.000	0.013	0.013	SKIP	SKIP	Yes	
TOTAL					**137.530**	**187.107**	**55.163**		

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
MP SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
KNOTT	KY	7	0.000	16.095	16.095	SKIP	32.190	Yes	
KNOTT	KY	15	0.000	9.329	9.329	18.658	SKIP	Yes	
KNOTT	KY	80	0.000	20.093	20.093	40.186	SKIP	Yes	4-Lane
KNOTT	KY	160	0.000	8.155	8.155	16.310	16.310	Yes	
KNOTT	**KY**	**160**	**8.155**	**10.892**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
KNOTT	KY	160	10.892	12.468	1.576	3.152	3.152	Yes	
KNOTT	KY	550	0.000	11.750	11.750	23.500	SKIP	Yes	
KNOTT	KY	550	11.750	26.557	14.807	29.614	SKIP	Yes	
KNOTT	KY	582	0.000	12.729	12.729	25.458	SKIP	Yes	
KNOTT	KY	899	0.000	14.160	14.160	28.320	SKIP	Yes	
TOTAL					**108.694**	**185.198**	**51.652**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
LAWRENCE	US	23	0.000	29.069	29.069	58.138	SKIP	Yes	4-Lane
LAWRENCE	KY	1	0.000	14.140	14.140	28.280	N/A	No	
LAWRENCE	KY	3	0.000	34.479	34.479	68.958	SKIP	Yes	
LAWRENCE	KY	3S	0.000	0.135	0.135	0.270	0.270	Yes	
LAWRENCE	KY	32	0.000	29.162	29.162	SKIP	58.324	Yes	
LAWRENCE	KY	32C	0.000	0.123	0.123	0.246	0.246	Yes	
LAWRENCE	KY	201	0.000	18.069	18.069	36.138	SKIP	Yes	
LAWRENCE	KY	644	0.000	2.821	2.821	SKIP	N/A	No	
LAWRENCE	KY	645	0.000	5.205	5.205	10.410	SKIP	Yes	4-Lane
LAWRENCE	KY	1185	0.000	2.232	2.232	4.464	4.464	Yes	
LAWRENCE	KY	2562	0.000	0.610	0.610	SKIP	SKIP	Yes	
LAWRENCE	KY	2563	0.000	0.348	0.348	SKIP	N/A	No	
LAWRENCE	KY	2565	0.000	2.887	2.887	SKIP	SKIP	Yes	
LAWRENCE	KY	2565	2.887	3.826	0.939	SKIP	SKIP	Yes	
LAWRENCE	KY	2566	0.000	1.110	1.110	SKIP	N/A	No	
LAWRENCE	KY	3215	0.000	2.614	2.614	SKIP	SKIP	Yes	
TOTAL					**143.943**	**206.904**	**63.304**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
LETCHER	US	23	0.000	7.319	7.319	14.638	19.029	Yes	4-Lane
LETCHER	US	119	0.000	4.250	4.250	8.500	SKIP	Yes	
LETCHER	**US**	**119**	**4.250**	**9.990**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
LETCHER	US	119	9.990	14.401	6.935	13.870	SKIP		
LETCHER	**US**	**119**	**14.401**	**17.000**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
LETCHER	US	119	17.000	20.000	3.000	6.000	SKIP	Yes	
LETCHER	US	119	20.000	20.298	0.298	0.596	SKIP	Yes	4-Lane
LETCHER	US	119	20.298	24.074	3.776	7.552	SKIP	Yes	
LETCHER	US	119	24.074	25.515	1.441	2.882	SKIP	Yes	4-Lane
LETCHER	US	119	25.515	27.917	2.402	4.804	SKIP	Yes	3-Lane
LETCHER	KY	7	0.000	14.040	14.040	SKIP	28.080	Yes	
LETCHER	**KY**	**7**	**14.040**	**18.623**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
LETCHER	KY	7	18.623	27.564	8.941	SKIP	17.882	Yes	
LETCHER	KY	15	0.000	6.225	6.225	12.450	SKIP	Yes	Part 3-Lane
LETCHER	KY	15	6.225	9.216	2.991	5.982	SKIP	Yes	
LETCHER	KY	15	9.216	10.675	1.459	2.918	SKIP	Yes	Part 3-Lane
LETCHER	KY	15C	0.000	0.240	0.240	SKIP	SKIP	Yes	
LETCHER	KY	15X	0.000	2.838	2.838	SKIP	SKIP	Yes	
LETCHER	KY	113	2.514	4.044	1.530	SKIP	N/A	No	
LETCHER	KY	160	0.000	21.843	21.843	43.686	N/A	No	
LETCHER	KY	317	0.000	8.936	8.936	17.872	SKIP	Yes	
LETCHER	KY	343	0.000	3.125	3.125	SKIP	N/A	No	
LETCHER	KY	463	0.000	3.307	3.307	6.614	SKIP	Yes	
LETCHER	KY	588	5.009	11.197	6.188	SKIP	N/A	No	
LETCHER	KY	805	0.000	13.677	13.677	SKIP	27.354	Yes	
LETCHER	KY	931	0.000	10.239	10.239	20.478	N/A	No	
LETCHER	KY	931	10.239	15.170	4.931	9.862	SKIP	Yes	
LETCHER	**KY**	**931**	**15.170**	**18.388**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
LETCHER	KY	1862	1.502	5.072	3.570	SKIP	N/A	No	
LETCHER	KY	2550	0.000	0.950	0.950	SKIP	N/A	No	
LETCHER	KY	3073	0.000	1.420	1.420	SKIP	N/A	No	
LETCHER	KY	3086	0.000	1.283	1.283	SKIP	SKIP	Yes	
LETCHER	KY	3401	0.000	0.938	0.938	1.876	N/A	No	
TOTAL					**148.092**	**180.580**	**92.345**		

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
MP SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
MARTIN	KY	3	0.000	10.019	10.019	20.038	SKIP	Yes	4-Lane
MARTIN	KY	3	9.709	13.735	4.026	8.052	SKIP	Yes	4-Lane
MARTIN	KY	3	13.735	21.235	7.500	22.432	SKIP	Yes	
MARTIN	KY	40	0.000	6.870	6.870	13.740	SKIP	Yes	
MARTIN	**KY**	**40**	**6.870**	**9.148**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
MARTIN	KY	40	9.148	10.180	1.032	2.064	SKIP	Yes	
MARTIN	KY	40	10.180	20.266	10.086	20.172	SKIP	Yes	
MARTIN	KY	292	0.000	13.160	13.160	26.320	SKIP	Yes	
MARTIN	KY	645	0.000	6.105	6.105	12.210	SKIP	Yes	4-Lane
MARTIN	KY	645	6.105	7.695	1.590	3.180	SKIP	Yes	4-Lane
MARTIN	KY	908	5.469	5.711	0.242	SKIP	SKIP	Yes	
MARTIN	KY	908	5.711	11.028	5.317	SKIP	N/A	No	
MARTIN	KY	1224	1.499	2.310	0.811	SKIP	N/A	No	
MARTIN	KY	1714	5.150	10.762	5.612	SKIP	11.224	Yes	
MARTIN	KY	2032	0.000	4.525	4.525	9.050	SKIP	Yes	
TOTAL					**76.895**	**137.258**	**11.224**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
PIKE	US	23	0.000	4.336	4.336	8.672	SKIP	Yes	4-Lane
PIKE	**US**	**23**	**4.336**	**11.810**		**SKIP**	**SKIP**	**Yes**	**4-Lane (PAVE 2016)**
PIKE	US	23	11.810	26.284	14.474	28.948	SKIP	Yes	
PIKE	US	23	26.284	29.850	3.566	7.132	SKIP	Yes	6-Lane
PIKE	US	23	29.850	32.828	2.978	5.956	SKIP	Yes	4-Lane
PIKE	US	119	0.000	10.640	10.640	SKIP	27.664	Yes	4-Lane
PIKE	US	119 BRIDGE	4.698	4.942	0.244	0.488	N/A	Yes	**4-Lane 1441 Bridge**
PIKE	US	119 BRIDGE	6.160	6.364	0.204	0.408	N/A	Yes	**4-Lane Win Br Brg**
PIKE	US	119 BRIDGE	7.873	8.138	0.265	0.530	N/A	Yes	**4-Lane 194 Bridge**
PIKE	US	119 BRIDGE	9.463	9.578	0.115	0.230	N/A	Yes	**4-Lane 1426 Bridge**
PIKE	US	119	10.640	13.507	2.867	SKIP	7.454	Yes	4-Lane
PIKE	US	119	13.507	16.888	3.381	SKIP	8.791	Yes	4-Lane
PIKE	**US**	**119**	**16.888**	**18.972**		**SKIP**	**SKIP**	**Yes**	**4-Lane (PAVE 2016)**
PIKE	US	119	18.972	25.721	6.749	13.498	SKIP	Yes	4-Lane
PIKE	US	119S	0.000	0.056	0.056	0.112	0.112	Yes	
PIKE	US	119 RAMP	3.361	3.361	0.000	4.000	4.000	Yes	**ZEBULON RAMP**
PIKE	US	119 RAMP	8.287	8.287	0.000	3.000	3.000	Yes	**JOHN'S CREEK RAMP**
PIKE	US	119 RAMP	9.460	9.460	0.000	3.000	3.000	Yes	**EAST META RAMP**
PIKE	US	119 RAMP	14.100	14.100	0.000	1.000	1.000	Yes	**BEVINS RAMP**
PIKE	US	460	0.000	25.345	25.345	50.690	57.026	Yes	Part 3-Lane
PIKE	KY	80	0.000	6.941	6.941	13.882	13.882	Yes	
PIKE	KY	122	0.000	15.942	15.942	SKIP	31.884	Yes	
PIKE	KY	194	6.112	16.853	10.741	SKIP	21.482	Yes	
PIKE	KY	194	16.853	26.670	9.817	SKIP	19.634	Yes	
PIKE	KY	194	26.670	39.603	12.933	SKIP	25.866	Yes	
PIKE	KY	194	39.603	55.242	15.639	SKIP	31.278	Yes	
PIKE	KY	194	55.242	60.471	5.229	SKIP	10.458	Yes	
PIKE	KY	194	60.471	72.819	12.348	SKIP	24.696	Yes	
PIKE	KY	194S	0.000	0.066	0.066	SKIP	0.132	Yes	
PIKE	KY	195	5.340	11.560	6.220	SKIP	12.440	Yes	
PIKE	KY	197	0.000	16.620	16.620	SKIP	33.240	Yes	
PIKE	KY	199	8.226	11.461	3.235	SKIP	6.470	Yes	
PIKE	KY	292	5.058	12.780	7.722	15.444	SKIP	Yes	
PIKE	KY	292 CONNECTOR	0.000	0.300	0.300	0.300	0.300	Yes	Ends @ KY 292 mp 8.837
PIKE	KY	319	0.000	6.940	6.940	SKIP	13.880	Yes	
PIKE	KY	610	0.000	8.944	8.944	SKIP	17.888	Yes	
PIKE	KY	632	0.000	14.019	14.019	28.038	28.038	Yes	
PIKE	KY	805	0.000	6.860	6.860	SKIP	13.720	Yes	
PIKE	KY	1056	7.614	11.586	3.972	7.944	SKIP	Yes	
PIKE	KY	1384	0.000	0.200	0.200	0.400	SKIP	Yes	
PIKE	KY	1384	0.200	4.995	4.795	9.590	N/A	No	
PIKE	KY	1384	4.995	6.787	1.792	3.584	SKIP	Yes	
PIKE	KY	1384	6.787	7.539	0.752	1.504	SKIP	Yes	4-Lane
PIKE	**KY**	**1426**	**4.889**	**5.467**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
PIKE	KY	1426	5.467	18.688	13.221	26.442	26.442	Yes	
PIKE	KY	1441	6.531	9.161	2.630	SKIP	N/A	No	
PIKE	KY	1441	9.161	11.816	2.655	SKIP	5.310	Yes	
PIKE	KY	1460	0.000	5.070	5.070	10.140	10.140	Yes	
PIKE	KY	1460	5.070	7.112	2.042	4.084	4.084	Yes	
PIKE	KY	1469	4.500	11.303	6.803	SKIP	13.606	Yes	
PIKE	KY	1469	11.303	14.102	2.799	SKIP	5.598	Yes	
PIKE	KY	1499	0.000	6.100	6.100	SKIP	12.200	Yes	
PIKE	KY	1506	0.000	0.108	0.108	0.216	0.216	Yes	
PIKE	KY	2167	0.000	0.252	0.252	0.504	0.504	Yes	
PIKE	KY	3174	0.000	8.000	8.000	16.000	20.800	Yes	Future US 460
PIKE	KY	3218	0.000	3.247	3.247	SKIP	6.494	Yes	
PIKE	**KY**	**3220**	**0.000**	**4.081**		**SKIP**	**SKIP**	**Yes**	**(PAVE 2016)**
PIKE	KY	3495	0.000	0.816	0.816	SKIP	1.632	Yes	
PIKE	KY	3501	0.000	0.629	0.629	1.258	SKIP	Yes	
TOTAL					**301.619**	**266.994**	**524.361**		
MP GRAND TOTAL					**1,100.220**	**1,438.204**	**874.965**		

NOTES: 1. SKIP = LINE COLOR PRESENT. DO NOT RETRACE
N/A = LINE COLOR NOT PRESENT
2. 4" LINES - SECTION 842
3. ESTIMATED QUANTITIES ONLY. RETRACE AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL MEASURE AND PAY ONLY ACTUAL QUANTITIES RETRACED.

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
RS SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
FLOYD	KY	122	0.220	8.520	8.300	N/A	16.600	Yes	
FLOYD	KY	194	0.000	5.417		SKIP	N/A	No	
FLOYD	KY	194	5.417	12.155	6.738	13.476	N/A	No	
FLOYD	KY	306	0.401	2.088		SKIP	N/A	No	
FLOYD	KY	466	0.000	3.000	3.000	N/A	6.000	Yes	
FLOYD	KY	466	3.000	4.062	1.062	2.124	N/A	No	
FLOYD	KY	777	0.289	8.065	7.776	15.552	N/A	No	
FLOYD	KY	850	0.000	7.543	7.543	SKIP	15.086	Yes	
FLOYD	KY	1086	0.000	4.593	4.593	9.186	N/A	No	
FLOYD	KY	1091	0.000	1.204	1.204	2.408	N/A	No	
FLOYD	KY	1100	0.000	3.701	3.701	N/A	7.402	Yes	
FLOYD	KY	1100	3.701	5.325	1.624	3.248	3.248	Yes	
FLOYD	KY	1101	0.000	0.986	0.986	N/A	1.972	Yes	
FLOYD	KY	1210	0.000	2.957	2.957	5.914	N/A	No	
FLOYD	KY	1210	2.957	3.877		N/A	N/A	No	
FLOYD	KY	1210	3.877	7.761	3.884	7.768	N/A	No	
FLOYD	KY	1426	0.000	7.684	7.684	SKIP	15.368	Yes	
FLOYD	KY	1426	7.684	14.258	6.574	SKIP	13.148	Yes	
FLOYD	KY	1427	0.000	4.580		N/A	SKIP	Yes	
FLOYD	KY	1427	4.580	8.800		N/A	SKIP	Yes	
FLOYD	KY	1427	8.800	9.082	0.282	0.564	SKIP	Yes	
FLOYD	KY	1498	0.000	4.599	4.599	9.198	N/A	No	
FLOYD	KY	1750	0.000	3.455	3.455	6.910	N/A	No	
FLOYD	KY	1929	0.000	5.058		N/A	SKIP	Yes	
FLOYD	KY	2029	0.000	1.514	1.514	3.028	N/A	No	
FLOYD	KY	2030	0.000	7.801		SKIP	N/A	No	
FLOYD	KY	2554	0.000	0.760	0.760	1.520	SKIP	Yes	
FLOYD	KY	2554	0.760	1.760		N/A	SKIP	Yes	
FLOYD	KY	2555	0.000	2.344	2.344	4.688	N/A	No	
FLOYD	KY	3051	0.500	1.161	0.661	N/A	1.322	Yes	
FLOYD	KY	3051	1.161	2.201	1.040	2.080	SKIP	Yes	
FLOYD	KY	3379	0.000	5.580	5.580	11.160	SKIP	Yes	
FLOYD	KY	3379	5.580	6.986	1.406	2.812	SKIP	Yes	
FLOYD	KY	3380	0.000	1.400	1.400	N/A	2.800	Yes	
FLOYD	KY	3381	0.000	0.575	0.575	N/A	SKIP	Yes	
FLOYD	KY	3381	0.575	2.944	2.369	4.738	N/A	No	
FLOYD	KY	3382	0.000	0.625		N/A	SKIP	Yes	
FLOYD	KY	3383	0.000	0.888		N/A	SKIP	Yes	
FLOYD	KY	3384	0.000	2.047		N/A	SKIP	Yes	
FLOYD	KY	3385	0.000	4.282		N/A	SKIP	Yes	
FLOYD	KY	3386	0.000	3.350		N/A	SKIP	Yes	
TOTAL					**93.611**	**106.374**	**82.946**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
JOHNSON	KY	469	0.000	6.230	6.230	12.460	N/A	No	
JOHNSON	KY	580	0.000	1.765	1.765	N/A	3.530	Yes	
JOHNSON	KY	580	1.765	12.089	10.324	SKIP	20.648	Yes	
JOHNSON	KY	581	6.776	11.209		N/A	SKIP	Yes	
JOHNSON	KY	689	0.000	6.607	6.607	N/A	13.214	Yes	
JOHNSON	KY	689	6.607	11.212	4.605	9.210	N/A	No	
JOHNSON	KY	993	0.000	1.260	1.260	N/A	2.520	Yes	
JOHNSON	KY	993	1.260	2.750	1.490	2.980	N/A	No	
JOHNSON	KY	1092	0.000	6.000	6.000	12.000	N/A	No	
JOHNSON	KY	1092	6.000	9.150		SKIP	N/A	No	
JOHNSON	KY	1559	0.000	1.933	1.933	N/A	3.866	Yes	
JOHNSON	KY	1559	1.933	6.012	4.079	8.158	N/A	No	
JOHNSON	KY	1596	0.000	3.784	3.784	7.568	N/A	No	
JOHNSON	KY	1750	0.000	3.980		SKIP	N/A	No	
JOHNSON	KY	2039	0.000	3.031		SKIP	N/A	No	
JOHNSON	KY	2040	0.000	0.167		SKIP	SKIP	Yes	
JOHNSON	KY	2040	0.167	3.013		N/A	SKIP	Yes	
JOHNSON	KY	2040	3.013	3.229		SKIP	SKIP	Yes	
JOHNSON	KY	3387	0.000	5.591		N/A	SKIP	Yes	
JOHNSON	KY	3388	0.000	2.030	2.030	4.060	N/A	No	
JOHNSON	KY	3389	0.000	0.822		N/A	SKIP	Yes	
TOTAL					**50.107**	**56.436**	**43.778**		

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
RS SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
KNOTT	KY	160	12.468	12.968		SKIP	N/A	No	
KNOTT	KY	160	12.968	15.682		N/A	SKIP	Yes	
KNOTT	KY	1087	0.000	13.811	13.811	SKIP	27.622	Yes	
KNOTT	KY	1087	13.811	20.469	6.658	13.316	N/A	No	
KNOTT	KY	1088	0.000	8.927		SKIP	N/A	No	
KNOTT	KY	1091	0.000	2.178	2.178	4.356	N/A	No	
KNOTT	KY	1098	0.000	11.904	11.904	23.808	N/A	No	
KNOTT	KY	1098	11.904	16.114		SKIP	N/A	No	
KNOTT	KY	1102	0.000	2.686		N/A	SKIP	Yes	
KNOTT	KY	1231	0.000	8.040		SKIP	N/A	No	
KNOTT	KY	1393	0.000	2.757	2.757	5.514	N/A	No	
KNOTT	KY	1410	0.000	4.710	4.710	9.420	N/A	No	
KNOTT	KY	1498	0.000	1.494	1.494	2.988	N/A	No	
KNOTT	KY	1516	0.000	0.629		N/A	SKIP	Yes	
KNOTT	KY	1697	0.000	3.990		N/A	SKIP	Yes	
KNOTT	KY	2029	0.000	1.910		N/A	SKIP	Yes	
KNOTT	KY	2029	1.910	5.557		N/A	SKIP	Yes	
KNOTT	KY	2102	0.000	1.830		N/A	SKIP	Yes	
KNOTT	KY	2759	0.000	0.692		SKIP	N/A	No	
KNOTT	KY	2759	0.692	1.210	0.518	SKIP	1.036	Yes	
KNOTT	KY	3391	0.000	6.273	6.273	SKIP	12.546	Yes	
KNOTT	KY	3392	0.000	2.796		N/A	SKIP	Yes	
KNOTT	KY	3392	2.796	2.896		SKIP	SKIP	Yes	
TOTAL					**50.303**	**59.402**	**41.204**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
LAWRENCE	KY	469	0.000	2.000	2.000	SKIP	4.000	Yes	
LAWRENCE	KY	581	0.000	9.684		N/A	SKIP	Yes	
LAWRENCE	KY	707	0.000	9.757	9.757	N/A	19.514	Yes	
LAWRENCE	KY	773	0.000	0.360	0.360	N/A	SKIP	Yes	
LAWRENCE	KY	828	0.000	8.747	8.747	17.494	N/A	No	
LAWRENCE	KY	1395	0.000	1.710		N/A	SKIP	Yes	
LAWRENCE	KY	1496	0.000	5.520		N/A	SKIP	Yes	
LAWRENCE	KY	1690	0.000	15.530		SKIP	N/A	No	
LAWRENCE	KY	1715	0.000	5.600	5.600	11.200	N/A	No	
LAWRENCE	KY	1760	0.000	5.400	5.400	10.800	N/A	No	
LAWRENCE	KY	1760	5.400	7.430	2.030	N/A	SKIP	Yes	
LAWRENCE	KY	1760	7.430	9.630	2.200	4.400	N/A	No	
LAWRENCE	KY	1937	0.000	2.060	2.060	N/A	SKIP	Yes	
LAWRENCE	KY	2033	1.570	3.330	1.760	3.520	N/A	No	
LAWRENCE	KY	2037	0.000	3.623	3.623	N/A	7.246	Yes	
LAWRENCE	KY	2038	0.000	1.900		N/A	SKIP	Yes	
LAWRENCE	KY	3387	0.000	0.572		N/A	SKIP	Yes	
LAWRENCE	KY	3394	0.000	5.083	5.083	N/A	10.166	Yes	
LAWRENCE	KY	3395	0.000	1.244	1.244	N/A	2.488	Yes	
LAWRENCE	KY	3396	0.000	2.424	2.424	N/A	4.848	Yes	
LAWRENCE	KY	3397	0.000	1.573	1.573	N/A	3.146	Yes	
LAWRENCE	KY	3398	0.000	2.289	2.289	SKIP	4.578	Yes	
LAWRENCE	KY	3399	0.000	3.615	3.615	N/A	7.230	Yes	
TOTAL					**59.765**	**47.414**	**63.216**		

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
RS SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
LETCHER	KY	113	0.000	2.514		SKIP	N/A	No	
LETCHER	KY	343	3.125	3.717		SKIP	N/A	No	
LETCHER	KY	343	3.717	4.225		N/A	SKIP	Yes	
LETCHER	KY	510	0.000	7.855	7.855	15.710	N/A	No	
LETCHER	KY	806	0.000	3.082		SKIP	N/A	No	
LETCHER	KY	932	0.000	5.148		SKIP	N/A	No	
LETCHER	KY	1103	0.000	14.241	14.241	28.482	N/A	No	
LETCHER	KY	1148	0.000	4.094	4.094	SKIP	8.188	Yes	
LETCHER	KY	1410	0.000	1.557		SKIP	N/A	No	
LETCHER	KY	1862	0.000	1.285		N/A	SKIP	Yes	
LETCHER	KY	2034	0.000	0.840	0.840	SKIP	1.680	Yes	
LETCHER	KY	2034	1.800	4.867	3.067	N/A	6.134	Yes	
LETCHER	KY	2035	0.000	3.317	3.317	N/A	6.634	Yes	
LETCHER	KY	2036	0.000	4.094		N/A	SKIP	Yes	
LETCHER	KY	2545	0.600	2.101		SKIP	N/A	No	
LETCHER	KY	3400	0.000	1.318		N/A	SKIP	No	
LETCHER	KY	3402	0.000	2.057	2.057	N/A	4.114	Yes	
LETCHER	KY	3403	0.000	0.934		N/A	SKIP	Yes	
LETCHER	KY	3404	0.000	0.150		N/A	SKIP	Yes	
LETCHER	KY	3404	0.150	0.799		SKIP	N/A	No	
LETCHER	KY	3405	0.000	1.431	1.431	N/A	2.862	Yes	
LETCHER	KY	3406	0.000	1.815	1.815	N/A	3.630	Yes	
LETCHER	KY	3408	0.000	1.399	1.399	N/A	2.798	Yes	
LETCHER	KY	3409	0.000	3.898	3.898	N/A	7.796	Yes	
LETCHER	KY	3410	0.000	0.800	0.800	N/A	1.600	Yes	
TOTAL					**44.814**	**44.192**	**45.436**		

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
MARTIN	KY	292	13.160	15.727	2.567	5.134	SKIP	Yes	
MARTIN	KY	292	15.727	26.080	10.353	20.706	N/A	No	
MARTIN	KY	292	26.080	28.900	2.820	5.640	SKIP	Yes	
MARTIN	KY	908	0.141	1.195	1.054	N/A	2.108	Yes	
MARTIN	KY	908	1.195	5.469	4.274	8.548	N/A	No	
MARTIN	KY	1224	0.000	0.820		N/A	SKIP	Yes	
MARTIN	KY	1224	0.820	5.160		SKIP	N/A	No	
MARTIN	KY	1439	0.000	0.800	0.800	N/A	1.600	Yes	
MARTIN	KY	1439	0.800	4.812		SKIP	N/A	No	
MARTIN	KY	1439	4.812	10.733	5.921	SKIP	11.842	Yes	
MARTIN	KY	1714	0.000	1.200	1.200	2.400	SKIP	Yes	
MARTIN	KY	1714	1.200	4.000	2.800	5.600	N/A	No	
MARTIN	KY	1714	4.000	5.150	1.150	2.300	SKIP	Yes	
MARTIN	KY	1884	0.000	5.160	5.160	10.320	N/A	No	
MARTIN	KY	2031	0.000	1.251	1.251	N/A	SKIP	Yes	
MARTIN	KY	2031	4.184	5.140	0.956	N/A	SKIP	Yes	
MARTIN	KY	2033	0.000	1.090	1.090	N/A	2.180	Yes	
MARTIN	KY	3407	0.000	1.360		N/A	2.720	Yes	
MARTIN	KY	3411	0.000	0.490		N/A	SKIP	Yes	
MARTIN	KY	3412	0.000	1.440	1.440	N/A	2.880	Yes	
MARTIN	KY	3412	1.440	1.620	0.180	0.360	N/A	No	
MARTIN	KY	3413	0.000	1.600	1.600	N/A	3.200	Yes	
TOTAL					**44.616**	**61.008**	**26.530**		

2016 WATERBORNE PAINT STRIPING - DISTRICT 12
RS SYSTEM - 4 INCH LINES

COUNTY	ROUTE		MILEPOINTS		ROADWAY	4" LINE*		EDGE	COMMENTS
			BEGIN	*END*	MILES	*YELLOW*	*WHITE*	LINES	
PIKE	KY	194	0.000	6.141	6.141	SKIP	12.282	Yes	
PIKE	KY	195	0.000	5.340	5.340	SKIP	10.680	Yes	
PIKE	KY	199	5.676	6.881		N/A	SKIP	Yes	
PIKE	KY	199	6.881	8.226	1.345	SKIP	2.690	Yes	
PIKE	KY	292	0.000	5.058	5.058	SKIP	10.116	Yes	
PIKE	KY	366	0.000	4.365		SKIP	N/A	No	
PIKE	KY	468	7.336	13.560	6.224	SKIP	12.448	Yes	
PIKE	KY	611	0.000	5.993		N/A	SKIP	Yes	
PIKE	KY	881	0.000	4.500	4.500	SKIP	9.000	Yes	
PIKE	KY	881	4.500	10.780		N/A	SKIP	Yes	
PIKE	KY	1056	0.000	4.651		SKIP	N/A	No	
PIKE	KY	1373	0.000	6.706		N/A	SKIP	Yes	
PIKE	KY	1426	0.000	2.000		N/A	SKIP	Yes	
PIKE	KY	1426	2.000	4.889	2.889	SKIP	5.778	Yes	
PIKE	KY	1441	0.000	1.741	1.741	SKIP	3.482	Yes	
PIKE	KY	1441	1.741	6.531	4.790	N/A	9.580	Yes	
PIKE	KY	1441	9.161	11.816	2.655	SKIP	5.310	Yes	
PIKE	KY	1469	0.000	4.500	4.500	N/A	9.000	Yes	
PIKE	KY	1758	0.000	3.672		SKIP	N/A	No	
PIKE	KY	1758	3.672	7.552		N/A	SKIP	Yes	
PIKE	KY	1789	0.000	1.845	1.845	SKIP	3.690	Yes	
PIKE	KY	2059	0.000	7.800	7.800	N/A	15.600	Yes	
PIKE	KY	2061	0.000	7.140	7.140	14.280	N/A	No	
PIKE	KY	2062	0.000	3.132		SKIP	N/A	No	
PIKE	KY	2169	0.000	0.756	0.756	SKIP	1.512	Yes	
PIKE	KY	3154	0.000	2.669		N/A	SKIP	Yes	
PIKE	KY	3227	0.000	1.500	1.500	SKIP	3.000	Yes	
PIKE	KY	3227	1.500	8.042	6.542	N/A	13.084	Yes	
PIKE	KY	3414	0.000	3.406		N/A	SKIP	Yes	
PIKE	KY	3417	0.000	1.104	1.104	SKIP	2.208	Yes	
PIKE	KY	3418	0.000	10.100	10.100	N/A	20.200	Yes	
PIKE	KY	3419	0.000	11.854	11.854	N/A	23.708	Yes	
PIKE	KY	3527	0.000	0.604		SKIP	SKIP	Yes	
TOTAL					**93.824**	**14.280**	**173.368**		

NOTES: 1. SKIP = LINE COLOR PRESENT. DO NOT RETRACE
N/A = LINE COLOR NOT PRESENT
2. 4" LINES - SECTION 842
3. ESTIMATED QUANTITIES ONLY. RETRACE AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL MEASURE AND PAY ONLY ACTUAL QUANTITIES RETRACED.

Daily Striping Report

User Instructions | Clear Route Information | Add More Rows to Route Information

Contractor & District Information

DISTRICT	1	CONTRACTOR	[Name]
CONTACT			[Mailing Address]
PROJECT TYPE:	Rehabilitation / Resurfacing		[City, ST ZIP CODE]
FUNDING STRIP:			[Phone]
CONTRACT ID:			[Fax]
APPLICATION DATE:	1/12/2011		[E-Mail Address]
APPLICATION TYPE:	Temporary		[Crew Name/No.]
FIRST DAY TO TEST:	2/11/2011		[Driver]
LAST DAY TO TEST:	3/13/2011		[Striping Truck]
SECTION STATUS:	ACCEPT AT 100% PAY		[Comment]

Route Information

County	Route	Direction	Color	Width	Line Type	Starting Milepoint	Ending Milepoint	Striped Line Length (Feet)	Route Length (Feet)	Route Type	Mobile (KM 203)?	Corrective Re-stripe?

Materials	Comments
Yellow WB Traffic Paint	
White WB Traffic Paint	
Beads	

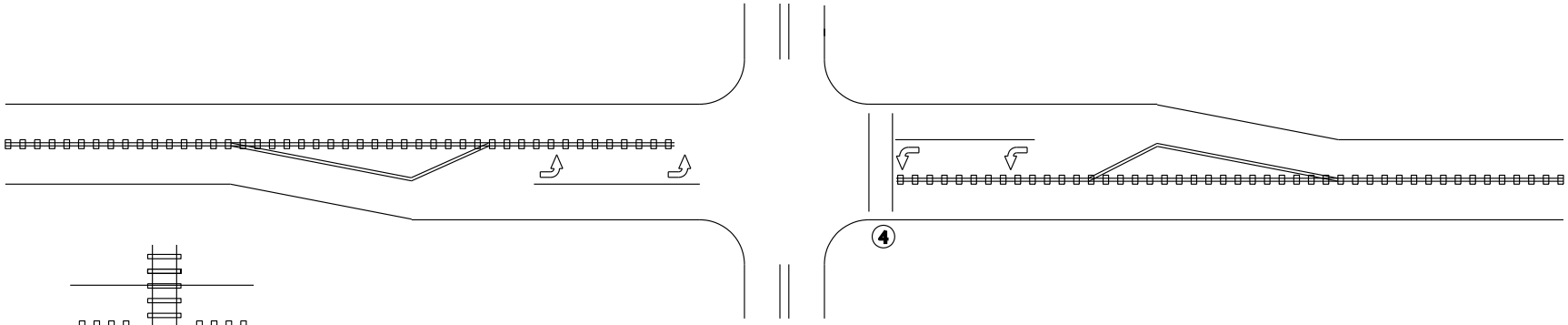
Totals Summary

Striped Line Length (Feet)	MP 4" W	MP 4" Y	MP 6" W	MP 6" Y		RS 4" W	RS 4" Y	

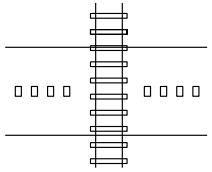
To request measurement of retroreflectivity in accordance with KM203, please email all correspondence to brandi.mitchell@ky.gov. Please notify Central Office at least two (2) weeks in advance of when mobile testing is needed.

SPECIAL NOTE FOR CENTERLINE & EDGELINE RUMBLE STRIPES

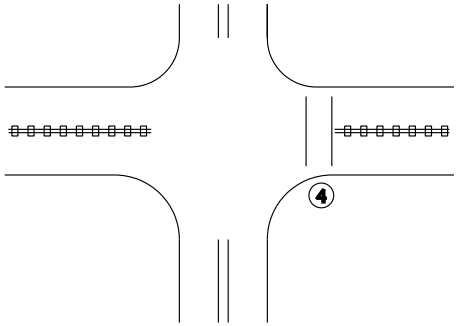
Be advised there may be some centerline and edgeline rumble stripes to be retraced. Place centerline rumble stripes according to Standard Drawings TPM-155-01 and TPM-160-01 and the detail drawings for centerline rumble stripes. Place edgeline rumble stripes according to the detail drawings for centerline and edgeline rumble strips. Notify the Engineer if questions arise regarding the striping patterns or placement. If necessary, the Engineer will obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.



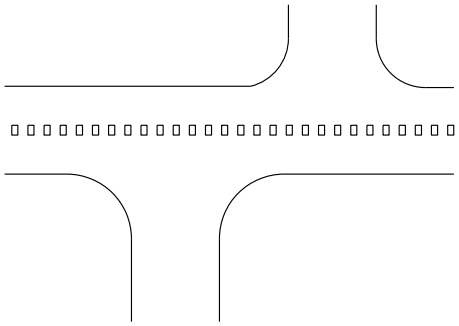
INTERSECTION WITH LEFT-TURN LANES



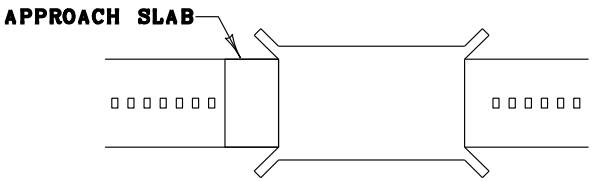
HIGHWAY-RAIL GRADE CROSSING 3



INTERSECTION WITHOUT LEFT-TURN LANES



DRIVEWAYS/MINOR COMMERCIAL ENTRANCES 6



BRIDGE DECK/APPROACH SLAB 5

NOTES

1 CENTERLINE RUMBLE STRIPS SHALL BE OMITTED THROUGH MAJOR INTERSECTIONS WITH OR WITHOUT LEFT-TURN LANES. RUMBLE STRIPS SHALL BE OMITTED IN THE AREA WHERE CENTERLINE PAVEMENT MARKINGS HAVE BEEN OMITTED (NORMALLY WHERE SIDE STREET RADIUS INTERSECTS MAINLINE).

2 RUMBLE STRIPS SHALL BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS.

3 CENTERLINE RUMBLE STRIPS SHALL NOT BE INSTALLED ACROSS HIGHWAY-RAIL GRADE CROSSINGS.

4 CENTERLINE RUMBLE STRIPS SHALL NOT BE INSTALLED THROUGH MARKED CROSSWALKS.

5 CENTERLINE RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS OR APPROACH SLABS.

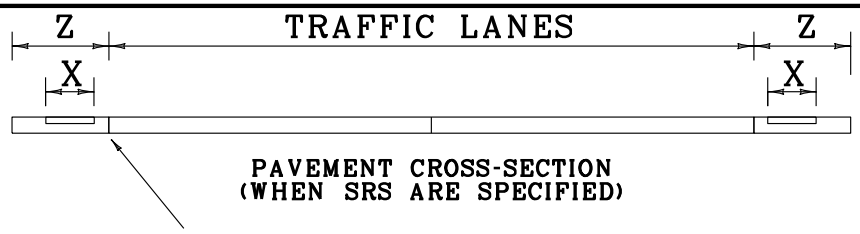
6 CENTERLINE RUMBLE STRIPS SHALL BE INSTALLED THROUGH DRIVEWAYS/MINOR COMMERCIAL ENTRANCES.

BID ITEM / ITEM TO BID:
2058ES403 CENTERLINE RUMBLE STRIPS

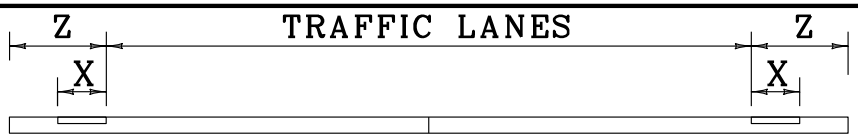
DRAWING NOT TO SCALE

USE WITH CUR. STD. DWGS.
TPM-155 OR TPM-160

CENTERLINE RUMBLE STRIPS

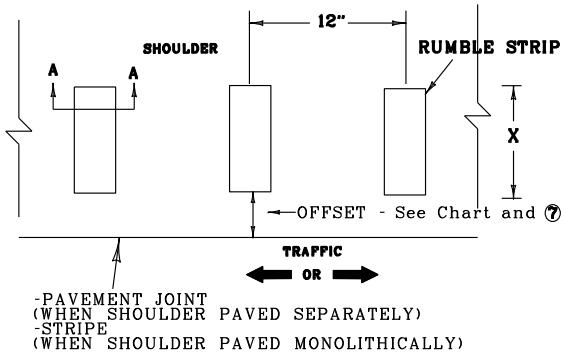


PAVEMENT CROSS-SECTION
(WHEN SRS ARE SPECIFIED)

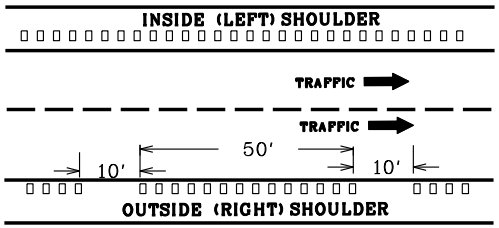


PAVEMENT CROSS-SECTION
(WHEN ELRS ARE SPECIFIED)

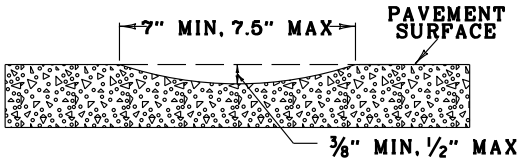
SHOULDER WIDTH (Z) ④	RUMBLE TYPE ③	RUMBLE LENGTH (X)	OFFSET
< 2'	ELRS	8"	N/A
2'	ELRS or SRS	ELRS-12" SRS-8"	ELRS-N/A SRS-6"
3'	ELRS or SRS	ELRS-12" SRS-8"	ELRS-N/A SRS-6"
4'	ELRS or SRS	ELRS-12" SRS-8"	ELRS-N/A SRS-6"
5'	SRS ⑥	8"	6"
6'	SRS ⑥	12"	12"
7'	SRS ⑥	12"	12"
8'	SRS ⑥	16"	12"



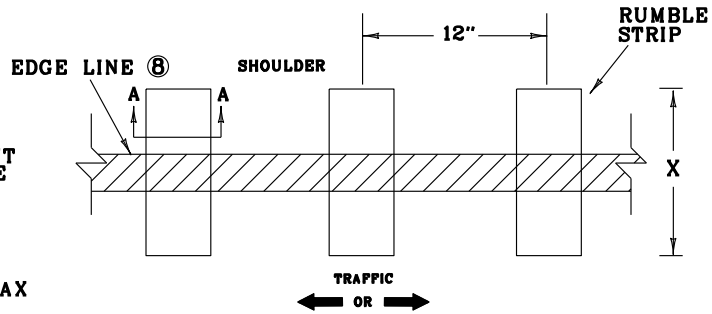
SRS DETAILS



BICYCLE GAPS ⑥



SECTION A-A



ELRS DETAILS

NOTES

1. DISTANCES SHOWN ARE APPROXIMATE. MAINTAIN RUMBLE STRIP DIMENSIONS AND SPACING AS MUCH AS POSSIBLE.
2. RUMBLE STRIPS SHALL NOT BE PLACED IN AREAS WITH A POSTED SPEED LIMIT LESS THAN OR EQUAL TO 45 MPH.

③ FOR MULTI-LANE ROADWAYS, THE TYPE OF RUMBLE TO BE USED IS BASED ON THE WIDTH OF SHOULER. FOR SHOULDER WIDTHS OF 2', 3', AND 4' THE RUMBLE TYPE MAY BE SPECIFIED AS EITHER EDGELINE RUMBLE STRIPS (ELRS) OR SHOULDER RUMBLE STRIPS (SRS). IN THESE SITUATIONS, THE ACTUAL RUMBLE TYPE TO BE USED WILL BE SPECIFIED IN THE PLANS, PROPOSAL NOTES, AND/OR BID ITEMS.

④ WHEN ELRS ARE SPECIFIED: WIDTH OF SHOULDER IS FROM LANE SIDE EDGE OF RUMBLE STRIP TO OUTSIDE EDGE OF TRAVERSABLE PAVEMENT.
WHEN SRS ARE SPECIFIED: WIDTH OF SHOULDER IS FROM LANE SIDE EDGE OF STRIPE OR JOINT TO OUTSIDE EDGE OF TRAVERSABLE PAVEMENT.

5. LENGTH OF RUMBLE (X) OR OFFSET DISTANCE MAY BE MODIFIED AS THE ENGINEER DIRECTS IF WIDTH OF SHOULDER (Z) IS EQUAL TO OR LESS THAN SPECIFIED LENGTH OF RUMBLE (X).

⑥ SHOULDER RUMBLE STRIPS ALONG OUTSIDE (RIGHT) SHOULDERS THAT ARE 5' OR WIDER SHOULD INCLUDE BICYCLE GAPS AS DETAILED.
BICYCLE GAPS ARE NOT REQUIRED ON THE INSIDE (LEFT) SHOULDER.
BICYCLE GAPS SHALL NOT BE USED ON INTERSTATES AND PARKWAYS.

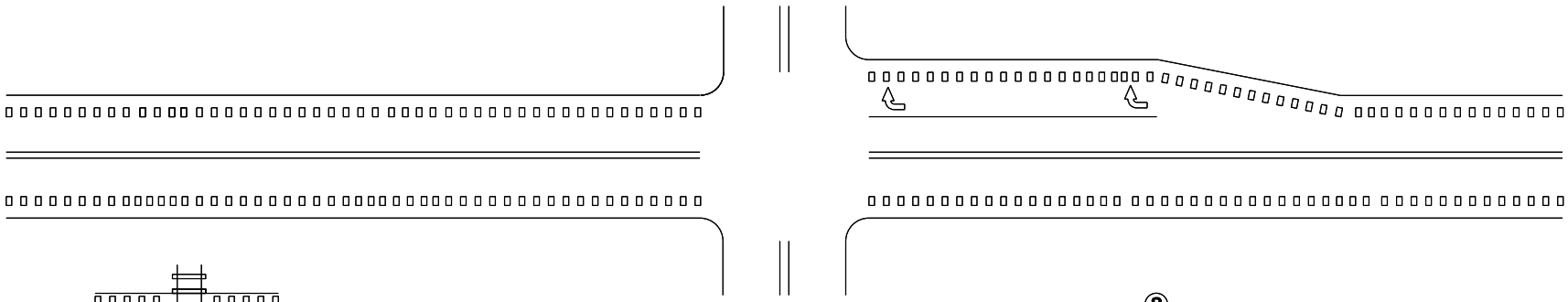
⑦ SEE STANDARD SPECIFICATION SECTION 403 FOR OFFSET AND RUMBLE LENGTH ALONG INTERSTATES & PARKWAYS.

⑧ WHEN ELRS ARE SPECIFIED, THE EDGE LINE MARKINGS SHALL BE PLACED IN THE CENTER OF THE RUMBLE STRIP

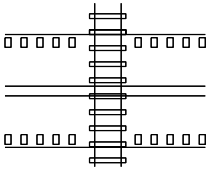
9. BID ITEM / ITEM TO BID FOR ELRS: 23595EC RUMBLE STRIPE - SAW CUT
BID ITEM / ITEM TO BID FOR SRS: 2696 SHOULDER RUMBLE STRIPS - SAWED

DRAWING NOT TO SCALE

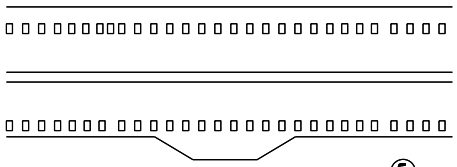
**RUMBLE STRIP DETAILS
MULTI-LANE ROADWAYS**



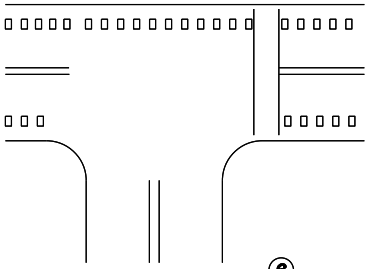
INTERSECTIONS WITH OR WITHOUT RIGHT-TURN LANES ②



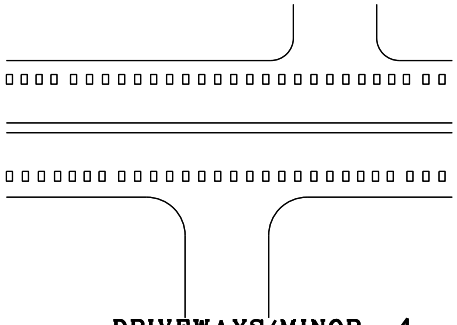
HIGHWAY-RAIL GRADE CROSSINGS ③



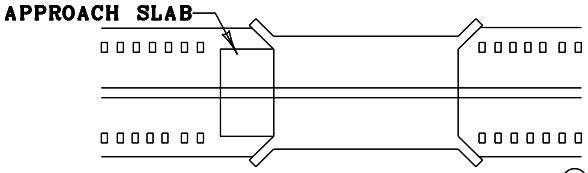
MAILBOX TURNOUTS ⑤



MARKED CROSSWALK ⑥



DRIVEWAYS/MINOR 4
COMMERCIAL ENTRANCES



BRIDGE DECK/APPROACH SLAB ⑦

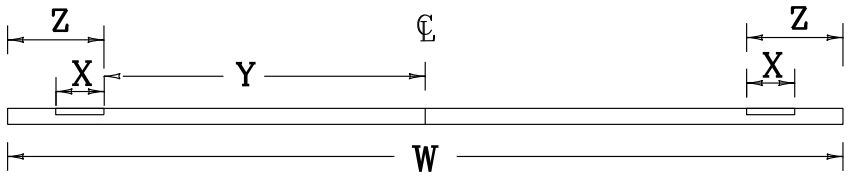
NOTES

1. RUMBLE STRIPS SHALL BE OMITTED WHERE THE POSTED SPEED LIMIT IS 45 MPH OR LESS.
② RUMBLE STRIPS SHALL BE OMITTED THROUGH MAJOR INTERSECTIONS WITH OR WITHOUT RIGHT-TURN LANES. RUMBLE STRIPS SHALL BE OMITTED IN THE AREA WHERE EDGE LINE PAVEMENT MARKINGS HAVE BEEN OMITTED (NORMALLY WHERE SIDE STREET RADIUS INTERSECTS MAINLINE).
③ RUMBLE STRIPS SHALL NOT BE INSTALLED ACROSS HIGHWAY-RAIL GRADE CROSSINGS.
④ RUMBLE STRIPS SHALL BE INSTALLED THROUGH DRIVEWAYS/MINOR COMMERCIAL ENTRANCES.
⑤ RUMBLE STRIPS SHALL BE INSTALLED THROUGH MAILBOX TURNOUTS.
⑥ RUMBLE STRIPS SHALL NOT BE INSTALLED THROUGH MARKED CROSSWALKS.
⑦ RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS OR APPROACH SLABS.
8. BID ITEMS / ITEMS TO BID : 2696 SHOULDER RUMBLE STRIPS - SAWED, 23595EC RUMBLE STRIPE - SAW CUT

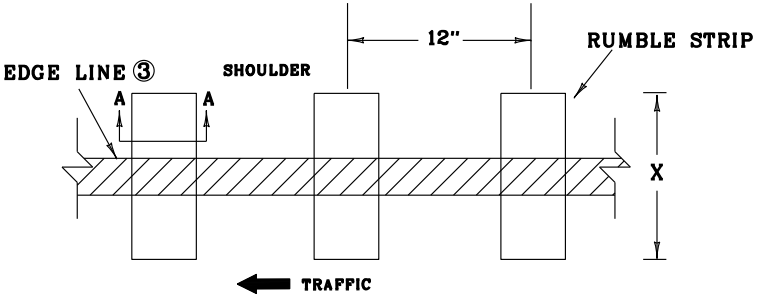
DRAWING NOT TO SCALE

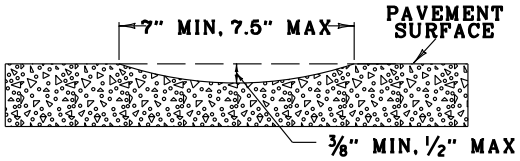
SHOULDER & EDGE LINE RUMBLE STRIP DETAILS

PAVEMENT WIDTH (W) ④	RUMBLE LENGTH (X)	ELRS ONLY		CLRS & ELRS	
		LANE WIDTH (Y) ⑤	SHOULDER WIDTH (Z) ⑥	LANE WIDTH (Y) ⑤	SHOULDER WIDTH (Z) ⑥
20′	8″	9′	1′	N/A	N/A
21′	8″	9.5′	1′	N/A	N/A
22′	8″	10′	1′	N/A	N/A
23′	8″	10′	1.5′	N/A	N/A
24′	8″	10.5′	1.5′	N/A	N/A
25′	8″	N/A	N/A	11′	1.5′
26′	12″	N/A	N/A	11′	2′
27′	12″	N/A	N/A	11.5′	2′
28′	12″	N/A	N/A	12′	2′
29′	12″	N/A	N/A	12′	2.5′
30′	12″	N/A	N/A	12′	3′
31′	12″	N/A	N/A	12′	3.5′
32′	12″	N/A	N/A	12′	4′
33′	12″	N/A	N/A	12′	4.5′



PAVEMENT CROSS-SECTION
(Traversable Pavement)





SECTION A-A

NOTES

1. DISTANCES SHOWN ARE APPROXIMATE. MAINTAIN RUMBLE STRIP DIMENSIONS AND SPACING AS MUCH AS POSSIBLE.
2. RUMBLE STRIPS SHALL NOT BE PLACED IN AREAS WITH A POSTED SPEED LIMIT LESS THAN OR EQUAL TO 45 MPH.

③ EDGE LINE MARKINGS SHALL BE PLACED IN THE CENTER OF THE RUMBLE STRIP.

④ WIDTH OF PAVEMENT BETWEEN EDGES OF TRAVERSABLE PAVEMENT.

⑤ WIDTH OF LANE FROM CENTER OF ROAD TO INSIDE EDGE OF RUMBLE STRIP OR JOINT.

NOTES

⑥ WIDTH OF PAVED SHOULDER IS FROM LANE SIDE EDGE OF RUMBLE STRIP TO OUTSIDE EDGE OF TRAVERSABLE PAVEMENT.

7. LENGTH OF RUMBLE (X) OR OFFSET DISTANCE MAY BE MODIFIED AS THE ENGINEER DIRECTS IF WIDTH OF SHOULDER (Z) IS EQUAL TO OR LESS THAN SPECIFIED LENGTH OF RUMBLE (X).
8. CONTRARY TO SECTION 403.03.08, SUBSECTION A, PART 2 IN THE STANDARD SPECIFICATIONS; USE THE DIMENSIONS SPECIFIED ABOVE WHEN THIS DRAWING IS INCLUDED IN THE PROPOSAL
9. BID ITEMS / ITEMS TO BID: 23595EC RUMBLE STRIPE - SAW CUT

DRAWING NOT TO SCALE

EDGE LINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2012 with the 2012 Revision.*

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the July 31, 2015 Letting

Subsection: **Revision:**	102.15 Process Agent. Replace the 1st paragraph with the following: Every corporation doing business with the Department shall submit evidence of compliance with KRS Sections 14A.4-010, 271B.11-010, 271B.11-070, 271B.11-080, 271B.5-010 and 271B.16-220, and file with the Department the name and address of the process agent upon whom process may be served.
Subsection: **Revision:**	105.13 Claims Resolution Process. Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no longer available through the forms library and are forms generated within the AASHTO SiteManager software.
Subsection: **Revision:**	108.03 Preconstruction Conference. Replace 8) Staking with the following: 8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	109.07.02 Fuel. Revise item Crushed Aggregate Used for Embankment Stabilization to the following: Crushed Aggregate Used for Stabilization of Unsuitable Materials Used for Embankment Stabilization
	Delete the following item from the table. ~~Crushed Sandstone Base (Cement Treated)~~
Subsection: **Revision:**	110.02 Demobilization. Replace the first part of the first sentence of the second paragraph with the following: Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12;
Subsection: **Revision:**	112.03.12 Project Traffic Coordinator (PTC). Replace the last paragraph of this subsection with the following: Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses.
Subsection: **Revision:**	112.04.18 Diversions (By-Pass Detours). Insert the following sentence after the 2nd sentence of this subsection. The Department will not measure temporary drainage structures for payment when the contract documents provide the required drainage opening that must be maintained with the diversion. The temporary drainage structures shall be incidental to the construction of the diversion. If the contract documents fail to provide the required drainage opening needed for the diversion, the cost of the temporary drainage structure will be handled as extra work in accordance with section 109.04.
Subsection: **Revision:**	201.03.01 Contractor Staking. Replace the first paragraph with the following: Perform all necessary surveying under the general supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the July 31, 2015 Letting

Subsection: **Revision:**	201.04.01 Contractor Staking. Replace the last sentence of the paragraph with the following: Complete the general layout of the project under the supervision of a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	206.04.01 Embankment-in-Place. Replace the fourth paragraph with the following: The Department will not measure **suitable** excavation included in the original plans that is disposed of for payment and will consider it incidental to Embankment-in-Place.
Subsection: **Revision:**	208.02.01 Cement. Replace paragraph with the following: Select Type I or Type II cement conforming to Section 801. Use the same type cement throughout the work.
Subsection: **Revision:**	208.03.06 Curing and Protection. Replace the fourth paragraph with the following: Do not allow traffic or equipment on the finished surface until the stabilized subgrade has cured for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A curing day consists of a continuous 24-hour period in which the ambient air temperature does not fall below 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but must total seven (7) , 24-hour days with the ambient air temperature remaining at or above 40 degrees Fahrenheit before traffic or equipment will be allowed to traverse the stabilized subgrade. The Department may allow a shortened curing period when the Contractor requests. The Contractor shall give the Department at least 3 day notice of the request for a shortened curing period. The Department will require a minimum of 3 curing days after final compaction. The Contractor shall furnish cores to the treated depth of the roadbed at 500 feet intervals for each lane when a shortened curing time is requested. The Department will test cores using an unconfined compression test. Roadbed cores must achieve a minimum strength requirement of 80 psi.
Subsection: **Revision:**	208.03.06 Curing and Protection. Replace paragraph eight with the following: At no expense to the Department, repair any damage to the subgrade caused by freezing.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. A) Seed Mixtures for Permanent Seeding. Revise **Seed Mix Type I** to the mixture shown below: 50% Kentucky 31 Tall Fescue (Festuca arundinacea) 35% Hard Fescue (Festuca (Festuca longifolia) 10% Ryegrass, Perennial (Lolium perenne) 5% White Dutch Clover (Trifolium repens)
Subsection: **Part:** **Number:** **Revision:**	212.03.03 Permanent Seeding and Protection. A) Seed Mixtures for Permanent Seeding. 2) Replace the paragraph with the following: Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed mix Type II at a minimum application rate of 100 pounds per acre. If adjacent to a golf course replace the crown vetch with Kentucky 31 Tall Fescue.

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Subsection: **Part:** **Number:** **Revision:**	212.03.03 Permanent Seeding and Protection. A) Seed Mixtures for Permanent Seeding. 3) Replace the paragraph with the following: Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and 12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent to crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. B) Procedures for Permanent Seeding. Delete the first sentence of the section.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. B) Procedures for Permanent Seeding. Replace the second and third sentence of the section with the following: Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural limestone to the seedbed when the Engineer determines it is needed. When required, place agricultural limestone at a rate of 3 tons per acre.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. D) Top Dressing. Change the title of part to D) Fertilizer.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. D) Fertilizer. Replace the first paragraph with the following: Apply fertilizer at the beginning of the seeding operation and after vegetation is established. Use fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-10 fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000 square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional cost to the Department. Re-establish any vegetation severely damaged or destroyed because of an excessive application of fertilizer at no cost to the Department.
Subsection: **Part:** **Revision:**	212.03.03 Permanent Seeding and Protection. D) Fertilizer. Delete the second paragraph.
Subsection: **Revision:**	212.04.04 Agricultural Limestone. Replace the entire section with the following: The Department will measure the quantity of agricultural limestone in tons.
Subsection: **Revision:**	212.04.05 Fertilizer. Replace the entire section with the following: The Department will measure fertilizer used in the seeding or sodding operations for payment. The Department will measure the quantity by tons.

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Subsection: **Revision:**	212.05 PAYMENT. Delete the following item code: Code — Pay Item — Pay Unit 05966 — Topdressing Fertilizer — Ton
Subsection: **Revision:**	212.05 PAYMENT. Add the following pay items: Code — Pay Item — Pay Unit 05963 — Initial Fertilizer — Ton 05964 — 20-10-10 Fertilizer — Ton 05992 — Agricultural Limestone — Ton
Subsection: **Revision:**	213.03.02 Progress Requirements. Replace the last sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of work are not coordinated in an acceptable manner within 7 calendar days after written notification.
Subsection: **Part:** **Revision:**	213.03.05 Temporary Control Measures. E) Temporary Seeding and Protection. Delete the second sentence of the first paragraph.
Subsection: **Table:** **Revision:**	304.02.01 Physical Properties. Required Geogrid Properties Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.
Subsection: **Part:** **Revision:**	402.03.02 Contractor Quality Control and Department Acceptance. B) Sampling. Replace the second sentence with the following: The Department will determine when to obtain the quality control samples using the random-number feature of the mix design submittal and approval spreadsheet. The Department will randomly determine when to obtain the verification samples required in Subsections 402.03.03 and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.
Subsection: **Part:** **Number:** **Revision:**	402.03.02 Contractor Quality Control and Department Acceptance. D) Testing Responsibilities. 3) VMA. Add the following paragraph below Number 3) VMA: Retain the AV/VMA specimens and one additional corresponding G_{mm} sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens from the affected sublot(s) for the duration of the project.
Subsection: **Part:** **Number:** **Revision:**	402.03.02 Contractor Quality Control and Department Acceptance. D) Testing Responsibilities. 4) Density. Replace the second sentence of the Option A paragraph with the following: Perform coring by the end of the following work day.

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Subsection: **Part:** **Number:** **Revision:**	402.03.02 Contractor Quality Control and Department Acceptance. D) Testing Responsibilities. 5) Gradation. Delete the second paragraph.
Subsection: **Part:** **Number:** **Revision:**	402.03.02 Contractor Quality Control and Department Acceptance. H) Unsatisfactory Work. 1) Based on Lab Data. Replace the second paragraph with the following: When the Engineer determines that safety concerns or other considerations prohibit an immediate shutdown, continue work and the Department will make an evaluation of acceptability according to Subsection 402.03.05.
Subsection: **Revision:**	402.03.03 Verification. Replace the first paragraph with the following: **402.03.03 Mixture Verification.** For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA according to the corresponding procedures as given in Subsection 402.03.02. The Department will randomly determine when to obtain the verification sample using the Asphalt Mixture Sample Random Tonnage Generator. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405. The Contractor will obtain a quality control sample at the same time the Department obtains the mixture verification sample and perform testing according to the procedures given in Subsection 402.03.02. If the Contractor's quality control sample is verified by the Department's test results within the tolerances provided below, the Contractor's sample will serve as the quality control sample for the affected sublot. The Department may perform the mixture verification test on the Contractor's equipment or on the Department's equipment.
Subsection: **Part:** **Revision:**	402.03.03 Verification. A) Evaluation of Sublot(s) Verified by Department. Replace the third sentence of the second paragraph with the following: When the paired *t* -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.
Subsection: **Part:** **Revision:**	402.03.03 Verification. B) Evaluation of Sublots Not Verified by Department. Replace the third sentence of the first paragraph with the following: When differences between test results are not within the tolerances listed below, the Department will resolve the discrepancy according to Subsection 402.03.05.

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Subsection: **Part:** **Revision:**	402.03.03 Verification. B) Evaluation of Sublots Not Verified by Department. Replace the third sentence of the second paragraph with the following: When the *F* -test or *t* -test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.
Subsection: **Part:** **Revision:**	402.03.03 Verification. C) Test Data Patterns. Replace the second sentence with the following: When patterns indicate substantial differences between the verified and non-verified sublots, the Department will perform further comparative testing according to subsection 402.03.05.
Subsection: **Revision:**	402.03 CONSTRUCTION. Add the following subsection: **402.03.04 Testing Equipment and Technician Verification.** For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the Department will obtain an additional verification sample at random using the Asphalt Mixture Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and Department's laboratory testing equipment and technicians. The Department will obtain a mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split it according to AASHTO R 47. The Department will retain one split portion of the sample and provide the other portion to the Contractor. At a later time convenient to both parties, the Department and Contractor will simultaneously reheat the sample to the specified compaction temperature and test the mixture for AV and VMA using separate laboratory equipment according to the corresponding procedures given in Subsection 402.03.02. The Department will evaluate the differences in test results between the two laboratories. When the difference between the results for AV or VMA is not within ± 2.0 percent, the Department will investigate and resolve the discrepancy according to Subsection 402.03.05.
Subsection: **Revision:**	402.03.04 Dispute Resolution. Change the subsection number to 402.03.05.
Subsection: **Part:** **Table:** **Revision:**	402.05 PAYMENT. Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures AC Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ±0.6.
Subsection: **Revision:**	403.02.10 Material Transfer Vehicle (MTV). Replace the first sentence with the following: In addition to the equipment specified above, provide a MTV with the following minimum characteristics:
Subsection: **Revision:**	412.02.09 Material Transfer Vehicle (MTV). Replace the paragraph with the following: Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.

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Subsection: **Revision:**	412.03.07 Placement and Compaction. Replace the first paragraph with the following: Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on ramps and/or shoulders unless specified in the contract. When the Engineer determines the use of the MTV is not practical for a portion of the project, the Engineer may waive its requirement for that portion of pavement by a letter documenting the waiver.
Subsection: **Revision:**	412.04 MEASUREMENT. Add the following subsection: 412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for payment and will consider its use incidental to the asphalt mixture.
Subsection: **Revision:**	501.03.05 Weather Limitations and Protection. Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20.
Subsection: **Part:** **Revision:**	501.03.19 Surface Tolerances and Testing Surface. B) Ride Quality. Add the following to the end of the first paragraph: The Department will specify if the ride quality requirements are Category A or Category B when ride quality is specified in the Contract. Category B ride quality requirements shall apply when the Department fails to classify which ride quality requirement will apply to the Contract.
Subsection: **Revision:**	603.03.06 Cofferdams. Replace the seventh sentence of paragraph one with the following: Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	605.03.04 Tack Welding. Insert the subsection and the following: 605.03.04 Tack Welding. The Department does not allow tack welding.
Subsection: **Part:** **Number:** **Revision:**	606.03.17 Special Requirements for Latex Concrete Overlays. A) Existing Bridges and New Structures. 1) Prewetting and Grout-Bond Coat. Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition.
Subsection: **Revision:**	609.03 Construction. Replace Subsection 609.03.01 with the following: 609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast concrete release the temporary erection supports under the bridge and swing the span free on its supports. 609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the beam is placed in the final location and prior to placing steel reinforcement. At locations where lift loops are cut, paint the top of the beam with galvanized or epoxy paint.

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Subsection: **Revision:**	611.03.02 Precast Unit Construction. Replace the first sentence of the subsection with the following: Construct units according to ASTM C1577, **replacing Table 1 (Design Requirements for Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions) with KY Table 1 (Precast Culvert KYHL-93 Design Table)**, and Section 605 with the following exceptions and additions:
Subsection: **Number:** **Revision:**	613.03.01 Design. 2) Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications"
Subsection: **Revision:**	615.06.02 Add the following sentence to the end of the subsection. The ends of units shall be normal to walls and centerline except exposed edges shall be beveled ¾ inch.
Subsection: **Revision:**	615.06.03 Placement of Reinforcement in Precast 3-Sided Units. Replace the reference of 6.6 in the section to 615.06.06.
Subsection: **Revision:**	615.06.04 Placement of Reinforcement for Precast Endwalls. Replace the reference of 6.7 in the section to 615.06.07.
Subsection: **Revision:**	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units. Replace the subsection with the following: Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric shall be measured between the outer most longitudinal wires of each fabric sheet. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no more than 4 inches. The spacing center to center of the longitudinal wires shall not be more than 8 inches. The spacing center to center of the longitudinal distribution steel for either line of reinforcing in the top slab shall be not more than 16 inches.
Subsection: **Revision:**	615.06.07 Laps, Welds, and Spacing for Precast Endwalls. Replace the subsection with the following: Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.

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Subsection: **Revision:**	615.08.01 Type of Test Specimen. Replace the subsection with the following: Start-up slump, air content, unit weight, and temperature tests will be performed each day on the first batch of concrete. Acceptable start-up results are required for production of the first unit. After the first unit has been established, random acceptance testing is performed daily for each 50 yd^3 (or fraction thereof). In addition to the slump, air content, unit weight, and temperature tests, a minimum of one set of cylinders shall be required each time plastic property testing is performed.
Subsection: **Revision:**	615.08.02 Compression Testing. Delete the second sentence.
Subsection: **Revision:**	615.08.04 Acceptability of Core Tests. Delete the entire subsection.
Subsection: **Revision:**	615.12 Inspection. Add the following sentences to the end of the subsection: Units will arrive at jobsite with the "Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the production facility. Units shall be inspected upon arrival for any evidence of damage resulting from transport to the jobsite.
Subsection: **Revision:**	701.04.16 Deduction for Pipe Deflection. Insert the following at the end of the paragraph: The section length is determined by the length of the pipe between joints where the failure occurred.
Subsection: **Revision:**	716.02.02 Paint. Replace sentence with the following: Conform to Section 821.
Subsection: **Revision:**	716.03 CONSTRUCTION. Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,
Subsection: **Revision:**	716.03.02 Lighting Standard Installation. Replace the second sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.
Subsection: **Part:** **Revision:**	716.03.02 Lighting Standard Installation. A) Conventional Installation. Replace the third sentence with the following: Orient the transformer base so the door is positioned on the side away from on-coming traffic.
Subsection: **Part:** **Number:** **Revision:**	716.03.02 Lighting Standard Installation. A) Conventional Installation. 1) Breakaway Installation and Requirements. Replace the first sentence with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection: **Part:** **Revision:**	716.03.02 Lighting Standard Installation. B) High Mast Installation Replace the first sentence with the following: Install each high mast pole as noted on plans.

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Subsection: 716.03.02 Lighting Standard Installation.
Part: B) High Mast Installation
Number: 2) Concrete Base Installation
Revision: Modification of Chart and succeeding paragraphs within this section:

Drilled Shaft Depth Data							
Level Ground		3:1 Ground Slope		2:1 Ground Slope		1.5:1 Ground Slope (2)	
Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock
17 ft	7 ft	19 ft	7 ft	20 ft	7 ft	(1)	7 ft

Steel Requirements			
Vertical Bars		Ties or Spiral	
Size	Total	Size	Spacing or Pitch
#10	16	#4	12 inch

(1): Shaft length is 22' for cohesive soil only. For cohesionless soil, contact geotechnical branch for design.
(2): Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic.

If rock is encountered during drilling operations and confirmed by the engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted accordingly.

If a shorter depth is desired for the drilled shaft, the contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.

Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the geotechnical branch if such conditions are encountered.

The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.

The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.

Subsection: 716.03.03 Trenching.
Part: A) Trenching of Conduit for Highmast Ducted Cables.
Revision: Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.

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Subsection: **Part:** **Revision:**	716.03.03 Trenching. B) Trenching of Conduit for Non-Highmast Cables. Add the following after the second sentence: If depths greater than 24 inches are necessary for either situation listed previously, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection: **Revision:**	716.03.10 Junction Boxes. Replace subsection title with the following: Electrical Junction Box.
Subsection: **Revision:**	716.04.07 Pole with Secondary Control Equipment. Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
Subsection: **Revision:**	716.04.08 Lighting Control Equipment. Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure constructing the concrete base, excavation, backfilling, restoration, any necessary anchors, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
Subsection: **Revision:**	716.04.09 Luminaire. Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
Subsection: **Revision:**	716.04.10 Fused Connector Kits. Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
Subsection: **Revision:**	716.04.13 Junction Box. Replace the subsection title with the following: Electrical Junction Box Type Various.
Subsection: **Part:** **Revision:**	716.04.13 Junction Box. A) Junction Electrical. Rename A) Junction Electrical to the following: A) Electrical Junction Box.
Subsection: **Revision:**	716.04.14 Trenching and Backfilling. Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.

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Subsection: **Revision:**	716.04.18 Remove Lighting. Replace the paragraph with the following: The Department will measure the quantity as a lump sum for the removal of lighting equipment. The Department will not measure the disposal of all equipment and materials off the project by the contractor. The Department also will not measure the transportation of the materials and will consider them incidental to this item of work.
Subsection: **Revision:**	716.04.20 Bore and Jack Conduit. Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
Subsection: **Revision:**	716.05 PAYMENT. Replace items 04810-04811, 20391NS835 and, 20392NS835 under Code, Pay Item, and Pay Unit with the following: Code — Pay Item — Pay Unit 04810 — Electrical Junction Box — Each 04811 — Electrical Junction Box Type B — Each 20391NS835 — Electrical Junction Box Type A — Each 20392NS835 — Electrical Junction Box Type C — Each
Subsection: **Revision:**	723.02.02 Paint. Replace sentence with the following: Conform to Section 821.
Subsection: **Revision:**	723.03 CONSTRUCTION. Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,
Subsection: **Revision:**	723.03.02 Poles and Bases Installation. Replace the first sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.
Subsection: **Part:** **Revision:**	723.03.02 Poles and Bases Installation. A) Steel Strain and Mastarm Poles Installation Replace the second paragraph with the following: For concrete base installation, see Section 716.03.02, B), 2), Paragraphs 2-7. Drilled shaft depth shall be based on the soil conditions encountered during drilling and slope condition at the site. Refer to the design chart below:
Subsection: **Part:** **Revision:**	723.03.02 Poles and Bases Installation. B) Pedestal or Pedestal Post Installation. Replace the fourth sentence of the paragraph with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.

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Subsection: **Part:** **Revision:**	723.03.03 Trenching. A) Under Roadway. Add the following after the second sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain ether required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection: **Revision:**	723.03.11 Wiring Installation. Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection: **Revision:**	723.03.12 Loop Installation. Replace the fourth sentence of the 2nd paragraph with the following: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
Subsection: **Revision:**	723.04.02 Junction Box. Replace subsection title with the following: Electrical Junction Box Type Various.
Subsection: **Revision:**	723.04.03 Trenching and Backfilling. Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.10 Signal Pedestal. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, specified conduits, fittings, ground rod, ground wire, backfilling, restoring disturbed areas, or other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.15 Loop Saw Slot and Fill. Replace the second sentence with the following: The Department will not measure sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, and grout and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.16 Pedestrian Detector. Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished, installed and connected to pole/pedestal. The Department will not measure installing R10-3e (with arrow) sign, furnishing and installing mounting hardware for sign and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.18 Signal Controller- Type 170. Replace the second sentence with the following: The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure furnishing and connecting the induction of loop amplifiers, pedestrian isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.

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Subsection: **Revision:**	723.04.20 Install Signal Controller - Type 170. Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, and excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure connecting the induction loop amplifiers, pedestrian, isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.22 Remove Signal Equipment. Replace the paragraph with the following: The Department will measure the quantity as a lump sum removal of signal equipment. The Department will not measure the return of control equipment and signal heads to the Department of Highways as directed by the District Traffic Engineer. The Department also will not measure the transportation of materials of the disposal of all other equipment and materials off the project by the contractor and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.28 Install Pedestrian Detector Audible. Replace the second sentence with the following: The Department will not measure installing sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.29 Audible Pedestrian Detector. Replace the second sentence with the following: The Department will not measure furnishing and installing the sign R10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.30 Bore and Jack Conduit. Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
Subsection: **Revision:**	723.04.31 Install Pedestrian Detector. Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed and connected to pole/pedestal. The Department will not measure installing sign R 10-3e (with arrow) and will consider it incidental to this item of work.
Subsection: **Revision:**	723.04.32 Install Mast Arm Pole. Replace the second sentence with the following: The Department will not measure arms, signal mounting brackets, anchor bolts, or any other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.33 Pedestal Post. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, conduit, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.

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Subsection: **Revision:**	723.04.36 Traffic Signal Pole Base. Replace the second sentence with the following: The Department will not measure excavation, reinforcing steel, anchor bolts, specified conduits, ground rods, ground wires, backfilling, or restoration and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.37 Install Signal Pedestal. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.04.38 Install Pedestal Post. Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.
Subsection: **Revision:**	723.05 PAYMENT. Replace items 04810-04811, 20391NS835 and, 20392NS835 under Code, Pay Item, and Pay Unit with the following: Code — Pay Item — Pay Unit 04810 — Electrical Junction Box — Each 04811 — Electrical Junction Box Type B — Each 20391NS835 — Electrical Junction Box Type A — Each 20392NS835 — Electrical Junction Box Type C — Each
Subsection: **Revision:**	804.01.02 Crushed Sand. Delete last sentence of the section.
Subsection: **Revision:**	804.01.06 Slag. Add subsection and following sentence. Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only in asphalt surface applications.
Subsection: **Revision:**	804.04 Asphalt Mixtures. Replace the subsection with the following: Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as necessary, to meet gradation requirements. The Department will allow any combination of natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved using cold feeds at the plant. The Engineer may allow other fine aggregates.
Subsection: **Revision:**	806.03.01 General Requirements. Replace the second sentence of the paragraph with the following: Additionally, the material must have a minimum solubility of 99.0 percent when tested according to AASHTO T 44 and PG 76-22 must exhibit a minimum recovery of 60 percent, with a J_{NR} (nonrecoverable creep compliance) between 0.1 and 0.5, when tested according to AASHTO TP 70.

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Subsection: 806.03.01 General Requirements.
Table: PG Binder Requirements and Price Adjustment Schedule
Revision: Replace the Elastic Recovery, % [3] (AASHTO T301) and all corresponding values in the table with the following:

Test	Specification	100% Pay	90% Pay	80% Pay	70% Pay	50%Pay[1]
MSCR recovery, % [3] (AASHTO TP 70)	60 Min.	≥58	56	55	54	<53

Subsection: 806.03.01 General Requirements.
Table: PG Binder Requirements and Price Adjustment Schedule
Superscript: (3)
Revision: Replace [3] with the following:
Perform testing at 64°C.

Subsection: 813.04 Gray Iron Castings.
Revision: Replace the reference to "AASHTO M105" with "ASTM A48".

Subsection: 813.09.02 High Strength Steel Bolts, Nuts, and Washers.
Number: A) Bolts.
Revision: Delete first paragraph and "Hardness Number" Table. Replace with the following:
A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as applicable.

Subsection: 814.04.02 Timber Guardrail Posts.
Revision: Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".

Subsection: 814.04.02 Timber Guardrail Posts.
Revision: Replace the first sentence of the fourth paragraph with the following:
Use any of the species of wood for round or square posts covered under AWPA U1.

Subsection: 814.04.02 Timber Guardrail Posts.
Revision: Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1".

Subsection: 814.04.02 Timber Guardrail Posts.
Revision: Delete the second sentence of the fourth paragraph.

Subsection: 814.05.02 Composite Plastic.
Revision: 1) Add the following to the beginning of the first paragraph: Select composite offset blocks conforming to this section and assure blocks are from a manufacturer included on the Department's List of Approved Materials.
2) Delete the last paragraph of the subsection.

Subsection: 816.07.02 Wood Posts and Braces.
Revision: First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1".

Subsection: 816.07.02 Wood Posts and Braces.
Revision: Delete the second sentence of the first paragraph.

Subsection: 818.07 Preservative Treatment.
Revision: First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".

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Subsection: **Revision:**	834.14 Lighting Poles. Replace the first sentence with the following: Lighting pole design shall be in accordance with loading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).
Subsection **Revision:**	834.14.03 High Mast Poles. Remove the second and fourth sentence from the first paragraph.
Subsection **Revision:**	834.14.03 High Mast Poles. Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	834.14.03 High Mast Poles. Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield strength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential welded tube butt splices and laminated tubes are not permitted. Provide pole sections that are telescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications. The thickness of the transverse base shall not be less than 2 inches. Plates shall be integrally welded to the tubes with a telescopic welded joint or a full penetration groove weld with backup bar.The handhole cover shall be removable from the handhole frame. One the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM A 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7-guage stainless steel to provide adjustability to insure weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).
Subsection: **Revision:**	834.16 ANCHOR BOLTS. Insert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.

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Subsection: **Revision:**	834.17.01 Conventional. Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage.
Subsection: **Revision:**	834.21.01 Waterproof Enclosures. Replace the last five sentences in the second paragraph with the following sentences: Provide a cabinet door with a louvered air vent, filter-retaining brackets and an easy to clean metal filter. Provide a cabinet door that is keyed with a factory installed standard no. 2 corbin traffic control key. Provide a light fixture with switch and bulb. Use a 120-volt fixture and utilize a L.E.D. bulb (equivalent to 60 watts minimum). Fixture shall be situated at or near the top of the cabinet and illuminate the contents of the cabinet. Provide a 120 VAC GFI duplex receptacle in the enclosure with a separate 20 amp breaker.
Subsection: **Revision:**	835.07 Traffic Poles. Replace the first sentence of the first paragraph with the following: Pole diameter and wall thickness shall be calculated in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection: **Revision:**	835.07 Traffic Poles. *Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates have a thickness ≥ 2 inches. *Add the following sentence to the end of the fourth paragraph: The bottom pole diameter shall not be less than 16.25 inches.
Subsection: **Revision:**	835.07 Traffic Poles. Replace the third sentence of the fifth paragraph with the following: For anchor bolt design, pole forces shall be positioned in such a manner to maximize the force on any individual anchor bolt regardless of the actual anchor bolt orientation with the pole.
Subsection: **Revision:**	835.07 Traffic Poles. Replace the first and second sentence of the sixth paragraph with the following: The pole handhole shall be 25 inches by 6.5 inches. The handhole cover shall be removable from the handhole frame. On the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7 gauge stainless steel to provide adjustability to insure a weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube but needs to be at least 12 inches.

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Subsection: **Revision:**	835.07 Traffic Poles. *Replace the first sentence of the last paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. *Replace the third sentence of the last paragraph with the following: All tables referenced in 835.07 are found in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection: **Revision:**	835.07.01 Steel Strain Poles. Replace the second sentence of the second paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	835.07.01 Steel Strain Poles. Replace number 7. after the second paragraph with the following: 7. Fatigue calculations should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.
Subsection: **Revision:**	835.07.02 Mast Arm Poles. Replace the second sentence of the fourth paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection: **Revision:**	835.07.02 Mast Arm Poles. Replace number 7) after the fourth paragraph with the following: 7) Fatigue calculations should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.
Subsection: **Revision:**	835.07.03 Anchor Bolts. Add the following to the end of the paragraph: There shall be two steel templates (one can be used for the headed part of the anchor bolt when designed in this manner) provided per pole. Templates shall be contained within a 26.5 inch diameter. All templates shall be fully galvanized (ASTM A 153).
Subsection: **Revision:**	835.16.05 Optical Units. Replace the 3rd paragraph with the following: The list of certified products can be found on the following website: http://www.intertek.com.
Subsection: **Revision:**	835.19.01 Pedestrian Detector Body. Replace the first sentence with the following: Provide a four holed pole mounted aluminum rectangular housing that is compatible with the pedestrian detector.
Subsection: **Table:** **Revision:**	843.01.01 Geotextile Fabric. TYPE I FABRIC GEOTEXTILES FOR SLOPE PROTECTION AND CHANNEL LINING Add the following to the chart: Property — Minimum Value(1) — Test Method CBR Puncture (lbs) — 494 — ASTM D6241 Permittivity (1/s) — 0.7 — ASTM D4491

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Subsection: 843.01.01 Geotextile Fabric.
Table: TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS
Revision: Add the following to the chart:

Property	Minimum Value[1]	Test Method
CBR Puncture (lbs)	210	ASTM D6241
Permittivity (1/s)	0.5	ASTM D4491

Subsection: 843.01.01 Geotextile Fabric.
Table: TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT STABILIZATION
Revision: Add the following to the chart:

Property	Minimum Value[1]	Test Method
CBR Puncture (lbs)	370	ASTM D6241
Permittivity (1/s)	0.05	ASTM D4491

Subsection: 843.01.01 Geotextile Fabric.
Table: TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND PAVEMENT EDGE DRAINS
Revision: Add the following to the chart:

Property	Minimum Value[1]	Test Method
CBR Puncture (lbs)	309	ASTM D6241
Permittivity (1/s)	0.5	ASTM D4491

Subsection: 843.01.01 Geotextile Fabric.
Table: TYPE V HIGH STRENGTH GEOTEXTILE FABRIC
Revision: Make the following changes to the chart:

Property	Minimum Value[1]	Test Method
CBR Puncture (lbs)	618	ASTM D6241
Apparent Opening Size	U.S. #40[3]	ASTM D4751

[3] Maximum average roll value.

2012 STANDARD DRAWINGS THAT APPLY

APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT RPM-110-06
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS TPM-100-02
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS TPM-105-02
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS TPM-110-02
PAVEMENT MARKER ARRANGEMENTS TWO-LANE TWO-WAY ROADWAYS TPM-115-02
PAVEMENT MARKER ARRANGEMENT TWO-LANE TO FOUR-LANE TRANSITIONS TPM-120-02
PAVEMENT MARKER ARRANGEMENT EXIT-GORE AND OFF-RAMP TPM-125-02
PAVEMENT MARKER ARRANGEMENTS ON-RAMP WITH TAPERED ACCELERATION LANE TPM-130-02
PAVEMENT MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCELERATION LANE TPM-135-02
PAVEMENT MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE TPM-140-02
PAVEMENT MARKER ARRANGEMENT CHANNELIZED INTERSECTION TPM-145-02
CENTERLINE RUMBLE STRIP 4 INCH STRIPING TPM-155-01
CENTERLINE RUMBLE STRIP 6 INCH STRIPING TPM-160-01
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
MOBILE OPERATION FOR DURABLE STRIPING CASE I TTS-120-01
MOBILE OPERATION FOR DURABLE STRIPING CASE II TTS-125-01
MOBILE OPERATION FOR DURABLE STRIPING CASE III TTS-130-01
MOBILE OPERATION FOR DURABLE STRIPING CASE IV TTS-135-01

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 administrating 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** or by phone at 502-564-2874.

KENTUCKY LABOR CABINET
PREVAILING WAGE DETERMINATION
CURRENT REVISION
HIGHWAY CONSTRUCTION LOCALITY NO. II

Determination No. CR-15-II-HWY

Project No.
Highway

Date of Determination: July 20, 2015

This schedule of the prevailing rate of wages for Locality No. II including the counties of ADAIR, BARREN, BELL, BREATHITT, CASEY, CLAY, CLINTON, CUMBERLAND, ESTILL, FLOYD, GARRARD, GREEN, HARLAN, HART, JACKSON, JOHNSON, KNOTT, KNOX, LAUREL, LAWRENCE, LEE, LESLIE, LETCHER, LINCOLN, MCCREARY, MAGOFFIN, MARTIN, MENIFEE, METCALFE, MONROE, MORGAN, OWSLEY, PERRY, PIKE, POWELL, PULASKI, ROCKCASTLE, RUSSELL, TAYLOR, WAYNE, WHITLEY, and WOLFE has been determined in accordance with the provisions of KRS 337.505 to 337.550. This determination shall be referred to as Prevailing Wage Determination No. CR-15-II-HWY.

The following schedule of rates is to be used for highway construction projects advertised or awarded by the Kentucky Transportation Cabinet. This includes any contracts for the relocation of any utilities or other incidental construction projects advertised or awarded by public authorities as a result of the highway construction project.

Apprentices or trainees shall be permitted to work in accordance with Administrative Regulations. Copies of these regulations will be furnished upon request to any interested person.

Overtime is to be computed at not less than one and one-half (1 1/2) times the indicated BASE RATE for all hours worked in excess of eight (8) hours per day, or in excess of forty (40) hours per week. However, KRS 337.540 permits an employee and employer to agree, in writing, that the employee will be compensated at a straight time base rate for hours worked in excess of eight (8) hours in any one calendar day, but not more than ten (10) hours worked in any one calendar day, if such written agreement is prior to the over eight (8) hours in a calendar day actually being worked, or where provided for in a collective bargaining agreement. The fringe benefit rate is to be paid for each hour worked at a straight time rate for all hours worked. Fringe benefit amounts are applicable for all hours worked except when otherwise noted. Welders will receive rate for craft in which welding is incidental.

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.

Anthony Russell, Commissioner
Department of Workplace Standards

CLASSIFICATIONS	RATE AND FRINGE BENEFITS	
BOILERMAKERS:	BASE RATE	$24.65
	FRINGE BENEFIT	12.94
BRICKLAYERS:		
Bricklayers:	BASE RATE	$22.90
	FRINGE BENEFITS	8.50
Stone Mason:	BASE RATE	$21.50
	FRINGE BENEFITS	8.50
CARPENTERS:		
Carpenters:	BASE RATE	$24.90
	FRINGE BENEFITS	14.50
Piledrivers:	BASE RATE	$24.55
	FRINGE BENEFITS	14.50
CEMENT MASONS:	BASE RATE	$21.25
	FRINGE BENEFITS	8.50
ELECTRICIANS:	*BASE RATE	$29.36
	FRINGE BENEFITS	10.55

*When workmen are required to work from bosum 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.

LINEMAN:	*BASE RATE	$30.09
	FRINGE BENEFITS	10.94
EQUIPMENT OPERATOR:	*BASE RATE	$26.90
	FRINGE BENEFITS	10.31
GROUNDSMAN:	*BASE RATE	$17.79
	FRINGE BENEFITS	8.51
IRONWORKERS:	BASE RATE	$ 27.56
	FRINGE BENEFITS	20.57

CLASSIFICATIONS RATE AND FRINGE BENEFITS

LABORERS:

GROUP 1: Aging and curing of concrete (any mode or method), asbestos abatement worker, asphalt plant laborers, asphalt laborers; batch truck dumpers; carpenter tenders, cement mason tenders, cleaning of machines, concrete laborers, demolition laborers, dredging laborers, drill helper, environmental laborer - nuclear, radiation, toxic and hazardous waste – Level D, flagmen, grade checkers, all hand digging and hand back filling, highway marker placers, landscaping laborers, mesh handlers and placers, puddler, railroad laborers, rip-rap and grouters, right of way laborers, sign, guard rail and fence installers (all types), signalmen, sound barrier installer, storm and sanitary sewer laborers, swampers, truck spotters and dumpers, wrecking of concrete forms, general cleanup:

HEAVY & HIGHWAY	BASE RATE	$21.80
	FRINGE BENEFITS	12.36

GROUP 2: Batter board men (sanitary and storm sewer), brickmason tenders, mortar mixer operator, scaffold builders, burner and welder, bushammers, chain saw operator, concrete saw operators, deckhand scow man, dry cement handlers, environmental laborers – nuclear, radiation, toxic and hazardous waste – Level C, forklift operators for masonry, form setters, green concrete cutting, hand operated grouter and grinder machine operator, jack hammers, lead paint abatement, pavement breakers, paving joint machine, pipe layers – laser operators (non-metallic), plastic pipe fusion, power driven Georgia buggy and wheel barrow, power post hole diggers, precast manhole setters, walk-behind tampers, walk-behind trenchers, sand blasters, concrete chippers, surface grinders, vibrator operators, wagon drillers:

HEAVY & HIGHWAY	BASE RATE	$22.05
	FRINGE BENEFITS	12.36

GROUP 3: Air track driller (all types), asphalt luteman and rakersm gunnite nozzleman, gunnite operators and mixers, grout pump operator, powderman and blaster, side rail setters, rail paved ditches, screw operators, tunnel laborers (free air), and water blasters:

HEAVY & HIGHWAY	BASE RATE	$22.10
	FRINGE BENEFITS	12.36

GROUP 4: Caisson workers (free air), cement finishers, environmental laborer – nuclear, radiation, toxic and hazardous waste – Level A and B, miners and drillers (free air), tunnel blasters, and tunnel mockers (free air), directional and horizontal boring, air track drillers (all types), powder man and blasters, troxler and concrete tester if laborer is utilized:

HEAVY & HIGHWAY	BASE RATE	$22.70
	FRINGE BENEFITS	12.36

OPERATING ENGINEERS:

Group A-1:
NCCCO or OECP Certified; Crane, dragline, hoist (1 drum when used for stack or chimney construction or repair), hoisting engineer (2 or more drums), orangepeel, overhead crane, piledriver, truck crane, tower crane, hydraulic crane:

BASE RATE	$31.08
FRINGE BENEFITS	14.40

CLASSIFICATIONS RATE AND FRINGE BENEFITS

OPERATING ENGINEERS (CONTINUED):

Group A:

Auto patrol, batcher 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,sheepfoot, 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	$29.95
FRINGE BENEFITS	14.40

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, whirly oiler, tractair and road widening trencher, articulating trucks:

BASE RATE	$27.26
FRINGE BENEFITS	14.40

Group B2:

Greaser on grease facilities servicing heavy equipment:

BASE RATE	$27.68
FRINGE BENEFITS	14.40

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	$26.96
FRINGE BENEFITS	14.40

PAINTERS:

All Excluding Bridges:

BASE RATE	$19.92
FRINGE BENEFITS	9.57

Bridges:

BASE RATE	$23.92
FRINGE BENEFITS	10.07

CLASSIFICATIONS	RATE AND FRINGE BENEFITS	
PLUMBERS:	BASE RATE	$22.52
	FRINGE BENEFITS	7.80
SHEET METAL:	BASE RATE	$20.40
	FRINGE BENEFITS	7.80
TRUCK DRIVERS:		
Truck helper and warehouseman:	BASE RATE	$23.20
	FRINGE BENEFITS	14.50
Driver, winch truck and A-Frame when used in transporting materials:	BASE RATE	$23.30
	FRINGE BENEFITS	14.50
Driver, (semi-trailer or pole trailer), driver (dump truck, tandem axle), driver of distributor:	BASE RATE	$23.40
	FRINGE BENEFITS	14.50
Driver on mixer trucks (all types):	BASE RATE	$23.45
	FRINGE BENEFITS	14.50
Truck mechanic:	BASE RATE	$23.50
	FRINGE BENEFITS	14.50
Driver (3 tons and under), tire changer and truck mechanic helper:	BASE RATE	$23.53
	FRINGE BENEFITS	14.50
Driver on pavement breakers:	BASE RATE	$23.55
	FRINGE BENEFITS	14.50
Driver (over 3 tons), driver (truck mounted rotary drill):	BASE RATE	$23.74
	FRINGE BENEFITS	14.50
Driver, Euclid and other heavy earth moving equipment and Low Boy:	BASE RATE	$24.31
	FRINGE BENEFITS	14.50
Greaser on greasing facilities:	BASE RATE	$24.40
	FRINGE BENEFITS	14.50

Kentucky Determination No. CR-15-II-HWY dated July 20, 2015

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-15-II-HWY dated July 20, 2015. 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 contract or 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.

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 numbers 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 wage. 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.

Director
Division of Construction Procurement
Frankfort, Kentucky 40622
502-564-3500

PART IV

INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

1) Commercial General Liability-Occurrence form – not less than $2,000,000 General aggregate, $2,000,000 Products & Completed Aggregate, $1,000,000 Personal & Advertising, $1,000,000 each occurrence.

2) Automobile Liability- $1,000,000 per accident

3) Employers Liability:

   a) $100,000 Each Accident Bodily Injury
   b) $500,000 Policy limit Bodily Injury by Disease
   c) $100,000 Each Employee Bodily Injury by Disease

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) KENTUCKY 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.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

162012

PROPOSAL BID ITEMS

Report Date 1/26/16

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	06520		PAVE STRIPING-WB PAINT-4 IN W RS ROUTES	476.48	MILE		$	
0020	06520		PAVE STRIPING-WB PAINT-4 IN W MP ROUTES	874.97	MILE		$	
0030	06521		PAVE STRIPING-WB PAINT-4 IN Y RS ROUTES	389.11	MILE		$	
0040	06521		PAVE STRIPING-WB PAINT-4 IN Y MP ROUTES	1,438.20	MILE		$	

Section: 0002 - OVERALL CONTRACT ITEMS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0050	02572		QUALITY CONTROL	1.00	LS		$	
0060	20411ED		LAW ENFORCEMENT OFFICER	25.00	HOUR		$	
0070	21741NC		MAINTAIN & CONTROL TRAFFIC	1.00	EACH		$	
0080	22664EN		WATER BLASTING EXISTING STRIPE	1,000.00	LF		$	

Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	02569		DEMOBILIZATION	1.00	LS		$	