

CALL NO. <u>341</u> CONTRACT ID. <u>122206</u> <u>MERCER COUNTY</u> FED/STATE PROJECT NUMBER <u>FD05 084 0127 014-018</u> DESCRIPTION <u>LOUISVILLE ROAD (US 127)</u> WORK TYPE <u>ASPHALT RESURFACING</u> PRIMARY COMPLETION DATE <u>11/15/2012</u>

LETTING DATE: May 18, 2012

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME May 18, 2012. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

DEFERRED PAYMENT

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

TABLE OF CONTENTS

PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- STATE CONTRACT NOTES
- NATIONAL HIGHWAY
- SURFACING AREAS
- ASPHALT MIXTURE
- INCIDENTAL SURFACING
- FUEL AND ASPHALT PAY ADJUSTMENT
- COMPACTION OPTION A
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- WASTE AND BORROW SITES
- ASPHALT MIXTURE FOR PAVEMENT WEDGE
- ASPHALT MIX PAVEMENT WEDGE MONOLITHIC OPERATION
- EDGE KEY
- REMOVAL OF GUARDRAIL TO ACCOMMODATE MILLING & PAVING OPER
- ASPHALT MILLING AND TEXTURING
- MEDIAN CROSS-OVERS
- TYPICAL SECTION DIMENSIONS
- TRAFFIC CONTROL PLAN
- TRAFFIC CONTROL FOR RAISED PAVEMENT MARKER INSTALLATIONS
- SKETCH MAP(S)
- SUMMARY SHEET(S)
- TYPICAL SECTION(S)

PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATIONS
- [SN-11] PORTABLE CHANGEABLE SIGNS
- 2008 STANDARD DRAWINGS THAT APPLY

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978
- PROJECT WAGE RATES
- PART IV INSURANCE
- PART V BID ITEMS

PART I

SCOPE OF WORK

CONTRACT ID - 122206

ADMINISTRATIVE DISTRICT - 07

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - MERCERPCN - MP08401271201FD05 084 0127 014-018LOUISVILLE ROAD (US 127) FROM OREGON ROAD (MP 14.469) EXTENDING NORTH TO ANDERSON COUNTYLINE (MP 17.150), A DISTANCE OF 2.68 MILES. ASPHALT RESURFACING.GEOGRAPHIC COORDINATES LATITUDE 37^55'31" LONGITUDE 84^51'54"AVERAGE DAILY TRAFFIC - 13200AVERAGE MAINLINE WIDTH - 48.0 FEET

COMPLETION DATE(S): COMPLETION DATE - November 15, 2012 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

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.

<u>REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN</u> <u>ENTITY</u>

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 <u>KRS 14A.9-010</u> to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under <u>KRS 14A.9-030</u> 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 <u>KRS 14A.9-010</u>, the foreign entity should identify the applicable exception. Foreign entity is defined within <u>KRS 14A.1-070</u>.

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 <u>https://secure.kentucky.gov/sos/ftbr/welcome.aspx</u>.

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 <u>kytc.projectquestions@ky.gov</u>. 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

(<u>www.transportation.ky.gov/contract</u>). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

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)

10/18/2011

Steven L. Beshear

Governor



Commonwealth of Kentucky Finance and Administration Cabinet

OFFIC. Ro

OFFICE OF THE SECRETARY Room 383, Capitol Annex 702 Capital Avenue Frankfort, KY 40601-3462 (502) 564-4240 Fax (502) 564-6785 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 this project is on the NATIONAL HIGHWAY SYSTEM.

SURFACING AREAS

The Department estimates the mainline surfacing width to be 24 feet in each direction.

The Department estimates the total mainline area to be surfaced to be 81,540 square yards.

The Department estimates the inside (median) shoulder width to vary 2-4 feet in each direction.

The Department estimates the total inside (median) shoulder area to be surfaced monolithic with the mainline to be 10,190 square yards.

The Department estimates the outside (emergency) shoulder width to be 10 feet in each direction.

The Department estimates the total outside (emergency) shoulder area to be surfaced to be 31,460 square yards.

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

INCIDENTAL SURFACING

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-05 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

FUEL AND ASPHALT PAY ADJUSTMENT

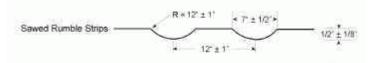
The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

OPTION A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

SPECIAL NOTE FOR SAWED SHOULDER RUMBLE STRIPS

Contrary to Section 403.03.08, construct sawed shoulder rumble strips to a width of 12 inches on mainline shoulders to the dimensions shown on the drawing.



Place as directed by the Engineer

Do not construct sawed rumble strips through public road intersections, ramps, marked crosswalks, bridge decks, or commercial entrances. Where existing site conditions allow, maintain the dimensions and spacing as directed by the Engineer; however, obtain the Engineer's prior approval of proposed dimensions and spacing for any required deviations.

SPECIAL NOTE FOR REMOVING TYPE V PAVEMENT MARKERS

Remove Type V Pavement Markers according to Section 403.03.02. Contrary to Section 403.04.01 the Department will measure only the actual quantity of Type V Pavement markeres removed.

SPECIAL NOTE FOR INLAID PAVEMENT MARKERS (EXPERIMENTAL) FD05 084-0127-014-018

I. DESCRIPTION.

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

(1) Maintain and Control Traffic; and (2) Furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) Any other work as specified by these notes and the Contract.

II. MATERIALS.

The Department will sample and all materials in accordance with the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Markers. Use Marker One Model R-100 or approved equal, mono-directional white. Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer's current recommendations for adhesives and installation procedures. Use one brand and design throughout the project.

C. Adhesives. Use adhesives that conform to the manufacturer's recommendations.

III. CONSTRUCTION.

A. Experimental Evaluation. The University of Kentucky Transportation Center will be evaluating this experimental installation of IPMs. Notify the Engineer a minimum of 14 calendar days prior to beginning work. The Engineer will coordinate the University's activities with the Contractor's work.

B. Maintain and Control Traffic. See Traffic Control Plan.

C. Installation. Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Remove all dirt,

Inlaid Pavement Markers FD05 084-0127-014-018 Page 2 of 4

grease, oil, loose or unsound layers, and any other material from the marker area which would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

Prepare the pavement surfaces, and install the markers in the recessed groove according to the manufacturer's recommendations. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.

D. Location and Spacing. Install the markers in the pattern for High Reflectivity Option with two (2) IPMs per groove. Locate and space markers as shown on the drawing. Do not install markers on bridge decks. Do not install a marker on top of a pavement joint or crack. Offset the recessed groove a minimum of 2 inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight with minimal lateral deviation. Give preference to maintaining the 2-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.

Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edgeline or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

E. Disposal of Waste. Dispose of all removed asphalt pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See Special Note for waste and Borrow.

F. Restoration. Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.

G. On-Site Inspection. Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as

Inlaid Pavement Markers FD05 084-0127-014-018 Page 3 of 4

evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.

H. Caution. Do not take information shown on the drawings and in this proposal and the types and quantities of work listed as an accurate or complete evaluation of the material and conditions to be encountered during construction, but consider the types and quantities of work listed as approximate only. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation or extension of Contract time if the conditions encountered are not in accordance with the information shown.

IV. MEASUREMENT.

A. Maintain and Control Traffic. See Traffic Control Plan.

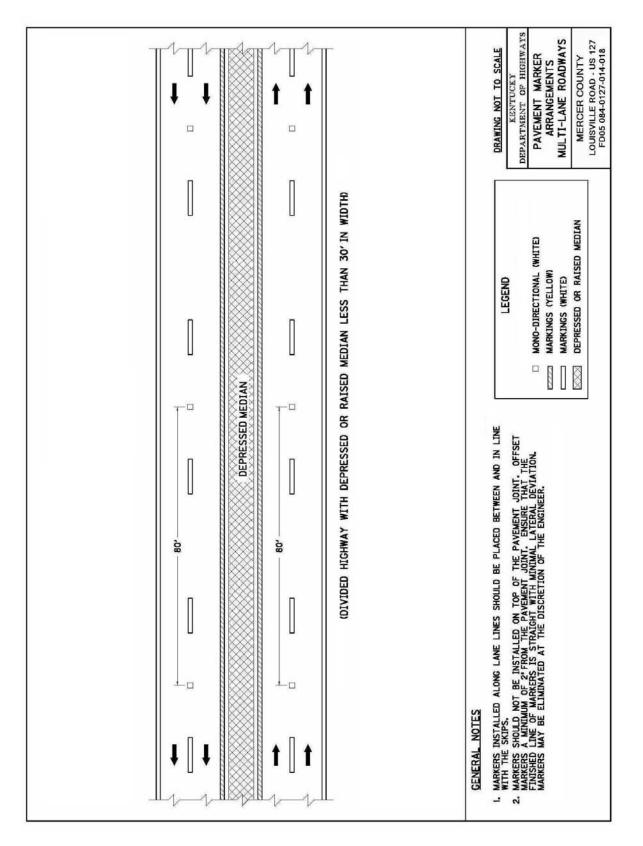
B. Inlaid Pavement Markers. The Department will measure only the bid items listed. The Department will measure the quantity of IPMs of each type by individual marker, Each. The Department will not measure grooving pavement, removal of asphalt cuttings and debris, preheating pavement to remove moisture, adhesives, or lenses, but shall be incidental to the Inlaid Pavement Markers.

V. PAYMENT.

A. Maintain and Control Traffic. See Traffic Control Plan.

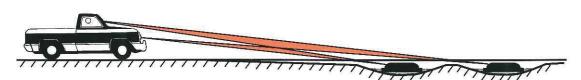
B. Inlaid Pavement Markers. The Department will make payment for the completed and accepted quantity of IPMs Markers at the Contract unit price, Each. Accept payment as full compensation for all labor, equipment, materials, and incidentals to accomplish this work to the satisfaction of the Engineer.

Inlaid Pavement Markers FD05 084-0127-014-018 Page 4 of 4





THE SAFER APPROACH...

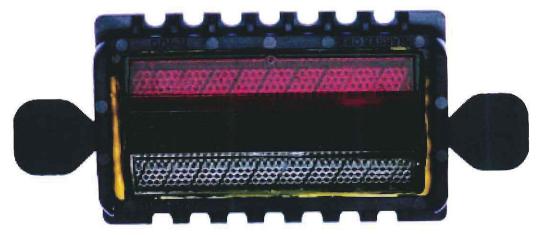


TO PLOWABLE MARKERS

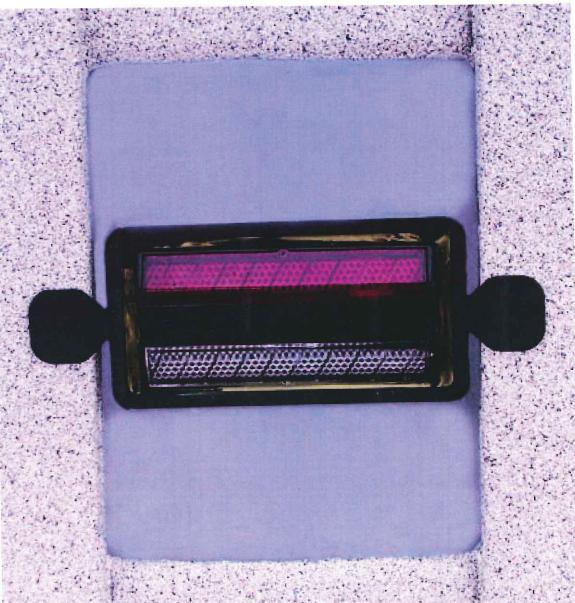
Marker One introduces a significant advance in snowplowable marker safety, reflectivity, and durability. This new R-100 marker system uses traditional State-approved reflectors bonded into tough plastic housings and installed in very shallow recessed grooves.

> 1030 Seaview Court Schaumburg, IL 60193 ph/fx 847-301-7560 harry@markerone.net www.markerone.net

> > © April 2010

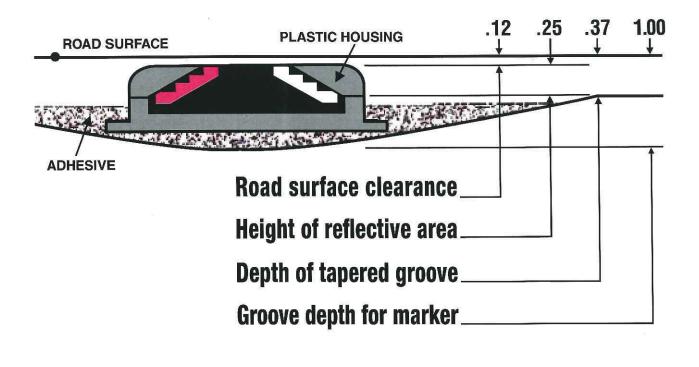


R-100 Marker



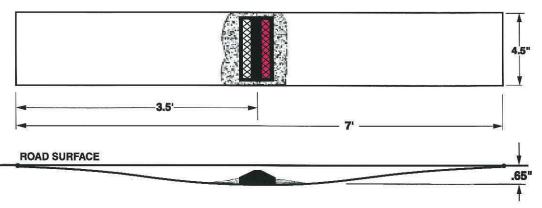
R-100 Adhesive Installation

...AND HERE'S HOW

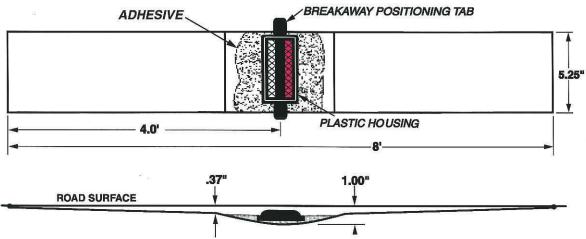


The above R-100 installation parameters enhance the intensity and consistency of marker reflectivity. Although these groove depth dimensions are important in defining reflective results, the groove length most notably affects the intensity of reflected light as vehicles approach markers.

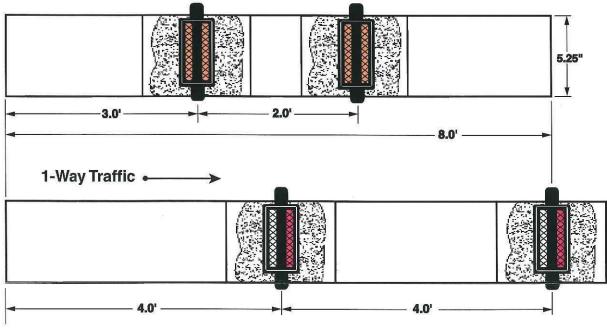
TRADITIONAL Recessed Marker



MARKER ONE Recessed Marker



MARKER ONE High Reflectivity Options



REFLECTIVITY OF R-100 MARKERS

REFLECTIVE INTENSITY IS MEASURED BY THE HEIGHT (IN.) OF REFLECTIVE AREA OBSERVED BY A MOTORIST APPROACHING THE REFLECTORS ON CLEAR DRY PAVEMENT ⁽¹⁾

DISTANCE FROM	DISTANCE FROM BEGINNING OF GROOVE TO REFLECTOR (FT.)			
HEADLIGHTS TO REFLECTOR (FT.)	raised Marker ⁽²⁾	4.0	3.0/5.0 ⁽³⁾	1-Way Traffic 4.0/8.0 ⁽³⁾
	1 Reflector	1 Reflector	2 Reflectors	2 Reflectors
600	.20	.05	.10	.20
500	.20	.10	.15	.30
400	.20	.15	.25	.40
300	.20	.20	.35	.45
200	.20	.25	.50	.50

(1) Max. Ht. of Reflective Area (1 Reflector)= .25 in.

(2) Benchmark Height (Low Profile Design)

(3) High Reflectivity Options (2 Reflectors in Groove)

MATERIAL:	Polycarbonate Plastic	
WEIGHT:	Housing 2.00 oz. Reflector 2.00 oz.	
HOUSING SIZE:	5.00" x 3.00" x .70" high	
SPECIFIC INTENSITY cd/fc OF REFLECTIVITY AT 0.2° OBSERVATION ANGLE		
WHITE:	3.0 at 0° entrance angle 1.2 at 20° entrance angle	
YELLOW:	60% of white values	
RED:	25% of white values	

R-100 MARKER ADVANTAGES

- Recessed lightweight all-plastic markers are inherently safe and reduce liability.
- Recommended tandem (2) reflectors improve performance, especially in one-way applications and in fog.
- Groove depth 50% less than conventional grooves is typically used. Shallow grooves clean out quickly, don't hinder the steering of cars or motorcycles, and are less influenced by traffic wear.
- "Recessed snowplowable markers last on average 12 months longer than raised snowplowable markers..." NCHRP-Report 518, ¶2.1.2.1

R-100 HOUSING ADVANTAGES

- Reflector clearance below the road surface is held constant by using positioning tabs on housing or reflector
- Provides a durable rust-free surface to install, retain, and replace reflectors
- Stops asphalt from creeping over reflector sides in hot weather
- Accepts any brand of 2" x 4" replacement reflectors

NTPEP Testing

• R-100 markers performed well on the 2005 test deck on US 70 near Columbus, Ohio. Test results are available.

R-100 DISCUSSION AND RECOMMENDATIONS

Marker One recommends replacement of raised markers and traditional recessed markers with R-100 markers. Installation guidelines follow:

- 1) Groove depth dimensions are on page 3.
- 2) Groove width should be 5.25 inches.
- 3) Groove length is the most important factor influencing reflectivity. Long grooves enable headlight rays to reach recessed markers at greater vehicle distance from markers, and they enhance water drainage. Where vehicle speed exceeds 50 MPH we recommend tandem reflectors as shown on page 4. Dual reflectors feature exceptional performance without a substantial price increase.
- 4) Most one-way applications require markers be installed in two-way grooves for effective wet-night reflectivity. Only on uphill lanes of divided highways can markers be installed in one-way grooves. (See Appendix for illustrations.)

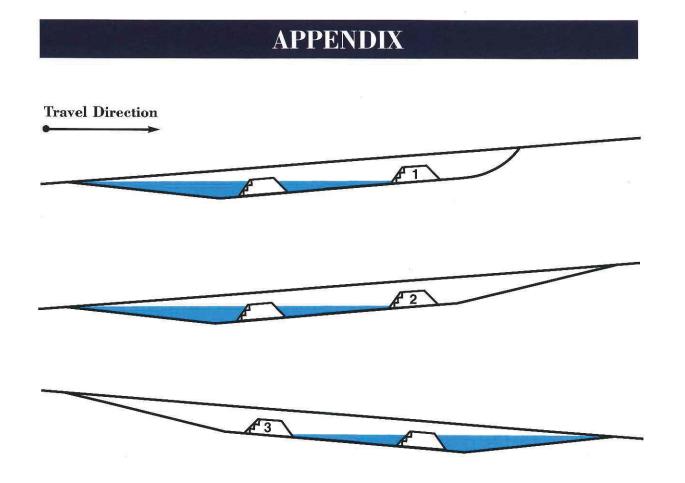
COMPARISON OF SNOWPLOWABLE PAVEMENT MARKINGS

Marking System	Wet-Night Reflectivity ⁽¹⁾	Road Hazard ⁽²⁾	
Raised Pavement Markers	10	Yes	
<i>Marker One</i> Recessed Markers	8	No	
Traditional Recessed Markers	6	No	
Permanent Reflective Tapes	4	No	
Reflective Paints / Thermoplastics	2	No	

- ⁽¹⁾ 3 Year Pavement History Rated 1 (Low) thru 10 (High), 10 being the benchmark rating for raised pavement markers
- ⁽²⁾ When dislodged from their installation location by snowplows and traffic

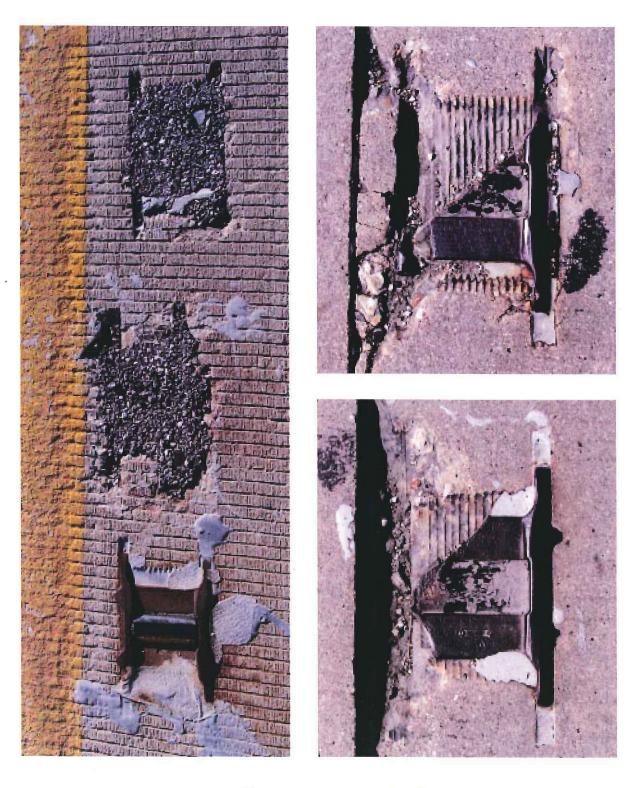
CONCLUSION

Four years of road testing in Illinois, Missouri, and Ohio show the R-100 Markers are wet-night reflective, non-hazardous, and durable. With all test results and comparisons analyzed it is clear the R-100 Marker System is the best choice for snowplowable markers.



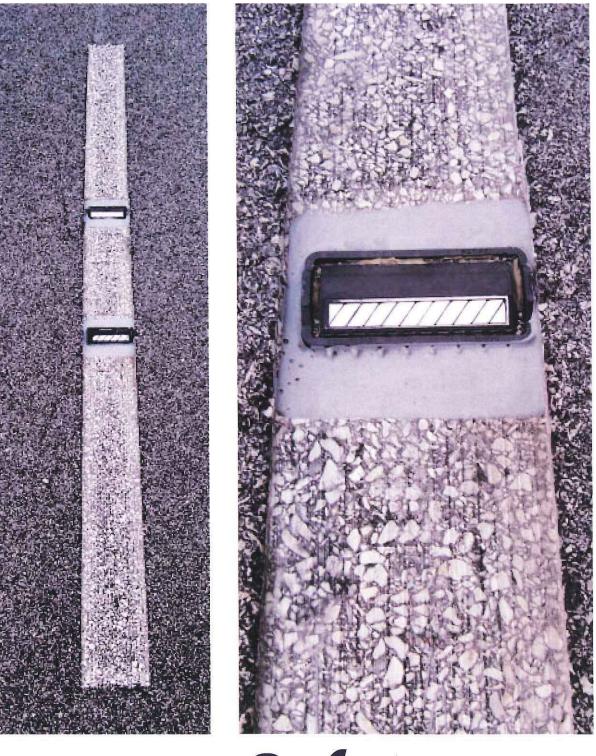
Since water in grooves hinders wet-night reflectivity it is important to install markers as shown above and on page 4. Markers 1, 2, and 3 are reflective in wet weather because water drains from the downhill end of their grooves. Wet-night experience on roads with angle of inclination greater than .35 degrees indicates grooves drain sufficiently to yield excellent reflectivity.

RAISED PAVEMENT MARKERS



replace with

RECESSED R-100 MARKERS



for **Safety**

SPECIAL NOTE FOR ASPHALT MIXTURES USING RECLAIMED MATERIALS

** The Contractor may elect to use this Special Note in lieu of Section 409 of the 2008 Standard Specifications for Road and Bridge Construction. The Contractor must notify the Department in writing of which specification they plan to use prior to beginning work.

2012-409.01 DESCRIPTION. Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied. For other sources to be approved, satisfactorily establish to the Engineer that the quality of the material is acceptable.

Use either pre-consumer (manufacturer waste or new) or post-consumer reclaimed asphalt shingles (RAS) that are processed such that all the material passes the 3/8-in. sieve. Ensure pre-consumer RAS is free of deleterious materials. Ensure post-consumer RAS does not contain more than 1.5 percent wood by mass or more than 3.0 percent deleterious materials by mass.

2012-409.02 MATERIALS AND EQUIPMENT. Conform to the guidelines in Subsection 2012-409.03.03 for the required grade of asphalt binder which is based on the percentage of effective binder content of the mixture.

2012-409.03 CONSTRUCTION. Keep reclaimed material of different gradation, asphalt binder content, asphalt binder properties, and aggregate properties separate at all times, including when stockpiling and feeding. The Department may approve other methods and procedures provided that all characteristics of the reclaimed material remain uniform.

2012-409.03.01 Polish-Resistant Aggregate. When electing to utilize polish-resistant aggregate in reclaimed material to satisfy a portion of the polish-resistant aggregate requirements for the mix, provide documentation to the Engineer's satisfaction that the reclaimed material consists of the specified amount of polish-resistant aggregate. Provide samples of the reclaimed material to the Engineer for verification testing.

2012-409.03.02 Asphalt Binder Content Adjustment for RAS. Recognizing that not all asphalt binder in RAS is activated during the mixing operation to fully blend with the virgin materials, the Department will reduce the asphalt binder content determined by Kentucky Method 64-405 for RAS by 25 percent.

2012-409.03.03 Preparation of Mixture.

A) Mix Requirements. Conform to the Contract requirements for each mixture produced using reclaimed material consisting of RAP, RAS, or a combination of RAP and RAS. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the reclaimed material. Calculate the percentage of effective binder content as follows:

Percentage of effective binder content = [(A*B) + (0.75*C*D)]/E, where

- A = Asphalt binder content of the RAP (%);
- B = Percentage of RAP in the mix (%);
- C = Asphalt binder content of the RAS (%);
- D = Percentage of RAS in the mix (%); and
- E = Effective binder content of the mix (%).

	WITH NOMINAL-MAXIMU OF 0.5 in., 0.38 in., and No. 4	M AGGREGATE SIZE
ASPHALT BINDER	ALT BINDER	
SPECIFIED IN	RAP	
MIXTURE	≤ 20 % Effective Binder	21-30 % Effective
BID ITEM	Content	Binder Content
PG 64-22	PG 64-22	PG 58-28
PG 76-22	PG 76-22	
	RA	S
	≤ 13 % Effective Binder	14-20 % Effective
	Content	Binder Content
PG 64-22	PG 64-22	PG 58-28
PG 76-22		
	RAP and RAS	
	< 15 % Effective Binder	16-25 % Effective
	Content	Binder Content
PG 64-22	PG 64-22	PG 58-28
PG 76-22		

ASPHALT MIXTURES	WITH NOMINAL-MAXIMU	M AGGREGATE SIZE	
O	F 1.50 in., 1.00 in., and 0.75 in.		
ASPHALT BINDER	VIRGIN ASPHALT BINDER		
SPECIFIED IN	RAP		
MIXTURE	≤ 25 % Effective Binder	26-35 % Effective	
BID ITEM	Content	Binder Content	
PG 64-22	PG 64-22	PG 58-28	
PG 76-22	PG 76-22		
	RAS		
	< 16 % Effective Binder	17-24 % Effective	
	Content	Binder Content	
PG 64-22	PG 64-22	PG 58-28	
PG 76-22			
	RAP and RAS		
	<u> < 18 % Effective Binder </u>	19-30 % Effective	
	Content	Binder Content	
PG 64-22	PG 64-22	PG 58-28	
PG 76-22			

B) Mixing. Obtain the Engineer's approval for the method of incorporating the reclaimed material into the mixture. Thoroughly mix the new and reclaimed materials into a uniform mass. Ensure that the final mixture conforms to all requirements of the Contract. Ensure that the moisture content of the final mixture is not detrimental to the handling, hauling, placing, or compacting of the mixture.

2012-409.04 MEASUREMENT. The Department will not measure reclaimed material separately but will include it in the measured quantities of asphalt mixture produced.

2012-409.05 PAYMENT. The Department will make payment for the completed and accepted quantities under the appropriate pay item for the asphalt mixture being produced.

The Department will not make separate payment for incorporating reclaimed material. The Department will not increase or decrease the Contract unit prices for any asphalt mixture on the project as a result of using, or not using, reclaimed material in the asphalt mixtures.

SPECIAL PROVISION FOR WASTE AND BORROW SITES

Obtain U.S. Army Corps of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". The Corps of Engineers defines "Waters of the United States" as perennial or intermittent streams, ponds or wetlands. The Corps of Engineers also considers ephemeral streams, typically dry except during rainfall but having a defined drainage channel, to be jurisdictional waters. Direct questions concerning any potential impacts to "Waters of the United States" to the attention of the appropriate District Office for the Corps of Engineers for a determination prior to disturbance. Be responsible for any fees associated with obtaining approval for waste and borrow sites from the U.S. Army Corps of Engineer or other appropriate regulatory agencies.

1-296 Waste & Borrow Sites 01/02/2012

SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER SEPARATE OPERATION FD05 084-0127-014-018

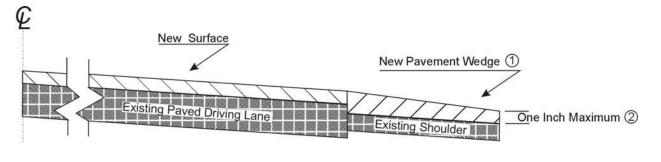
1.0 MATERIALS. Provide Class 2 Asphalt Surface 0.38D PG64-22 according to Section 403 of the Standard Specifications, for the outside (emergency) shoulder pavement wedge.

2.0 CONSTRUCTION. Place the Asphalt Surface Mixture as a separate operation from the driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 403.03.

When the Engineer deems it appropriate to pave both the driving lane and the adjoining wedge monolithically, equip the paver with a modified screed that extends the full width of the wedge being placed and is tapered to produce a wedge. Obtain the Engineer's approval of the modified screed before placing shoulder wedge monolithically with the driving lane.

The wedge may vary in thickness at the edge of the driving lanes. Where existing site conditions permit, limit the outside edge thickness of the new paving limits to one inch above the existing shoulder wedge elevation. Construct 12 inch sawed rumble strips as shown on the drawing.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.



 Slope varies, but is down from the driving lanes except on outside of some curves where superelevation controls.

② Where existing site conditions permit.

3.0 MEASUREMENT. The Department will measure Asphalt Surface Mixture placed as the pavement wedge according to Section 403.

4.0 PAYMENT. The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures placed as pavement wedge according to Section 403.

SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER MONOLITHIC OPERATION FD05 084-0127-014-018

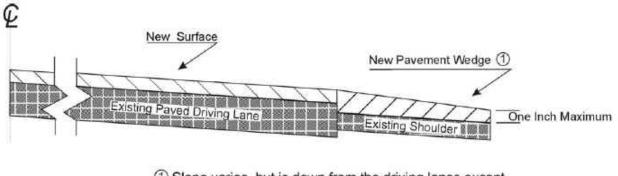
1.0 MATERIALS. Provide Class 3 Asphalt Surface 0.38A PG64-22 conforming to Section 403 of the Standard Specifications, for inside (median) shoulder pavement wedge.

2.0 CONSTRUCTION. Place the Asphalt Surface Mixture on the inside (median) shoulders monolithically with the adjacent driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 403.03 of the Standard Specifications.

Equip the paver with a modified screed that extends the full width of the wedge being placed and is tapered to produce a wedge. Obtain the Engineer's approval of the modified screed before placing shoulder wedge monolithically with the driving lane.

The wedge may vary in thickness at the edge of the the shoulder wedge. During rolling operations pinch the outside edge of the new wedge to be not more than 1 inch above the existing shoulder elevation as site conditions allow. Construct 12 inch sawed rumble strips as shown on the drawing.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.



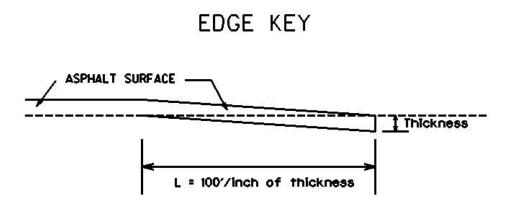
 Slope varies, but is down from the driving lanes except on outside of some curves where superelevation controls.

3.0 MEASUREMENT. The Department will measure Asphalt Surface Mixture placed as the pavement wedge according to Section 403.

4.0 PAYMENT. The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures on pavement wedges according to Section 403.

SPECIAL NOTE FOR EDGE KEY

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Cut out the existing asphalt surface to the required depth and width shown on the drawing. Perform additional milling in the median cross-over at the north end of project at the Anderson County Line as directed by the Engineer. Heel new surface into the existing surface. The Department will pay for this work at the contract unit price per ton for <u>"Asphalt Pavement Milling and Texturing"</u>, which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.



Thickness = 1.25 Inches

 $L = \underline{125} LF$

L= Length of Edge Key

SPECIAL NOTES FOR REMOVAL OF GUARDRAIL TO ACCOMMODATE MILLING AND PAVING OPERATIONS

If necessary to accommodate milling and paving operations and with prior approval of the Engineer, the Contractor may remove the existing guardrail system rail elements and offset blocks. Do not disturb guardrail posts, bridge end connectors, end treatments, and/or terminal sections. Perform all guardrail removal operations under the same full lane closure required for the milling or paving operations. Remove the Guardrail immediately prior to the milling or paving operation and reset the guardrail immediately after the operation has passed. If the milling and the paving operations at the site of the guardrail removal are scheduled to be accomplished on the same day, the Contractor may leave guardrail removed during the interval between the operations only when the operations are being performed under a single lane closure. Do not leave guardrail down overnight or at other times when operations are not actually in progress.

When resetting guardrail, do not leave blunt ends exposed where they would be hazardous to the public. If left in place between the milling and paving operations, protect exposed ends protected with a temporary end treatment installed by connecting at least 25 feet of rail to the exposed end, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. Place a drum with bridge panel in advance of the guardrail end and maintain during the interval between the paving and milling operations.

Reset the guardrail to the lines and grades existing immediately prior to removal as shown on current standard drawings or as designated by the Engineer. The Engineer will check the existing guardrail to be removed and reset before removal begins. If components are found missing or damaged to the extent that they cannot be reused, the Department will furnish the necessary parts and materials to the Contractor for installation when the guardrail is reset. The Department will make these parts available to the Contractor at the Department's Mercer County Maintenance facility. Be responsible for all damage to the existing guardrail system resulting from his work. Replace any parts that are damaged or lost during the guardrail removal and replacement process. Correct any vertical or horizontal misalignment not present prior to removal by any method approved by the Engineer, which allows the construction of the guardrail to the true grade and prevents apparent sags.

The Department will not measure removing and resetting the existing guardrail, replacing guardrail components that were damaged or missing prior to project with components furnished by the Department, furnishing and installing parts lost or damaged by the Contractor, and providing and maintaining a temporary end treatment with drum and panel, but shall be incidental to other items of work, as applicable.

1-3430 Remove Guardrail Milling & Paving 01/02/2012

SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within <u>48 hours</u> of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Contrary to Section 408, the Department will retain possession of the material obtained from the milling operations. Deliver this material to the State Maintenance facility in Mercer County.

NOTICE TO CONTRACTOR: The Department considers transfer of millings to the state maintenance facility to be a part of the construction project, therefore truck operators are subject to receiving prevailing wages.

1-3530 48 hours State keeps millings 01/2/2012

SPECIAL NOTE FOR MEDIAN CROSS-OVERS

Resurface median cross-overs with the same asphalt material as specified for the outside shoulders. Except as specified herein, resurface the median crossovers according to Sections 402 and 403.

1-3710 Median Crossovers 01/02/2012

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions 01/02/2012

TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work.

If requested by the Contractor, the Engineer may approve reducing the speed limit to 45 MPH and establishing zones for double fines for speeding. Notify the Engineer a minimum of 12 hours prior to using the double fine signs. Dual mount "WARNING FINE DOUBLED IN WORK ZONE" signs and "END DOUBLE FINE" signs. Remove or cover the double fine signs when workers are not present in the double fine zone for more than a two hour period of time.

PROJECT PHASING & CONSTRUCTION PROCEDURES

Do not erect lane closures during the following days and hours:

May 26 – May 28, 2012	Memorial Day Weekend
July 4, 2012	Independence Day
August 1 – 5, 2012	US 127 Yard Sale
September 1 – September 3, 2012	Labor Day Weekend

The Engineer may specify additional days and hours when lane closures will not be allowed.

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. Provide a minimum clear lane width of <u>11</u> feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

Traffic Control Plan Page 2 of 10

LANE CLOSURES

Do not leave lane closures in place during non-working hours.

SIGNS

The Engineer may require additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings. Additional signs needed may include, but are not limited to, dual mounted LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILE, LEFT/RIGHT LANE CLOSED 3 MILE, SLOWED/STOPPED TRAFFIC AHEAD, KEEP RIGHT, KEEP LEFT, etc.

Contrary to section 112.04.02, the Department will only measure long term signs (signs intended to be continuously in place for more than 3 days) for payment; the Department will not measure short term signs (signs intended to be left in place for 3 days or less) for payment but shall be incidental to Maintain and Control Traffic.

The Department will measure individual signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged signs or signs directed by the Engineer to be replaced due to poor condition or reflectivity. The Department will not measure furnishing, erecting, covering and uncovering, and maintaining reduced speed limit signing and double fine work zone signs requested by the Contractor for separate payment, but shall be incidental to Maintain and Control Traffic.

CHANGEABLE MESSAGE SIGNS

Provide changeable message signs in advance of and within the project at locations determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens, relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Changeable Message

Traffic Control Plan Page 3 of 10

Signs or for signs the Engineer directs be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

ARROW PANELS

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

BARRICADES

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation, but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

The Department will measure barricades used to protect pavement removal areas in individual units Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of the work.

THERMOPLASTIC INTERSECTION MARKINGS

Consider the locations listed on the summary as approximate only. Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After resurfacing, replace the markings at their approximate existing locations or as directed by Engineer. Place markings not existing prior to resurfacing as directed by the Engineer.

Traffic Control Plan Page 4 of 10

PAVEMENT STRIPING

If there is to be a deviation from the permanent existing striping pattern, the Engineer will furnish the Contractor a revised striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exceptions:

- 1. Include edge lines in Temporary Striping; and
- 2. Place Temporary or Permanent Striping before opening a lane to traffic; and
- 3. If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

PAVEMENT EDGE DROP-OFFS

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4' - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly in front of the drop-off facing on coming traffic in both directions of travel. Provide warning signs as shown on the Standard Drawings or as directed by the Engineer

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the engineer.

Traffic Control Plan Page 5 of 10

USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

Application

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

CMS should not be used for:

- Replacement of static signs (e.g. road work ahead), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- Public service announcements (not traffic related

Traffic Control Plan Page 6 of 10

<u>Messages</u>

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- Visible for at least ¹/₂ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- Nor more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

Placement 199

Placement of the CMS is important to insure that the signs is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent thief (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use
- •

Traffic Control Plan Page 7 of 10

Standard Abbreviations

The following is a list of standard abbreviations to be used on CMS.

<u>Word</u>	Abbrev.	<u>Example</u>
Access	ACCS	ACCIDENT AHEAD/USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/EXPECT
		DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/DETOUR
		EXIT 20
Emergency	EMER	EMER VEH AHEAD/PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/DETOUR
Interstate	1	EXIT 20
Lane	LN	LN CLOSED/MERGE LEFT
Lanc	LFT	LANE CLOSED/MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/SLOW
Major	MAJ	MAJ DELWAYS I75/USE ALT RTE
	2. 2. AV	

Traffic Control Plan Page 8 of 10

Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR
		EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/USE I275
		NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/DETOUR
		EXIT 60
Prepare	PREP	ACCIDENT 3 MIL/PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/POSSIBLE
		DELAYS
Route	RTE	MAJ DELAYS I75/USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/DETOUR
		EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD
Street	ST	MAIN ST CLOSED/USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/DETOUR
		EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/USE I275
		NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/DETOUR
		EXIT 50
Work	WRK	CONST WRK 2MI/POSSIBLE
		DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NO USE THESE ABBREVIATIONS.

Abbrev.	Intended Word	Word Erroneously Given
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (merge)
LOC	Local	Location
LT	Light (traffic)	Left
PARK	Parking	Park
POLL	Pollution (index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard

Traffic Control Plan Page 9 of 10

> TEMP WRNG

Temporary Warning Temperature Wrong

TYPICAL MESSAGES

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

<u>Reason/Problem</u> ACCIDENT	Action ALL TRAFFIC EXIT RT
ACCIDENT/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT
FOG XX MILES	PASS TO RIGHT
FREEWAY CLOSED	PREPARE TO STOP
FRESH OIL	REDUCE SPEED
HAZMAT SPILL	SLOW
ICE	SLOW DOWN
INCIDENT AHEAD	STAY IN LANE
LANES (NARROW, SHIFT, MERGE, ETC.)	STOP AHEAD
LEFT LANE CLOSED	STOP XX MILES
LEFT LANE NARROWS	TUNE RADIO 1610 AM
LEFT 2 LANES CLOSED	USE NN ROAD
LEFT SHOULDER CLOSED	USE CENTER LANE
LOOSE GRAVEL	USE DETOUR ROUTE
MEDIAN WORK XX MILES	USE LEFT TURN LANE
MOVING WORK ZONE, WORKERS IN ROADWAY	USE NEXT EXIT
NEXT EXIT CLOSED	USE RIGHT LANE
NO OVERSIZED LOADS	WATCH FOR FLAGGER
NO PASSING	
NO SHOULDER	
ONE LANE BRIDGE	

Traffic Control Plan Page 10 of 10

> PEOPLE CROSSING RAMP CLOSED RAMP (SLIPPERY, ICE, ETC.) **RIGHT LANE CLOSED RIGHT LANE NARROWS RIGHT SHOULDER CLOSED** ROAD CLOSED ROAD CLOSED XX MILES ROAD (SLIPPERY, ICE, ETC.) ROAD WORK ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE) ROAD WORK XX MILES SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.) NEW SIGNAL XX MILES SLOW 1 (OR 2) - WAY TRAFFIC SOFT SHOULDER STALLED VEHICLES AHEAD TRAFFIC BACKUP TRAFFIC SLOWS TRUCK CROSSING TRUCKS ENTERING TOW TRUCK AHEAD **UNEVEN LANES** WATER ON ROAD WET PAINT WORK ZONE XX MILES WORKERS AHEAD

TRAFFIC CONTROL FOR RAISED PAVEMENT MARKER INSTALLATIONS

Except as provided herein, maintain and control traffic in accordance with the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic". Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work. Do not install Type V Raised Pavement Markers on bridge Decks. If raised pavement markers are specified for bridge decks, use flushmounted Type IV-A markers. Install all necessary traffic control devices before beginning work. Provide egress and ingress to all ramps, side roads, and entrances at all times. After the pavement markers have been placed on the roadway, leave traffic control devices in place to protect the markers from damage by traffic until the Engineer determines the adhesive epoxy has sufficiently hardened. When work is suspended or completed and the Engineer determines the pavement markers are completely bonded to the pavement, immediately remove the traffic control devices.

TWO-LANE, TWO-WAY ROADWAYS:

The Department will consider installation of raised pavement markers on two-lane, two-way roadway sections to be short-duration operations. Accomplish the work in only one lane and affect the adjacent lane as little as possible. Sign approaches to the immediate work area in accordance with Standard Drawings TTC-100-01 and TTC-105-01. Install the signs on approved temporary mountings.

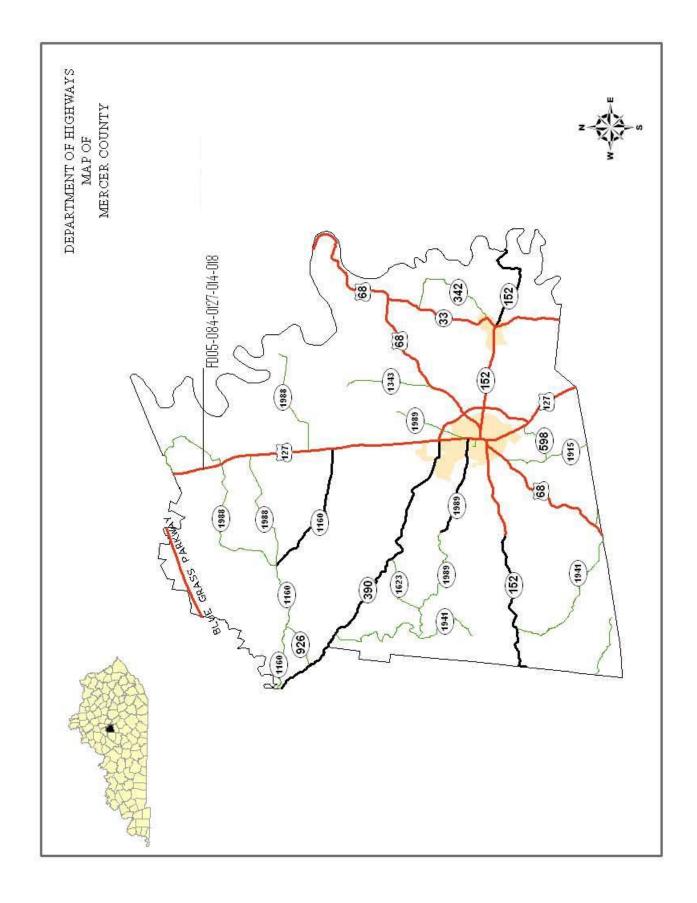
As a minimum, equip all work vehicles used in the roadway with strobe lights or rotating beacons. If a flashing arrow board is mounted directly on a work vehicle, operate the board in caution mode only; do not use a flashing arrow indication. The Department will not require the use of a Truck Mounted Attenuator (TMA) on two-lane, two-way roadway sections.

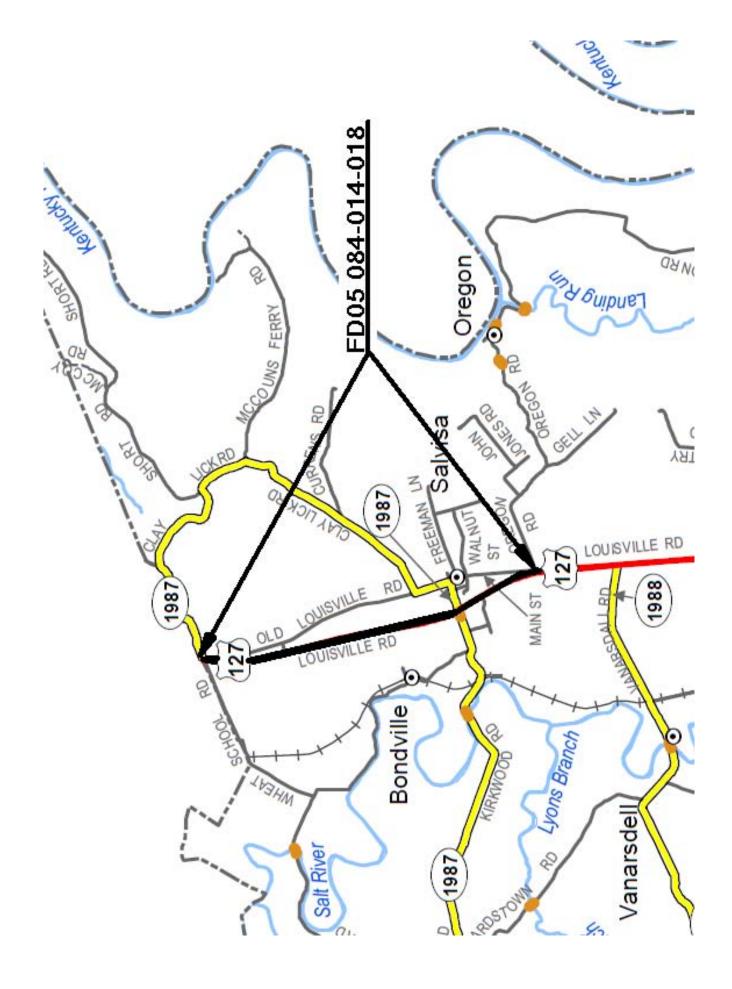
MULTI-LANE ROADWAYS:

Place raised pavement markers behind stationary lane closures. Obtain the Engineer's approval for stationary lane closures prior to use. Sign approved stationary lane closures according to Standard Drawings TTC-115-01 and TTC-125-01. If the Contractor desires an interior lane closure, prepare a plan and obtain the Engineer's approval prior to use. Install all necessary traffic control devices before beginning work.

Protect the work zone with a TMA conforming to Sections 725.02.05 and 725.03.03. Place the TMA within the lane closure at locations approved by the Engineer. Contrary to Section 725.03.03, retain possession of the TMA upon completion of the work. Contrary to Section 725.04.04, The Department will not measure the TMA for payment but shall be incidental to the inlaid pavement markers.

Restrict the work area to not more than one lane of traffic plus 24 inches maximum of only one adjacent lane in each direction of travel. Provide a minimum lane width of 10 feet; however, provide for passage of vehicles of up to 16 feet in width. Limit the length of a lane closure to not exceed 1 mile in urban areas or 3 miles in rural areas as designated by the Engineer. Do not erect more than one lane closure in each direction of travel unless there is at least 2 miles separation between lane closures and both lane closures are in the same lane.





MILLING SUMMARY

Milepoint	Description	Length	Width	Avg Depth
14.469	Beginning Edge Key	125	76	0.625
17.15	Ending Edge Key	125	100	0.625
TOTAL				

XX NOTES	–						
CATRAXX	6 INCH LF						0
"ONLY"	EA						0
S	COMB EA						0
ARROWS	STR EA						0
4	CURVE STR EA EA	4	2	-	4		11
STOP BARS	24 INCH LF						0
X-WALKS	12 INCH LF						0
	INTERSECTION	OREGON ROAD	KY 1987	OLD LOUISVILLE ROAD	ANDERSON CO. LINE		TOTAL
	MILEPOINT	14.469	15.131	16.903	17.150		

2 Ft 10 Ft CL2 Asphalt Surf 0.38D PG64-22 Average Depth = 1.25 inches Max. Width = 10 ft. **Outside Shoulder Wedge** 12 Ft Level and wedge as directed by the Engineer 1.25" CL3 Asph Surf 0.38B PG64-22 TYPICAL HALF SECTION NORTH & SOUTH BOUND Existing Roadway, Do not disturb 24 Ft. ப CL3 Asphalt Surf 0.38B PG64-22 Average Depth = 1.25inches Max. Width = 4 Ft. 12 Ft -Monolithic with Mainline Inside Shoulder Wedge ← 2-4 Ft 🔸 1 in.* Half Section

1 in.*

*1 Inch Maximum Drop-Off Where Existing Site Conditions Permit

Construct 12 inch sawed rumble strips on insdide and outside shoulders.

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

SUBSECTION: REVISION:	101.02 Abbreviations. Insert the following abbreviation and text into the section:
	KEPSC Kentucky Erosion Prevention and Sediment Control
SUBSECTION: REVISION:	101.03 Definitions. Replace the definition for Specifications – <i>Special Provisions</i> with the following:
	Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project.
SUBSECTION: REVISION:	102.03 Contents of the Bid Proposal Form. Replace the first sentence of the first paragraph with the following: The Bid Proposal form will be available on the Department internet website (http://transportation.ky.gov/contract/).
	Delete the second paragraph.
	Delete the last paragraph.
SUBSECTION: REVISION:	102.04 Issuance of Bid Proposal Form. Replace Heading with the following:
	102.04 Bidder Registration.
	Replace the first sentence of the first paragraph with the following:
	The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder's list for a project for any of the following reasons:
	Replace the last sentence of the subsection with the following:
	The Department will resume placing the bidder on the eligible bidder's list for projects after the bidder improves his operations to the satisfaction of the State Highway Engineer.
SUBSECTION: REVISION:	102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work. Replace the first paragraph with the following:
	Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and bulletins and addendums posted to the Department's website and the Bid Express Bidding Service Website before submitting the Bid Proposal. The Department considers the submission of a Bid Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract.
SUBSECTION: REVISION:	102.07.01 General. Replace the first sentence with the following:
	Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website (www.bidx.com).
	Replace the first sentence of the third paragraph with the following:
	Bid proposals submitted shall use an eligible Digital ID issued by Bid Express.
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SUBSECTION: REVISION:	102.07.02 Computer Bidding. Replace the first paragraph with the following:
	Subsequent to registering for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (<u>http://transportation.ky.gov/contract/</u>). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service.
	Delete the second and third paragraph.
SUBSECTION: REVISION:	102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program.
	Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons:
	 when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or any failure to comply with the provisions of Subsection 102.07; or Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder's Current Capacity Rating.
SUBSECTION: REVISION:	102.09 Bid Proposal Guaranty. Insert the following after the first sentence:
	Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier's check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting.
SUBSECTION: REVISION:	102.10 Delivery of Bid Proposals. Replace paragraph with the following:
	Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service.
SUBSECTION: REVISION:	102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following:
	Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting.

GUDGEGEION	
SUBSECTION:	102.13 Public Opening of Bid Proposals.
REVISION:	Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.
	102.15 Public Announcement of Blu Proposais.
	Replace the paragraph with the following:
	The Department will publicly announce all Bid Proposals at the time indicated in the Notice to
	Contractors.
	Contractors.
SUBSECTION:	103.02 Award of Contract.
REVISION:	Replace the first sentence of the third paragraph with the following:
	The Department will normally award the Contract within 10 working days after the date of
	receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all
	bidders for a period not to exceed 60 calendar days for final disposition of award.
GUDGEGEION	
SUBSECTION:	105.02 Plans and Working Drawings.
REVISION:	Insert the following after the fourth paragraph:
	Submit electrical shop drawings, design data, and descriptive literature for materials in electronic
	format to the Division of Traffic Operations for approval. Drawings and literature shall be
	submitted for lighting and signal components. Notify the Engineer when submitting information to
	the Division of Traffic Operations. Do not begin work until shop drawings are approved.
	Submit shop drawings for traffic counting equipment and materials in electronic format to the
	Engineer or the Division of Planning. Notify the Engineer when submitting information directly to
	the Division of Planning. Do not begin work until shop drawings are reviewed and approved.
SUBSECTION:	105.03 Record Plans.
REVISION:	Replace the section with the following:
	Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was
	based and, and signed by a duly authorized representative of the Department. The Department will
	make these plans available for inspection in the Central Office at least 24 hours prior to the time of
	opening bids and up to the time of letting of a project or projects. The quantities appearing on the
	Record Plans are the same as those on which Bid Proposals are received. The Department will use
	these Record Plans as the controlling plans in the prosecution of the Contract. The Department will
	not make any changes on Record Plans subsequent to their issue unless done so by an approved
	contract modification. The Department will make 2 sets of Record Plans for each project, and will
	maintain one on file in the Central Office and one of file in the District Office. The Department
	will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of
	the Record Plans at the Pre-Construction conference.

SUBSECTION:	105.12 Final Inspection and Acceptance of Work.
REVISION:	Insert the following paragraphs after the first paragraph:
	Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion. Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items must remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work. Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work is required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required. The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final acceptae of the setters. Any damage done to accepted electrical work its project. Penalties will be assessed at ½ the rate of liquidated damages established for the contractor. Penalties will be assessed at ½ the rate of liquidated damages established for the contract.
SUBSECTION:	105.13 Claim Resolution Process.
REVISION:	Replace the last sentence of the 3. Bullet with the following:
	If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay. Delete the last paragraph from the section.
	Derete the fast paragraph from the section.

SUBSECTION:	106.04 Buy America Requirement.
REVISION:	Replace the section with the following:
	 106.04 Buy America Requirement. Follow the "Buy America" provisions as required by Title 23 Code of Federal Regulations § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of: Coating, Galvanizing, Painting, and Other coating that protects or enhances the value of steel or iron products.
	The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material: • Pig iron,
	 Processed, pelletized, and reduced iron ore material, or Processed alloys.
	The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.
	Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.
	Use foreign materials only under the following conditions:
	 When the materials are not permanently incorporated into the project; or When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.
	The Contractor shall submit to the Engineer the origin and value of any foreign material used.
SUBSECTION: REVISION:	106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph:
	All field welding must be performed by a certified welder unless otherwise noted.
SUBSECTION: REVISION:	108.02 Progress Schedule. Insert the following prior to the first paragraph:
	 Specification 108.02 applies to all Cabinet projects except the following project types: Right of Way Mowing and/or Litter Removal Waterborne Paint Striping
	Projects that contain Special Provision 82Projects that contain the Special Note for CPM Scheduling
	Insert the following paragraph after paragraph two:
	Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims.
	Insert the following paragraph after paragraph six:
	The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule.

	Insert the following at the beginning of the first paragraph of A) Written Narrative.:
	Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (<u>http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm</u>).
	Replace Part A) Written Narrative 1. And 2. with the following:
	 Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the contract, each project if the contract entails multiple projects, each phase of work, site of work, or segment of work as divided in the project plans, proposal, or as subdivided by the Contractor.
SUBSECTION: REVISION:	109.07.01 Liquid Asphalt. Add the following to the Adjustable Contract Items:
	Stone Matrix Asphalt for Base
	Stone Matrix Asphalt for Surface
SUBSECTION: REVISION:	110.01 Mobilization. Replace paragraph three with the following:
	Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts.
SUBSECTION: REVISION:	110.02 Demobilization. Replace the third paragraph with the following:
	Bid an amount for Demobilization that is a minimum of \$1,000 or 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives.
SUBSECTION: REVISION:	110.04 Payment. Insert the following paragraph following the demobilization payment schedule (4 th paragraph):
	The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid.

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

	B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.
	Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non- compliance. The penalty for non-compliance will be assessed at \$200 per hour.
	C) Short-term stationary is work that occupies a location for more than 1 hour within a single 24-hour period.
	Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.
	If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.
SUBSECTION:	206.03.02 Embankment
REVISION:	Replace the last paragraph with the following:
	When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A).
SUBSECTION: REVISION:	213.03.03 Inspection and Maintenance. Replace the last sentence of the second paragraph with the following:
	Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.
	Insert the following paragraph after the second paragraph:
	When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.

SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	E) Temporary Seeding and Protection.
REVISION:	Replace the first paragraph with the following:
	replace die mist paragraph with die rono wing.
	Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March
	through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (Setaria
	italica), when performing temporary seeding during the months of June through August. During
	the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100
	pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.
	pounds per acre. Obtain the Engineer's approval prior to the appreation of the seed mixture.
SUBSECTION:	213.03.05 Temporary Control Measures.
PART:	F) Temporary Mulch.
REVISION:	Replace the last sentence with the following:
	Replace the last sentence with the following.
	Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the
	soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective
	cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance
	is required or permanent controls are in installed.
	is required of permanent controls are in instance.
SUBSECTION:	303.05 Payment.
REVISION:	Replace the second paragraph of the section with the following:
	reprice die seeone palagraph of die seedon with die folio wing.
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot
	Pay Adjustment Schedule for Specialty Mixtures in Section 402.
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.
PART:	F) Production Quality Control.
REVISION:	Replace the first sentence with the following:
	Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing
	system of the aggregate feed, asphalt binder feed, or water injection system control occurs.
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.
REVISION:	Add the following:
	Part G) Water Injection System. Provided each system has prior approval as specified in
	Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of
	foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix
	Asphalt (WMA).
	Ensure the equipment for water injection meets the following requirements:
	1) Injection equipment computer controls are automatically coupled to the plants controls
	(manual operation is not permitted);
	2) Injection equipment has variable controls that introduce water ratios based on production
	rates of mixtures;
	3) Injects water into the flow of asphalt binder prior to contacting the aggregate;
	4) Provides alarms on the water injection system that operate when the flow of water is
	interrupted or deviates from the prescribed water rate.
SUBSECTION:	401.03.01 Preparation of Mixtures.
REVISION:	Replace the last sentence of the second paragraph with the following:
	Do not use asphalt binder while it is foaming in a storage tank.

SUBSECTION:	401.03.01 Preparation of Mi	xtures.				
REVISION:	Replace the third paragraph and Mixing and Laying Temperature table with the following:					
	Maintain the temperature of the component materials and conholt mixture within the ranges listed in					
	Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table:					
	1	MIXING AND LAYING	G TEMPERATUR	ES (°F)		
	Material		Minimum	Maximum		
	Aggregates		240	330		
	Aggregates used with Recycl (RAP)	ed Asphalt Pavement	240	—		
	Asphalt Binders	PG 64-22 PG 76-22	230 285	330 350		
	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA PG 76-22 HMA	250 310	330 350		
		PG 64-22 WMA	230	275		
	Asphalt Mixtures at Project	PG 76-22 WMA PG 64-22 HMA	250 230	<u> </u>		
	(Measured in Truck	PG 76-22 HMA	300	350		
	When Discharging)	PG 64-22 WMA	210	275		
		PG 76-22 WMA	240	300		
SUBSECTION:	402.01 Description.					
REVISION:	Replace the paragraph with	the following:				
	- · · · ·					
	Provide the process control and acceptance testing of all classes and types of asphalt mixtures which may be furnished either as hot mix asphalt (HMA) or warm mix asphalt (WMA) produced					
	with water injection systems		(HMA) OF WALL	in mix asphan (w MA) produced		
SUBSECTION	402.01.01 Warm Mix Aspha		on and Approval.			
REVISION:	Add the following subsection					
	402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.					
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below:					
	402.05.02 Asphalt Mixtures	, HMA and WMA, In	ncluding Mixture	es With RAP.		
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures Replace the paragraph with		ncluding Mixture	es With RAP.		
	Using the appropriate Lot Pa applicable properties within value for a given property for lot to a defined unit price of	ed based on the degr ay Adjustment Scheck each sublot and aver or each lot. The Depa \$50.00 per ton. The	ree of compliance lule, the Departm rage the sublot partment will apply Department will	price and apply a Lot Pay e with the specified tolerances. nent will assign a pay value for the ay values to determine the pay y the Lot Pay Adjustment for each calculate the Lot Pay Adjustment the overall pay value for a lot to		

SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.				
PART:	C) Conventional and RAP Mixtures Placed on Shoulders.				
REVISION:	Replace Title and Text with the following:				
	C) HMA, WMA and RAP Mixtures Placed on Shoulders or Placed as Asphalt Pavement Wedge.				
	 Placed monolithically w pay as mainline mixture 		e – Width of 4 feet of	r less. The Department will	
	 Placed monolithically with the Mainline – Width of greater than 4 feet. The Department will pay as mainline mixture but use 1.00 for the Lane and Joint Density Pay Value for shoulder or Asphalt Pavement Wedge quantities. Placed Separately. The Department will use 1.00 for the Lane and Joint Density Pay Value. 				
	v urue.				
SUBSECTION: PART: REVISION:	402.05.02 Asphalt Mixtures, HM D) Conventional and RAP Mixtur Replace the title with the followin D) HMA, WMA, and RAP Mixtu	res Placed Mon	olithically as Asphalt	Pavement Wedge.	
	Delete the following: D) HMA, WMA, and RAP Mixt Department will pay as mainline				
SUBSECTION:	402.05.02 Asphalt Mixtures for T		ement.		
PART: REVISION:	E) Asphalt Mixtures for Temporary Pavement.Replace E) Asphalt Mixtures for Temporary Pavement with the following:				
	D) Asphalt Mixtures for Temporary Pavement.				
SUBSECTION: PART: TABLES: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures VMA Replace the VMA table with the following:				
		VMA			
		VMA Pay Value Deviation			
		l ay value	From Minimum		
		1.00	≥ min. VMA		
			0.1-0.5 below min. 0.6-1 0 below min.		
		(l) > 1.0 below min.			
GUDGECTION					
SUBSECTION: PART:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures				
TABLES: REVISION:					
	-		i		
		V	'MA		
	[Pay Value	Deviation		
		4	From Minimum		
		1.00	\geq min. VMA		
		0.95	0.1-0.5 below min. 0.6-1.0 below min.		
		(1)	> 1.0 below min.		
1			> 1.0 0010 w IIIII.		

SUBSECTION: PART: TABLE: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Lot Pay Adjustment Schedule, Compaction Option B Mixtures VMA Replace the VMA table with the following:							
	VMA							
			Pay Value	Dev	viation	-		
				From	Minimum			
			1.00		n. VMA			
			0.95		0.5 bel w nin.			
			0.9		below min			
			(2)	> 1.0 b	elow min.]		
SUBSECTION: PART: NUMBER: REVISION:	 403.03.03 Preparation of Mixture. C) Mix Design Criteria. 1) Preliminary Mix Design. Replace the last two sentences of the paragraph and table with the following: Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows: 							
					Numb	er of Gyr	ations	
		Class	ESAL's (millio	ons)	$N_{ m initial}$	$N_{ m design}$	N _{max}	
		2	< 3.0)	6	50	75	
		3 4	$\frac{3.0 \text{ to} < 30.0}{\geq 30.0}$	J	7	75 100	115 160	
SUBSECTION: PART: REVISION:	 403.03.09 Leveling and Wedging, and Scratch Course. A) Leveling and Wedging. Replace the first sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs. 							
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.							
PART: REVISION:	B) Scratch Cou Replace the sec		of the first paragraph	n with the	e followii	ıg:		
	Replace the second sentence of the first paragraph with the following: Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.							
SUBSECTION: REVISION:	407.01 DESCR Replace the firs		he paragraph with th	ne follow	ving:			
	Construct a pay	vement wedge o	composed of a hot-r	nixed or	warm-mi	xed asph	alt mixtu	ire.
SUBSECTION: REVISION:	409.01 DESCRIPTION. Replace the first sentence of the paragraph with the following:							
			ent (RAP) from Dep nix asphalt (WMA)					
SUBSECTION: REVISION:	410.01 DESCRIPTION. Delete the second sentence of the paragraph.							

SUBSECTION: REVISION:	410.03.01 Corrective Work. Replace the last sentence of the paragraph with the following:				
	Provide a final surface comparable to the adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.				
SUBSECTION:	410.03.02 Ride Quality.				
PART:	B) Requirements.				
NUMBER: REVISION:	1) Category A. Replace the last sentence of the first paragraph with the following:				
	At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.				
SUBSECTION:	410.03.02 Ride Quality.				
PART:	B) Requirements.				
NUMBER: REVISION:	2) Category B. Replace the second and third sentence of the first paragraph with the following:				
	When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.				
SUBSECTION:	410.05 PAYMENT.				
REVISION:	Add the following sentence to the end of the first paragraph:				
	The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.				
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG76-22.				
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph:				
	The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.				
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG 76-22.				
TABLE: REVISION:	JOINT DENSITY TABLE Replace the joint density table with the following:				
KEVISION:	Replace the joint density table with the following.				
	LANE DENSITY				
	Pay ValueTest Result (%)				
	1.05 95.0-96.5				
	1.00 93.0-94.9				
	0.95 92.0-92.9 or 96.6-97.0 0.90 91.0-91.9 or 97.1-97.5				
	$\begin{array}{c c} 0.90 & 91.0-91.9 \text{ or } 97.1-97.5 \\ \hline (1) & <91.0 \text{ or } >97.5 \\ \end{array}$				
	71.0 01 > 71.3				
SUBSECTION: REVISION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. Insert the following sentence between the first and second sentence of the first paragraph:				
	The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.				

SUBSECTION: TABLE: REVISION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22. JOINT DENSITY TABLE Replace the joint density table with the following:				
			DENSITY		
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	
		1.05	95.0-96.5	92.0-96.0	
		1.00	93.0-94.9	90.0-91.9	
		0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5	
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	
		0.75		< 88.0 or > 97.0	
		(1)	< 91.0 or > 97.5		
SUBSECTION:	501.05.02 Ride	Quality.			
REVISION:	Add the following	ng sentence to the	end of the first paragraph	:	
	The sum of the p whole.	bay value adjustm	ents for the ride quality sh	all not exceed \$0 for the	e project as a
SUBSECTION: REVISION:	505.03.04 Detec Replace the first	etable Warnings. sentence with the	following:		
	Install detectable Standard Drawir		at all sidewalk ramps and o	on all commercial entrar	nces according to the
SUBSECTION: REVISION:	505.04.04 Detectable Warnings. Replace the paragraph with the following:				
	The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.				
SUBSECTION: REVISION:	505.05 PAYMENT. Add the following to the bid item table:				
	<u>Code</u> 23158ES505	Pay Item Detectable Wa	arnings <u>Pay Unit</u> Square Foot	t	
SUBSECTION: REVISION:	509.01 DESCRI Replace the seco	PTION. and paragraph with	n the following:		
	Research Progra the Standard Dra length, material,	m (NCHRP) 350 ' wings. Obtain th drain slot dimens et or less from the	e of similar units that conf Test Level 3 (TL-3) requin e Engineers approval prio ions and locations typical e NCHRP 350 TL-3 for Te	rements and the typical f r to use. Ensure the barr features are met and the	features depicted by rier wall shape, reported maximum

SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
REVISION:	Replace the first sentence with the following:
	Obtain the concrete from producers that are in compliance with KM 64-323 and on the Department's List of Approved Materials.
	Add the following to the first paragraph:
	If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	B) Certified Personnel. Replace the second sentence with the following:
	Ensure that the concrete technicians are certified as ACI Level I (Level I) and KRMCA Level II (Level II).
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	C) Quality Control. Replace the second sentence with the following:
	Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	D) Producer Testing. Replace with the following:
	When producing for state work, have a Qualified Concrete Aggregate Technician or KYTC Qualified Aggregate Technician perform, at a minimum, weekly gradations and minus 200 wash tests and daily moisture contents of coarse and fine aggregate (Fine aggregates will not require a minus 200 wash test). Using the daily moisture contents, adjust the approved mix design accordingly prior to production. Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	E) Trip Tickets. Replace the second sentence with the following:
	Include on the trip ticket the Sample ID for the approved mix design and a statement certifying that the data on the ticket is correct and that the mixture conforms to the mix design.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART: NUMBER: REVISION:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures2) Mineral Admixtures.Replace the second sentence with the following:
	Reduction of the total cement content by a combination of mineral admixtures will be allowed, up to a maximum of 40 percent.

SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	a) Fly Ash.
REVISION:	Delete the last sentence of the third paragraph.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
REVISION:	Delete the second sentence of the third paragraph.
KEVISION:	Defete the second sentence of the third paragraph.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
REVISION:	Add the following sentence:
	The the following bencence.
	Conform to the individual ingredient material batching tolerances in Appendix A.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	A) General.
REVISION:	Replace the last sentence of the fourth paragraph with the following:
	Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for
	lengths greater than 20 feet.
	Replace the second sentence of the fifth paragraph with the following:
	When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the
	discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the
	Engineer.
SUBSECTION:	605.02.05 Forms.
REVISION:	Delete the last sentence.
KEVISION.	Delete the last sentence.
SUBSECTION:	605.03.04 Tack Welding.
REVISION:	Replace with the following:
	Replace with the following.
	The Department does not allow tack welding.
	· · · · · · · · · · · · · · · · · · ·
SUBSECTION:	606.02.11 Coarse Aggregate.
REVISION:	Replace with the following:
	Conform to Section 805, size No. 8 or 9-M.
SUBSECTION:	609.03.04 Expansion and Fixed Joints.
PART:	D) Preformed Neoprene Joint Seals.
REVISION:	Replace the last sentence of paragraph seven with the following:
	Field splices will not be allowed during partial width construction. It is Contractor's responsibility to
	determine and install the length of seal required for the joint to barrier wall as per the standard drawing.
SUBSECTION:	609.03.09 Finish with Burlap Drag.
REVISION:	Delete the entire section.
SUBSECTION:	609.04.06 Joint Sealing.
REVISION:	Replace Subsection 601.04 with the following:
	Subsection 606.04.08.

SUBSECTION:	609.05 Payment.
REVISION:	Replace the Pay Unit for Joint Sealing with the following:
	See Subsection 606.05.
SUBSECTION:	701.03.06 Initial Backfill.
REVISION:	Replace the first sentence of the last paragraph with the following:
	When the Contract specifies, perform quality control testing to verify compaction according to KM 64-
	512.
SUBSECTION	701.02.08 Testing of Ding
SUBSECTION: REVISION:	701.03.08 Testing of Pipe. Replace and rename the subsection with the following:
	Replace and rename the subsection with the following.
	 701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project. Unless the Engineer directs otherwise, schedule the inspections proving and 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible. Notify the Engineer immediately if distresses or locations of improper installation are discovered. When earer a testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114. Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmenta
SUBSECTION: REVISION:	701.04.07 Testing. Replace and rename the subsection with the following:
	701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.

SUBSECTION: REVISION: SUBSECTION:	701.05 PAYMENT	em ne Video Inspection		Pay Unit Linear Foot	
TABLE: REVISION:	PIPE DEFLECTION DETERMIN Replace this table with the following		STING		
	A manual of Dofloation (PIPE DEFLEC			
	Amount of Deflection (9	/0)	Payment		
	0.0 to 5.0 5.1 to 9.9			Unit Bid Price ⁽¹⁾	
	10 or greater		Remove and		
	10 of greater		Kelliove allo	IReplace	
	(1) Provide Structural Analysis allowed to remain in place at the r		ased on the s	rtructural analysis, pipe may be	
SUBSECTION: TABLE: REVISION:	701.05 PAYMENT PIPE DEFLECTION DETERMIN Delete this table.	ED BY MANDREL T	ESTING		
SUBSECTION:	713.02.01 Paint.				
REVISION:	Replace with the following:				
	Conform to Section 842 and Section 846.				
SUBSECTION: REVISION:	713.03 CONSTRUCTION. Replace the first sentence of the second paragraph with the following:				
SUBSECTION:	On interstates and parkways, and other routes approved by the State Highway Engineer, install pavemen striping that is 6 inches in width.				
REVISION:	713.03.03 Paint Application. Replace the second paragraph with the following table:				
	Material	Paint Application R		Glass Beads Application Rate	
	4 inch waterborne paint 6 inch waterborne paint	Min. of 16.5 gallons Min. of 24.8 gallons/		Min. of 6 pounds/gallon Min. of 6 pounds/gallon	
	6 inch durable waterborne paint	Min. of 36 gallons/m		Min. of 6 pounds/gallon	
SUBSECTION:	713.03.04 Marking Removal.				
REVISION:	Replace the last sentence of the paragraph with the following:				
	Vacuum all marking material and removal debris concurrently with the marking removal operation.				
SUBSECTION: REVISION:	713.05 PAYMENT. Insert the following codes and pay	items below the Paven	nent Striping	– Permanent Paint:	
	24190ER Durable Waterbo	rne Marking – 6 IN W rne Marking – 6 IN Y rne Marking – 12 IN V	Line Line	Unit ear Foot ear Foot ear Foot	

are an an an	
SUBSECTION: REVISION:	714.03 CONSTRUCTION. Insert the following paragraph at the end of the third paragraph:
	Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement.
SUBSECTION:	714.03.07 Marking Removal.
REVISION:	Replace the third sentence of the paragraph with the following:
	Vacuum all marking material and removal debris concurrently with the marking removal operation.
SUBSECTION:	716.01 DESCRIPTION.
REVISION:	Insert the following after the first sentence:
	Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.
SUBSECTION:	716.02.01 Roadway Lighting Materials.
REVISION:	Replace the last two sentences of the paragraph with the following:
	Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data to the Division of Traffic Operations. Do not begin work until shop drawings are approved. Notify the Engineer when submitting any information to the Division of Traffic Operations. Do not make substitutions for approved materials without written permission as described above.
SECTION:	717 – THERMOPLASTIC INTERSECTION MARKINGS.
REVISION:	Replace the section name with the following:
	INTERSECTION MARKINGS.
SUBSECTION:	717.01 DESCRIPTION:
REVISION:	Replace the paragraph with the following:
	Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion process or by applying preformed thermoplastic intersection marking material.
SUBSECTION:	717.02 MATERIALS AND EQUIPMENT.
REVISION:	Insert the following subsection:
	insert the following subsection.
	717.02.06 Type I Tape. Conform to Section 836.
SUBSECTION:	717.03.03 Application.
REVISION:	Insert the following part to the subsection:
	B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut all tape at pavement joints when applied to concrete surfaces.

SUBSECTION:	717.03.05 Proving Period.		
PART:	A) Requirements.		
REVISION:	Insert the following to this section	on:	
	of failure due to blistering, exce pavement materials, drippings, retroreflectivity, vehicular dama warranted by the manufacturer adequately bonded to the surface Subsection 714.03.06 A) 1), ret	oving period, ensure that the pavement marking materies essive cracking, bleeding, staining, discoloration, oil co chipping, spalling, poor adhesion to the pavement, los age, and normal wear. Type I Tape is manufactured o to meet certain retroreflective requirements. As long a e and shows no signs of failure due to the other items roreflectivity readings will not be required. In the abs based on a nighttime visual observation.	ontent of the ss of ff site and as the material is listed in
SUBSECTION:	717.03.06 Marking Removal.		
REVISION:	Replace the third sentence of th	e paragraph with the following:	
	Vacuum all marking material an	nd removal debris concurrently with the marking remo	oval operation.
SUBSECTION:	717.05 PAYMENT.		
REVISION:	Insert the following bid item co	des:	
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe		to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe	wing: om as developed by SCI Products, Inc. of St. Charles, I work conform to ASTM A 36 and galvanize according nder panels conform to AASHTO 180. Galvanize the I-beam connectors after fabrication according to AST	to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	When supplying cement with a	e first paragraph and add the following to the second μ SO ₃ content above the value in table I of ASTM C 15 ay expansion test data for the supplied SO ₃ content on	0, include

SUBSECTION:	805.01 GENERAL.
REVISION:	Replace the second paragraph with the following:
	The Department's List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Delete footnote (1) The permissible lightweight particle content of gravel coarse aggregate for reinforced
	concrete box culvert sections, concrete pipe, pipe arches, or for use only in concrete that will be permanently protected from freezing by 2 feet or more of cover is 10.0 percent.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Replace the "AASHTO T 160" reference in first sentence of the third paragraph with "KM 64-629"
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
TABLE:	AGGREGATE SIZE USE
PART:	Cement Concrete Structures and Incidental Construction
REVISION:	Replace "9-M for Waterproofing Overlays" with "8 or 9-M for Waterproofing Overlays"
	Replace 5-who waterproofing Overlays with 5 of 5-who waterproofing Overlays

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

					ũ	IZES C	SIZES OF COARSE AGGREGATES	SE AC	GKEG.	ALES							
	Sieve		Aľ	MOUNTS	FINER TH	AN EACH	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT	ORY SIE	VE (SQUA	ARE OPEN	INGS) PEF	RCENTAGE	E BY WEI	GHT			
Aggregate Size	Nominal ⁽³⁾ Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch 2 inch		1 1/2 inch	1 inch	3/4 inch 1/2 inch		3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	0-5						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
67	3/4 inch							100	90-100		20-55	0-10	0-5				
89	3/4 inch							100	90-100		30-65	5-25	0-10	0-5			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	0-5			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5				
$10^{(2)}$	No. 4										100	85-100				10-30	
$11^{(2)}$	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE ⁽¹⁾	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE ^(I)	1 ½ inch				100		90-100		60-95		30-70	15-55			5-20		0-8
 Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27. Cizes channe for convenience and are not to be convidend as convenience and an and the convertence of the convenience of the conveni	performed by	wet sie	100 KM 64	20 Dr			1										

Sizes shown for convenience and are not to be considered as coarse aggregates.
 Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

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

SUBSECTION: REVISION:	805.16 SAMPLING AND TESTING. Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion Test.
	Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue.
SUBSECTION: REVISION:	810.04.01 Coating Requirements. Replace the "Subsection 806.07" references with "Subsection 806.06"
SUBSECTION: PART: REVISION:	810.06.01 Polyvinyl Chloride (PVC) Pipe.B) Culvert and Entrance Pipe.Replace the title with the following:
	B) Culvert Pipe, Storm Sewer, and Entrance Pipe.
SUBSECTION: REVISION:	823.02 LIQUID MEMBRANE FORMING COMPOUNDS. Add the following:
	Effective July 1, 2011, to remain on or be added to the Department's approved list, products must have completed testing or been submitted for testing through the National Transportation Product Evaluation Program (NTPEP) for Concrete Curing Compounds.
SUBSECTION: REVISION:	837.03 APPROVAL. Replace the last sentence with the following:
	The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material.
SUBSECTION: REVISION:	837.03.01 Composition. COMPOSITION Table: Replace
	Lead Chromate0.0 max.4.0 min.withHeavy Metals ContentComply with 40 CFR 261
SUBSECTION: TABLE: REVISION:	842.02 APPROVAL. PAINT COMPOSITION Revise the following in the table:
	Replace the $2.0\Delta E^*$ values in the table with $4.0\Delta E^*$ for both Yellow and White Paint on both the Daytime and Nighttime Color Spectrophotometer.
SECTION: REVISION:	DIVISION 800 MATERIAL DETAILS Add the following section in Division 800
	SECTION 846 – DURABLE WATERBORNE PAINT
	846.01 DESCRIPTION. This section covers quick-drying durable waterborne pavement striping paint for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces.
	846.02 Approval. Select materials that conform to the composition requirements below. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content. Submit initial samples for approval before beginning striping

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

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

	PAINT COMPOSITION	
Property and Test Method	Yellow	White
Daytime Color (CIELAB)	L* 81.76	L* 93.51
Spectrophotometer using	a* 19.79	a* -1.01
illuminant D65 at 45°	b* 89.89	b* 0.70
illumination and 0° viewing with	Maximum allowa le	Maximum allowable variation
a 2° observer	variation $4.0\Delta E^*$	4.0ΔE*
Nighttime Color (CIELAB)	L* 86.90	L* 93.45
Spectrophotometer using	a* 24.80	a* -0.79
illuminant A at 45° illumination	b* 95.45	b* 0.43
and 0° viewing with a 2° observer	Maximum allowable variation	Maximum allowable variation
	4.0AE*	4.0AE*
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261
Titanium Dioxide	NA	10% by weight of pigment
ASTM D 4764		min.
VOC	1.25 lb/gal max.	1.251 /gal ma .
ASTM D 2369 and D 4017		
Contrast Ratio	0.97	0.99
(at 15 mils wft)		

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

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

Non- conforming Property	Resin	Color	Contrast	TiO ₂	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

APPENDIX A:	TABLUATION OF CONSTRUCTION TOLERANCES.
PART:	601.03.03
REVISION:	Replace with the following:
	Concrete accuracy of individual ingredient material for each batch. ± 2.0% for aggregates ± 1.0% for water ± 1.0% for cement in batches of 4 cubic yards or greater ± 1.0% for total cementitious materials in batches of 4 cubic yards or greater 0.0% to + 4.0% for cement in batches less than 4 cubic yards 0.0% to + 4.0% for total cementitious materials in batches less than 4 cubic yards 0.0% to + 4.0% for total cementitious materials in batches less than 4 cubic yards 0.0% to admixtures
APPENDIX A: PART: REVISION:	

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED or flip disk/LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Allow direct wiring for operation of the sign or arrow board from an external power source when desired.
- 7) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 8) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 9) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 10) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.

- 11) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 12) Provide a photocell control to provide automatic dimming.
- 13) Allow an on-off flashing sequence at an adjustable rate.
- 14) Provide a sight to aim the message.
- 15) Provide a LED display color of approximately 590 nm amber.
- 16) Provide a controller that is password protected.
- 17) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 18) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/ /KEEP/LEFT/⇐⇐⇐/ /LOOSE/GRAVEL/AHEAD/ /RD WORK/NEXT/**MILES/ /TWO WAY/TRAFFIC/AHEAD/ /PAINT/CREW/AHEAD/ /REDUCE/SPEED/**MPH/ /BRIDGE/WORK/***0 FT/ /MAX/SPEED/**MPH/ /SURVEY/PARTY/AHEAD/ /MIN/SPEED/**MPH/ /ICY/BRIDGE/AHEAD/ /ONE LANE/BRIDGE/AHEAD/ /ROUGH/ROAD/AHEAD/ /MERGING/TRAFFIC/AHEAD/ /NEXT/***/MILES/ /HEAVY/TRAFFIC/AHEAD/ /SPEED/LIMIT/**MPH/ /BUMP/AHEAD/ /TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer. Add other messages during the project when required by the Engineer.

2.3 Requirements for Flip-Disc Type Signs. Flip-disc type signs will have the following additional requirements:

- 1) Disc faces are fluorescent yellow on one side, and flat black on the reverse.
- 2) Discs are at least 3.5 square inches with a minimum character size of 5 discs horizontally by 7 discs vertically.
- 3) Discs are designed to operate without lubrication for at least 200 million operations.
- 4) Line change speed of 600 milliseconds or less.
- 5) When power is lost, the sign automatically becomes blank or displays a preprogrammed default message.

2.4 Power.

- Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- 2) Diesel Power Source. Ensure the following is provided for:
 - a) At least 24 spare bulbs available on the project for quick replacement of burned out bulbs.
 - b) Black light at both top and bottom of each line to illuminate discs for visibility at night or under adverse weather conditions, for flip disk signs.

- c) Diesel generator and electric start assembly, including batteries and a fuel capacity adequate to provide at least 72 hours continuous operation without refueling.
- d) Fuel gage.
- e) Provide all other specific features, such as bulb size, protection from sun glare, and shock protection for electronics and bulbs, to the satisfaction of the Engineer.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater. Unless the Contract specifies flip-disk signs, use Class I signs on interstates and parkways.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel or disk.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

January 5, 2010

1I

2008 STANDARD DRAWINGS THAT APPLY

TYPICAL GUARDRAIL INSTALLATIONS	
TYPICAL GUARDRAIL INSTALLATIONS	RBI-002-06
STEEL BEAM GUARDRAIL (W-BEAM)	RBR-001-11
GUARDRAIL COMPONENTS	
GUARDRAIL POSTS	RBR-015-04
GUARDRAIL POSTS	RBR-016-04
CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-06
SUPERELEVATION FOR MULTILANE PAVEMENTS	RGS-002-05
MISCELLANEOUS STANDARDS PART 1	RGX-001-05
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	RPM-110-05
LANE CLOSURE TWO-LANE HIGHWAY CASE I	
LANE CLOSURE TWO-LANE HIGHWAY CASE II	
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-01
SHOULDER CLOSURE	TTC-135-01
POST SPLICING DETAIL	TTD-110-01
WORK ZONE SPEED LIMIT AND DOUBLE FINE SIGNS	TTD-120
MOBILE OPERATION FOR PAINT STRIPING CASE I	TTS-100-01
MOBILE OPERATION FOR PAINT STRIPING CASE II	
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-01
MOBILE OPERATION FOR PAINT STRIPING CASE IV	TTS-115-01

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

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

I. Application

- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages

IV. Statements and Payrolls

I. APPLICATION

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

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

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

II. NONDISCRIMINATION OF EMPLOYEES

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

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

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

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

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the 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 workweek 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: <u>https://www.eProcurement.ky.gov</u>.

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.

General Decision Number: KY120125 04/13/2012 KY125

Superseded General Decision Number: KY20100211

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Modification Number 0 1 2 3	Publication Date 01/06/2012 01/13/2012 01/20/2012 04/13/2012	
BRIN0004-003 06/01/20)11	
BRECKENRIDGE COUNTY		
	Rates	Fringes
BRICKLAYER	\$ 24.11	10.07
BRKY0001-005 06/01/20)11	
· · ·	SON, HARDIN, HENRY, JEFI OLDHAM, SHELBY, SPENCEI	

	Rates	Fringes		
BRICKLAYER	.\$ 24.11	10.07		
BRKY0002-006 06/01/2011				
BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:				
	Rates	Fringes		
BRICKLAYER\$ 26.57 10.26				
BRKY0007-004 06/01/2011				
BOYD, CARTER, ELLIOT, FLEMING, G	REENUP, LEWIS &	ROWAN COUNTIES:		

	Rates	Fringes		
BRICKLAYER	.\$ 28.29	16.80		
BRKY0017-004 06/01/2009				
ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:				
	Rates	Fringes		
BRICKLAYER		9.97		
CARP0064-001 07/01/2011				
	Rates	Fringes		
CARPENTER Diver PILEDRIVERMAN	.\$ 39.30	13.26 13.26 13.26		
ELEC0212-008 05/31/2011				
BRACKEN, GALLATIN and GRANT COUN	TIES			
	Rates	Fringes		
ELECTRICIAN	.\$ 26.11	14.94		
ELEC0212-014 06/27/2011				
BRACKEN, GALLATIN & GRANT COUNTIN	ES:			
	Rates	Fringes		
Sound & Communication Technician	.\$ 21.55	8.46		
ELEC0317-012 06/01/2011				
BOYD, CARTER, ELLIOT & ROWAN COUL	NTIES:			
	Rates	Fringes		
Electricians: Cable Splicer Electrician	\$ 31.87	18.13 19.96		
ELEC0369-007 06/01/2011				
ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL, CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT, SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:				

	Rates	Fringes
ELECTRICIAN		13.33
ELEC0575-002 05/30/2011		
FLEMING, GREENUP, LEWIS & MASON	COUNTIES:	
	Rates	Fringes
ELECTRICIAN	\$ 30.69	13.32
ENGI0181-018 07/01/2011		
	Rates	Fringes
Operating Engineer: GROUP 1 GROUP 2 GROUP 3 GROUP 4	\$ 24.08 \$ 24.46	13.00 13.00 13.00 13.00

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller; Batcher Plant; Bituminous Paver; Bituminous Transfer Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All Scoop; Carry Deck Crane; Central Compressor Plant; Cherry Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over); Concrete Paver; Truck-Mounted Concrete Pump; Core Drill; Crane; Crusher Plant; Derrick; Derrick Boat; Ditching & Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Conrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points; & Whirley Oiler

GROUP 3 - All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling leads equals or exceeds 150 ft. - \$1.00 over Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10% ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0044-009 06/01/2011

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON, BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan); CARROLL (Eastern third, including the Township of Ghent); FLEMING (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington); NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills); OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley); SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

	Rates	Fringes
IRONWORKER		
Fence Erector	\$ 22.92	17.20
Structural	\$ 25.50	17.20
IRON0070-006 06/01/2011		

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN, GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON,

MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE, WASHINGTON & WOODFORD BOURBON (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris); CARROLL (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville); CLARK (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte); OWEN (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill); SCOTT (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stampling Ground & Woodlake); Rates Fringes IRONWORKER.....\$ 25.77 18.28 _____ * IRON0372-006 01/01/2012 BRACKEN, GALLATIN, GRANT, HARRISON and ROBERTSON BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan); CARROLL (Eastern third, including the Township of Ghent); FLEMING (Western part, Excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington); NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills); OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley); SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall) COUNTIES Rates Fringes IRONWORKER, REINFORCING Beyond 30-mile radius of Hamilton County, Ohio Courthouse.....\$ 26.75 17.55 Up to & including 30-mile radius of Hamilton County, Ohio Courthouse.....\$ 26.50 17.55 _____ IRON0769-007 06/01/2011

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN

CLARK (Eastern third, including townships of Bloomingdale, Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson); FLEMING (Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); MASON (Eastern third, including Townships of Helena, Marshall, Orangeburg, Plumville & Springdale); NICHOLAS (Eastern eighth, including the Township of Moorefield Sprout)

Rates Fringes IRONWORKER.....\$ 30.96 18.07 ZONE 1.....\$ 29.59 18.07 ZONE 2.....\$ 31.36 18.07 ZONE 3.....\$ 32.96 18.07 ZONE 1 - Up to 10 mi. radius of union hall, Ashland, Ky., 1643 Greenup Avenue ZONE 2 - 10 to 50 mi. radius of union hall; ZONE 3 - 50 mi. radius and beyond _____ LABO0189-003 07/01/2011

BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT, FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON, JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS, OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES

	F	Rates	Fringes
			-
Laborers:			
GROUP	1\$	20.81	10.85
GROUP	2\$	21.06	10.85
GROUP	3\$	21.11	10.85
GROUP	4\$	21.71	10.85

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-008 07/01/2011

ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES

Rates

Fringes

Laborers:

1.26 1	0.40
1.51 1	0.40
1.56 1	0.40
2.16 1	0.40
1	L.51 1 L.56 1

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-009 07/01/2011

BRECKINRIDGE & GRAYSON COUNTIES

	F	Rates	Fringes
Laborers:			
GROUP	1\$	21.51	10.15
GROUP	2\$	21.76	10.15
GROUP	3\$	21.81	10.15
GROUP	4\$	22.41	10.15

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized _____ PAIN0012-005 06/11/2005 BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, ROBERTSON, SCOTT & WOODFORD COUNTIES: Rates Fringes PAINTER Bridge/Equipment Tender and/or Containment Builder..\$ 18.90 5.90 Brush & Roller.....\$ 21.30 5.90 Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....\$ 22.30 5.90 Sandblasting & Waterblasting.....\$ 22.05 5.90 Spray.....\$ 21.80 5.90 _____ _____ _ _ _ _ _ _ _ _ PAIN0012-017 05/02/2011 BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES: Rates Fringes PAINTER (Heavy & Highway Bridges - Guardrails -Lightpoles - Striping) Bridge Equipment Tender and Containment Builder....\$ 20.27 8.10 Brush & Roller.....\$ 23.85 8.10 Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....\$ 23.85 8.10 Sandblasting & Water Blasting.....\$ 24.60 8.10 Spray.....\$ 24.35 8.10 _____ PAIN0118-004 05/01/2010 ANDERSON, BRECKINRIDGE, BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES: Rates Fringes PAINTER Brush & Roller.....\$ 18.50 10.30

http://www.wdol.gov/wdol/scafiles/davisbacon/KY125.dvb

Spray, Sandblast, Power Tools, Waterblast & Steam

Cleaning.....\$ 19.50 10.30 _____ PAIN1072-003 12/01/2011 BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES Rates Fringes Painters: Bridges; Locks; Dams; Tension Towers & Energized Substations.....\$ 29.33 14.20 Power Generating Facilities.\$ 26.09 14.20 _____ _____ PLUM0248-003 06/01/2011 BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES: Rates Fringes Plumber and Steamfitter.....\$ 32.00 16.24 _____ PLUM0392-007 09/01/2011 BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN & ROBERTSON COUNTIES: Rates Fringes Plumbers and Pipefitters.....\$ 29.30 15.74 _____ PLUM0502-003 08/01/2011 BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN (Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES Rates Fringes PLUMBER.....\$ 31.00 16.13 _____ SUKY2010-160 10/08/2001 Rates Fringes Truck drivers: GROUP 1.....\$ 16.57 7.34 GROUP 2.....\$ 16.68 7.34 GROUP 3.....\$ 16.86 7.34 GROUP 4.....\$ 16.96 7.34 TRUCK DRIVER CLASSIFICATIONS GROUP 1 - Mobile Batch Truck Tender GROUP 2 - Greaser; Tire Changer; & Mechanic Tender

GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic

GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

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

These rates are listed pursuant to the Kentucky Determination No. CR-11-III- HWY dated August 04, 2011

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

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

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

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

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

OVERTIME:

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

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

PART IV

INSURANCE

INSURANCE

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

- 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

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

	COUNTY: MERC COUNTY: MERC COPOSAL: FD05				-	E: 1 G: 05/18/12 D: 341
LINE NO	ITEM 	DESCRIPTION	APPROXIMATE (QUANTITY		UNIT PRICE	AMOUNT
	SECTION 0001	l ROADWAY				
0010	00190 	LEVELING & WEDGING PG64-22	525.000	TON		
0020	00301 	CL2 ASPH SURF 0.38D PG64-22	2,165.000	TON		
0030	00388 	CL3 ASPH SURF 0.38B PG64-22	6,300.000	TON		
0040	02562 	SIGNS	460.000	SQFT		
0050	02650 	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
0060	02671 	PORTABLE CHANGEABLE MESSAGE SIGN	2.000	EACH		
0070	02676 	MOBILIZATION FOR MILL & TEXT	(1.00)	LS		
0080	02677 	ASPHALT PAVE MILLING & TEXTURING	85.000	TON		
0090	02775 	ARROW PANEL	2.000	EACH		
0100	06510 	PAVE STRIPING-TEMP PAINT-4 IN	20,000.000	LF		
0110	06514	PAVE STRIPING-PERM PAINT-4 IN	65,500.000	LF		
0120	06574 	PAVE MARKING-THERMO CURV ARROW	11.000	EACH		
0130	06600 	REMOVE PAVEMENT MARKER TYPE V	190.000	EACH		
0140	10020NS 	FUEL ADJUSTMENT	12,600.000	DOLL	1.00	12,600.00
0150	10030NS 	ASPHALT ADJUSTMENT	21,660.000	DOLL	1.00	21,660.00
0160	20362ES403 	SHOULDER RUMBLE STRIPS-SAWED 12 INCHES	56,624.000	LF		
0170	24489EC 	INLAID PAVEMENT MARKER MONO DIRECTIONAL WHITE	700.000	EACH		
	SECTION 0002	2 DEMOBILIZATION				
0180	02569	DEMOBILIZATION (AT LEAST 1.5%)	LUMP			
		TOTAL BID				