



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

June 24, 2014

CALL NO. 412  
CONTRACT ID NO. 141242  
ADDENDUM # 1

Subject: Various Counties, 121GR14D042-FD04  
Letting July 11, 2014

(1) Revised - A complete new proposal

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Diana Castle Radcliffe".

Diana Castle Radcliffe  
Director  
Division of Construction Procurement

DR:ks  
Enclosures



An Equal Opportunity Employer M/F/D



**CALL NO. 412**

**CONTRACT ID. 141242**

**LYON - CALDWELL - TRIGG COUNTIES**

**FED/STATE PROJECT NUMBER 121GR14D042 - FD04**

**DESCRIPTION INTERSTATE 24**

**WORK TYPE PCC PAVEMENT REHAB**

**PRIMARY COMPLETION DATE 11/30/2014**

**LETTING DATE: July 11, 2014**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 11, 2014. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

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

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

## ADMINISTRATIVE DISTRICT - 01

**CONTRACT ID - 141242**

**121GR14D042 - FD04**

**COUNTY - CALDWELL**

**PCN - DE01700241442**

**FD04 SPP 017 0024 054-058**

INTERSTATE 24 (CALDWELL COUNTY) (MP 54.842) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 AND MP 69 IN LYON, CALDWELL AND TRIGG COUNTIES (MP 57.389) ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 01-02043.00.

GEOGRAPHIC COORDINATES LATITUDE 37:08:00.00 LONGITUDE 87:52:00.00

**COUNTY - LYON**

**PCN - DE07200241442**

**FD04 SPP 072 0024 045-055**

INTERSTATE 24 (LYON COUNTY) (MP 33.880) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 TO MP 69 IN LYON, CALDWELL, AND TRIGG COUNTIES. (MP 54.842) ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 01-02043.00.

GEOGRAPHIC COORDINATES LATITUDE 36:58:00.00 LONGITUDE 88:07:00.00

**COUNTY - TRIGG**

**PCN - DE11100241442**

**FD04 SPP 111 0024 057-065**

INTERSTATE 24 (TRIGG COUNTY) (MP 57.389) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 TO MP 69 IN LYON, CALDWELL AND TRIGG COUNTIES (MP 69.830) ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 01-02043.00.

GEOGRAPHIC COORDINATES LATITUDE 36:47:00.00 LONGITUDE 87:55:00.00

**COMPLETION DATE(S):**

COMPLETED BY 11/30/2014

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/construction-procurement](http://www.transportation.ky.gov/construction-procurement))

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

### **JOINT VENTURE BIDDING**

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

### **UNDERGROUND FACILITY DAMAGE PROTECTION**

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

### **SPECIAL NOTE FOR PIPE INSPECTION**

Contrary to Section 701.03.08 of the 2012 Standard Specifications for Road and Bridge Construction and Kentucky Method 64-114, certification by the Kentucky Transportation Center for prequalified Contractors to perform laser/video inspection is not required on this contract. It will continue to be a requirement for the Contractor performing any laser/video pipe inspection to be prequalified for this specialized item with the Kentucky Transportation Cabinet-Division of Construction Procurement.

### **SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS**

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

### **REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY**

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

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

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

### **SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT**

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

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

The questions and answers will be posted for each Letting under the heading “Questions & Answers” on the Construction Procurement website ([www.transportation.ky.gov/contract](http://www.transportation.ky.gov/contract)). The answers provided shall be considered part of

this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

### **HARDWOOD REMOVAL RESTRICTIONS**

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

### **INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES**

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

### **ACCESS TO RECORDS**

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

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

10/29/12





Steven L. Beshear  
Governor

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

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.**

03/01/2011

**EXPEDITE PROJECT WORK ORDER**

The Contractor may request that the Department expedite the work order for this project to allow for maximization of time to complete the work. In order for the Department to accomplish this task, the Contractor may be required to “hand carry” all required project documentation to facilitate the process. Immediately UPON NOTIFICATION OF AWARD OF THE CONTRACT, deliver required project documentation to:

Division of Construction Procurement  
200 Mero St.  
Frankfort, KY 40602

**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.



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

## Memorandum

**To:** David Steele  
**CC:** Robert Hoagland  
**From:** O'Dail Lawson  
Environmental Scientist II  
Division of Environmental Analysis  
**Date:** 6/19/2014  
**Re:** Asbestos Inspection Report for Trigg 111B00048R

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**This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.**

### **Project and Structure Information**

**County:** Trigg

**Bridge #**111B00048R

**Description:** The concrete samples collected were negative for asbestos. No abatement necessary.

**Inspection Date:** June 11, 2014

### **Results**

The results revealed that there is no ACM abatement required at this time.



<b><i>MRS, INC.</i></b>	<b><u>MRS, Inc. Analytical Laboratory Division</u></b>
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332 West Broadway, Suite 613  
Louisville, Kentucky 40202

(502) 495-1212  
Fax: (502) 491-7111

**BULK SAMPLE ASBESTOS ANALYSIS**

Analysis N #      2106157      Address: Trigg County/ 111B00048R  
Client Name:      KYTC  
Sampled By:      O'Dail Lawson

Number	Color	Layered	Fibrous	% FIBROUS ASBESTOS				% NON-ASBESTOS FIBERS			
				Chrysotile	Amosite	crocidolite	Others	Cellulose	Fiberglass	Syn. Fiber	Other/Mat.
T 1	Black	Yes	No				None				100%
T 2	Black	Yes	No				None				100%
T 3	Gray	Yes	No				None				100%

Methodology : EPA Method 600/R-93-116  
Date Analyzed : 15-Jun-14  
Analyst : Winterford Mensah

Reviewed By:   
Signature

The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S Government. Partial Reproduction of any part of this report is strictly prohibited. Samples shall be retained for (30) days.

AIHA # 102459

AJHA #1 02459



# Chain of Custody Record

## Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West  
Frankfort, Kentucky 40622  
(502) 564-7250 fax (502) 564-5655

<b>O'Dail Lawson</b> <a href="mailto:o'dail.lawson@ky.gov">o'dail.lawson@ky.gov</a> KYTC Address: 200 Mero Street Frankfort KY Phone: 502-782-5020 Fax: 502-564-5655 PO#:		<b>Client Information</b> KY TRANSPORTATION CABINET Results Code: ND = None Detected FTD = Filter Tampering or Damaged N/A = Not Applicable		Project or Subject Reference <b>Trigg 111800048R</b> Samplers (signature) <i>O'Dail Lawson</i>				
Sample ID	Sample Description	Collected Date	Collected Time	Analysis Requested	Matrix	Color	Cont. Type	Preservative
T1	Joint Compound	6-11-14	13:15	South End	Asph	Dark		N/A
T2	Grade Filler	↓	↓	↓	Asph	Black		
T3	Rail Concrete	↓	↓	↓	Concrete	Grey		
Relinquished By:		Date/Time:						
Received By: <i>Misty Rose</i>		Date/Time: 05/12/14						
Relinquished By:		Date/Time:						
Received at Lab By:		Date/Time:						

# *The EI Group, Inc.*

This certifies that

## *Tilmon O'Dail Lawson*

Student Address: 132 Old Fort Drive, Georgetown, KY 40324  
Has attended and satisfactorily passed an examination covering the contents of an EPA/AHERA approved course entitled

### *Asbestos Inspector Refresher (4-Hour) Training Course*

7213080011  
Certificate Number

7910  
Social Security Number

August 23, 2013  
Course Dates

August 23, 2013  
Exam Date

August 23, 2014  
Expiration Date



Louisville,, KY  
Location

*Berry A. Maxwell*  
Berry Maxwell, Training Manager

*Kerr Boddy*  
Kerr Boddy, Principal Instructor

*Kerr Boddy*  
Kerr Boddy, Exam Administrator

3240 Office Point Place, Suite 200  
Louisville, KY 40220  
888-372-5859

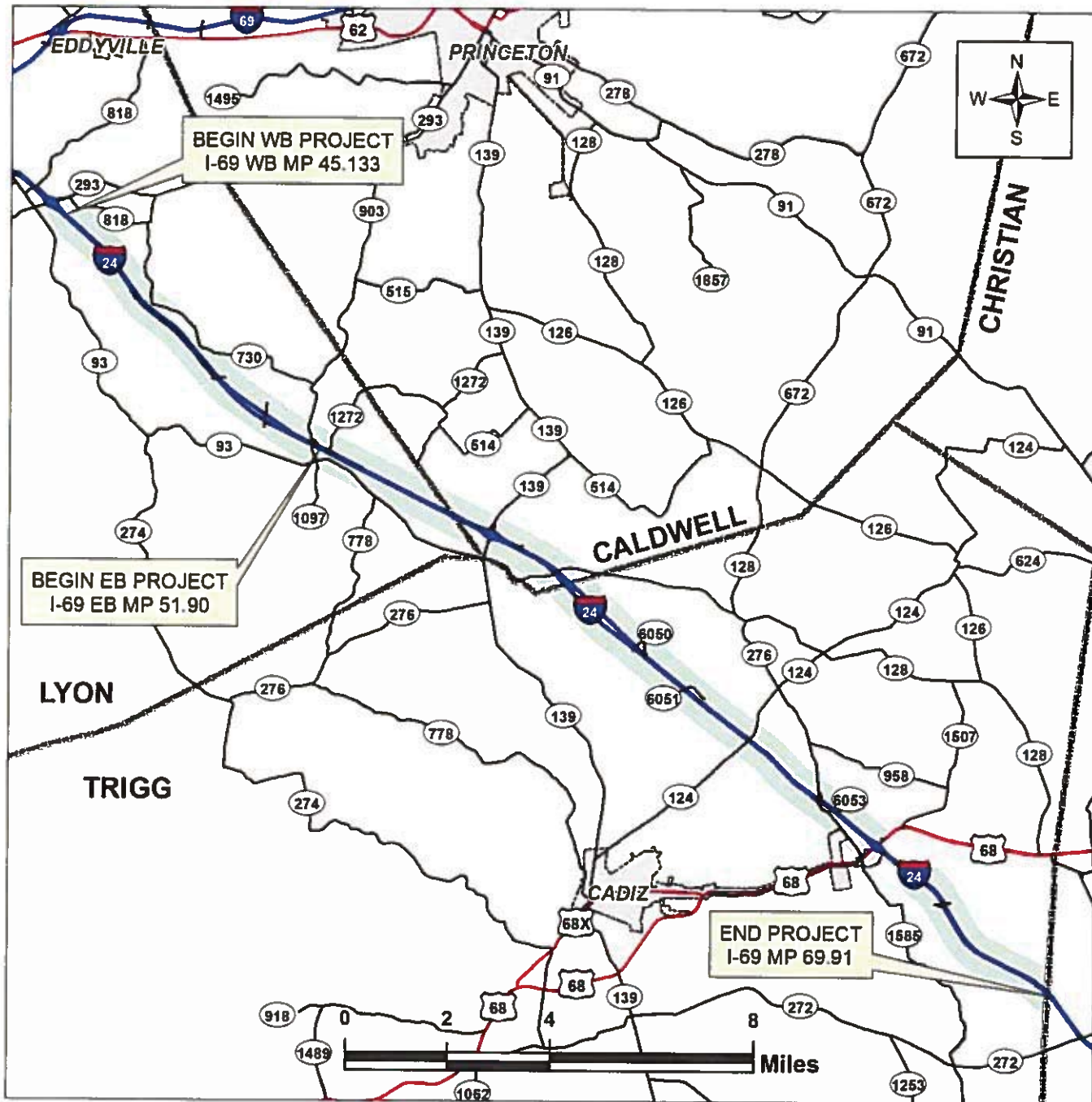
Approved by:  
Indiana Department of Environmental Management



### **Special Note for Bridge Demolition, Renovation and Asbestos Abatement**

If the project includes any bridge demolition or renovation, the successful bidder is required to notify Kentucky Division for Air Quality (KDAQ) via filing of form (DEP 7036) a minimum of 10 days prior to commencement of any bridge demolition or renovation work.

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work.



Item No.: I-2043.00

Project Number: FD04 SPP 072 0024 045-055; FD04 SPP 017 0024 0054-058;

FD04 SPP 111 0024 057-065

Letting Date: July 11, 2014

Recommended By: Joe Tucker, PE Date: 6/04/14  
Project Manager

Plan Approved By: Steve Waddle for Steve Waddle Date: 6/19/14  
State Highway Engineer

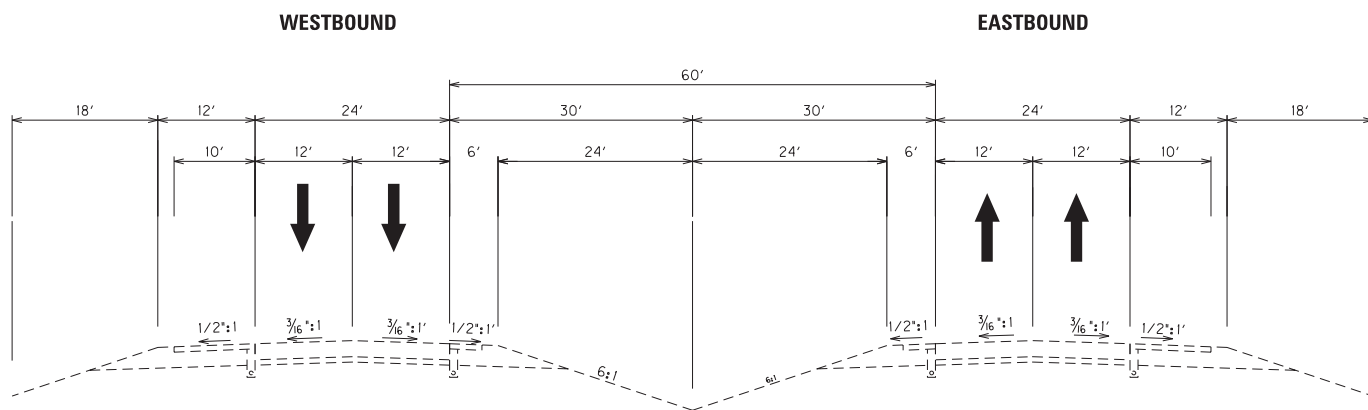
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7	SN for Utilities
8	SP for Waste & Borrow Sites
9	SN for Portable Changeable Message Signs 1I
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11	SN for Erosion Control
12	SN for Fixed Completion & Liquidated Damages
13	Traffic Control Plan
14	References
15	Bridge Notes and Drawings

# EXISTING TYPICAL SHEET

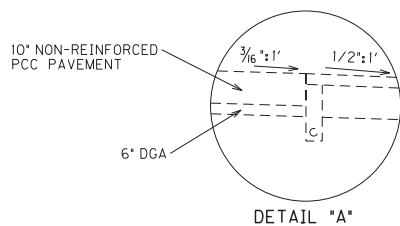
I-24

COUNTY OF	ITEM NO.
LYON CALDWELL TRIGG CHRISTIAN	I-2043.00



DETAIL "A"

NORMAL SECTION



NOT TO SCALE

I-24 TYPICAL SHEET  
 WEST MP 45.133 TO MP 66.91  
 EAST MP 51.900 TO MP 69.91

**Paving Summary**

Item Number	Item	Lyon	Caldwell	Trigg	Total	Units	Comments
1	DGA BASE	887	357	1,756	3,000	TON	For base failures; May not be necessary; Use in lieu of No 2's
5	GEOGRID REINFORCENT FOR SUBGRADE	591	238	1,171	2,000	SY	For base failures; May not be necessary
2058	REMOVE PCC PAVEMENT	1,766	2,234	9,917	13,917	SY	Total + 20%
2071	JPC PAVEMENT - 11 IN	1,766	2,234	9,917	13,917	SY	Total + 20%
2599	FABRIC-GEOTEXTILE TYPE IV	2,085	839	4,126	7,050	SY	For base failures; May not be necessary

**General Summary**

Item Number	Item	Lyon	Caldwell	Trigg	Total	Units	Comments
1000	PERFORATED PIPE - 4 IN	296	119	585	1,000	LF	For base failures; May not be necessary
1010	NON-PERFORATED PIPE - 4 IN	148	60	293	500	LF	For base failures; May not be necessary
1020	PERF PIPE HEADWALL TY 1 - 4 IN	6	2	12	20	EACH	For base failures; May not be necessary
2562	TEMPORARY SIGNS	2,957	1,191	5,853	10,000	SQ FT	
2650	MAINTAIN & CONTROL TRAFFIC	1	-	-	1	LS	Maintain & Control Traffic for Lyon County
2650	MAINTAIN & CONTROL TRAFFIC	-	1	-	1	LS	Maintain & Control Traffic for Caldwell County
2650	MAINTAIN & CONTROL TRAFFIC	-	-	1	1	LS	Maintain & Control Traffic for Trigg County
2671	PORTABLE CHANGEABLE MESSAGE SIGN	2	2	2	6	EACH	
2775	ARROW PANEL	2	2	2	6	EACH	
2726	STAKING	1	-	-	1	LS	Staking for Lyon County
2726	STAKING	-	1	-	1	LS	Staking for Caldwell County
2726	STAKING	-	-	1	1	LS	Staking for Trigg County
6511	PAVE STRIPING - TEMP PAINT - 6 IN	5,299	6,701	29,750	41,750	LF	
6549	PAVE STRIPING - TEMP REM TAPE - B	1,478	595	2,926	5,000	LF	
6550	PAVE STRIPING - TEMP REM TAPE - W	739	298	1,463	2,500	LF	
6551	PAVE STRIPING - TEMP REM TAPE - Y	739	298	1,463	2,500	LF	
6592	PAVEMENT MARKER TYPE V - B W/R	30	12	59	100	EACH	
10020NS	FUEL ADJUSTMENT	1,515	610	2,998	5,123	DOL	
24094EC	PARTIAL DEPTH PATCHING	30	12	59	100	CY	
21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS	1,478	595	2,926	5,000	LF	Use at the direction of the Engineer
23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	1	-	-	1	LS	Erosion Control for Lyon County
23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	-	1	-	1	LS	Erosion Control for Caldwell County
23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	-	-	1	1	LS	Erosion Control for Trigg County
24189ER	DURABLE WATERBORNE MARKING - 6 IN W	83,497	33,620	165,277	282,394	LF	
24190ER	DURABLE WATERBORNE MARKING - 6 IN Y	66,797	26,896	132,222	225,915	LF	
24191ER	DURABLE WATERBORNE MARKING - 12 IN W	1,478	595	2,926	5,000	LF	
2568	MOBILIZATION	-	-	-	1	LS	
2569	DEMobilIZATION	-	-	-	1	LS	

**Bridge Summary 27R**

Item Number	Item	Lyon	Caldwell	Trigg	Total	Units	Comments
8550	HYDRODEMOLITION	-	-	654	654	SQ. YD.	
8549	BLAST CLEANING	-	-	740	740	SQ. YD.	
8504	EPOXY SAND SLURRY	-	-	92	92	SQ. YD.	
8534	CONCRETE OVERLAY-LATEX	-	-	27	27	CU. YD.	
24094EC	PARTIAL DEPTH	-	-	23	23	CU. YD.	
8526	CONC CLASS M FULL DEPTH PATCH	-	-	10	10	CU. YD.	
8150	STEEL REINFORCEMENT			267	267	LBS.	
3298	EXPAN JOINT REPLACE 4"			81	81	LF.	
3299	ARMORED EDGE FOR CONCRETE			81	81	LF.	
3171	CONC BARRIER WALL TYPE 9T			500	500	L.F.	
2003	RELOCATE TEMP CONC MED BARRIER	-	-	500	500	L.F.	
2898	RELOCATE CRASH CUSHION	-	-	1	1	EACH	
8903	CRASH CUSHION TY VI CLASS BT TL3	-	-	1	1	EACH	
21669nn	POLICE OFFICER WITH VEHICLE	-	-	16	16	hour	

**Bridge Summary 48R**

Item Number	Item	Lyon	Caldwell	Trigg	Total	Units	Comments
8550	HYDRODEMOLITION	-	-	1,308	1,308	SQ. YD.	
8549	BLAST CLEANING	-	-	1,452	1,452	SQ. YD.	
8504	EPOXY SAND SLURRY	-	-	144	144	SQ. YD.	
8534	CONCRETE OVERLAY-LATEX	-	-	55	55	CU. YD.	
24094EC	PARTIAL DEPTH	-	-	46	46	CU. YD.	
8526	CONC CLASS M FULL DEPTH PATCH	-	-	4	4	CU. YD.	
3171	CONC BARRIER WALL TYPE 9T			650	650	L.F.	
2003	RELOCATE TEMP CONC MED BARRIER	-	-	650	650	L.F.	
2898	RELOCATE CRASH CUSHION	-	-	1	1	EACH	
8903	CRASH CUSHION TY VI CLASS BT TL3	-	-	1	1	EACH	
21669nn	POLICE OFFICER WITH VEHICLE	-	-	16	16	hour	

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Lyon	52.077	East	Right	12.00	27.00	36.00
Lyon	52.680	East	Right	12.00	15.00	20.00
Lyon	52.723	East	Right	12.00	22.00	29.33
Lyon	52.952	East	Right	12.00	50.00	66.67
Lyon	53.401	East	Right	12.00	38.00	50.67
Lyon	53.495	East	Right	12.00	15.00	20.00
Lyon	54.177	East	Right	12.00	20.00	26.67
Lyon	54.247	East	Right	12.00	20.00	26.67
Lyon	54.262	East	Right	12.00	13.00	17.33
Caldwell	55.057	East	Right	12.00	6.00	8.00
Caldwell	55.061	East	Right	12.00	6.00	8.00
Caldwell	55.070	East	Right	12.00	6.00	8.00
Caldwell	55.090	East	Right	12.00	6.00	8.00
Caldwell	55.108	East	Right	12.00	6.00	8.00
Caldwell	55.113	East	Right	12.00	24.00	32.00
Caldwell	55.284	East	Right	12.00	35.00	46.67
Caldwell	55.301	East	Right	12.00	22.00	29.33
Caldwell	55.374	East	Right	12.00	31.00	41.33
Caldwell	55.493	East	Right	12.00	6.00	8.00
Caldwell	55.496	East	Right	12.00	6.00	8.00
Caldwell	55.505	East	Right	12.00	6.00	8.00
Caldwell	55.509	East	Right	12.00	6.00	8.00
Caldwell	55.633	East	Right	12.00	6.00	8.00
Caldwell	55.743	East	Right	12.00	6.00	8.00
Caldwell	55.794	East	Right	12.00	6.00	8.00
Caldwell	55.794	East	Right	12.00	6.00	8.00
Caldwell	55.797	East	Right	12.00	6.00	8.00
Caldwell	55.804	East	Right	12.00	6.00	8.00
Caldwell	55.805	East	Right	12.00	48.00	64.00
Caldwell	55.807	East	Right	12.00	6.00	8.00
Caldwell	55.819	East	Right	12.00	66.00	88.00
Caldwell	55.827	East	Right	12.00	6.00	8.00
Caldwell	55.845	East	Right	12.00	44.00	58.67
Caldwell	55.892	East	Right	12.00	6.00	8.00
Caldwell	55.977	East	Right	12.00	6.00	8.00
Caldwell	55.979	East	Right	12.00	6.00	8.00
Caldwell	56.000	East	Right	12.00	6.00	8.00
Caldwell	56.005	East	Right	12.00	6.00	8.00
Caldwell	56.341	East	Right	12.00	6.00	8.00
Caldwell	56.365	East	Right	12.00	6.00	8.00
Caldwell	56.389	East	Right	12.00	6.00	8.00
Caldwell	56.415	East	Both	24.00	38.00	101.33
Caldwell	56.469	East	Right	12.00	6.00	8.00
Caldwell	56.486	East	Right	12.00	6.00	8.00
Caldwell	56.571	East	Right	12.00	6.00	8.00

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Caldwell	56.594	East	Right	12.00	40.00	53.33
Caldwell	56.616	East	Right	12.00	6.00	8.00
Caldwell	56.644	East	Right	12.00	6.00	8.00
Caldwell	56.853	East	Right	12.00	6.00	8.00
Caldwell	56.910	East	Right	12.00	18.00	24.00
Caldwell	56.964	East	Right	12.00	36.00	48.00
Caldwell	57.152	East	Both	24.00	26.00	69.33
Trigg	57.629	East	Right	12.00	6.00	8.00
Trigg	57.800	East	Right	12.00	6.00	8.00
Trigg	57.802	East	Right	12.00	6.00	8.00
Trigg	58.170	East	Right	12.00	6.00	8.00
Trigg	58.222	East	Right	12.00	6.00	8.00
Trigg	58.229	East	Right	12.00	18.00	24.00
Trigg	58.229	East	Right	12.00	6.00	8.00
Trigg	58.234	East	Right	12.00	6.00	8.00
Trigg	58.246	East	Right	12.00	12.00	16.00
Trigg	58.250	East	Right	12.00	8.00	10.67
Trigg	58.274	East	Both	24.00	24.00	64.00
Trigg	58.768	East	Right	12.00	21.00	28.00
Trigg	59.358	East	Right	12.00	21.00	28.00
Trigg	59.385	East	Right	12.00	21.00	28.00
Trigg	59.397	East	Right	12.00	15.00	20.00
Trigg	59.535	East	Right	12.00	6.00	8.00
Trigg	59.554	East	Right	12.00	8.00	10.67
Trigg	59.588	East	Right	12.00	9.00	12.00
Trigg	59.610	East	Right	12.00	15.00	20.00
Trigg	59.881	East	Right	12.00	557.00	742.67
Trigg	59.943	East	Right	12.00	30.00	40.00
Trigg	60.065	East	Right	12.00	6.00	8.00
Trigg	60.111	East	Right	12.00	6.00	8.00
Trigg	60.245	East	Right	12.00	40.00	53.33
Trigg	60.603	East	Right	12.00	18.00	24.00
Trigg	60.977	East	Right	12.00	15.00	20.00
Trigg	60.999	East	Right	12.00	6.00	8.00
Trigg	61.046	East	Right	12.00	6.00	8.00
Trigg	61.097	East	Right	12.00	6.00	8.00
Trigg	61.124	East	Right	12.00	6.00	8.00
Trigg	61.174	East	Right	12.00	6.00	8.00
Trigg	61.196	East	Right	12.00	6.00	8.00
Trigg	61.295	East	Right	12.00	6.00	8.00
Trigg	61.355	East	Right	12.00	6.00	8.00
Trigg	61.386	East	Right	12.00	6.00	8.00
Trigg	61.542	East	Right	12.00	6.00	8.00
Trigg	61.718	East	Right	12.00	21.00	28.00
Trigg	61.850	East	Right	12.00	18.00	24.00



<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Trigg	61.939	East	Right	12.00	6.00	8.00
Trigg	61.941	East	Right	12.00	6.00	8.00
Trigg	62.021	East	Right	12.00	6.00	8.00
Trigg	62.071	East	Right	12.00	6.00	8.00
Trigg	62.086	East	Right	12.00	6.00	8.00
Trigg	62.090	East	Both	24.00	6.00	16.00
Trigg	62.313	East	Both	24.00	6.00	16.00
Trigg	62.319	East	Right	12.00	64.00	85.33
Trigg	62.322	East	Right	12.00	33.00	44.00
Trigg	62.340	East	Right	12.00	6.00	8.00
Trigg	62.346	East	Both	24.00	18.00	48.00
Trigg	62.362	East	Right	12.00	32.00	42.67
Trigg	62.399	East	Right	12.00	12.00	16.00
Trigg	62.408	East	Right	12.00	6.00	8.00
Trigg	62.411	East	Both	24.00	6.00	16.00
Trigg	62.426	East	Right	12.00	35.00	46.67
Trigg	62.437	East	Right	12.00	52.00	69.33
Trigg	62.439	East	Right	12.00	6.00	8.00
Trigg	62.445	East	Both	24.00	40.00	106.67
Trigg	62.459	East	Right	12.00	6.00	8.00
Trigg	62.471	East	Right	12.00	15.00	20.00
Trigg	62.478	East	Right	12.00	50.00	66.67
Trigg	62.478	East	Right	12.00	33.00	44.00
Trigg	62.493	East	Both	24.00	30.00	80.00
Trigg	62.499	East	Right	12.00	6.00	8.00
Trigg	62.507	East	Right	12.00	43.00	57.33
Trigg	62.510	East	Right	12.00	66.00	88.00
Trigg	62.552	East	Right	12.00	18.00	24.00
Trigg	62.561	East	Right	12.00	6.00	8.00
Trigg	62.583	East	Right	12.00	82.00	109.33
Trigg	62.586	East	Right	12.00	15.00	20.00
Trigg	62.604	East	Right	12.00	42.00	56.00
Trigg	62.615	East	Right	12.00	6.00	8.00
Trigg	62.616	East	Right	12.00	6.00	8.00
Trigg	62.619	East	Right	12.00	6.00	8.00
Trigg	62.625	East	Right	12.00	18.00	24.00
Trigg	62.635	East	Right	12.00	75.00	100.00
Trigg	62.648	East	Right	12.00	6.00	8.00
Trigg	62.670	East	Right	12.00	6.00	8.00
Trigg	62.680	East	Right	12.00	6.00	8.00
Trigg	62.697	East	Right	12.00	6.00	8.00
Trigg	62.701	East	Right	12.00	18.00	24.00
Trigg	62.721	East	Right	12.00	6.00	8.00
Trigg	63.099	East	Right	12.00	8.00	10.67
Trigg	63.099	East	Right	12.00	18.00	24.00

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Trigg	63.109	East	Right	12.00	8.00	10.67
Trigg	63.109	East	Right	12.00	6.00	8.00
Trigg	63.116	East	Right	12.00	15.00	20.00
Trigg	63.136	East	Right	12.00	6.00	8.00
Trigg	63.141	East	Right	12.00	15.00	20.00
Trigg	63.145	East	Right	12.00	6.00	8.00
Trigg	63.149	East	Right	12.00	6.00	8.00
Trigg	63.150	East	Right	12.00	6.00	8.00
Trigg	63.159	East	Right	12.00	15.00	20.00
Trigg	63.181	East	Right	12.00	6.00	8.00
Trigg	63.186	East	Right	12.00	6.00	8.00
Trigg	63.194	East	Right	12.00	6.00	8.00
Trigg	63.205	East	Both	24.00	6.00	16.00
Trigg	63.208	East	Right	12.00	6.00	8.00
Trigg	63.225	East	Right	12.00	6.00	8.00
Trigg	63.289	East	Right	12.00	12.00	16.00
Trigg	63.321	East	Right	12.00	6.00	8.00
Trigg	63.344	East	Both	24.00	6.00	16.00
Trigg	63.411	East	Both	24.00	6.00	16.00
Trigg	63.449	East	Right	12.00	6.00	8.00
Trigg	63.463	East	Right	12.00	6.00	8.00
Trigg	63.471	East	Right	12.00	6.00	8.00
Trigg	63.481	East	Right	12.00	6.00	8.00
Trigg	63.544	East	Both	24.00	6.00	16.00
Trigg	63.654	East	Right	12.00	6.00	8.00
Trigg	64.011	East	Right	12.00	6.00	8.00
Trigg	64.071	East	Both	24.00	6.00	16.00
Trigg	64.073	East	Both	24.00	6.00	16.00
Trigg	64.076	East	Both	24.00	6.00	16.00
Trigg	64.087	East	Right	12.00	6.00	8.00
Trigg	64.105	East	Right	12.00	6.00	8.00
Trigg	64.334	East	Right	12.00	15.00	20.00
Trigg	64.338	East	Right	12.00	15.00	20.00
Trigg	64.339	East	Right	12.00	6.00	8.00
Trigg	64.385	East	Right	12.00	18.00	24.00
Trigg	64.616	East	Both	24.00	6.00	16.00
Trigg	64.769	East	Right	12.00	6.00	8.00
Trigg	64.772	East	Right	12.00	6.00	8.00
Trigg	64.782	East	Right	12.00	6.00	8.00
Trigg	64.846	East	Both	24.00	6.00	16.00
Trigg	64.853	East	Both	24.00	6.00	16.00
Trigg	64.888	East	Both	24.00	6.00	16.00
Trigg	64.897	East	Right	12.00	6.00	8.00
Trigg	64.906	East	Right	12.00	6.00	8.00
Trigg	64.957	East	Both	24.00	6.00	16.00

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Trigg	65.017	East	Both	24.00	6.00	16.00
Trigg	65.125	East	Both	24.00	6.00	16.00
Trigg	65.178	East	Right	12.00	24.00	32.00
Trigg	65.178	East	Right	12.00	6.00	8.00
Trigg	65.204	East	Both	24.00	6.00	16.00
Trigg	65.220	East	Both	24.00	6.00	16.00
Trigg	65.222	East	Right	12.00	6.00	8.00
Trigg	65.237	East	Right	12.00	6.00	8.00
Trigg	65.301	East	Right	12.00	6.00	8.00
Trigg	65.309	East	Right	12.00	6.00	8.00
Trigg	65.311	East	Right	12.00	6.00	8.00
Trigg	65.319	East	Right	12.00	6.00	8.00
Trigg	65.325	East	Right	12.00	6.00	8.00
Trigg	65.353	East	Both	24.00	6.00	16.00
Trigg	65.370	East	Both	24.00	6.00	16.00
Trigg	65.387	East	Both	24.00	6.00	16.00
Trigg	65.389	East	Right	12.00	6.00	8.00
Trigg	65.406	East	Both	24.00	6.00	16.00
Trigg	65.412	East	Right	12.00	6.00	8.00
Trigg	65.414	East	Both	24.00	8.00	21.33
Trigg	65.473	East	Both	24.00	6.00	16.00
Trigg	65.498	East	Both	24.00	6.00	16.00
Trigg	65.520	East	Both	24.00	6.00	16.00
Trigg	65.537	East	Both	24.00	6.00	16.00
Trigg	65.538	East	Right	12.00	6.00	8.00
Trigg	65.543	East	Both	24.00	6.00	16.00
Trigg	65.551	East	Both	24.00	6.00	16.00
Trigg	65.614	East	Both	24.00	6.00	16.00
Trigg	65.623	East	Both	24.00	6.00	16.00
Trigg	65.625	East	Both	24.00	6.00	16.00
Trigg	65.633	East	Both	24.00	6.00	16.00
Trigg	65.695	East	Both	24.00	6.00	16.00
Trigg	65.719	East	Both	24.00	6.00	16.00
Trigg	65.763	East	Right	12.00	6.00	8.00
Trigg	65.891	East	Right	12.00	6.00	8.00
Trigg	65.892	East	Right	12.00	6.00	8.00
Trigg	65.921	East	Right	12.00	6.00	8.00
Trigg	65.926	East	Right	12.00	6.00	8.00
Trigg	65.926	East	Right	12.00	6.00	8.00
Trigg	65.929	East	Right	12.00	6.00	8.00
Trigg	65.929	East	Right	12.00	6.00	8.00
Trigg	65.947	East	Right	12.00	6.00	8.00
Trigg	66.191	East	Right	12.00	6.00	8.00
Trigg	66.196	East	Right	12.00	21.00	28.00
Trigg	66.200	East	Right	12.00	6.00	8.00

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Trigg	66.209	East	Right	12.00	6.00	8.00
Trigg	66.228	East	Right	12.00	18.00	24.00
Trigg	66.232	East	Right	12.00	150.00	200.00
Trigg	66.276	East	Right	12.00	18.00	24.00
Trigg	66.290	East	Both	24.00	6.00	16.00
Trigg	66.300	East	Right	12.00	6.00	8.00
Trigg	66.307	East	Both	24.00	6.00	16.00
Trigg	66.322	East	Right	12.00	250.00	333.33
Trigg	66.910	East	Both	24.00	18.00	48.00
<b>EASTBOUND TOTAL</b>						<b>5,754.67</b>

**WESTBOUND PAVEMENT REPAIR AREAS**

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Lyon	45.410	West	Right	12.00	24.00	32.00
Lyon	45.693	West	Right	12.00	135.00	180.00
Lyon	46.105	West	Right	12.00	15.00	20.00
Lyon	46.440	West	Right	12.00	22.00	29.33
Lyon	47.082	West	Right	12.00	26.00	34.67
Lyon	47.281	West	Right	12.00	160.00	213.33
Lyon	47.416	West	Right	12.00	23.00	30.67
Lyon	47.539	West	Right	12.00	34.00	45.33
Lyon	47.901	West	Right	12.00	23.00	30.67
Lyon	49.146	West	Right	12.00	24.00	32.00
Lyon	49.374	West	Right	12.00	102.00	136.00
Lyon	49.439	West	Right	12.00	24.00	32.00
Lyon	49.621	West	Right	12.00	14.00	18.67
Lyon	50.611	West	Right	12.00	17.00	22.67
Lyon	51.000	West	Right	12.00	16.00	21.33
Lyon	52.585	West	Right	12.00	18.00	24.00
Lyon	53.987	West	Right	12.00	30.00	40.00
Lyon	54.013	West	Right	12.00	30.00	40.00
Lyon	54.464	West	Right	12.00	34.00	45.33
Lyon	54.594	West	Right	12.00	57.00	76.00
Lyon	54.688	West	Right	12.00	30.00	40.00
Lyon	54.702	West	Right	12.00	26.00	34.67
Caldwell	54.887	West	Right	12.00	27.00	36.00
Caldwell	55.133	West	Right	12.00	73.00	97.33
Caldwell	55.333	West	Right	12.00	25.00	33.33
Caldwell	55.425	West	Right	12.00	21.00	28.00
Caldwell	55.526	West	Right	12.00	14.00	18.67
Caldwell	55.542	West	Right	12.00	35.00	46.67
Caldwell	55.582	West	Right	12.00	6.00	8.00
Caldwell	55.801	West	Right	12.00	28.00	37.33
Caldwell	55.875	West	Right	12.00	40.00	53.33
Caldwell	55.875	West	Right	12.00	155.00	206.67
Caldwell	55.987	West	Right	12.00	21.00	28.00
Caldwell	56.401	West	Right	12.00	6.00	8.00
Caldwell	56.425	West	Both	24.00	44.00	117.33
Caldwell	56.558	West	Right	12.00	6.00	8.00
Caldwell	56.622	West	Right	12.00	6.00	8.00
Caldwell	56.662	West	Right	12.00	6.00	8.00
Caldwell	56.668	West	Right	12.00	6.00	8.00
Caldwell	56.672	West	Right	12.00	6.00	8.00
Caldwell	56.673	West	Right	12.00	6.00	8.00
Caldwell	56.678	West	Right	12.00	15.00	20.00
Caldwell	56.686	West	Right	12.00	6.00	8.00
Caldwell	56.705	West	Right	12.00	27.00	36.00
Caldwell	56.748	West	Right	12.00	6.00	8.00
Caldwell	56.750	West	Both	24.00	6.00	16.00

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Caldwell	56.812	West	Right	12.00	35.00	46.67
Caldwell	57.114	West	Both	24.00	21.00	56.00
Trigg	60.593	West	Right	12.00	22.00	29.33
Trigg	60.702	West	Right	12.00	30.00	40.00
Trigg	60.714	West	Right	12.00	6.00	8.00
Trigg	60.716	West	Right	12.00	68.00	90.67
Trigg	60.721	West	Right	12.00	12.00	16.00
Trigg	60.732	West	Right	12.00	6.00	8.00
Trigg	60.761	West	Right	12.00	16.00	21.33
Trigg	60.778	West	Both	24.00	6.00	16.00
Trigg	60.790	West	Right	12.00	18.00	24.00
Trigg	60.790	West	Right	12.00	18.00	24.00
Trigg	60.917	West	Right	12.00	6.00	8.00
Trigg	60.919	West	Right	12.00	6.00	8.00
Trigg	60.922	West	Right	12.00	6.00	8.00
Trigg	60.927	West	Right	12.00	6.00	8.00
Trigg	60.953	West	Right	12.00	37.00	49.33
Trigg	60.997	West	Both	24.00	8.00	21.33
Trigg	61.024	West	Right	12.00	45.00	60.00
Trigg	61.031	West	Right	12.00	12.00	16.00
Trigg	61.039	West	Right	12.00	8.00	10.67
Trigg	61.059	West	Right	12.00	40.00	53.33
Trigg	61.085	West	Both	24.00	130.00	346.67
Trigg	61.157	West	Right	12.00	30.00	40.00
Trigg	61.198	West	Right	12.00	12.00	16.00
Trigg	61.414	West	Right	12.00	6.00	8.00
Trigg	61.440	West	Right	12.00	6.00	8.00
Trigg	61.448	West	Right	12.00	12.00	16.00
Trigg	61.482	West	Both	24.00	6.00	16.00
Trigg	61.538	West	Right	12.00	20.00	26.67
Trigg	61.543	West	Right	12.00	12.00	16.00
Trigg	61.577	West	Right	12.00	6.00	8.00
Trigg	61.622	West	Right	12.00	6.00	8.00
Trigg	61.635	West	Right	12.00	6.00	8.00
Trigg	61.639	West	Right	12.00	6.00	8.00
Trigg	61.716	West	Right	12.00	6.00	8.00
Trigg	61.716	West	Right	12.00	12.00	16.00
Trigg	61.760	West	Right	12.00	6.00	8.00
Trigg	61.804	West	Right	12.00	12.00	16.00
Trigg	61.822	West	Right	12.00	6.00	8.00
Trigg	61.874	West	Right	12.00	14.00	18.67
Trigg	61.885	West	Right	12.00	18.00	24.00
Trigg	64.264	West	Right	12.00	6.00	8.00
Trigg	65.186	West	Right	12.00	6.00	8.00
Trigg	65.220	West	Right	12.00	6.00	8.00
Trigg	65.230	West	Right	12.00	6.00	8.00

County	MM	Direction	Lane	Width in Ft.	Lenth in FT.	SQ. YDS.
Trigg	65.296	West	Right	12.00	6.00	8.00
Trigg	65.314	West	Right	12.00	6.00	8.00
Trigg	65.376	West	Right	12.00	6.00	8.00
Trigg	65.443	West	Right	12.00	6.00	8.00
Trigg	65.456	West	Both	24.00	6.00	16.00
Trigg	65.457	West	Both	24.00	6.00	16.00
Trigg	65.463	West	Right	12.00	6.00	8.00
Trigg	65.483	West	Right	12.00	14.00	18.67
Trigg	65.487	West	Right	12.00	12.00	16.00
Trigg	65.494	West	Both	24.00	6.00	16.00
Trigg	65.506	West	Right	12.00	31.00	41.33
Trigg	65.507	West	Right	12.00	6.00	8.00
Trigg	65.525	West	Right	12.00	6.00	8.00
Trigg	65.546	West	Right	12.00	18.00	24.00
Trigg	65.555	West	Right	12.00	6.00	8.00
Trigg	65.652	West	Right	12.00	6.00	8.00
Trigg	65.863	West	Right	12.00	6.00	8.00
Trigg	65.869	West	Right	12.00	6.00	8.00
Trigg	65.880	West	Right	12.00	30.00	40.00
Trigg	66.227	West	Both	24.00	6.00	16.00
Trigg	66.237	West	Right	12.00	12.00	16.00
Trigg	66.950	West	Right	12.00	6.00	8.00
Trigg	67.037	West	Right	12.00	66.00	88.00
Trigg	67.037	West	Right	12.00	14.00	18.67
Trigg	67.119	West	Right	12.00	36.00	48.00
Trigg	67.186	West	Right	12.00	6.00	8.00
Trigg	67.188	West	Right	12.00	6.00	8.00
Trigg	67.196	West	Right	12.00	6.00	8.00
Trigg	67.214	West	Right	12.00	6.00	8.00
Trigg	67.215	West	Right	12.00	6.00	8.00
Trigg	67.221	West	Right	12.00	6.00	8.00
Trigg	67.235	West	Right	12.00	39.00	52.00
Trigg	67.285	West	Right	12.00	43.00	57.33
Trigg	67.285	West	Right	12.00	21.00	28.00
Trigg	67.344	West	Right	12.00	6.00	8.00
Trigg	67.411	West	Right	12.00	15.00	20.00
Trigg	67.455	West	Right	12.00	6.00	8.00
Trigg	67.466	West	Both	24.00	15.00	40.00
Trigg	67.471	West	Right	12.00	6.00	8.00
Trigg	67.514	West	Right	12.00	6.00	8.00
Trigg	67.523	West	Right	12.00	6.00	8.00
Trigg	67.523	West	Right	12.00	18.00	24.00
Trigg	67.538	West	Right	12.00	18.00	24.00
Trigg	67.544	West	Both	24.00	6.00	16.00
Trigg	67.570	West	Right	12.00	6.00	8.00
Trigg	67.575	West	Both	24.00	18.00	48.00

County	MM	Direction	Lane	Width in Ft.	Lenth in FT.	SQ. YDS.
Trigg	67.583	West	Both	24.00	6.00	16.00
Trigg	67.590	West	Right	12.00	6.00	8.00
Trigg	67.600	West	Right	12.00	18.00	24.00
Trigg	67.682	West	Both	24.00	33.00	88.00
Trigg	67.691	West	Right	12.00	21.00	28.00
Trigg	67.725	West	Both	24.00	6.00	16.00
Trigg	67.749	West	Right	12.00	6.00	8.00
Trigg	67.771	West	Right	12.00	6.00	8.00
Trigg	67.771	West	Right	12.00	18.00	24.00
Trigg	67.794	West	Right	12.00	6.00	8.00
Trigg	67.802	West	Both	24.00	6.00	16.00
Trigg	67.830	West	Right	12.00	23.00	30.67
Trigg	68.012	West	Right	12.00	15.00	20.00
Trigg	68.044	West	Right	12.00	15.00	20.00
Trigg	68.206	West	Both	24.00	6.00	16.00
Trigg	68.251	West	Right	12.00	18.00	24.00
Trigg	68.313	West	Right	12.00	18.00	24.00
Trigg	68.330	West	Right	12.00	6.00	8.00
Trigg	68.352	West	Right	12.00	6.00	8.00
Trigg	68.359	West	Right	12.00	6.00	8.00
Trigg	68.375	West	Right	12.00	33.00	44.00
Trigg	68.375	West	Right	12.00	6.00	8.00
Trigg	68.383	West	Right	12.00	6.00	8.00
Trigg	68.409	West	Right	12.00	18.00	24.00
Trigg	68.490	West	Both	24.00	6.00	16.00
Trigg	68.529	West	Both	24.00	18.00	48.00
Trigg	68.538	West	Right	12.00	6.00	8.00
Trigg	68.545	West	Right	12.00	6.00	8.00
Trigg	68.601	West	Right	12.00	30.00	40.00
Trigg	68.606	West	Right	12.00	6.00	8.00
Trigg	68.607	West	Both	24.00	6.00	16.00
Trigg	68.661	West	Right	12.00	29.00	38.67
Trigg	68.662	West	Both	24.00	101.00	269.33
Trigg	68.663	West	Both	24.00	15.00	40.00
Trigg	68.665	West	Both	24.00	6.00	16.00
Trigg	68.667	West	Both	24.00	6.00	16.00
Trigg	68.672	West	Both	24.00	6.00	16.00
Trigg	68.743	West	Right	12.00	6.00	8.00
Trigg	68.760	West	Right	12.00	35.00	46.67
Trigg	68.760	West	Right	12.00	21.00	28.00
Trigg	68.787	West	Both	24.00	6.00	16.00
Trigg	68.821	West	Right	12.00	6.00	8.00
Trigg	68.832	West	Both	24.00	6.00	16.00
Trigg	68.837	West	Right	12.00	6.00	8.00
Trigg	68.839	West	Right	12.00	6.00	8.00
Trigg	68.845	West	Both	24.00	6.00	16.00



**WESTBOUND PAVEMENT REPAIR AREAS**

<b>County</b>	<b>MM</b>	<b>Direction</b>	<b>Lane</b>	<b>Width in Ft.</b>	<b>Lenth in FT.</b>	<b>SQ. YDS.</b>
Trigg	68.862	West	Right	12.00	6.00	8.00
Trigg	68.890	West	Both	24.00	6.00	16.00
Trigg	68.892	West	Right	12.00	6.00	8.00
Trigg	68.908	West	Right	12.00	23.00	30.67
Trigg	68.953	West	Right	12.00	6.00	8.00
Trigg	68.953	West	Right	12.00	25.00	33.33
Trigg	68.964	West	Right	12.00	6.00	8.00
Trigg	68.972	West	Both	24.00	6.00	16.00
Trigg	68.977	West	Right	12.00	6.00	8.00
Trigg	68.999	West	Right	12.00	6.00	8.00
Trigg	69.029	West	Right	12.00	6.00	8.00
Trigg	69.046	West	Right	12.00	6.00	8.00
Trigg	69.056	West	Right	12.00	6.00	8.00
Trigg	69.059	West	Right	12.00	6.00	8.00
Trigg	69.088	West	Right	12.00	6.00	8.00
Trigg	69.092	West	Right	12.00	6.00	8.00
Trigg	69.117	West	Both	24.00	6.00	16.00
Trigg	69.129	West	Right	12.00	6.00	8.00
Trigg	69.139	West	Right	12.00	6.00	8.00
Trigg	69.228	West	Right	12.00	6.00	8.00
Trigg	69.349	West	Right	12.00	6.00	8.00
Trigg	69.403	West	Right	12.00	6.00	8.00
Trigg	69.406	West	Right	12.00	6.00	8.00
Trigg	69.431	West	Right	12.00	6.00	8.00
Trigg	69.483	West	Both	24.00	22.00	58.67
Trigg	69.554	West	Right	12.00	6.00	8.00
Trigg	69.558	West	Right	12.00	6.00	8.00
Trigg	69.566	West	Right	12.00	6.00	8.00
Trigg	69.604	West	Right	12.00	25.00	33.33
Trigg	69.611	West	Both	24.00	6.00	16.00
Trigg	69.621	West	Right	12.00	6.00	8.00
Trigg	69.634	West	Both	24.00	6.00	16.00
Trigg	69.644	West	Both	24.00	6.00	16.00
Trigg	69.750	West	Right	12.00	6.00	8.00
Trigg	69.809	West	Right	12.00	22.00	29.33
<b>WESTBOUND TOTAL</b>						<b>5,842.67</b>

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### **SPECIAL NOTE FOR FULL DEPTH CONCRETE PAVEMENT REPAIR**

This Special Note applies to full depth repairs of concrete pavement. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** Remove and replace concrete pavement. Comply with the applicable Standard Drawings and the Standard Specifications except as specifically superseded herein.

#### **2.0 MATERIALS AND EQUIPMENT.**

**2.1 JPC Pavement.** Test concrete materials according to section 601.03.03. Conform to 501, 502, and 601 except that the concrete must achieve 3000 psi in accordance with Section 4.4 of this note. The Engineer may allow pavement to be opened to traffic at less than 3,000 psi subject to the deductions described in Section 4.4 of this note.

**2.2 Dowel Bars and Sleeves.** Conform to 811.

**2.3 Tie Bars.** Conform to Section 811. Use epoxy coated tie bars in longitudinal and transverse joints.

**2.4 Joint Sealants.** Conform to Subsection 807.03.01 or 807.03.05.

**2.5 Grout Adhesives and Epoxy Resin Systems.** Conform to Section 826.

**2.6 Dense Graded Aggregate (DGA) and Crushed Stone Base (CSB).** Conform to Section 805.

**2.7 Geotextile Fabric.** Conform to Section 843.

**2.8 Drills.** Drill holes using a gang drill, capable of drilling a minimum of four simultaneously. Misalignment of holes shall not exceed 1/4 inch in the vertical or oblique plane.

**2.9 Hammers.** Only use chisel point hammers weighing less than 40 pounds to remove deteriorated concrete.

#### **3.0 CONSTRUCTION.**

**3.1 Removal of Existing Pavement.** Remove existing pavement to the extent the Contract specifies or as the Engineer directs. The minimum length of patches measured along centerline is 3 feet on each side of an existing joint.

When working with pavements with non-skewed transverse joints, if it is necessary to remove existing pavement closer than 6 feet to a transverse joint, remove the pavement 3 feet beyond that joint .

When working with pavements with skewed transverse joints, if it is necessary to remove existing pavement closer than 3 feet to a transverse joint, remove the pavement 3 feet beyond that joint.

Details of configurations of pavement and joints for various situations are depicted in the drawings herein.

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When small areas of removal and replacement are performed at bridge ends, maintain or reconstruct existing expansion joints at their existing location. When the Engineer determines extensive full width removal and replacement is required, construct new expansion joints at the locations shown on Standard Drawing No. RPN-010.

In the removal operation, make a full depth saw cut longitudinally along the centerline joint and shoulder joint and transversely along the area marked for removal. To prevent damage to the subbase, do not allow the saw to penetrate more than ½" into the subbase. The Engineer may direct or approve additional cuts within the removal area for ease of removal of the damaged slab and to prevent damage to adjacent pavement to remain in place. Do not overcut beyond the limits of the removal area. Prevent saw slurry from entering existing joints and cracks. To avoid pumping and erosion beneath the slab, do not allow traffic on sawed pavement for more than 48 hours before beginning removal procedures, unless directed by the Engineer.

Lift out the deteriorated concrete vertically with lift pins. If approved by the Engineer, use other methods that do not damage the base, shoulder, or sides of pavement that is to be left in place. If any damage does occur, repair as the Engineer directs and use an acceptable alternative method for the removal process. Do not damage the pavement base during these operations.

**3.2 Pavement Replacement.** Do not damage the pavement base during these operations.

**3.2.1 Preparation of Base.** Compact the new and existing aggregate base to the Engineer's satisfaction. The Engineer will accept compaction by either visual inspection or by nuclear gauge. When the Engineer deems it necessary to stabilize the existing base or replace unsuitable materials, excluding bridge ends, use 12 inches of geotextile fabric wrapped No. 2 aggregate topped with 4 inches of DGA or CSB. Use either Type III or Type IV geotextile fabric. Flowable fill and cement stabilization may be used as an alternative to stabilize the existing base or to replace unsuitable materials when a plan for such is presented to and approved by the Engineer. The Engineer may also direct using only DGA or CSB to correct base deficiencies. At bridge ends, treat existing base and subgrade as the Contract specifies. During compaction, wet the base as the Engineer directs. Compact areas not accessible to compaction equipment by hand tamping.

**3.2.2 Underdrains.** Construct, or repair damage to, pavement edge drains according to Section 704. If underdrains are placed omitting areas to be patched, construct additional lateral drains as necessary to provide outlets for the installed underdrain until performing the pavement replacement and completing the underdrain system. Provide drainage for any undercut or base repair areas.

**3.2.3 Pavement Replacement.** Using load transfer assemblies for dowel joints drill into the existing slab according to the details shown herein and on the Standard Drawings.

Use plain epoxy coated dowels of the size specified on the standard drawings based on the pavement thickness for contraction and expansion joints.

Drill holes for dowel bars and tie bars into the face of the existing slab, at a diameter as specified in the following. Drill the dowel bar holes and tie bar

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holes to a depth equal to 1/2 the length of the bars. Anchor tie bars into the existing pavement using an epoxy resin. Anchor dowel bars into the existing pavement using either an epoxy resin or an adhesive grout. For tie bars and dowel bars where an epoxy resin is to be used drill the holes 1/8 inch larger than the bar diameter. For dowel bars where an adhesive grout product is to be used, drill holes 1/4 inch larger than the bar diameter. Use a clear or opaque grout retention disk in both grout and epoxy applications. Operate the equipment to prevent damage to the pavement being drilled. Obtain the Engineer's approval of the drilling procedure. Install load transfer assemblies according to the Standard Drawings and Standard Specifications.

When indicated herein or in the Standard Drawings, use 1 inch deformed tie bars, 18 inches long on 30-inch centers and starting and ending 20 inches inside the edges of the repair area in the longitudinal joint. Use 1 inch deformed tie bars, or plain epoxy coated dowel bars sized in accordance with the Standard Drawings, 18 inches long beginning 12 inches inside of each edge and on 12-inch centers in transverse construction joints.

Install the dowels and tie bars according to Section 511 unless contradicted here. Ensure the holes are dry and free of dust and debris. Use a nozzle to insert the grout or epoxy starting at the back of the drilled hole to allow for full coating of the dowel or tie bar. After placement, use a bond breaker on the section of the dowel bar that is protruding from the hole.

Mix, place, finish, and cure concrete according to Section 501 with the exception that the Department will allow truck mixing, 2-bag mixers, and hand finishing.

When required, use a form on the side of the slab at longitudinal joints. When the adjacent traffic lane is not closed to traffic or the drop-off is not protected, temporarily fill the space between the form and the adjacent pavement with DGA. After placing the slab, remove the DGA and form. Fill the hole with concrete and thoroughly consolidate by rodding, spading, and sufficient vibration to form a dense homogeneous mass. Use a form on the side of the slab adjacent to shoulders. Excavate and backfill as shown on Section F'-F'.

For patches less than 25 feet in length, use a bond breaker and do not install tie bars at the longitudinal joint. Bond breakers should not exceed 1/8 inch in thickness, e.g. tar paper.

When resurfacing is required, a float finish is satisfactory. Otherwise, broom finish or, when the adjacent surface has a grooved finish, texture the surface according to Subsection 501.03.13 H). Finish the surface, including joints, to meet a surface tolerance of 1/8 inch in 10 feet that will be verified by straightedge. Cure the pavement and apply curing membranes according to 501.03.15.

Keep all pavement surfaces adjacent to this operation reasonably clean of excess grout and other materials at all times. Maintain all original longitudinal joints. Place transverse joints according to the details shown herein and on the Standard Drawings.

**3.3 Joint Sealing.** Seal all new or partially new joints with silicone rubber sealant or hot-poured elastic joint sealant according to Subsection 501.03.18.

#### **4.0 MEASUREMENT.**

**4.1 Remove JPC Pavement.** The Department will measure the quantity in square yards of surface area. The Department will not measure removal of

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underlying base material for payment and will consider it incidental to Remove JPC Pavement.

**4.2 DGA or CSB.** The Department will measure the quantity used to stabilize the existing base or to replace unsuitable material in tons. The Department will not measure removal of existing base material or underlying material for payment and will consider incidental to DGA or CSB. The quantity of DGA used for the drop-off protection shall be incidental to this work and will not be measured for payment.

**4.3 JPC Pavement Non-Reinforced.** The Department will measure according to 501.04.01. The Department will not measure dowels, tie bars, or joint sealing for payment and will consider it incidental to Non-Reinforced JPC Pavement.

JPC Pavement will be paid according to section 5.0 below and according to the following payment schedule based on the compressive strength. The cylinders for payment will be tested two hours prior the scheduled opening of traffic.

3000 psi and up	100% payment
2750 to 3000 psi	75% payment and approval from the Engineer to open to traffic*
2500 to 2750 psi	50% payment and approval from the Engineer to open to traffic*
2250 to 2500 psi	25% payment and approval from the Engineer to open to traffic*
Below 2250 psi	10% payment and no potential to open to traffic. Maintain traffic closure until concrete reaches a minimum of 2250 psi.

\*If the Engineer approves opening to traffic, the Engineer will evaluate the concrete at 28 days (or sooner) to determine if the removal and replacement of the concrete is necessary due to pavement distress induced by the early opening (i.e. noticeable cracking). If required by the Engineer, remove and replace those slabs showing distress at no cost to the Department.

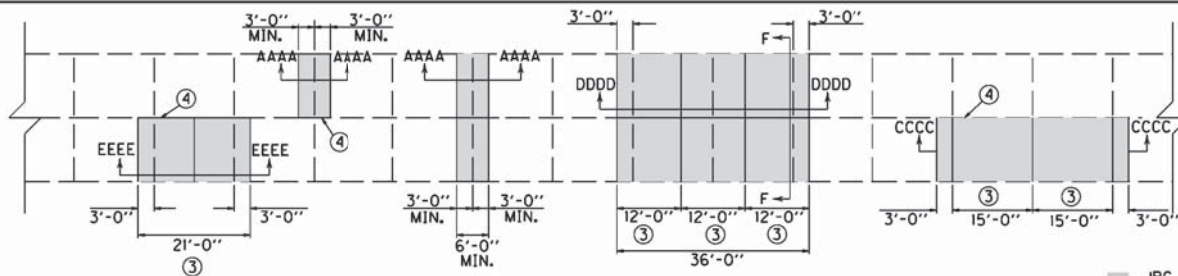
**4.4 Underdrains.** The Department will measure the quantity according to Subsection 704.04. The Department will not measure lateral drains for payment and will consider them incidental to the Underdrains.

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

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
----	Remove JPC Pavement	Square Yard
00001	DGA Base	Ton
00003	Crushed Stone Base	Ton
02069-02071, 02073, 02075, 02084, 02086, 02088	JPC Pavement Non-Reinforced, thickness	See Subsection 501.05
01000	Perforated Pipe, 4-inch	Linear Foot
02598, 02599	Fabric-Geotextile, Type	Square Yard

The Department will consider payment as full compensation for all work required in this provision.

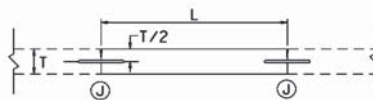
June 15, 2012



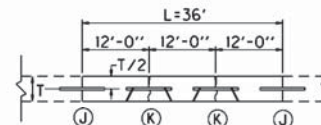
PLAN VIEW

■ JPC PAVEMENT TO BE REMOVED

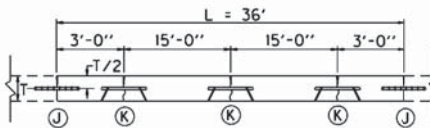
1. SAW AT LOCATIONS "J" AND ALONG LONGITUDINAL JOINT (IF ONLY ONE LANE IS REMOVED) FULL DEPTH WITHOUT DAMAGE TO EXISTING CONCRETE. SAW RELIEF JOINTS AS THE ENGINEER DIRECTS OR APPROVES. REMOVE THE EXISTING JPC PAVEMENT TO THE LENGTH AND AT THE LOCATIONS NOTED ELSEWHERE IN THE CONTRACT. L=6 FEET MINIMUM AND LOCATIONS "J" SHALL NOT BE CLOSER THAN 6 FEET TO ANY TRANSVERSE JOINT BEYOND THE REPAIR.
2. INSTALL SMOOTH, LOAD TRANSFER DOWELS (EXCEPT USE TIE BARS FOR SECTION CCCC), 18 INCHES LONG (SEE STANDARD DRAWING NO. RPS-020 FOR DOWEL SIZE) AT LOCATIONS "J". INSTALL DOWELS (OR TIE BARS FOR SECTION CCCC) IN THE EXISTING CONCRETE USING EPOXY TYPE IV. INSTALL DOWELS (OR TIE BARS FOR SECTION CCCC) ON 12 INCH CENTERS BEGINNING 12 INCHES FROM THE EDGE OF THE SLAB.
- ③ IF L IS GREATER THAN 20 FEET, INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND CONSTRUCT CONTRACTION JOINTS SUCH THAT THE DISTANCE BETWEEN JOINTS IN THE REPLACED SECTION IS NO LESS THAN 10 FEET OR MORE THAN 20 FEET. TRANSVERSE JOINTS SHALL BE SPACED APPROXIMATELY 15' EQUIDISTANT, BUT NOT LESS THAN 10 FEET OR NO MORE THAN 20 FEET. ADJUST JOINTS TO PROVIDE THE MINIMUM NUMBER OF JOINTS WITHOUT EXCEEDING THE 10-20 FOOT RANGE. INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND ALIGN LOAD TRANSFER ASSEMBLY(S) WITH AN EXISTING JOINT OR CRACK IN THE ADJACENT SLAB IF ONLY ONE LANE IS BEING REPLACED.
- ④ IF ONLY ONE LANE IS REMOVED, AND  $L > 25'$ , INSTALL NEW 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS IN THE LONGITUDINAL JOINT USING EPOXY TYPE IV. IF 2 OR MORE LANES ARE REMOVED, CONSTRUCT LONGITUDINAL JOINT(S) ACCORDING TO THE STANDARD DRAWING EXCEPT USE 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS. IF  $L \leq 25'$ , DO NOT TIE THE LONGITUDINAL JOINT TO THE EXISTING LANE; USE A BOND BREAKER MATERIAL APPROVED BY THE ENGINEER THAT WILL ASSURE NO INTERACTION WITH THE ADJACENT LANE.
5. REPLACE WITH NON-REINFORCED JPC PAVEMENT AND INSTALL CONTRACTION JOINTS AT LOCATIONS "K" AND CONTRACTION JOINTS (OR A CONSTRUCTION JOINT FOR LOCATION CCCC) AT LOCATIONS "J". SAW AND SEAL ALL JOINTS.
6. SEE "CROSS SECTION" FOR SECTION F.



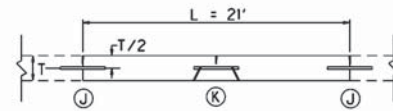
SECTION AAAA  
JOINT REPLACEMENT



SECTION DDDD  
FULL WIDTH REPLACEMENT  
(INCLUDING JPC SHOULDERS)

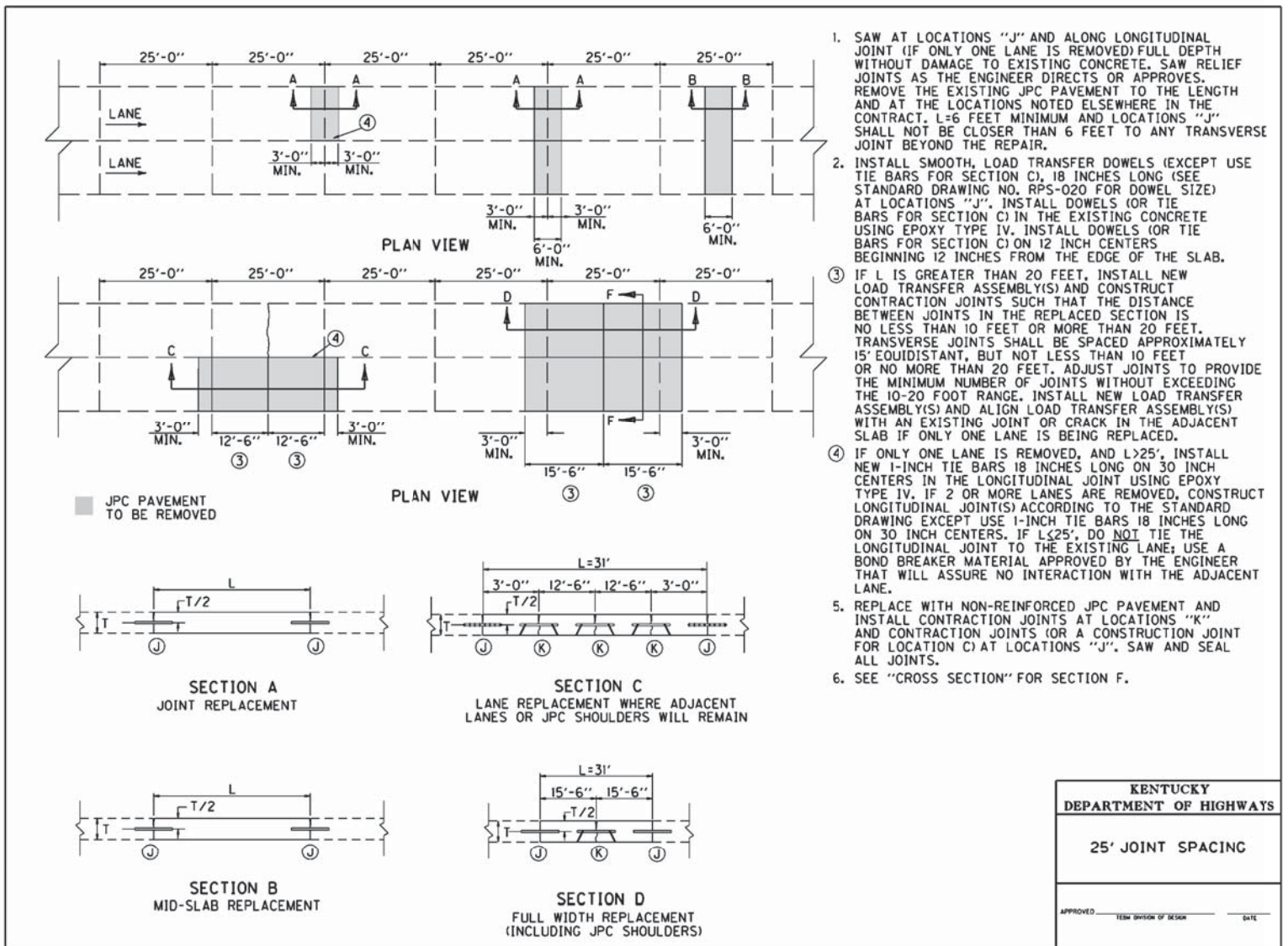


SECTION CCCC  
LANE REPLACEMENT WHERE ADJACENT  
LANES OR JPC SHOULDERS WILL REMAIN

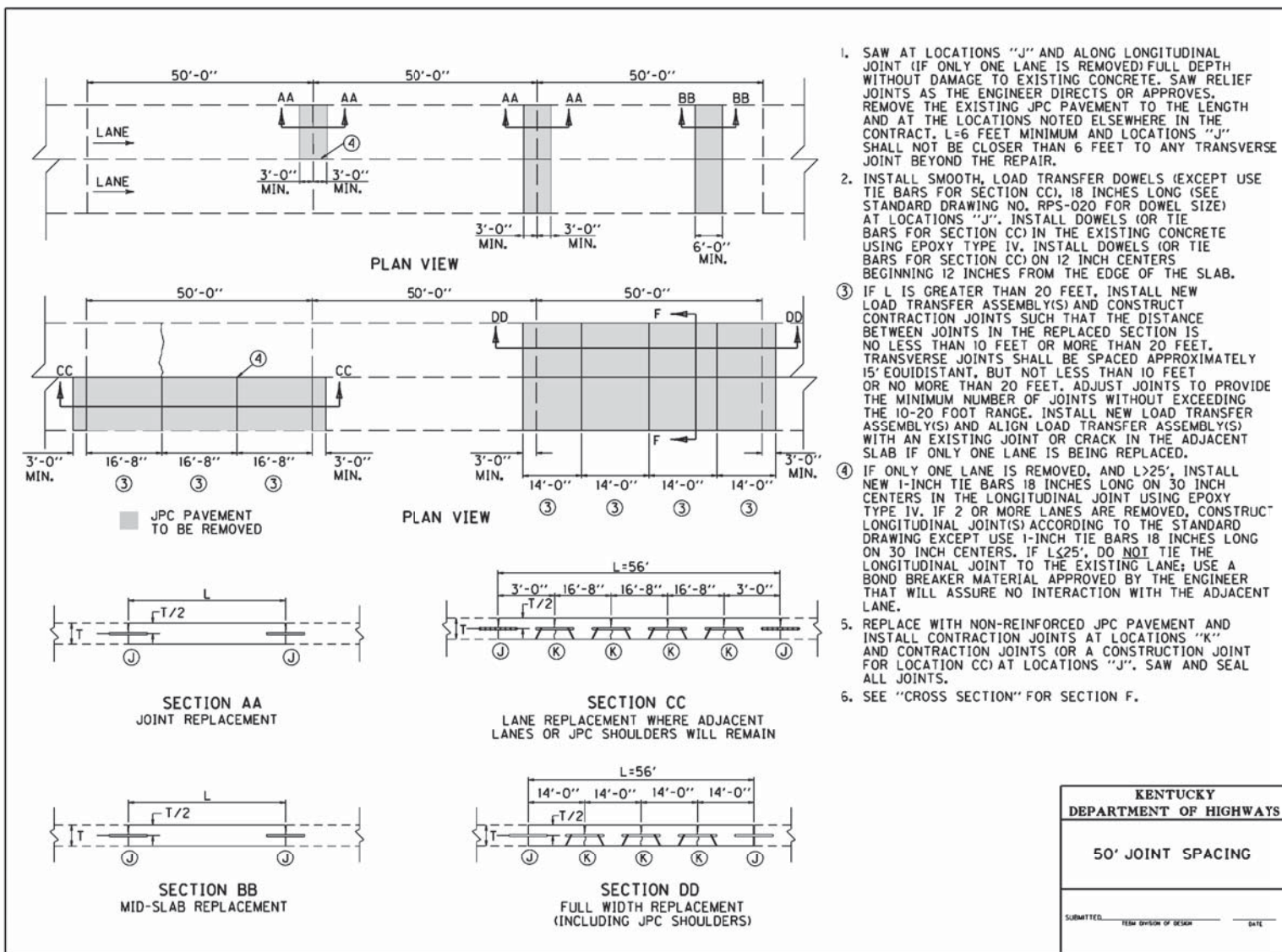


SECTION EEEE  
LANE REPLACEMENT  $L \leq 25'$

<b>KENTUCKY DEPARTMENT OF HIGHWAYS</b>
<b>15' JOINT SPACING</b>
APPROVED _____ TECH DIVISION OF DESIGN DATE _____

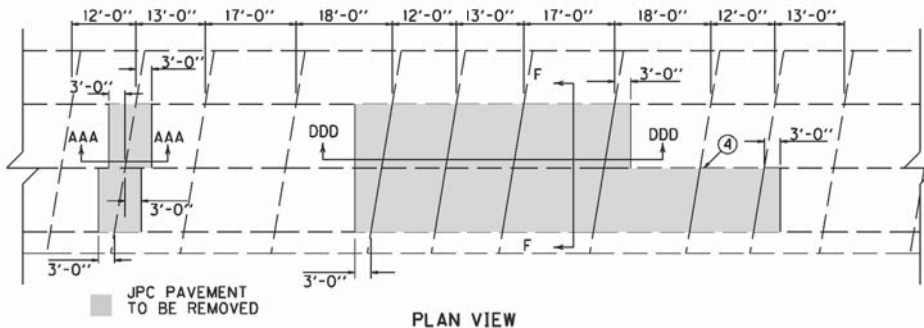


1. SAW AT LOCATIONS "J" AND ALONG LONGITUDINAL JOINT (IF ONLY ONE LANE IS REMOVED) FULL DEPTH WITHOUT DAMAGE TO EXISTING CONCRETE. SAW RELIEF JOINTS AS THE ENGINEER DIRECTS OR APPROVES. REMOVE THE EXISTING JPC PAVEMENT TO THE LENGTH AND AT THE LOCATIONS NOTED ELSEWHERE IN THE CONTRACT. L=6 FEET MINIMUM AND LOCATIONS "J" SHALL NOT BE CLOSER THAN 6 FEET TO ANY TRANSVERSE JOINT BEYOND THE REPAIR.
2. INSTALL SMOOTH, LOAD TRANSFER DOWELS (EXCEPT USE TIE BARS FOR SECTION C), 18 INCHES LONG (SEE STANDARD DRAWING NO. RPS-020 FOR DOWEL SIZE) AT LOCATIONS "J". INSTALL DOWELS (OR TIE BARS FOR SECTION C) IN THE EXISTING CONCRETE USING EPOXY TYPE IV. INSTALL DOWELS (OR TIE BARS FOR SECTION C) ON 12 INCH CENTERS, BEGINNING 12 INCHES FROM THE EDGE OF THE SLAB.
- ③ IF L IS GREATER THAN 20 FEET, INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND CONSTRUCT CONTRACTION JOINTS SUCH THAT THE DISTANCE BETWEEN JOINTS IN THE REPLACED SECTION IS NO LESS THAN 10 FEET OR MORE THAN 20 FEET. TRANSVERSE JOINTS SHALL BE SPACED APPROXIMATELY 15' EQUIDISTANT, BUT NOT LESS THAN 10 FEET OR NO MORE THAN 20 FEET. ADJUST JOINTS TO PROVIDE THE MINIMUM NUMBER OF JOINTS WITHOUT EXCEEDING THE 10-20 FOOT RANGE. INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND ALIGN LOAD TRANSFER ASSEMBLY(S) WITH AN EXISTING JOINT OR CRACK IN THE ADJACENT SLAB IF ONLY ONE LANE IS BEING REPLACED.
- ④ IF ONLY ONE LANE IS REMOVED, AND  $L > 25'$ , INSTALL NEW 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS IN THE LONGITUDINAL JOINT USING EPOXY TYPE IV. IF 2 OR MORE LANES ARE REMOVED, CONSTRUCT LONGITUDINAL JOINT(S) ACCORDING TO THE STANDARD DRAWING EXCEPT USE 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS. IF  $L \leq 25'$ , DO NOT TIE THE LONGITUDINAL JOINT TO THE EXISTING LANE; USE A BOND BREAKER MATERIAL APPROVED BY THE ENGINEER THAT WILL ASSURE NO INTERACTION WITH THE ADJACENT LANE.
5. REPLACE WITH NON-REINFORCED JPC PAVEMENT AND INSTALL CONTRACTION JOINTS AT LOCATIONS "K" AND CONTRACTION JOINTS (OR A CONSTRUCTION JOINT FOR LOCATION C) AT LOCATIONS "J". SAW AND SEAL ALL JOINTS.
6. SEE "CROSS SECTION" FOR SECTION F.

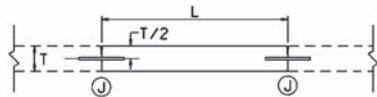


<b>KENTUCKY</b>	
<b>DEPARTMENT OF HIGHWAYS</b>	
<b>50' JOINT SPACING</b>	
SUBMITTED _____	DATE _____

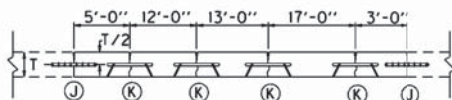




PLAN VIEW



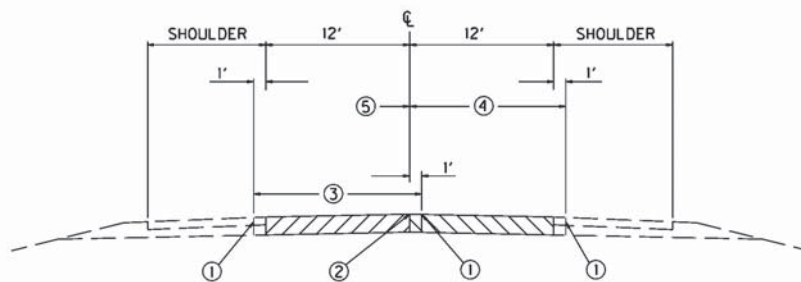
SECTION AAA  
JOINT REPLACEMENT



SECTION DDD  
LANE REPLACEMENT  
(ALWAYS MATCH EXISTING JOINTS)

1. SAW AT LOCATIONS "J" AND ALONG LONGITUDINAL JOINT (IF ONLY ONE LANE IS REMOVED) FULL DEPTH WITHOUT DAMAGE TO EXISTING CONCRETE. SAW RELIEF JOINTS AS THE ENGINEER DIRECTS OR APPROVES. REMOVE THE EXISTING JPC PAVEMENT TO THE LENGTH AND AT THE LOCATIONS NOTED ELSEWHERE IN THE CONTRACT. L=6 FEET MINIMUM AND LOCATIONS "J" SHALL NOT BE CLOSER THAN 6 FEET TO ANY TRANSVERSE JOINT BEYOND THE REPAIR.
2. INSTALL SMOOTH, LOAD TRANSFER DOWELS (EXCEPT USE TIE BARS FOR SECTION DDD), 18 INCHES LONG (SEE STANDARD DRAWING NO. RPS-020 FOR DOWEL SIZE) AT LOCATIONS "J". INSTALL DOWELS (OR TIE BARS FOR SECTION DDD) IN THE EXISTING CONCRETE USING EPOXY TYPE IV. INSTALL DOWELS (OR TIE BARS FOR SECTION DDD) ON 12 INCH CENTERS BEGINNING 12 INCHES FROM THE EDGE OF THE SLAB.
3. IF L IS GREATER THAN 20 FEET, INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND MATCH EXISTING JOINTS. INSTALL NEW LOAD TRANSFER ASSEMBLY(S) AND ALIGN LOAD TRANSFER ASSEMBLY(S) WITH EXISTING JOINTS IN ADJACENT SLABS.
- ④ IF ONLY ONE LANE IS REMOVED, AND  $L > 25'$ , INSTALL NEW 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS IN THE LONGITUDINAL JOINT USING EPOXY TYPE IV. IF 2 OR MORE LANES ARE REMOVED, CONSTRUCT LONGITUDINAL JOINT(S) ACCORDING TO THE STANDARD DRAWING EXCEPT USE 1-INCH TIE BARS 18 INCHES LONG ON 30 INCH CENTERS. IF  $L \leq 25'$ , DO NOT TIE THE LONGITUDINAL JOINT TO THE EXISTING LANE; USE A BOND BREAKER MATERIAL APPROVED BY THE ENGINEER THAT WILL ASSURE NO INTERACTION WITH THE ADJACENT LANE.
5. REPLACE WITH NON-REINFORCED JPC PAVEMENT AND INSTALL CONTRACTION JOINTS AT LOCATIONS "K" AND CONTRACTION JOINTS (OR A CONSTRUCTION JOINT FOR LOCATION DDD) AT LOCATIONS "J". SAW AND SEAL ALL JOINTS.
6. SEE "CROSS SECTION" FOR SECTION F.

<b>KENTUCKY DEPARTMENT OF HIGHWAYS</b>
<b>RANDOM SKEWED</b>
APPROVED _____ TEAM DIVISION OF DESIGN _____ DATE _____



SECTION F

- ① SAW-CUT LINE. THIS ONE FOOT IS TO ALLOW FOR A FORM AND THE REMOVAL AND REPLACEMENT SHALL BE INCIDENTAL TO THE WORK, EXCEPT NEW ASPHALT MIXTURE SHALL BE PAID DIRECT ON A TONNAGE BASIS, AND NEW JPC PAVEMENT WILL BE PAID BY THE SQUARE YARD. COMPACT THE DGA BASE BY MECHANICAL TAMPERS TO THE ENGINEER'S SATISFACTION.
- ② EXISTING LONGITUDINAL JOINT.
- ③ FIRST SLAB REMOVAL LIMITS AND REPLACE 12-FOOT LANE.
- ④ SECOND SLAB REMOVAL LIMITS AND REPLACE 12-FOOT LANE.
- ⑤ THIS ONE FOOT IS TO ALLOW FOR A FORM ON THE FIRST POUR, AND A TEMPORARY PAVEMENT IS REQUIRED. THE DEPARTMENT WILL NOT REQUIRE REMOVAL OF THIS ONE FOOT IF THE GRADE OF THE EXISTING PAVEMENT IS ADEQUATE TO ENSURE THE NEW CONCRETE CAN BE PLACED AND FINISHED TO THE SATISFACTION OF THE ENGINEER. ANY TEMPORARY PAVEMENT IS INCIDENTAL TO JPC PAVEMENT.
- 6. THE ABOVE DRAWING DEPICTS THE ORDER OF SLAB REMOVAL WHEN BOTH ARE TO BE REMOVED AT THE SAME LOCATION. WHEN ONLY ONE SLAB OR LANE IS TO BE REMOVED, REMOVE AND REPLACE ACCORDING TO SECTION C, CC, OR CCCC. TRAFFIC CONTROL WILL SPECIFY WHICH LANE TO REMOVE FIRST.

<b>KENTUCKY DEPARTMENT OF HIGHWAYS</b>	
CROSS SECTION	
APPROVED _____	DATE _____
TECH. DIVISION OF DESIGN	

11K

### **SPECIAL NOTE FOR PARTIAL DEPTH CONCRETE PAVEMENT REPAIR**

This Special Note applies to partial depth repairs of concrete pavement. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** Remove and replace small, shallow areas of deteriorated concrete that extend no deeper than one-third of the slab thickness. Comply with the applicable Standard Drawings and the Standard Specifications except as specifically superseded herein.

#### **2.0 MATERIALS AND EQUIPMENT.**

**2.1 JPC Pavement 24/48/72.** Conform to Section 502.

**2.2 Latex Materials.** Conform to Section 606.

**2.3 Rapid Set Concrete Patching Materials.** See the List of Approved Materials for Rapid and Very Rapid hardening materials from the Division of Materials.

**2.4 Hot-Poured Elastic and Silicone Rubber Sealant.** Conform to Subsection 807.03.01 or 807.03.05.

**2.5 Hammers.** Only use chisel point hammers weighing less than 15 pounds to remove deteriorated concrete.

#### **3.0 CONSTRUCTION.**

**3.1 Repair Dimension Selection.** The locations for partial-depth repair will be identified in the plans or proposal or as specified by the Engineer during construction. Identify the repair boundaries by sounding the concrete with a solid steel rod, a heavy chain, or a ball peen hammer. Repair boundaries should extend a minimum of 3 inches outside unsound areas.

**3.2 Concrete Removal.** Saw the hole to be patched with a vertical face, to a 2-inch minimum depth and to the configuration the Contract specifies or the Engineer directs. After sawing, keep exposure to traffic to a minimum until patching.

If the area to be patched is deeper than 1/3 the slab depth, construct full depth patches according to the "Special Note for Full-Depth Concrete Pavement Repair". Partial depth patches that become full depth repairs will be paid forty (40) percent of the unit price for Partial Depth Patching.

Keep overcutting beyond the limits of the removed area to a minimum. Prevent saw slurry from entering existing joints and cracks. Clean all saw slurry and other contaminants from overcutting. Repair the overcut area with a low viscosity epoxy compound.

**3.3 Repair Area Preparation.** Following the removal of the concrete, the surface of the repair area must be prepared to provide a clean, irregular surface for the development of a good bond between the repair material and the

11K

existing slab. Clean the repair area by sandblasting followed by compressed airblasting to remove dirt, oil, thin layers of unsound concrete, and laitance. The compressed air used in the final cleaning must be free of oil. This should be checked by placing a cloth over the air compressor nozzle and visually inspecting for oil.

**3.4 Joint Preparation.** Partial-depth repairs placed against transverse joints require the use of an insert to act as a bondbreaker or joint reformer. Place the insert so that it prevents intrusion of repair material into the joint opening. Insure the compressible insert extends 1 inch below and 3 inches beyond the repair boundaries. Prior to placement, score the insert at the appropriate depth to accommodate the joint sealant material to be used. Once the patch has cured or set, remove the scored top strip to allow for the joint sealant to be placed.

### **3.5 Patching Material and Placement.**

**3.5.1 Portland Cement Patch.** Use a mixture conforming to Section 502 except use No. 8 or 9M coarse aggregate. Submit a mix design for the Engineer's approval. Vigorously scrub a grout bond coat into the repair area. Use a grout consisting of a slurry made of water mixed with equal parts of Portland cement and mortar sand.

Place the patch before the grout shows any sign of drying. Cure according to Subsection 502.03. Two applications of curing compound will be required. Remove and replace all areas of the patches that display cracks or are not bonded to the underlying pavement.

**3.5.2 Latex Concrete Patch.** Prepare the patch area and apply a latex grout bond coat. Furnish, mix, place, and cure the latex concrete according to Section 606. Ensure the curing materials required by Subsection 606.03.17 A) 4) remain in place for the specified time. Remove and replace all areas of the patches that display cracks or are not bonded to the underlying pavement.

**3.5.3 Rapid Set Concrete Patching Materials.** Furnish a repair material specified as "Rapid" or "Very Rapid" hardening listed on the Division of Materials *List of Approved Materials* when the repair area is required to be opened to traffic in a short time frame. A substitute product may be allowed only after submittal and approval by the Division of Materials. Repair materials should be installed according to the manufacturer's recommendations. All materials used will be tested prior to the project beginning to insure that a minimum opening compressive strength of 3,000 psi can be obtained based on the time requirements listed in the maintenance of traffic notes for the project.

Remove and replace all areas of the patches that display cracks or are not bonded to the underlying pavement.

**3.6 Joint Sealing.** Seal all new or partially new joints with hot-poured elastic or silicone rubber sealant according to Subsection 501.03.18 D).

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**4.0 MEASUREMENT.**

**4.1 Partial Depth Patching.** The Department will measure the quantity in cubic feet, either from field measurements or the metered quantity from the mixer, as the Engineer determines.

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

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02110	Partial Depth Patching	Cubic Foot

The Department will consider payment as full compensation for all work required in this provision.

June 15, 2012

## **SPECIAL NOTE FOR UTILITIES**

### **BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

### **COORDINATION WITH UTILITY FACILITY OWNERS**

The Roadway Contractor will be responsible for contacting all utility facility owners on the subject project to have existing facilities located in the field. The Roadway Contractor will coordinate his activities with the utility facility owners to minimize and, where possible, avoid conflicts with utility facilities. Where conflicts with utility facilities are unavoidable the Roadway Contractor will coordinate any necessary relocation work with the facility owner.

### **PROTECTION OF UTILITY FACILITIES**

It will be the Roadway Contractor's responsibility to locate any utilities before excavating by calling the various utility owners and by examining any supplemental information supplied by the Cabinet. If necessary, the Contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before excavating in the area of the utility. The cost for repair and any other associated costs for any damage to utilities caused by the Roadway Contractor's operation shall be borne by the Contractor.

### **SPECIAL PROVISION FOR WASTE AND BORROW SITES**

The contractor is advised that it is their responsibility to gain U.S. Army Corp of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". "Waters of the United States" are defined as perennial or intermittent streams, ponds or wetlands. Ephemeral streams are also considered jurisdictional waters, and are typically dry except during rainfall, but have a defined drainage channel. Questions concerning any potential impacts to "Waters..." should be brought to the attention of the appropriate District Office for the Corps of Engineers for a determination, prior to disturbance. Any fees associated with obtaining approval from the U.S. Army Corp of Engineer or other appropriate regulatory agencies for waste and borrow sites is the responsibility of the contractor.

01/01/2009

## 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 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.
- 2) 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 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) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to +120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) 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.
- 9) 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.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.
- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590nm amber
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

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

\*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

**2.3 Power** All signs must:

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to 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.

**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 the 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.

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 (1) or two (2) phases with each phase having no more than three (3) lines of text. When no message is needed, but is necessary to know if the sign is operable, flash only a pixel.

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:

<u>CODE</u>	<u>PAY ITEM</u>	<u>PAY UNIT</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

## **SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS**

### **US 60 & US60X**

The dimensions shown on the typical sections for pavement and shoulder widths are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.

## **Special Note For: Erosion Prevention and Sediment Control**

The Contractor shall be responsible for filing the Kentucky Pollution Discharge Elimination System (KPDES) KYR10 permit Notice of Intent (NOI) with the Kentucky Division of Water (DOW) and any KPDES local Municipal Separate Storm Sewer System (MS4) program that has jurisdiction. The NOI shall name the contractor as the Facility Operator and include the KYTC Contract ID Number (CID) for reference.

The Contractor shall perform all temporary erosion/sediment control functions including: providing a Best Management Practice (BMP) Plan, conducting required inspections, modifying the BMP plan documents as construction progresses and documenting the installation and maintenance of BMPs in conformance with the KPDES KYR10 permit effective on August 1, 2009 or a permit re-issued to replace that KYR10 permit. This work shall be conducted in conformance with the requirements of Section 213 of KYTC 2012 Department of Highways, Standard Specifications for Road and Bridge Construction.

Contrary to Section 213.03.03, paragraph 2, the Engineer shall conduct inspections as needed to verify compliance with Section 213 of KYTC 2012 Department of Highways, Standard Specifications for Road and Bridge Construction. The Engineer's inspections shall be performed a minimum of once per month and within seven days after a storm of ½ inch or greater. Copies of the Engineer's inspections shall not be provided to the contractor unless improvements to the BMP's are required. The contractor shall initiate corrective action within 24 hours of any reported deficiency and complete the work within 5 days. The Engineer shall use Form TC 63-61 A for this report. Inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit.

Contrary to Section 213.05, bid items for temporary BMPs will not be listed and will be replaced with one lump sum item for the services. Payment will be pro-rated based on the Project Schedule as submitted by the Contractor and as agreed to by the Engineer.

The contractor shall be responsible for applying "good engineering practices" as required by the KPDES permit. The contractor may use any temporary BMPs with the approval of the KYTC Engineer.

The contractor shall provide the Engineer copies of all documents required by the KPDES permit at the time they are prepared.

The contractor shall be responsible for the examination of the soils to be encountered and make his own independent determination of the temporary BMPs that will be required to accomplish effective erosion prevention and sediment control.

The Contractor shall be responsible for filing the KPDES permit Notice of Termination (NOT) with the Kentucky DOW and any local MS4 program that has jurisdiction. The NOT shall be filed after the Engineer agrees that the project is stabilized or the project has been formally accepted.

**Payment:** Payment will by lump sum under the bid item "K.P.D.E.S. PERMIT & TEMPORARY EROSION CONTROL".

**Special Note for Fixed Completion Date and  
Liquidated Damages  
Lyon, Caldwell, & Trigg Counties  
Item No. 1-2043**

This project has a Fixed Completion Date of November 30, 2014.

Liquidated Damages as specified in Section 108 of the Standard Specifications shall apply.

## **TRAFFIC CONTROL PLAN**

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**LYON, CALDWELL, TRIGG COUNTIES**

**I-24**

**Item No. 1-2043.00**

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## **TRAFFIC CONTROL PLAN**

**LYON, CALDWELL, TRIGG COUNTIES**

**I-24**

**Item No. 1-2043.00**

**THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY**

### **TRAFFIC CONTROL GENERAL**

Except as provided herein, maintain and control traffic in accordance with the Standard Specifications and the Standard 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**", lump sum.

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. Traffic control devices will conform to current MUTCD.

Reduce the speed limit in work areas by 10 miles per hour and establish double fines for work zone speeding violations. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the Engineer. Notify the Engineer a minimum of 12 hours prior to using the double fine signs. At the beginning of the work zone, the "WARNING FINE DOUBLED IN WORK ZONE" signs will be dual mounted. At the end of the work zone, the "END DOUBLE FINE" signs will be dual mounted as well. Remove or cover the signs when the highway work zone does not have workers present for more than a two hour period of time. Payment for the signs will be at the unit bid price for signs erected. Any relocation or covering of the signs will be incidental to "**MAINTAIN AND CONTROL TRAFFIC**", lump sum.

Night work will be allowed on this project. Obtain approval from the Engineer for the method of

Traffic Control Plan  
Page 2 of 5

## PROJECT PHASING & CONSTRUCTION PROCEDURES

Maintain all lanes open to traffic and perform no work during the following hours:

Labor Day Weekend: August 30<sup>th</sup> – September 1<sup>st</sup>

The Engineer may specify additional day and hours when lane closures will not be allowed. Traffic may be reduced to one lane in each direction at all times, unless otherwise noted in this proposal or directed by the Engineer.

The clear lane width will be a minimum of 10 feet; however, make provisions for the passage of wide loads up to 16 feet in width. Use a lane closure at all times when work is performed in the lane or adjacent shoulder. No long term lane closures will be allowed until paving and pavement repair operations begin. Once paving and pavement repairs have begun, these operations are to be continuous until all paving is complete.

If the Contractor suspends work for more than seven (7) days for any reason, traffic shall be placed back in the original lane configuration, with all lanes operational. These traffic shifts, due to non-working days, shall be considered incidental to the bid item, **“MAINTAIN AND CONTROL TRAFFIC.”** The Department reserves the right to place traffic into its original configuration at anytime and will reimburse the Contractor for the cost of doing so.

The contractor must notify the Engineer at least fourteen (14) days prior to beginning construction.

Access to and from all ramps on the project shall be maintained at all times unless otherwise directed by the Engineer. Stripe and taper according to the MUTCD and Standard Drawings.

Take these restrictions into account in submitting bid. The Department will not consider any claims for money or grant contract time extensions for any delays to the Contractor as a result of these restrictions.

## LANE CLOSURES

Limit the lengths of lane closures to a maximum of 2 miles, or as directed by the Engineer with a minimum of one mile between successive lane closures. Contrary to section 112, lane closures will **NOT** be measured for payment, but are considered incidental to **"MAINTAIN AND CONTROL TRAFFIC"**, lump sum.

Traffic Control Plan  
Page 3 of 5

## **SIGNS**

Signage for reduced speed limits and double fine work zones will be furnished, relocated, and maintained by the Contractor.

Contrary to section 112, Individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

Relocate and reset or cover existing permanent signs as required by work. Obtain the Engineer's approval before removing or covering an existing sign. The Department will not measure relocating and resetting or covering existing permanent signs, but shall be incidental to **"MAINTAIN AND CONTROL TRAFFIC"**, lump sum.

## **ARROW PANELS**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. Arrow Panels will not be measured for payment, but are incidental to **"MAINTAIN AND CONTROL TRAFFIC"**, lump sum. The Department **WILL NOT** take possession of the arrow panels upon completion of work.

## **PORTABLE CHANGEABLE MESSAGE SIGNS**

Provide Portable Changeable Message Signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions provide additional Portable Changeable Message Signs. The locations designated may vary as the work progresses. The messages required to be provided will be designated by the Engineer. The Portable Changeable Message Signs will be in operation at all times. In the event of damage or mechanical/electrical failure, the Contractor will repair or replace the Portable Changeable Message Sign immediately. Portable Changeable Message Signs will be paid for once, no matter how many times they are moved or relocated. The Department **WILL NOT** take possession of the signs upon the completion of the work.



Traffic Control Plan  
Page 4 of 5

## PAVEMENT MARKINGS

If lane closures are in place during nighttime hours, remove or cover the lenses of pavement markers that do not conform to the traffic control scheme in use, or as directed by the Engineer. Replace or uncover lenses before a closed lane is reopened to traffic. No direct payment will be made for removing and replacing or covering and uncovering the lenses, but will be incidental to **"MAINTAIN AND CONTROL TRAFFIC"**, lump sum.

Place temporary and permanent striping in accordance with Section 112, except that:

1. Temporary and permanent striping will be 6" in width
2. If the contractor's operations or phasing requires temporary markings which must be subsequently removed from the ultimate pavement, an approved removable lane tape will be used; however removable tape will be measured and paid as Pavement Striping-Temporary Paint 6"
3. Edge lines will be required for temporary striping
4. Existing, temporary, or permanent striping will be in place before a lane is opened to traffic.
5. Place permanent striping on bridge decks and pavement within the project limits.
6. Permanent striping will be Durable Waterborne Markings. Should the Contractor change the existing striping pattern, the Contractor is to restripe the roadway back to its original configuration after a certain period of time especially if no work is anticipated for a period of time ((i.e. Winter shutdown).

## PAVEMENT EDGE DROP-OFFS

Pavement edge drop-offs will be protected by a lane or shoulder closure. Lane closures will be protected with plastic drums, vertical panels, or barricades as shown on the Standard Drawings. Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" – No protection required. Warning signs should be placed in advance of and throughout the drop off area.

2" to 4" – Protect with a lane closure. Place plastic drums, vertical panels, or barricades every 50 feet. Cones may not be used in place of plastic drums, panels, and barricades at any time. Construct a wedge with compacted cuttings from milling, trenching, or asphalt mixtures with a 3:1 or flatter slope, when work is not active in the drop-off area. Place Type III Barricades at the beginning of the lane closures, and place additional Type III Barricades spaced at 2,500 feet during the time the lane closure is in place.

Greater than 4" – In areas where pavement is to be removed, work should proceed continuously so that traffic is exposed to a drop-off for the minimum amount of time necessary to bring the pavement back up to existing grade. Barrel spacing should be 20 feet and appropriate lighting should be utilized to illuminate the area during nighttime operations.

Traffic Control Plan  
Page 5 of 5

### **TRAFFIC COORDINATOR**

Designate an employee to be traffic coordinator. The designated Traffic Coordinator must be certified by the American Traffic Safety Services Association (ATSSA). The Traffic Coordinator will inspect the project maintenance of traffic once daily, including weekends, during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator will report all incidents throughout the work zone to the Engineer on the project. The Contractor will furnish the name and telephone number where the Traffic Coordinator can be contacted at all times. During any period when a lane closure is in place, the Traffic Coordinator will arrange for personnel to be present on the project at all times to inspect the traffic control, maintain the signing and devices, and relocate portable changeable message boards as queue lengths change. The personnel will have access on the project to a radio or telephone to be used in case of emergencies or accidents.

### **COORDINATION OF WORK**

The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. The Contractor will coordinate the work on this project with the work of the other contractors. In case of conflict, the Engineer will determine the relative priority to give to work phasing on the various projects.

## REFERENCES

1. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012.

2. FHWA Manual on Uniform Traffic Control Devices (MUTCD), latest edition.

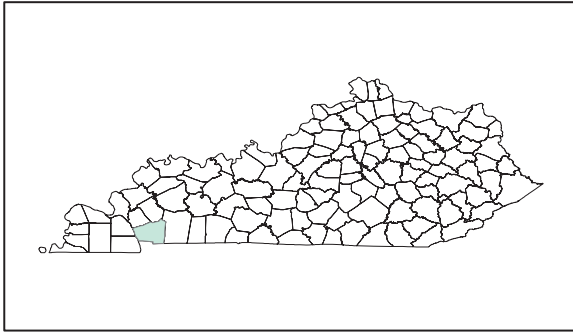
3\*. Kentucky Department of Highways Standard Drawings, current editions, as applicable:

RGX-001-05	Miscellaneous Standards Part I
TPM-105-02	Pavement Marker Arrangements Multi-Lane Roadways
TPM-125	Pavement Marker Arrangement Exit Gore and Off-Ramp
TPM-130	Pavement Marker Arrangement On-Ramp with Tapered Acceleration Lane
TPM-135	Pavement Marker Arrangement On-Ramp with Parallel Acceleration Lane (Use
TTC-115	Lane Closure Multi-Lane Highway Case I
TTD-110	Post Splicing Detail
TTD-120	Work Zone Speed Limit and Double Fine Signs
TTD-125	Pavement Condition Warning Signs
TTS-120	Mobile Operation for Durable Striping Case I
TTS-110	Mobile Operation for Paint Striping Case III

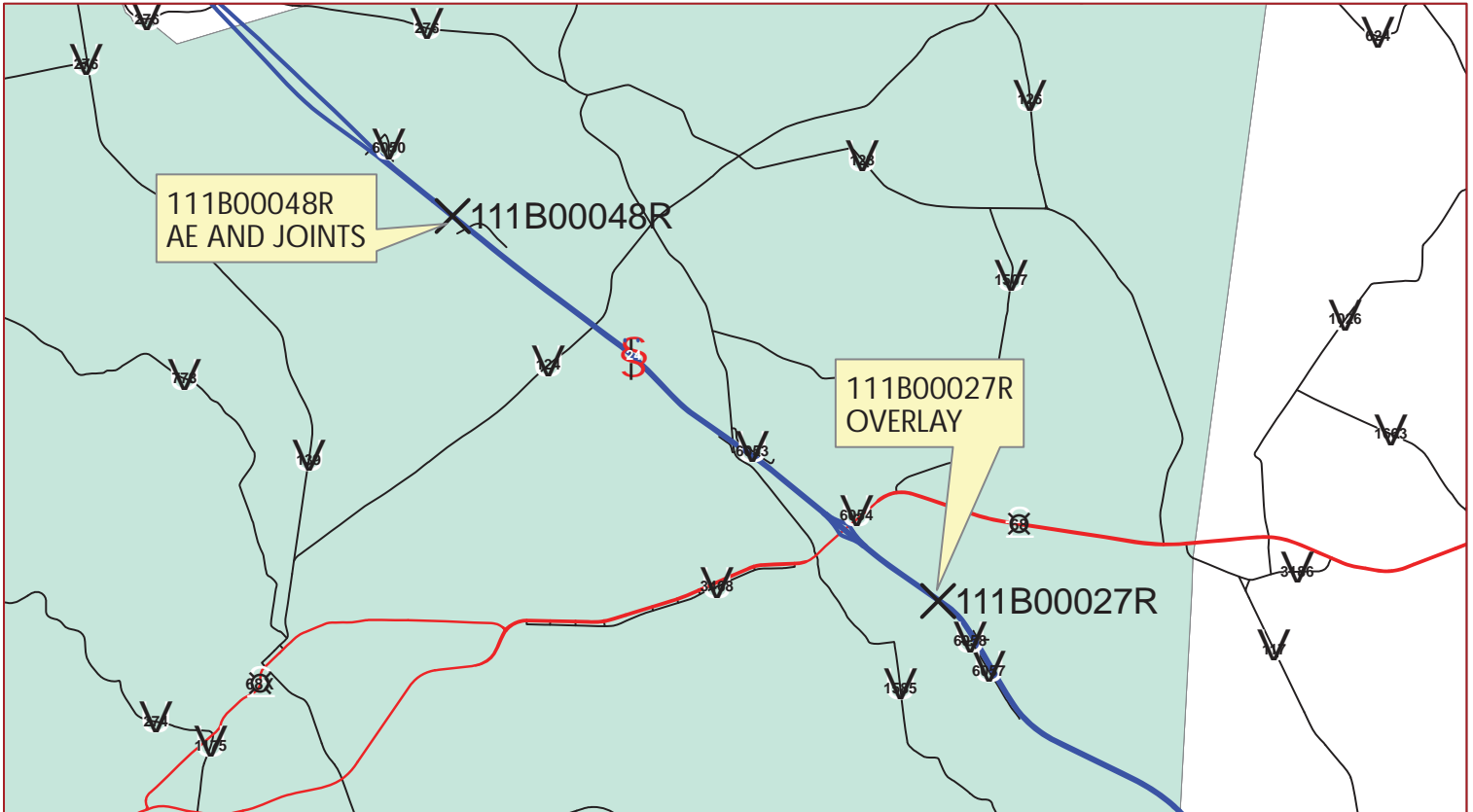
4\*. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012 - Supplemental Specifications, as applicable:

Special Note 1I Portable Changeable Message Signs (6/15/2012)  
Special Note Typical Section Dimensions  
Special Note Before You Dig  
Special Provision For Waste and Borrow Sites  
Special Note Fixed Completion Date and Liquidated Damages  
Special Note For Erosion Control  
Special Note For Full Depth Concrete Pavement Repair

\*Note: This is a partial list that may be applicable to this project



# TRIGG COUNTY



## **SPECIAL NOTE FOR BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS**

- I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2012 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Prepare deck for overlay using hydrodemolition (see note); (3) Complete full-depth and partial depth repairs as directed by the Engineer; (4) Repair/replace damaged and corroded reinforcing bars; (5) Place new concrete overlay and epoxy-sand slurry in accordance with Section 606; (6) Complete asphalt approach pavement; (7) Maintain and control traffic; and (8) Any other work specified as part of this contract.

All construction will be in accordance with Section 606 unless otherwise specified.

**II. MATERIALS.**

- A. Latex Concrete.** See Section 606.03.17.
- B. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.
- C. Bituminous Asphalt.** See notes
- D. Epoxy-Sand Slurry.** See Section 606.03.10.

**III. CONSTRUCTION.**

- A. Surface Preparation.** Remove concrete (and all patches) from existing slab in accordance with the requirements of Section 606. B48 has an existing overlay B27 does not.
- B. Partial Depth Slab Repair.** Remove areas determined to be unsound by the Engineer via hydrodemolition or via hand held jackhammers weighing less than 45lbs in accordance with Section 606.02.10 D. Repair/Replace all damaged or severely corroded reinforcing bars prior to partial depth repair operation. The Department will not measure material removal and will consider this work incidental to the bid item "PARTIAL DEPTH PATCHING".
- C. Surface Texturing.** Texture the concrete surface of the overlay in accordance with Section 609.03.10.
- D. Expansion Dam Treatment (111B48R).** Remove the existing concrete without causing any damage to the expansion dam armored edges. Hand removal of concrete in areas adjacent to the expansion dam may be required. Remove existing slab concrete as needed to maintain the minimum specified thickness of the overlay. Set the concrete finishing providing a smooth transition. See section 606 rigid approach.

- IV. MEASUREMENT.** See Section 606 and the following:
- A. Latex Modified Concrete.** The Department will measure the quantity in cubic yards using the theoretical volume as follows for each bridge:
    - 111B000048R**                      **300x39.25x1.5" ≈ 55 cuyd**
    - 111B000027R**                      **150x39.25x1.5" ≈ 27.5 cuyd**
  - B. Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will measure the quantity in cubic yards by deducting the theoretical volume of bridge deck overlay (LMC) from the total volume (as indicated by the batch quantity tickets) of Concrete required to obtain the finished grade shown on the Plans or established by the Engineer.
  - C. Hydrodemolition.** See special note. Will be measured in square yards.
  - D. Steel Reinforcement.** The Department will measure any reinforcing steel necessary for the partial or full depth patch in pounds, which shall include all labor, equipment, and material needed to complete this work.
- V. PAYMENT.** See Section 606 and the following:
- A. Latex Modified Concrete.** The Department will make payment for the Latex Modified Concrete under bid item #08534 "CONCRETE OVERLAY – LATEX" for the theoretical quantity.
  - B. Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will make payment for the Partial Depth Patching under bid item #24094EC "PARTIAL DEPTH PATCHING". Payment will be for the quantity per cubic yard complete in place.
  - C. Steel Reinforcement.** The Department will make payment for steel reinforcement, if necessary, under bid item #08150 "STEEL REINFORCEMENT". Payment will be at the unit price per pound.
  - D. Hydrodemolition (08550).** The bid item for hydrodemoliton will include as an incidental the cost to remove existing overlay. See special note.

## **SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS**

### **I. TRAFFIC CONTROL GENERAL**

Except as provided herein, traffic shall be maintained in accordance with the 2012 Standard Specifications, Section 112. 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, traffic control devices used on this project may be new or used in new condition, at the beginning of the work and maintained in like new condition until completion of the work.

### **II. TRAFFIC COORDINATOR (Incidental to Maintain Control Traffic)**

Furnish a Traffic Coordinator as per Section 112. The Traffic Coordinator shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor's operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents. Shall not be paid police officer.

The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

### **III. SIGNS**

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

### **IV. TEMPORARY PAVEMENT STRIPING (SHALL BE INCENDTAL TO PROJECT)**

Skip lines and/or solid lines through the length of the tapers for lane closures and other striping as directed by the Engineer shall be temporarily covered with 8" black removable tape or removed to the engineer's satisfaction. Permanent removal of all other pavement striping for traffic control shall be considered incidental to Maintain and Control Traffic. Temporary pavement striping shall be paid only once per course in accordance with Section 112.04.07. The Contractor shall replace any temporary striping that becomes damaged or fails to adhere to the pavement before dark on the day of the notification. Liquidated damages shall be assessed to the

Contractor at a rate of \$500 per day for failing to replace temporary striping within this time limit.

#### **V. PROJECT PHASING & CONSTRUCTION PROCEDURES**

111B00048R and 111B00027R

Maintain one lane of traffic during construction in accordance with Standard Drawing No. TTC-120 for Lane Closures Using Barrier wall. Minimum clear lane for SHALL BE 14' at all times.

#### **VI. LANE CLOSURES**

Lane closures will only be paid once.

#### **VII. LAW ENFORCEMENT OFFICER**

Provide Law Enforcement Officer Units, consisting of an off-duty police officer and a police vehicle equipped with flashing blue lights, at locations and for durations directed or approved by the Engineer to provide an additional protective measure between the workers and traffic. For locations in TRIGG County, the Law Enforcement Officer shall be an off-duty police officer from any police agency in TRIGG County, Kentucky. Payment at the Contract unit price per hour for LAW ENFORCEMENT OFFICER shall be full compensation for all labor, equipment, materials and incidentals for the police unit consisting of one police officer and one vehicle. Use and hours of police units are left to the Resident Engineer's discretion.



## **SPECIAL NOTE FOR REPLACING EXPANSION DAMS AND/OR INSTALLING ARMORED EDGES FOR CONCRETE ON BRIDGES**

**I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2012 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Remove existing concrete and expansion device(s) and/or bridge ends; (3) Install armored edges and new concrete as specified and in accordance with the attached detail drawings; (4) Install new joint seals (where required); (5) Maintain and control traffic; and (6) Any other work specified as part of this contract.

### **II. MATERIALS.**

**A. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.

**B. Structural Steel.** Use new, commercial grade steel suitable for welding. The Engineer will base acceptance on visual inspection. See Standard Drawing BJE-001, current edition.

**C. Stud Anchors.** The armored edge stud anchors are ¾" x 6" embedded stud shear connectors conforming to ASTM A108, Grade 1015 (Nelson Studs or equal).

**D. Steel Reinforcement.** Use Grade 60. See Section 602.

**E. Epoxy Bond Coat.** See Section 511.

**F. Neoprene Strip Seals.** See attached detail drawings and Section 807.

### **III. EQUIPMENT.**

**A. Hammer.** Provide See Section 606.02.10 B.

**B. Sawing Equipment.** See Section 606.02.10 C.

**C. Hydraulic Impact Equipment.** See Section 606.02.10 D.

### **IV. CONSTRUCTION.**

**A. Remove Existing Materials.** Remove existing Expansion Dam, Bridge End, Armored Edges and specified areas of concrete as shown on the attached sketches. Remove debris and/or expansion joint filler as directed by the Engineer. . Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department.

Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Expansion Joint Replacement" or "Armored Edge for Concrete".

**B. Place New Concrete and Armored Edges.** After all specified existing materials have been removed; place new armored edges to match the grade of the proposed overlay or to match the original grade (See attached detail drawings). Place the new Class "M" concrete to the scarified grade and finish to receive the new overlay or place the new Class "M" concrete to the original grade and finish with broom strokes drawn transversely from curb to curb.

All new structural steel shall be cleaned and painted in accordance with requirements of Section 607.03.23, except that surfaces to come in contact with concrete are not to be painted.

Blast clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible.

- C. Additional Steel Reinforcement.** Furnish for replacement, as directed by the Engineer, 200 ln ft per joint, armored edge, or joint armored edge combination. 400 linear feet of #4 steel reinforcing bars in 20' lengths for bridge B27. Place these bars in areas deemed by the Engineer to require additional reinforcement. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of Nelson Studs on the armored edges. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class "M" concrete. Deliver unused bars to the Local County Maintenance Barn. Payment will be made in accordance with Section 602.
- D. Stage Construction.** Installation of concrete and armored edges in two (or more if specified) stages is necessary. Join the armored edges at or near the centerline of the roadway or lane line, field weld and grind smooth.
- E. Preformed Neoprene Joint Seal.** Place the preformed joint seal in one continuous, unbroken length. Place neoprene strip seals as recommended by the manufacturer and in accordance with Section 609.03.04 (E), except that shop drawings will not be required.
- G. Shop Plans.** Shop plans will not be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.

## V. MEASUREMENT.

- A. Expansion Joint Replacement – 4".** The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint.
- B. Armored Edge for Concrete.** The Department will measure the quantity in linear feet from gutterline to gutterline along the face of the bridge end.
- C. Steel Reinforcement.** See Section 602.

## VI. PAYMENT.

- A. Expansion Joint Replacement – 4".** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, neoprene joint seal, and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.

- B. Armored Edge for Concrete.** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.
- C. Steel Reinforcement.** See Section 602.

## Special Notes

### Special Note Regarding Possible Asbestos Containing Materials

Any available information regarding possible asbestos containing materials (ACM) on or within bridge structures to be affected by the Work has been included in the bid documents. If not included in the bid documents, the Department will provide, as soon as possible, additional information to the successful bidder for inclusion with the Kentucky Division for Air Quality Notification of Asbestos Abatement/Demolition/Renovation form (DEP 7036). If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the Work.

## SPECIAL NOTE FOR USE OF HYDRODEMOLITION METHOD

To be used if the Contractor chooses to use Hydrodemolition method to complete partial and full depth removal. Also see Section 606.03.03.

### Description

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This work consists of bridge surface deck preparation using Hydrodemolition to provide a uniform depth, highly bondable surface and to remove all variable depth, unsound material. This item also includes the removal and disposal of all concrete and debris, vacuuming, shielding, water control, additional jack hammering and all other aspects of work necessary to prepare the deck for the placement of the new latex modified concrete overlay.

### Equipment

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**Sawing Equipment.** Sawing equipment shall be a concrete saw capable of sawing concrete to the specified depth.

**Mechanical Scarifying Equipment.** The scarifying equipment shall be a power operated mechanical scarifier capable of uniformly scarifying or removing the old concrete or asphalt wearing surface from the bridge deck to the depths required in the plans or as directed by the Engineer. The equipment shall be self-propelled with sufficient power, traction and stability to maintain accurate depth of cut and slope. The equipment shall be capable of accurately and automatically establishing profile grades along each edge of the machine by referencing the existing bridge deck by means of a ski or matching shoe, or from an independent grade control; in addition, it shall be equipped with an integral loading means to remove the material being cut from the bridge deck and to discharge the cuttings into a truck all in a single operation.

**Hydro-Demolition Equipment.** The Hydrodemolition equipment shall consist of a filtering and pumping unit operating with a self-propelled computerized robot that utilizes a high pressure water jet capable of removing concrete to the depth specified on the plans or as directed by the Engineer and be capable of removing rust and concrete particles from reinforcing steel. The equipment shall provide a rough and bondable surface and remove all unsound concrete during the initial pass. The minimum water usage shall be 43 gal/min operating at 13,000 psi minimum.

**Vacuum Cleanup Equipment.** The vacuum cleanup equipment shall be equipped with fugitive dust control devices and be capable of removing wet debris and water all in the same pass. Provide equipment capable of washing the deck with pressurized water prior to the vacuum operation to dislodge all debris and slurry from the deck surface.

**Hand Held Blast Cleaning Equipment.** Hand held blast shall be either sand or water as necessary to expose fine and coarse aggregates; thoroughly clean all exposed reinforcing steel; and remove any unsound concrete or laitance layers from the proposed concrete overlay surface. If sand blasting equipment is utilized, the equipment shall have oil traps. If water blasting equipment is utilized, the equipment must be capable of delivering a minimum of 5,000 psi.

**Power Driven Hand Tools.** Power driven hand tools and jackhammers will be permitted, but shall not be heavier than the nominal 40 lb class. Chipping hammers shall not be heavier than the nominal 15 lb class. Only hand chipping tools shall be used when removing concrete within 1 in. of reinforcing steel. Mechanically driven tools shall be operated at a maximum angle of 45 degrees from the bridge floor surface.

## **Construction Methods**

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**General:** Perform Hydrodemolition surface preparation over the entire top surface of the reinforced concrete bridge deck to provide a rough and bondable surface and to remove all unsound concrete during the initial Hydrodemolition surface preparation pass. The use of hand chipping tools, either hand or mechanically driven, shall be limited to trim work and areas inaccessible or inconvenient for the hydro-demolition equipment.

**Description:** This work shall consist of furnishing the necessary labor, materials and equipment to completely remove the top surface of the Portland cement concrete bridge deck surface in accordance with these Specifications and in reasonably close conformity with the grades, thickness, or sections shown on the Plans or as directed by the Engineer. This work shall include the removal of patches other than sound Portland cement concrete and all loose and unsound concrete by Hydrodemolition; preparation of the sound existing concrete surface; removal, forming and concrete for full depth repairs; blast cleaning or high pressure water cleaning the existing deck prior to placement of the modified concrete overlay; and all other operations necessary to complete this work according to these specifications and to the satisfaction of the Engineer.

## **Preparation of Existing Deck**

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No operations without reasonably available engineering controls that limit fugitive dust will be acceptable.

The Contractor shall be aware that there are federal, state, regional, and local government agencies that have requirements regarding the control of fugitive dust generated by concrete removal and blasting operations.

The Contractor is responsible for protecting traffic traveling adjacent to and under the work zone while removing bridge deck concrete.

Where the deck is sound for less than one third of its original depth, the concrete shall be removed full depth for limited areas as designated by the Engineer. Full depth repairs shall be completed as specified for Full Depth Repair.

### Removal of Existing Asphaltic Concrete Overlays

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If an existing asphaltic concrete overlay is present upon the original bridge deck surface to be prepared by Hydrodemolition, the overlay and any waterproofing material that was part of the deck must be removed, and the bridge deck cleaned, prior to commencement of the Hydrodemolition operation. The Contractor may utilize conventional scarifying equipment conforming to these specifications to remove the existing bituminous overlay and waterproofing material from the original bridge deck. Acceptable depth of scarification shall be the overlay and waterproofing material thickness plus ¼" below the original bridge deck surface. Additional removal depth of existing deck concrete is permitted by mechanical scarification provided. Total surface Hydrodemolition is used to provide a highly bondable surface and to remove partial depth deteriorated concrete.

If the use of mechanical scarifying equipment results in the snagging of the top mat of steel reinforcement, the scarifying equipment shall be immediately stopped and the depth of removal adjusted. Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete required to position the new reinforcing steel at the correct height and required lap splice lengths.

### Removal of Existing Modified Concrete Overlays

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Use conventional methods to remove any and all existing concrete overlay prior to commencement of the Hydrodemolition operation. Clean the bridge deck. Use "Total Surface Hydrodemolition" method to provide a rough & highly bondable surface and to remove partial depth deteriorated concrete with a minimum depth of ¼" below the original deck elevation. If Hydrodemolition does not leave a bondable surface resident can require mechanical scarification to his satisfaction at no additional cost to the Cabinet.

Existing overlay material which is sound and bonded may be left in patch areas with approval of the Project Engineer. If determined the existing patches are to be removed, jackhammers, not to be heavier than the nominal 35 lb class shall be used to remove debonded areas.

If the use of mechanical scarifying equipment results in the snagging of the top mat of steel reinforcement, the scarifying equipment shall be immediately stopped and the depth of removal adjusted. Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete.

Removal of existing overlay is incidental to hydrodemolition.

### Bridge Decks with No Existing Concrete Overlay

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If Hydrodemolition is to be performed on an original bridge deck surface without a bituminous or concrete bridge deck overlay, the Contractor may use mechanical scarification equipment conforming to these specifications to remove an initial portion of the hydro-demolition depth. The scarification depth shall be ¼". Total surface Hydrodemolition is used to provide a highly bondable surface and to remove partial depth deteriorated concrete.

Cost of the scarification shall be included as a portion of the pay item for Hydrodemolition.

If the use of mechanical scarifying equipment results in the snagging of the top mat of steel reinforcement, the scarifying equipment shall be immediately stopped and the depth of removal adjusted. Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete required to position the new reinforcing steel at the correct height and required lap splice lengths.

### Concrete Removal by Hydro-Demolition

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**General:** The total surface area of the reinforced concrete bridge deck shall be completely prepared by Hydrodemolition as necessary to provide a highly roughened and bondable surface prior to placement of the proposed bridge deck overlay while removing any deteriorated and unsound concrete in the initial pass. Unsound concrete is defined as existing bridge deck concrete that is deteriorated, spalled, or determined by the engineer to be unsound.

With the use of Hydrodemolition surface preparation, the requirement to provide a minimum  $\frac{3}{4}$ " clearance around all reinforcing bars that are more than 50% diameter exposed is waived, providing that the existing concrete is sound. The amount of steel exposed shall be kept to a minimum.

Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete required to position the new reinforcing steel at the correct height and to provide the required lap splice lengths as required.

**Calibration:** Prior to commencement of the Hydrodemolition removal operation, the Hydrodemolition equipment shall be calibrated on an existing **sound** concrete surface as designated by the Engineer. The calibration area shall be a minimum of 7 feet wide by 7 feet long to demonstrate the desired result of this specification.

Move the Hydrodemolition equipment to a second area (7'x7') that is unsound as designated by the Engineer to demonstrate the desired result of this specification which is providing a highly rough and bondable surface and removing all unsound concrete during the initial pass is being achieved.

The Engineer shall verify the following settings:

1. Water pressure gauge (13,000 psi minimum)
2. Machine staging control (step)
3. Nozzle size
4. Nozzle speed (travel)
5. Depth of removal
6. Minimum water usage (43 gallons per minute)

During the Hydrodemolition operations, any or all of the above settings may be modified in order to achieve removal of all unsound concrete and to provide a highly bondable surface. The settings may be changed by the Contractor to achieve total removal of unsound concrete, but the Engineer must be notified of all changes. The Engineer may change any or all of the settings in order to achieve the desired



results with Hydrodemolition. The removals and depth shall be verified, as necessary, and at least every 30 feet along the cutting path. The readings shall be documented and, if necessary, the equipment re-calibrated to insure the Hydrodemolition process achieves the desired results and removal of unsound concrete.

Calibration shall be required on each structure; each time Hydrodemolition is performed and as required to achieve the results specified by the plan.

**Debris and Fluid Containment:** Prior to commencement of the Hydrodemolition operation, the Contractor shall submit a plan for approval to the engineer for control and filtering of all water discharged during operation. The Contractor, at a minimum, shall block all drains on the deck and install aggregate dams every 150 feet; 6 inches high by 1 foot wide minimum, to strain runoff. The deck shall be used as a settlement basin within itself unless an alternate method of water control, satisfactory to the Engineer and meeting the environmental requirements of any associated Regulatory Agency, is required.

The Contractor shall provide shielding, as necessary, to insure containment of all dislodged concrete within the removal area in order to protect the public from flying debris both on and under the work site.

## Cleaning

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Cleaning shall be performed with a vacuum system capable of removing wet debris and water all in the same pass. The vacuum equipment shall be capable of washing the deck with pressurized water prior to the vacuum operation to dislodge all debris and slurry from the deck surface. Cleaning shall be done in a timely manner, before debris and water is allowed to dry on the deck surface.

## Resounding

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After the Hydrodemolition operation has completed the removal, and the deck is cleaned and allowed to dry, the deck shall be resounded to assure that the all unsound concrete deck material has been removed. The final sounding of the deck shall be done by the Engineer and shall only be performed when the deck is completely dry and frost-free. Final sounding shall consist of as many successive resounding as required to ensure that all deteriorated and fractured concrete has been removed. Additional removal shall be performed with 40 lb maximum weight jackhammers operated at an angle of no more than 45 degrees from horizontal. Aerosol spray paint for outlining and sounding chains shall be provided by the Contractor.

## Full Depth Repair

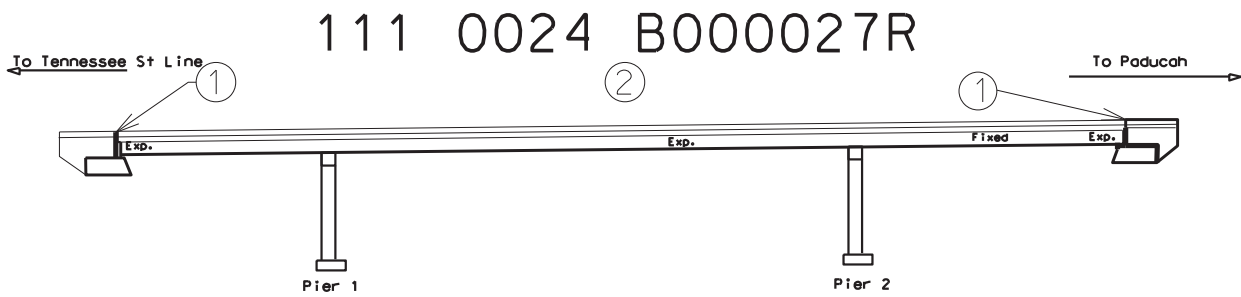
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Where the deck is sound for less than one third of its original depth, the concrete shall be removed full depth except for limited areas as may be designated by the Engineer. Forms shall be provided to support concrete placed in full depth repair areas. The forms for areas of up to 4 square feet may be suspended from wires from the reinforcing steel. For areas greater than 4 square feet, the forms shall be suspended from the primary members of the superstructure or by shoring below. Areas of full depth

repair shall have the concrete faces and reinforcing steel cleaned. Only those areas marked in the field by the Engineer as full depth repair will be paid for as full depth repair.

### Preparation Prior to Overlay Placement

Vehicles other than approved construction equipment will not be permitted on those sections of the deck where Hydrodemolition has begun. Contamination of the deck by construction equipment or from any other source shall be prevented.

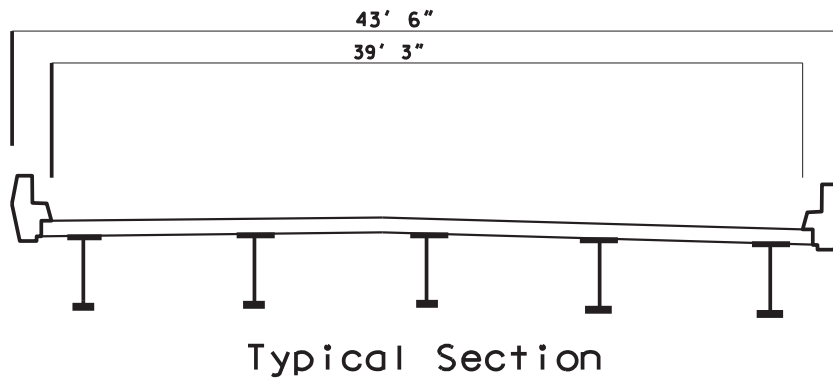


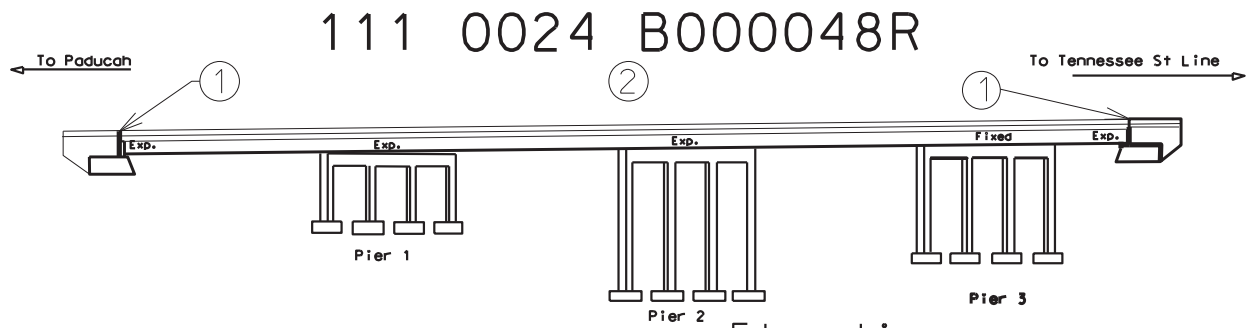
- 2. REPLACE AE AND 4" JOINT
- 2. OVERLAY BRIDGE IN ACCORDANCE WITH SECTION 606

### Elevation

45' 61' 41" Continuous Steel Girder

13 46' 33" Skew Rt.



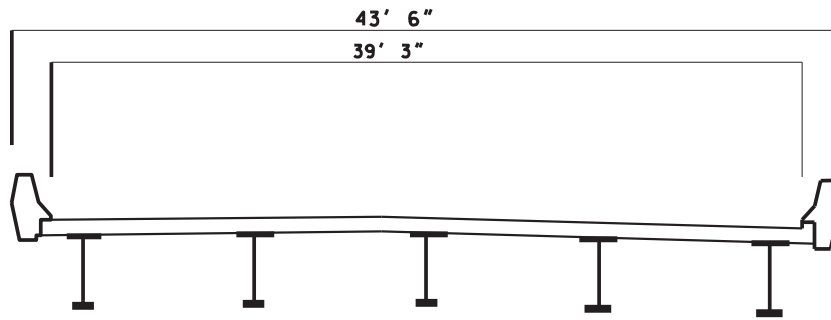


- 1. DO NOT DISTURB JOINT AND AE
- 2. OVERLAY BRIDGE IN ACCORDANCE WITH SECTION 606

Elevation

60' 90' 90' 60' Continuous Steel Girder

45 Skew Rt.



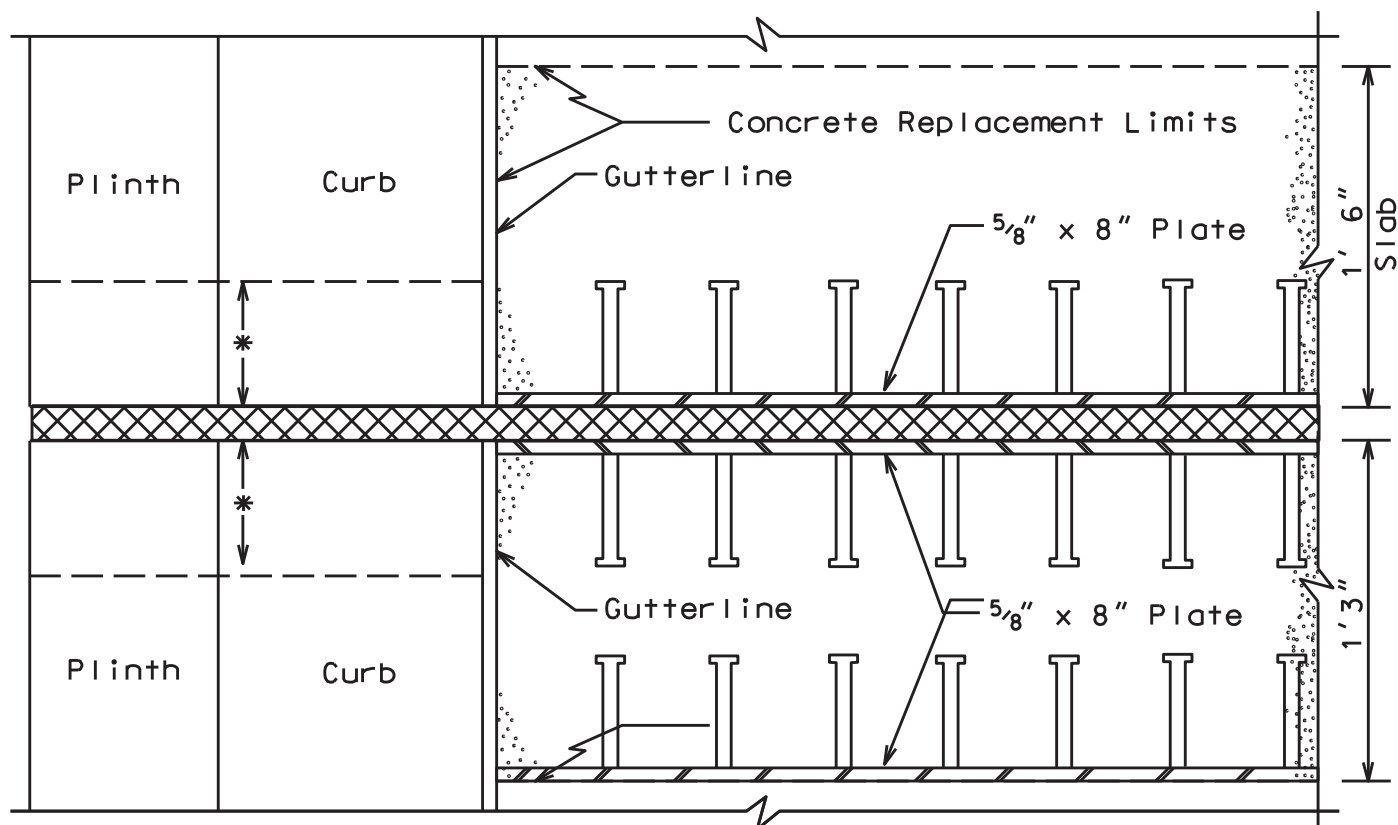
Typical Section

111B0002 (R)

(REVISED: 6-24-14)

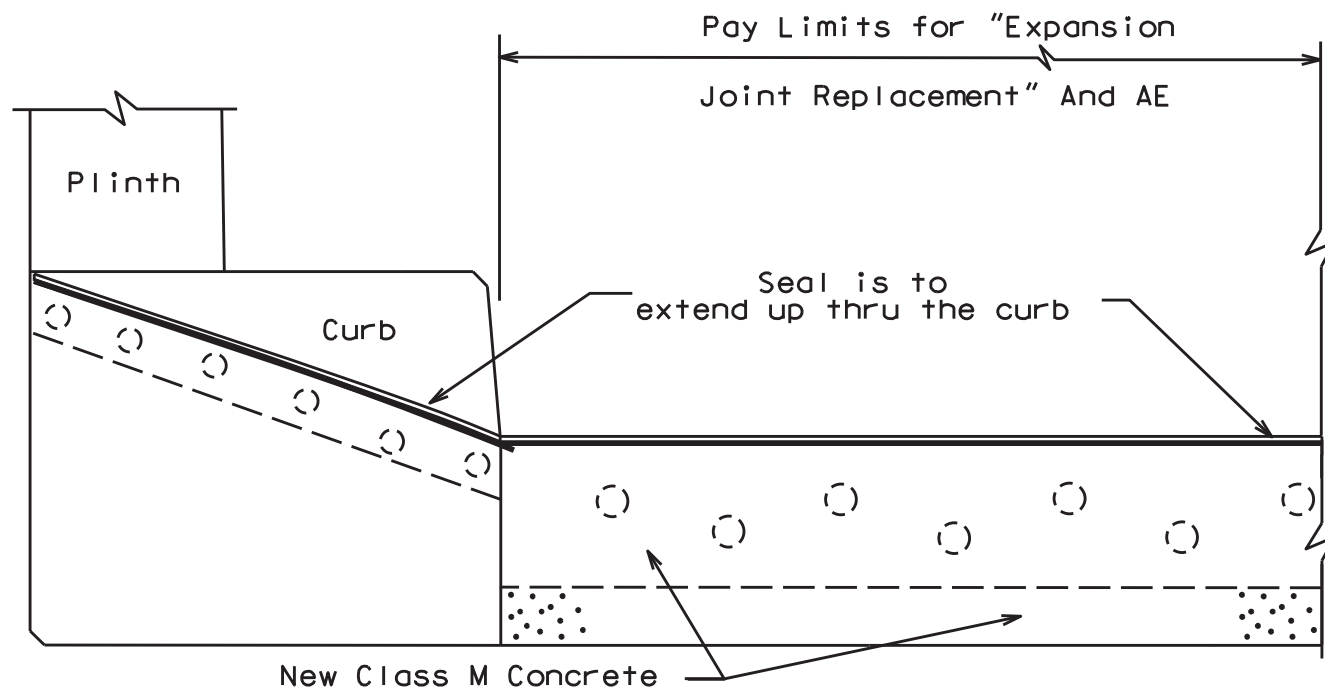
Not to Scale

# CURB SECTION SKEW NOT SHOWN



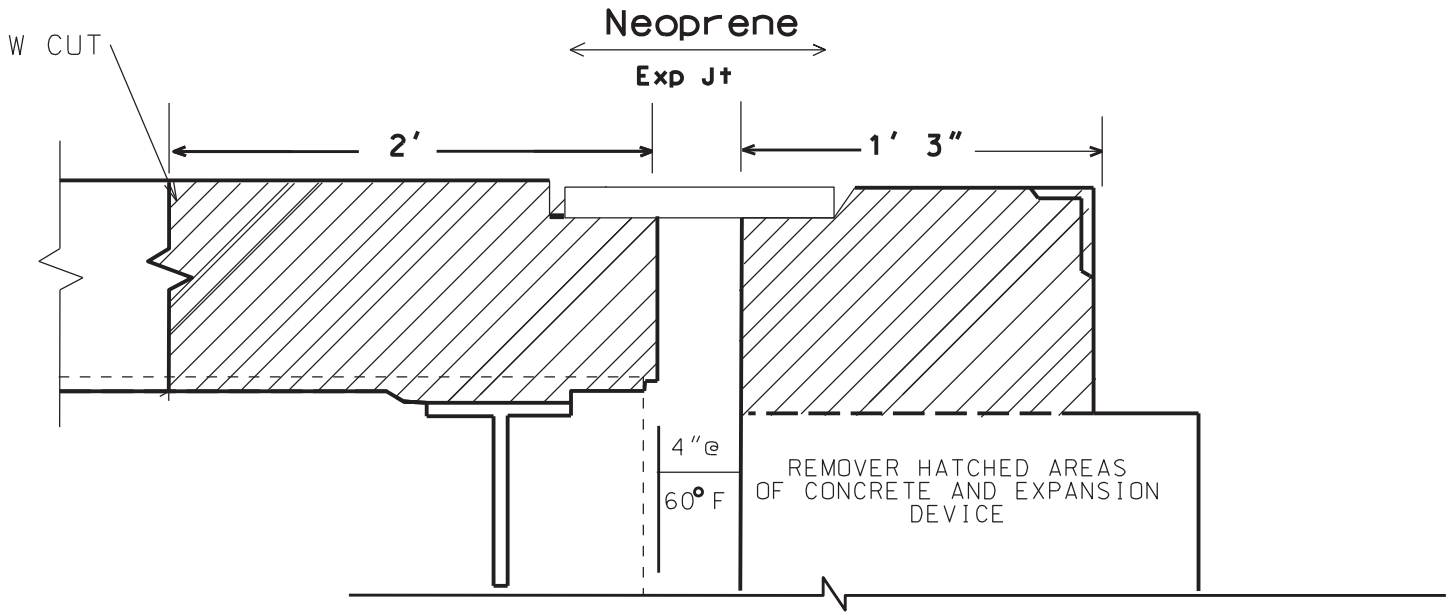
\* Remove and replace curb as directed by the Engineer to match proposed Expansion Joints (Incidental to "Expansion Joint Replacement").

## PLAN VIEW @ CURB

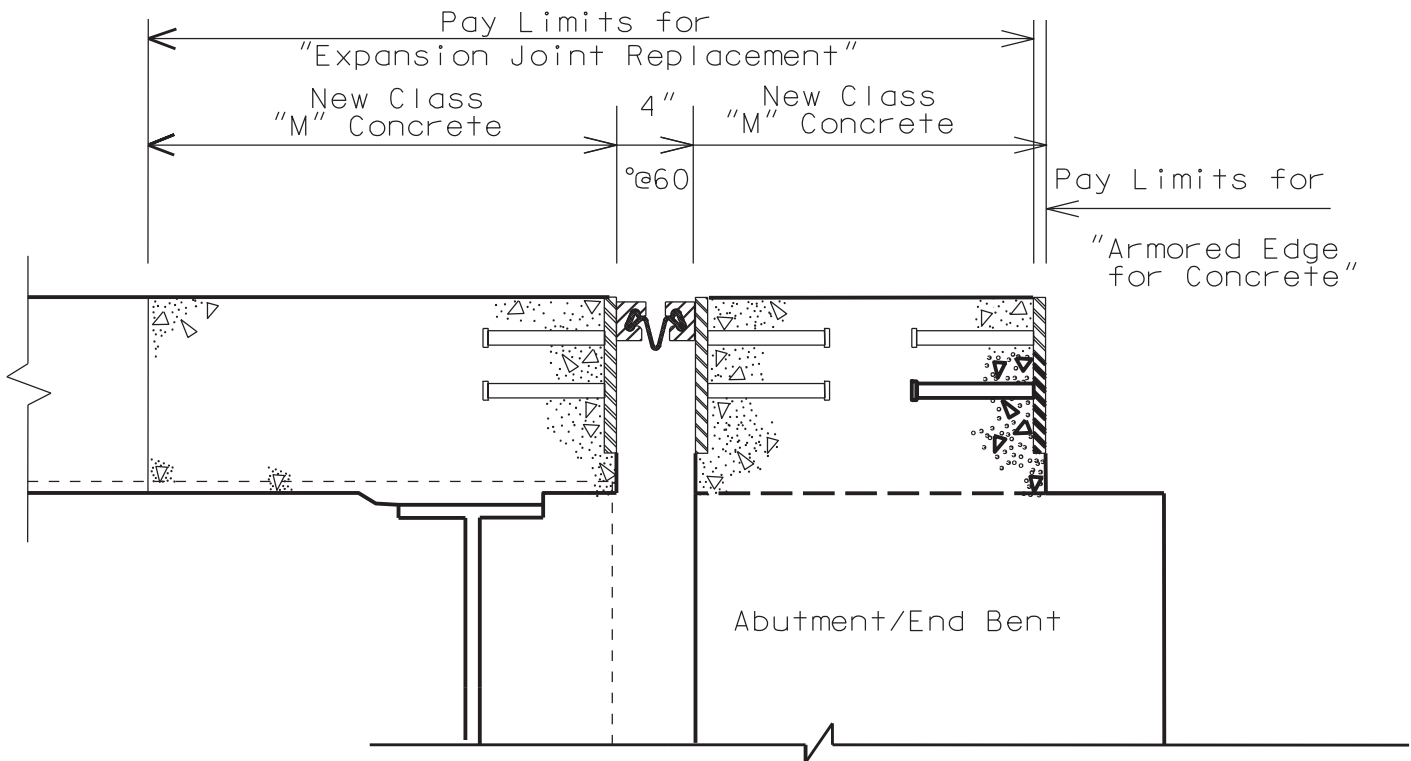


## PROPOSED SECTION @ CURB

# 111 0024 B000027R



## EXISTING AS BUILT SECTIONS

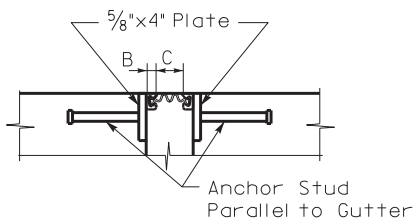


## PROPOSED SECTION

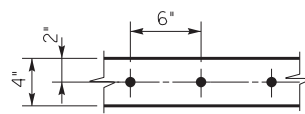
See Std. Drwg.  
BJE-001-10

111B00027R  
AE AT CURB, SIDEWALK,  
AND PLINTH  
111B00000R  
AE AT CURB, SIDEWALK,  
AND PLINTH

AE AT PLINTH  
NOT TO SCALE

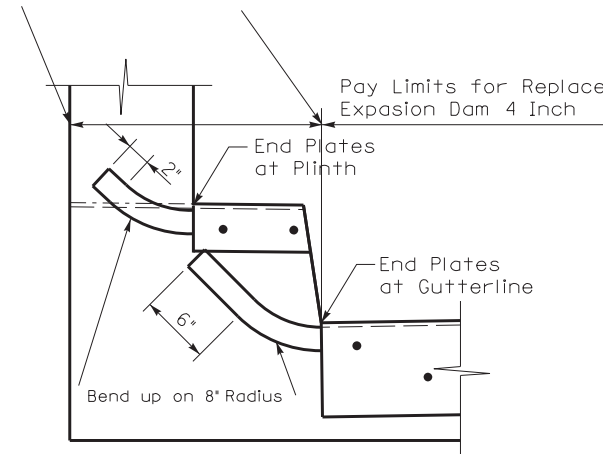


**JOINT SECTION @ PLINTH**



**STUD PATTERN**  
(Plinth)

Incidental to Replace  
Expansion Dam 4 Inch



## Right-of-Way Certification Form

*Revised 2/22/11*

Federal Funded

Original

State Funded

Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: June 4, 2014

Project Name: Concrete Repairs & Bridge Maintenance on I-24

Letting Date: July 11, 2014

Project #: \_\_\_\_\_

County: Lyon/Caldwell/Trigg

Item #: 01-2043.00

Federal #: N/A

Description of Project: PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 TO MP 76 IN LYON, CALDWELL, TRIGG.

### Projects that require **NO** new or additional right-of-way acquisitions and/or relocations

- The proposed transportation improvement will be built within the existing rights-of-way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

### Projects that require new or additional right-of-way acquisitions and/or relocations

- Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)
- Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.
- Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

**Note 1:** The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of all Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.



# Right-of-Way Certification Form

Revised 2/22/11

**Condition 3.** The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

**Note 2:** The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved:	<u>Greg L. Morgan</u> Printed Name	<u>[Signature]</u> Signature	<u>6/4/14</u> Right-of-Way Supervisor
Approved:	<u>DM Loy</u> Printed Name	<u>[Signature]</u> Signature	<u>Acting 04 June 2014</u> KYTC, Director of ROW & Utilities
Approved:	_____ Printed Name	_____ Signature	_____ FHWA, ROW Officer (when applicable)

# Right-of-Way Certification Form

Revised 2/22/11

Date: June 4, 2014

Project Name: Concrete Repairs & Bridge Maintenance on I-24

Project #: \_\_\_\_\_

County: Lyon/Caldwell/Trigg

Item #: 01-2043.00

Federal #: N/A

Letting Date: July 11, 2014

This project has 0 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

0 Parcels where acquired by a signed fee simple deed and fair market value has been paid

0 Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court

0 Parcels have not been acquired at this time (*explain below for each parcel*)

0 Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court (*explain below for each parcel*)

0 Relocatees have not been relocated from parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ (*explain below for each parcel*)

Parcel #	Name/Station	Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value	Proposed date of payment or of relocation

There are 0 billboards and/or 0 cemeteries involved on this project.

There are 0 water or monitoring wells on parcels \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006

Last Revised: February 22, 2011

## SPECIAL NOTES FOR UTILITY CLEARANCE

### IMPACT ON CONSTRUCTION

**LYON COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**GENERAL PROJECT NOTE ON UTILITY PROTECTION**

N/A

(List N/A or None when applicable)

**NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS**

N/A

(List N/A or None when applicable)

**\*The Contractor is fully responsible for protection of all utilities listed above\***

**THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION**

N/A

(List N/A or None when applicable)

**THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT**

N/A

(List N/A or None when applicable)

**(NOTE: Use the following Text Only If Applicable)** The Department will consider submission of a bid as the Contractor's agreement to not make any claims for additional compensation due to delays or other conditions created by the operations of (Utility Company(s) Name). Working days will not be charged for those days on which work on (Utility Company(s) Name) facilities is delayed, as provided in the current edition of the KY Standard Specifications for Road and Bridge Construction. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to the project, the KYTC Resident Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his decision shall be final and binding upon the Contractor. .]

**THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT**

N/A

(List N/A or None when applicable)

## **SPECIAL NOTES FOR UTILITY CLEARANCE**

### **IMPACT ON CONSTRUCTION**

**LYON COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

#### **SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES**

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

#### **BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

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***Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.***

**SPECIAL NOTES FOR UTILITY CLEARANCE**  
**IMPACT ON CONSTRUCTION**

**LYON COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**AREA UTILITIES CONTACT LIST**

Utility Company/Agency

Contact Name

Contact Information

## SPECIAL NOTES FOR UTILITY CLEARANCE IMPACT ON CONSTRUCTION

**CALDWELL COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**GENERAL PROJECT NOTE ON UTILITY PROTECTION**

N/A

(List N/A or None when applicable)

**NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS**

N/A

(List N/A or None when applicable)

**\*The Contractor is fully responsible for protection of all utilities listed above\***

**THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION**

N/A

(List N/A or None when applicable)

**THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT**

N/A

(List N/A or None when applicable)

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**THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT**

N/A

(List N/A or None when applicable)

**SPECIAL NOTES FOR UTILITY CLEARANCE**  
**IMPACT ON CONSTRUCTION**

**CALDWELL COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES**

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**SPECIAL NOTES FOR UTILITY CLEARANCE**  
**IMPACT ON CONSTRUCTION**

**CALDWELL COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**AREA UTILITIES CONTACT LIST**

Utility Company/Agency

Contact Name

Contact Information



## SPECIAL NOTES FOR UTILITY CLEARANCE IMPACT ON CONSTRUCTION

**TRIGG COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**GENERAL PROJECT NOTE ON UTILITY PROTECTION**

N/A

(List N/A or None when applicable)

**NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS**

N/A

(List N/A or None when applicable)

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(List N/A or None when applicable)

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N/A

(List N/A or None when applicable)

**SPECIAL NOTES FOR UTILITY CLEARANCE**  
**IMPACT ON CONSTRUCTION**

**TRIGG COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

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**SPECIAL NOTES FOR UTILITY CLEARANCE**  
**IMPACT ON CONSTRUCTION**

**TRIGG COUNTY,  
PREVENTATIVE MAINTENANCE CONCRETE REPAIRS &  
BRIDGE MAINTENANCE REPAIRS ON I-24, MP 45 TO MP 70  
SIX YEAR PLAN ITEM NUMBER 1-2043.00**

**AREA UTILITIES CONTACT LIST**

Utility Company/Agency

Contact Name

Contact Information

# MATERIAL SUMMARY

**CONTRACT ID: 141242**

**121GR14D042 - FD04**

**DE01700241442**

INTERSTATE 24 (CALDWELL COUNTY) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 AND MP 69 IN LYON, CALDWELL AND TRIGG COUNTIES ASPHALT PAVEMENT & ROADWAY REHAB.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	00001	DGA BASE	357.00	TON
0020	00005	GEOGRID REINFORCEMENT FOR SUBGRADE	238.00	SQYD
0030	02058	REMOVE PCC PAVEMENT	2,234.00	SQYD
0040	02071	JPC PAVEMENT-11 IN	2,234.00	SQYD
0050	02599	FABRIC-GEOTEXTILE TYPE IV	839.00	SQYD
0060	01000	PERFORATED PIPE-4 IN	119.00	LF
0070	01010	NON-PERFORATED PIPE-4 IN	60.00	LF
0080	01020	PERF PIPE HEADWALL TY 1-4 IN	2.00	EACH
0090	02562	TEMPORARY SIGNS	1,191.00	SQFT
0100	02650	MAINTAIN & CONTROL TRAFFIC - (CALDWELL COUNTY)	1.00	LS
0110	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0120	02726	STAKING - (CALDWELL COUNTY)	1.00	LS
0130	02775	ARROW PANEL	2.00	EACH
0140	06511	PAVE STRIPING-TEMP PAINT-6 IN	6,701.00	LF
0150	06549	PAVE STRIPING-TEMP REM TAPE-B	595.00	LF
0160	06550	PAVE STRIPING-TEMP REM TAPE-W	298.00	LF
0170	06551	PAVE STRIPING-TEMP REM TAPE-Y	298.00	LF
0180	06592	PAVEMENT MARKER TYPE V-B W/R	12.00	EACH
0190	10020NS	FUEL ADJUSTMENT	610.00	DOLL
0200	21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS	595.00	LF
0210	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL - (CALDWELL COUNTY)	1.00	LS
0220	24094EC	PARTIAL DEPTH PATCHING	12.00	CUYD
0230	24189ER	DURABLE WATERBORNE MARKING-6 IN W	33,620.00	LF
0240	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	26,896.00	LF
0250	24191ER	DURABLE WATERBORNE MARKING-12 IN W	595.00	LF
0260	02568	MOBILIZATION	1.00	LS
0270	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 141242**

**121GR14D042 - FD04**

**DE07200241442**

INTERSTATE 24 (LYON COUNTY) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 TO MP 69 IN LYON, CALDWELL, AND TRIGG COUNTIES. ASPHALT PAVEMENT & ROADWAY REHAB.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	00001	DGA BASE	887.00	TON
0020	00005	GEOGRID REINFORCEMENT FOR SUBGRADE	591.00	SQYD
0030	02058	REMOVE PCC PAVEMENT	1,766.00	SQYD
0040	02071	JPC PAVEMENT-11 IN	1,766.00	SQYD
0050	02599	FABRIC-GEOTEXTILE TYPE IV	2,085.00	SQYD
0060	01000	PERFORATED PIPE-4 IN	296.00	LF
0070	01010	NON-PERFORATED PIPE-4 IN	148.00	LF
0080	01020	PERF PIPE HEADWALL TY 1-4 IN	6.00	EACH
0090	02562	TEMPORARY SIGNS	2,957.00	SQFT
0100	02650	MAINTAIN & CONTROL TRAFFIC - (LYON COUNTY)	1.00	LS
0110	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0120	02726	STAKING - (LYON COUNTY)	1.00	LS
0130	02775	ARROW PANEL	2.00	EACH
0140	06511	PAVE STRIPING-TEMP PAINT-6 IN	5,299.00	LF
0150	06549	PAVE STRIPING-TEMP REM TAPE-B	1,478.00	LF
0160	06550	PAVE STRIPING-TEMP REM TAPE-W	739.00	LF
0170	06551	PAVE STRIPING-TEMP REM TAPE-Y	739.00	LF
0180	06592	PAVEMENT MARKER TYPE V-B W/R	30.00	EACH
0190	10020NS	FUEL ADJUSTMENT	1,515.00	DOLL
0200	21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS	1,478.00	LF
0210	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL - (LYON COUNTY)	1.00	LS
0220	24094EC	PARTIAL DEPTH PATCHING	30.00	CUYD
0230	24189ER	DURABLE WATERBORNE MARKING-6 IN W	83,497.00	LF
0240	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	66,797.00	LF
0250	24191ER	DURABLE WATERBORNE MARKING-12 IN W	1,478.00	LF
0260	02568	MOBILIZATION	1.00	LS
0270	02569	DEMOBILIZATION	1.00	LS

**CONTRACT ID: 141242**

**121GR14D042 - FD04**

**DE11100241442**

INTERSTATE 24 (TRIGG COUNTY) PREVENTATIVE MAINTENANCE CONCRETE REPAIRS AND BRIDGE MAINTENANCE REPAIRS ON I-24 BETWEEN MP 45 TO MP 69 IN LYON, CALDWELL AND TRIGG COUNTIES. ASPHALT PAVEMENT & ROADWAY REHAB.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0010	00001	DGA BASE	1,756.00	TON
0020	00005	GEOGRID REINFORCEMENT FOR SUBGRADE	1,171.00	SQYD
0030	02058	REMOVE PCC PAVEMENT	9,917.00	SQYD
0040	02071	JPC PAVEMENT-11 IN	9,917.00	SQYD
0050	02599	FABRIC-GEOTEXTILE TYPE IV	4,126.00	SQYD

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0060	01000	PERFORATED PIPE-4 IN	585.00	LF
0070	01010	NON-PERFORATED PIPE-4 IN	293.00	LF
0080	01020	PERF PIPE HEADWALL TY 1-4 IN	12.00	EACH
0090	02562	TEMPORARY SIGNS	5,853.00	SQFT
0100	02650	MAINTAIN & CONTROL TRAFFIC - (TRIGG COUNTY)	1.00	LS
0110	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0120	02726	STAKING - (TRIGG COUNTY)	1.00	LS
0130	02775	ARROW PANEL	2.00	EACH
0140	06511	PAVE STRIPING-TEMP PAINT-6 IN	29,750.00	LF
0150	06549	PAVE STRIPING-TEMP REM TAPE-B	2,926.00	LF
0160	06550	PAVE STRIPING-TEMP REM TAPE-W	1,463.00	LF
0170	06551	PAVE STRIPING-TEMP REM TAPE-Y	1,463.00	LF
0180	06592	PAVEMENT MARKER TYPE V-B W/R	59.00	EACH
0190	10020NS	FUEL ADJUSTMENT	2,998.00	DOLL
0200	21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS	2,926.00	LF
0210	23143ED	KPDES PERMIT AND TEMP EROSION CONTROL - (TRIGG COUNTY)	1.00	LS
0220	24094EC	PARTIAL DEPTH PATCHING	59.00	CUYD
0230	24189ER	DURABLE WATERBORNE MARKING-6 IN W	165,277.00	LF
0240	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	132,222.00	LF
0250	24191ER	DURABLE WATERBORNE MARKING-12 IN W	2,926.00	LF
0260	02003	RELOCATE TEMP CONC BARRIER	500.00	LF
0270	02898	RELOCATE CRASH CUSHION	1.00	EACH
0280	03171	CONCRETE BARRIER WALL TYPE 9T	500.00	LF
0290	03298	EXPAN JOINT REPLACE 4 IN	81.00	LF
0300	03299	ARMORED EDGE FOR CONCRETE	81.00	LF
0310	08150	STEEL REINFORCEMENT	267.00	LB
0320	08504	EPOXY SAND SLURRY	92.00	SQYD
0330	08526	CONC CLASS M FULL DEPTH PATCH	10.00	CUYD
0340	08534	CONCRETE OVERLAY-LATEX	27.00	CUYD
0350	08549	BLAST CLEANING	740.00	SQYD
0360	08550	HYDRODEMOLITION	654.00	SQYD
0370	08903	CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH
0380	21669NN	POLICE OFFICER WITH VEHICLE	16.00	HOURL
0390	24094EC	PARTIAL DEPTH PATCHING	23.00	CUYD
0400	02003	RELOCATE TEMP CONC BARRIER	650.00	LF
0410	02898	RELOCATE CRASH CUSHION	1.00	EACH
0420	03171	CONCRETE BARRIER WALL TYPE 9T	650.00	LF
0430	08504	EPOXY SAND SLURRY	144.00	SQYD
0440	08526	CONC CLASS M FULL DEPTH PATCH	4.00	CUYD
0450	08534	CONCRETE OVERLAY-LATEX	55.00	CUYD
0460	08549	BLAST CLEANING	1,452.00	SQYD
0470	08550	HYDRODEMOLITION	1,308.00	SQYD
0480	08903	CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH
0490	21669NN	POLICE OFFICER WITH VEHICLE	16.00	HOURL
0500	24094EC	PARTIAL DEPTH PATCHING	46.00	CUYD
0510	02568	MOBILIZATION	1.00	LS
0520	02569	DEMOBILIZATION	1.00	LS

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

### **SPECIFICATIONS REFERENCE**

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



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

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

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<b>Number:</b>	3)						
<b>Revision:</b>	Replace the paragraph with the following: Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and 12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent to crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.						
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.						
<b>Part:</b>	B) Procedures for Permanent Seeding.						
<b>Revision:</b>	Delete the first sentence of the section.						
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.						
<b>Part:</b>	B) Procedures for Permanent Seeding.						
<b>Revision:</b>	Replace the second and third sentence of the section with the following: Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural limestone to the seedbed when the Engineer determines it is needed. When required, place agricultural limestone at a rate of 3 tons per acre.						
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.						
<b>Part:</b>	D) Top Dressing.						
<b>Revision:</b>	Change the title of part to D) Fertilizer.						
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.						
<b>Part:</b>	D) Fertilizer.						
<b>Revision:</b>	Replace the first paragraph with the following: Apply fertilizer at the beginning of the seeding operation and after vegetation is established. Use fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-10 fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000 square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional cost to the Department. Re-establish any vegetation severely damaged or destroyed because of an excessive application of fertilizer at no cost to the Department.						
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.						
<b>Part:</b>	D) Fertilizer.						
<b>Revision:</b>	Delete the second paragraph.						
<b>Subsection:</b>	212.04.04 Agricultural Limestone.						
<b>Revision:</b>	Replace the entire section with the following: The Department will measure the quantity of agricultural limestone in tons.						
<b>Subsection:</b>	212.04.05 Fertilizer.						
<b>Revision:</b>	Replace the entire section with the following: The Department will measure fertilizer used in the seeding or sodding operations for payment. The Department will measure the quantity by tons.						
<b>Subsection:</b>	212.05 PAYMENT.						
<b>Revision:</b>	Delete the following item code:						
	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Pay Item</u></th> <th><u>Pay Unit</u></th> </tr> </thead> <tbody> <tr> <td>05966</td> <td>Topdressing Fertilizer</td> <td>Ton</td> </tr> </tbody> </table>	<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	05966	Topdressing Fertilizer	Ton
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>					
05966	Topdressing Fertilizer	Ton					

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<b>Subsection:</b>	212.05 PAYMENT.												
<b>Revision:</b>	Add the following pay items:												
	<table border="1"> <thead> <tr> <th>Code</th> <th>Pay Item</th> <th>Pay Unit</th> </tr> </thead> <tbody> <tr> <td>05963</td> <td>Initial Fertilizer</td> <td>Ton</td> </tr> <tr> <td>05964</td> <td>20-10-10 Fertilizer</td> <td>Ton</td> </tr> <tr> <td>05992</td> <td>Agricultural Limestone</td> <td>Ton</td> </tr> </tbody> </table>	Code	Pay Item	Pay Unit	05963	Initial Fertilizer	Ton	05964	20-10-10 Fertilizer	Ton	05992	Agricultural Limestone	Ton
Code	Pay Item	Pay Unit											
05963	Initial Fertilizer	Ton											
05964	20-10-10 Fertilizer	Ton											
05992	Agricultural Limestone	Ton											
<b>Subsection:</b>	213.03.02 Progress Requirements.												
<b>Revision:</b>	Replace the last sentence of the third paragraph with the following: Additionally, the Department will apply a penalty equal to the liquidated damages when all aspects of the work are not coordinated in an acceptable manner within 7 calendar days after written notification.												
<b>Subsection:</b>	213.03.05 Temporary Control Measures.												
<b>Part:</b>	E) Temporary Seeding and Protection.												
<b>Revision:</b>	Delete the second sentence of the first paragraph.												
<b>Subsection:</b>	304.02.01 Physical Properties.												
<b>Table:</b>	Required Geogrid Properties												
<b>Revision:</b>	Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.												
<b>Subsection:</b>	402.03.02 Contractor Quality Control and Department Acceptance.												
<b>Part:</b>	B) Sampling.												
<b>Revision:</b>	Replace the second sentence with the following: The Department will determine when to obtain the quality control samples using the random-number feature of the mix design submittal and approval spreadsheet. The Department will randomly determine when to obtain the verification samples required in Subsections 402.03.03 and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.												
<b>Subsection:</b>	402.03.02 Contractor Quality Control and Department Acceptance.												
<b>Part:</b>	D) Testing Responsibilities.												
<b>Number:</b>	3) VMA.												
<b>Revision:</b>	Add the following paragraph below Number 3) VMA: Retain the AV/VMA specimens and one additional corresponding $G_{mm}$ sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens from the affected subplot(s) for the duration of the project.												
<b>Subsection:</b>	402.03.02 Contractor Quality Control and Department Acceptance.												
<b>Part:</b>	D) Testing Responsibilities.												
<b>Number:</b>	4) Density.												
<b>Revision:</b>	Replace the second sentence of the Option A paragraph with the following: Perform coring by the end of the following work day.												
<b>Subsection:</b>	402.03.02 Contractor Quality Control and Department Acceptance.												
<b>Part:</b>	D) Testing Responsibilities.												
<b>Number:</b>	5) Gradation.												
<b>Revision:</b>	Delete the second paragraph.												

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

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<b>Subsection:</b>	402.03.03 Verification.
<b>Part:</b>	C) Test Data Patterns.
<b>Revision:</b>	Replace the second sentence with the following: When patterns indicate substantial differences between the verified and non-verified sublots, the Department will perform further comparative testing according to subsection 402.03.05.
<b>Subsection:</b>	402.03 CONSTRUCTION.
<b>Revision:</b>	Add the following subsection: <b>402.03.04 Testing Equipment and Technician Verification.</b> For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the Department will obtain an additional verification sample at random using the Asphalt Mixture Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and Department's laboratory testing equipment and technicians. The Department will obtain a mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split it according to AASHTO R 47. The Department will retain one split portion of the sample and provide the other portion to the Contractor. At a later time convenient to both parties, the Department and Contractor will simultaneously reheat the sample to the specified compaction temperature and test the mixture for AV and VMA using separate laboratory equipment according to the corresponding procedures given in Subsection 402.03.02. The Department will evaluate the differences in test results between the two laboratories. When the difference between the results for AV or VMA is not within $\pm 2.0$ percent, the Department will investigate
<b>Subsection:</b>	402.03.04 Dispute Resolution.
<b>Revision:</b>	Change the subsection number to 402.03.05.
<b>Subsection:</b>	402.05 PAYMENT.
<b>Part:</b>	Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures
<b>Table:</b>	AC
<b>Revision:</b>	Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to $\pm 0.6$ .
<b>Subsection:</b>	403.02.10 Material Transfer Vehicle (MTV).
<b>Revision:</b>	Replace the first sentence with the following: In addition to the equipment specified above, provide a MTV with the following minimum characteristics:
<b>Subsection:</b>	412.02.09 Material Transfer Vehicle (MTV).
<b>Revision:</b>	Replace the paragraph with the following: Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.
<b>Subsection:</b>	412.03.07 Placement and Compaction.
<b>Revision:</b>	Replace the first paragraph with the following: Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on ramps and/or shoulders unless specified in the contract. When the Engineer determines the use of the MTV is not practical for a portion of the project, the Engineer may waive its requirement for that portion of pavement by a letter documenting the waiver.
<b>Subsection:</b>	412.04 MEASUREMENT.
<b>Revision:</b>	Add the following subsection: 412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for payment and will consider its use incidental to the asphalt mixture.

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<b>Subsection:</b>	501.03.19 Surface Tolerances and Testing Surface.
<b>Part:</b>	B) Ride Quality.
<b>Revision:</b>	Add the following to the end of the first paragraph: The Department will specify if the ride quality requirements are Category A or Category B when ride quality is specified in the Contract. Category B ride quality requirements shall apply when the Department fails to classify which ride quality requirement will apply to the Contract.
<b>Subsection:</b>	603.03.06 Cofferdams.
<b>Revision:</b>	Replace the seventh sentence of paragraph one with the following: Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.
<b>Subsection:</b>	605.03.04 Tack Welding.
<b>Revision:</b>	Insert the subsection and the following: 605.03.04 Tack Welding. The Department does not allow tack welding.
<b>Subsection:</b>	606.03.17 Special Requirements for Latex Concrete Overlays.
<b>Part:</b>	A) Existing Bridges and New Structures.
<b>Number:</b>	1) Prewetting and Grout-Bond Coat.
<b>Revision:</b>	Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition.
<b>Subsection:</b>	609.03 Construction.
<b>Revision:</b>	Replace Subsection 609.03.01 with the following: 609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast concrete release the temporary erection supports under the bridge and swing the span free on its supports. 609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the beam is placed in the final location and prior to placing steel reinforcement. At locations where lift loops are cut, paint the top of the beam with galvanized or epoxy paint.
<b>Subsection:</b>	611.03.02 Precast Unit Construction.
<b>Revision:</b>	Replace the first sentence of the subsection with the following: Construct units according to ASTM C1577, <b>replacing Table 1 (Design Requirements for Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions) with KY Table 1 (Precast Culvert KYHL-93 Design Table)</b> , and Section 605 with the following exceptions and additions:
<b>Subsection:</b>	613.03.01 Design.
<b>Number:</b>	2)
<b>Revision:</b>	Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications"
<b>Subsection:</b>	615.06.02
<b>Revision:</b>	Add the following sentence to the end of the subsection. The ends of units shall be normal to walls and centerline except exposed edges shall be beveled ¾ inch.
<b>Subsection:</b>	615.06.03 Placement of Reinforcement in Precast 3-Sided Units.
<b>Revision:</b>	Replace the reference of 6.6 in the section to 615.06.06.

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<b>Subsection:</b>	615.06.04 Placement of Reinforcement for Precast Endwalls.
<b>Revision:</b>	Replace the reference of 6.7 in the section to 615.06.07.
<b>Subsection:</b>	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.
<b>Revision:</b>	Replace the subsection with the following: Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric shall be measured between the outer most longitudinal wires of each fabric sheet. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no more than 4 inches. The spacing center to center of the longitudinal wires shall not be more than 8 inches. The spacing center to center of the longitudinal distribution steel for either line of reinforcing in the top slab shall be not more than 16 inches.
<b>Subsection:</b>	615.06.07 Laps, Welds, and Spacing for Precast Endwalls.
<b>Revision:</b>	Replace the subsection with the following: Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.
<b>Subsection:</b>	615.08.01 Type of Test Specimen.
<b>Revision:</b>	Replace the subsection with the following: Start-up slump, air content, unit weight, and temperature tests will be performed each day on the first batch of concrete. Acceptable start-up results are required for production of the first unit. After the first unit has been established, random acceptance testing is performed daily for each 50 yd <sup>3</sup> (or fraction thereof). In addition to the slump, air content, unit weight, and temperature tests, a minimum of one set of cylinders shall be required each time plastic property testing is performed.
<b>Subsection:</b>	615.08.02 Compression Testing.
<b>Revision:</b>	Delete the second sentence.
<b>Subsection:</b>	615.08.04 Acceptability of Core Tests.
<b>Revision:</b>	Delete the entire subsection.



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<b>Subsection:</b>	615.12 Inspection.																																																																
<b>Revision:</b>	Add the following sentences to the end of the subsection: Units will arrive at jobsite with the "Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the production facility. Units shall be inspected upon arrival for any evidence of damage resulting from transport to the jobsite.																																																																
<b>Subsection:</b>	716.02.02 Paint.																																																																
<b>Revision:</b>	Replace sentence with the following: Conform to Section 821.																																																																
<b>Subsection:</b>	716.03 CONSTRUCTION.																																																																
<b>Revision:</b>	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,																																																																
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.																																																																
<b>Revision:</b>	Replace the second sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.																																																																
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.																																																																
<b>Part:</b>	A) Conventional Installation.																																																																
<b>Revision:</b>	Replace the third sentence with the following: Orient the transformer base so the door is positioned on the side away from on-coming traffic.																																																																
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.																																																																
<b>Part:</b>	A) Conventional Installation.																																																																
<b>Number:</b>	1) Breakaway Installation and Requirements.																																																																
<b>Revision:</b>	Replace the first sentence with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.																																																																
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.																																																																
<b>Part:</b>	B) High Mast Installation																																																																
<b>Revision:</b>	Replace the first sentence with the following: Install each high mast pole as noted on plans.																																																																
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.																																																																
<b>Part:</b>	B) High Mast Installation																																																																
<b>Number:</b>	2) Concrete Base Installation																																																																
<b>Revision:</b>	Modification of Chart and succeeding paragraphs within this section:																																																																
	<table border="1"> <tr> <th colspan="8">Drilled Shaft Depth Data</th> </tr> <tr> <th colspan="2">Level Ground</th> <th colspan="2">3:1 Ground Slope</th> <th colspan="2">2:1 Ground Slope</th> <th colspan="2">1.5:1 Ground Slope <sup>(2)</sup></th> </tr> <tr> <th>Soil</th> <th>Rock</th> <th>Soil</th> <th>Rock</th> <th>Soil</th> <th>Rock</th> <th>Soil</th> <th>Rock</th> </tr> <tr> <td>17 ft</td> <td>7 ft</td> <td>19 ft</td> <td>7 ft</td> <td>20 ft</td> <td>7 ft</td> <td><sup>(1)</sup></td> <td>7 ft</td> </tr> <tr> <th colspan="8">Steel Requirements</th> </tr> <tr> <th colspan="4">Vertical Bars</th> <th colspan="4">Ties or Spiral</th> </tr> <tr> <th>Size</th> <th>Total</th> <th>Size</th> <th colspan="5">Spacing or Pitch</th> </tr> <tr> <td>#10</td> <td>16</td> <td>#4</td> <td colspan="5">12 inch</td> </tr> </table>	Drilled Shaft Depth Data								Level Ground		3:1 Ground Slope		2:1 Ground Slope		1.5:1 Ground Slope <sup>(2)</sup>		Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock	17 ft	7 ft	19 ft	7 ft	20 ft	7 ft	<sup>(1)</sup>	7 ft	Steel Requirements								Vertical Bars				Ties or Spiral				Size	Total	Size	Spacing or Pitch					#10	16	#4	12 inch				
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	<p>(1): Shaft length is 22' for cohesive soil only. For cohesionless soil, contact geotechnical branch for design. (2): Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic.</p> <p>If rock is encountered during drilling operations and confirmed by the engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted accordingly.</p> <p>If a shorter depth is desired for the drilled shaft, the contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.</p> <p>Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the geotechnical branch if such conditions are encountered.</p> <p>The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.</p> <p>The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.</p>
<p><b>Subsection:</b> <b>Part:</b> <b>Revision:</b></p>	<p>716.03.03 Trenching. A) Trenching of Conduit for Highmast Ducted Cables. Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.</p>
<p><b>Subsection:</b> <b>Part:</b> <b>Revision:</b></p>	<p>716.03.03 Trenching. B) Trenching of Conduit for Non-Highmast Cables. Add the following after the second sentence: If depths greater than 24 inches are necessary for either situation listed previously, obtain the Engineer's approval and maintain the required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.</p>
<p><b>Subsection:</b> <b>Revision:</b></p>	<p>716.03.10 Junction Boxes. Replace subsection title with the following: Electrical Junction Box.</p>

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<b>Subsection:</b>	716.04.07 Pole with Secondary Control Equipment.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.08 Lighting Control Equipment.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure constructing the concrete base, excavation, backfilling, restoration, any necessary anchors, or electrical inspection fees, and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, and ground wires and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.09 Luminaire.
<b>Revision:</b>	Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
<b>Subsection:</b>	716.04.10 Fused Connector Kits.
<b>Revision:</b>	Replace the first sentence with the following: The Department will measure the quantity as each individual unit furnished and installed.
<b>Subsection:</b>	716.04.13 Junction Box.
<b>Revision:</b>	Replace the subsection title with the following: Electrical Junction Box Type Various.
<b>Subsection:</b>	716.04.13 Junction Box.
<b>Part:</b>	A) Junction Electrical.
<b>Revision:</b>	Rename A) Junction Electrical to the following: A) Electrical Junction Box.
<b>Subsection:</b>	716.04.14 Trenching and Backfilling.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.18 Remove Lighting.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as a lump sum for the removal of lighting equipment. The Department will not measure the disposal of all equipment and materials off the project by the contractor. The Department also will not measure the transportation of the materials and will consider them incidental to this item of work.

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<b>Subsection:</b>	716.04.20 Bore and Jack Conduit.															
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.															
<b>Subsection:</b>	716.05 PAYMENT.															
<b>Revision:</b>	Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:															
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<b>Subsection:</b>	723.02.02 Paint.															
<b>Revision:</b>	Replace sentence with the following: Conform to Section 821.															
<b>Subsection:</b>	723.03 CONSTRUCTION.															
<b>Revision:</b>	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,															
<b>Subsection:</b>	723.03.02 Poles and Bases Installation.															
<b>Revision:</b>	Replace the first sentence with the following: Regardless of the station and offset noted, locate all poles/bases behind the guardrail a minimum of four feet from the front face of the guardrail to the front face of the pole base.															
<b>Subsection:</b>	723.03.02 Poles and Bases Installation.															
<b>Part:</b>	A) Steel Strain and Mastarm Poles Installation															
<b>Revision:</b>	Replace the second paragraph with the following: For concrete base installation, see Section 716.03.02, B), 2), Paragraphs 2-7. Drilled shaft depth shall be based on the soil conditions encountered during drilling and slope condition at the site. Refer to the design chart below:															
<b>Subsection:</b>	723.03.02 Poles and Bases Installation.															
<b>Part:</b>	B) Pedestal or Pedestal Post Installation.															
<b>Revision:</b>	Replace the fourth sentence of the paragraph with the following: For breakaway supports, conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.															
<b>Subsection:</b>	723.03.03 Trenching.															
<b>Part:</b>	A) Under Roadway.															
<b>Revision:</b>	Add the following after the second sentence: If depths greater than 24 inches are necessary, obtain the Engineer's approval and maintain ether required conduit depths coming into the junction boxes. No payment for additional junction boxes for greater depths will be allowed.															
<b>Subsection:</b>	723.03.11 Wiring Installation.															
<b>Revision:</b>	Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.															

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<b>Subsection:</b>	723.03.12 Loop Installation.
<b>Revision:</b>	Replace the fifth sentence with the following: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.
<b>Subsection:</b>	723.04.02 Junction Box.
<b>Revision:</b>	Replace subsection title with the following: Electrical Junction Box Type Various.
<b>Subsection:</b>	723.04.03 Trenching and Backfilling.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape (if required), the restoration of disturbed areas to original condition, and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.10 Signal Pedestal.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, specified conduits, fittings, ground rod, ground wire, backfilling, restoring disturbed areas, or other necessary hardware and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.15 Loop Saw Slot and Fill.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, and grout and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.16 Pedestrian Detector.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished, installed and connected to pole/pedestal. The Department will not measure installing R10-3e (with arrow) sign, furnishing and installing mounting hardware for sign and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.18 Signal Controller- Type 170.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure furnishing and connecting the induction of loop amplifiers, pedestrian isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.20 Install Signal Controller - Type 170.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure constructing the concrete base or mounting the cabinet to the pole, connecting the signal and detectors, and excavation, backfilling, restoration, any necessary pole mounting hardware, electric service, or electrical inspection fees and will consider them incidental to this item of work. The Department will also not measure connecting the induction loop amplifiers, pedestrian, isolators, load switches, model 400 modem card; furnishing and installing electrical service conductors, specified conduits, anchors, meter base, fused cutout, fuses, ground rods, ground wires and will consider them incidental to this item of work.

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<b>Subsection:</b>	723.04.22 Remove Signal Equipment.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as a lump sum removal of signal equipment. The Department will not measure the return of control equipment and signal heads to the Department of Highways as directed by the District Traffic Engineer. The Department also will not measure the transportation of materials of the disposal of all other equipment and materials off the project by the contractor and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.28 Install Pedestrian Detector Audible.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure installing sign R10-3e (with arrow) and will consider it incidental to this item of work.
<b>Subsection:</b>	723.04.29 Audible Pedestrian Detector.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure furnishing and installing the sign R10-3e (with arrow) and will consider it incidental to this item of work.
<b>Subsection:</b>	723.04.30 Bore and Jack Conduit.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway. Construction methods shall be in accordance with Sections 706.03.02, paragraphs 1, 2, and 4.
<b>Subsection:</b>	723.04.31 Install Pedestrian Detector.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each individual unit installed and connected to pole/pedestal. The Department will not measure installing sign R 10-3e (with arrow) and will consider it incidental to this item of work.
<b>Subsection:</b>	723.04.32 Install Mast Arm Pole.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure arms, signal mounting brackets, anchor bolts, or any other necessary hardware and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.33 Pedestal Post.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, conduit, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.36 Traffic Signal Pole Base.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, reinforcing steel, anchor bolts, specified conduits, ground rods, ground wires, backfilling, or restoration and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.37 Install Signal Pedestal.
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.

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<b>Subsection:</b>	723.04.38 Install Pedestal Post.															
<b>Revision:</b>	Replace the second sentence with the following: The Department will not measure excavation, concrete, reinforcing steel, anchor bolts, specified conduits, fittings, ground rod, ground wire, backfilling, restoration, or any other necessary hardware and will consider them incidental to this item of work.															
<b>Subsection:</b>	723.05 PAYMENT.															
<b>Revision:</b>	Replace items 04810-04811, 20391NS835 and, 20392NS835 under <u>Code</u> , <u>Pay Item</u> , and <u>Pay Unit</u> with the following:															
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<b>Subsection:</b>	804.01.02 Crushed Sand.															
<b>Revision:</b>	Delete last sentence of the section.															
<b>Subsection:</b>	804.01.06 Slag.															
<b>Revision:</b>	Add subsection and following sentence. Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only in asphalt surface applications.															
<b>Subsection:</b>	804.04 Asphalt Mixtures.															
<b>Revision:</b>	Replace the subsection with the following: Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as necessary, to meet gradation requirements. The Department will allow any combination of natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved using cold feeds at the plant. The Engineer may allow other fine aggregates.															
<b>Subsection:</b>	813.04 Gray Iron Castings.															
<b>Revision:</b>	Replace the reference to "AASHTO M105" with "ASTM A48".															
<b>Subsection:</b>	813.09.02 High Strength Steel Bolts, Nuts, and Washers.															
<b>Number:</b>	A) Bolts.															
<b>Revision:</b>	Delete first paragraph and "Hardness Number" Table. Replace with the following: A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as applicable.															
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.															
<b>Revision:</b>	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".															
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.															
<b>Revision:</b>	Replace the first sentence of the fourth paragraph with the following: Use any of the species of wood for round or square posts covered under AWPA U1.															
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.															
<b>Revision:</b>	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1".															
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.															
<b>Revision:</b>	Delete the second sentence of the fourth paragraph.															

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<b>Subsection:</b>	814.05.02 Composite Plastic.
<b>Revision:</b>	1) Add the following to the beginning of the first paragraph: Select composite offset blocks conforming to this section and assure blocks are from a manufacturer included on the Department's List of Approved Materials. 2) Delete the last paragraph of the subsection.
<b>Subsection:</b>	816.07.02 Wood Posts and Braces.
<b>Revision:</b>	First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1".
<b>Subsection:</b>	816.07.02 Wood Posts and Braces.
<b>Revision:</b>	Delete the second sentence of the first paragraph.
<b>Subsection:</b>	818.07 Preservative Treatment.
<b>Revision:</b>	First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".
<b>Subsection:</b>	834.14 Lighting Poles.
<b>Revision:</b>	Replace the first sentence with the following: Lighting pole design shall be in accordance with loading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).
<b>Subsection:</b>	834.14.03 High Mast Poles.
<b>Revision:</b>	*Remove the second and fourth sentence from the first paragraph. *Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. *Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield strength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential welded tube butt splices and laminated tubes are not permitted. Provide pole sections that are telescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications. The thickness of the opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).
<b>Subsection:</b>	834.16 ANCHOR BOLTS.
<b>Revision:</b>	Insert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.
<b>Subsection:</b>	834.17.01 Conventional.
<b>Revision:</b>	Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage.



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

**Supplemental Specifications to the  
Standard Specifications for Road and Bridge Construction, 2012 Edition  
Effective with the June 27, 2014 Letting**

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

**Supplemental Specifications to the  
Standard Specifications for Road and Bridge Construction, 2012 Edition  
Effective with the June 27, 2014 Letting**

<b>Subsection:</b>	843.01.01 Geotextile Fabric.		
<b>Table:</b>	TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS		
<b>Revision:</b>	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value<sup>(1)</sup></u>	<u>Test Method</u>
	CBR Puncture (lbs)	210	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
<b>Subsection:</b>	843.01.01 Geotextile Fabric.		
<b>Table:</b>	TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT STABILIZATION		
<b>Revision:</b>	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value<sup>(1)</sup></u>	<u>Test Method</u>
	CBR Puncture (lbs)	370	ASTM D6241
	Permittivity (1/s)	0.05	ASTM D4491
<b>Subsection:</b>	843.01.01 Geotextile Fabric.		
<b>Table:</b>	TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND PAVEMENT EDGE DRAINS		
<b>Revision:</b>	Add the following to the chart:		
	<u>Property</u>	<u>Minimum Value<sup>(1)</sup></u>	<u>Test Method</u>
	CBR Puncture (lbs)	309	ASTM D6241
	Permittivity (1/s)	0.5	ASTM D4491
<b>Subsection:</b>	843.01.01 Geotextile Fabric.		
<b>Table:</b>	TYPE V HIGH STRENGTH GEOTEXTILE FABRIC		
<b>Revision:</b>	Make the following changes to the chart:		
	<u>Property</u>	<u>Minimum Value<sup>(1)</sup></u>	<u>Test Method</u>
	CBR Puncture (lbs)	618	ASTM D6241
	Grab Strength (lbs)	700	ASTM D4632
	Apparent Opening Size	U.S. #40 <sup>(3)</sup>	ASTM D4751
	<sup>(3)</sup> Maximum average roll value.		

## **PART III**

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

**TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

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

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

**I. APPLICATION**

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

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

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

**II. NONDISCRIMINATION OF EMPLOYEES**

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

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

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

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

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

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

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

**III. PAYMENT OF PREDETERMINED MINIMUM WAGES**

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

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

**IV. STATEMENTS AND PAYROLLS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Revised 2-16-95

## EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (6) provides:

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

KRS 11A.040 (8) states:

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

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

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

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

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

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

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

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

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

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

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

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



General Decision Number: KY140102 06/06/2014 KY102

Superseded General Decision Number: KY20130102

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster 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	Publication Date
0	01/03/2014
1	04/04/2014
2	04/18/2014
3	05/16/2014
4	05/23/2014
5	06/06/2014

BRIN0004-002 06/01/2013

BALLARD, BUTLER, CALDWELL, CARLISLE, CRITTENDEN, DAVIESS, EDMONSON, FULTON, GRAVES, HANCOCK, HENDERSON, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, MCLEAN, MUHLENBERG, OHIO, UNION, and WEBSTER COUNTIES

Rates Fringes

BRICKLAYER

Ballard, Caldwell, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, and McCracken Counties.....	\$ 24.11	10.30
Butler, Edmonson, Hopkins, Muhlenberg, and Ohio Counties.....	\$ 24.61	10.22
Daviess, Hancock, Henderson, McLean, Union, and Webster Counties.....	\$ 28.68	13.72

BRTN0004-005 05/01/2009

ALLEN, CALLOWAY, CHRISTIAN, LOGAN, SIMPSON, TODD, TRIGG, and WARREN COUNTIES

Rates Fringes

BRICKLAYER.....\$ 24.52 1.83

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 CARP0357-002 04/01/2014

	Rates	Fringes
CARPENTER.....	\$ 27.50	14.92
Diver.....	\$ 41.63	14.92
PILEDRIVERMAN.....	\$ 27.75	14.92

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 ELEC0369-006 05/29/2013

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 29.48	14.37

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 ELEC0429-001 02/01/2010

ALLEN & SIMPSON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 21.85	10.35

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 ELEC0816-002 06/01/2013

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,  
 FULTON (Except a 5 mile radius of City Hall in Fulton), GRAVES,  
 HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 30.40	25.5%+5.60

Cable spicers receive \$.25 per hour additional.

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 ELEC1701-003 06/01/2013

DAVISS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO,  
 UNION & WEBSTER COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 30.03	13.72

Cable spicers receive \$.25 per hour additional.

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 ELEC1925-002 06/01/2012

FULTON COUNTY (Up to a 5 mile radius of City Hall in Fulton):

	Rates	Fringes
CABLE SPLICER.....	\$ 25.00	10.27
ELECTRICIAN.....	\$ 25.00	10.43

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 ENGI0181-017 07/01/2013

	Rates	Fringes
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POWER EQUIPMENT OPERATOR

GROUP 1.....	\$ 28.00	13.90
GROUP 2.....	\$ 25.45	13.90
GROUP 3.....	\$ 25.85	13.90
GROUP 4.....	\$ 25.17	13.90

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 Concrete 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 equals or exceeds 150 ft. - \$1.00 above Group 1 rate

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

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\* IRON0070-005 06/01/2014

BUTLER COUNTY (Eastern eighth, including the Townships of  
Decker, Lee & Tilford);  
EDMONSON COUNTY (Northern three-fourths, including the  
Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff,  
Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda,  
Sunfish & Sweden)

Rates Fringes

IRONWORKER

Structural; Ornamental;  
Reinforcing; Precast  
Concrete Erectors.....\$ 26.97 19.75

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IRON0103-004 04/01/2013

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION &  
WEBSTER COUNTIES  
BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey,  
Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport,  
Monford, Morgantown, Provo, Rochester, South Hill & Welchs  
Creek);  
CALDWELL COUNTY (Northeastern third, including the Township of  
Creswell);  
CHRISTIAN COUNTY (Northern third, including the Townships of  
Apex, Crofton, Kelly, Mannington & Wynns);  
CRITTENDEN COUNTY (Northeastern half, including the Townships  
of Grove, Mattoon, Repton, Shady Grove & Tribune);  
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction,  
Benton, Brennen, Browder, Central City, Cleaton, Depoy,  
Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City,  
Martwick, McNary, Millport, Moorman, Nelson, Paradise,  
Powderly, South Carrollton, Tarina & Weir)

Rates Fringes

Ironworkers:.....\$ 27.82 16.555

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IRON0492-003 05/01/2013

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES  
BUTLER COUNTY (Southern third, including the Townships of  
Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar  
Grove & Woodbury);  
CHRISTIAN COUNTY (Eastern two-thirds, including the Townships  
of Bennettstown, Casky, Herndon, Hopkinsville, Howell,  
Masonville, Pembroke & Thompsonville);  
EDMONSON COUNTY (Southern fourth, including the Townships of  
Chalybeate & Rocky Hill);  
MUHLENBERG COUNTY (Southern eighth, including the Townships of  
Dunnior, Penrod & Rosewood)

	Rates	Fringes
Ironworkers:.....	\$ 23.84	10.96

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IRON0782-006 05/01/2013

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,  
 LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES  
 CALDWELL COUNTY (Southwestern two-thirds, including the  
 Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown,  
 Dulaney, Farmersville, Fredonia, McGowan, Otter Pond &  
 Princeton);  
 CHRISTIAN COUNTY (Western third, Excluding the Townships of  
 Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky,  
 Herndon, Hopkinsville, Howell, Masonville, Pembroke &  
 Thompsonville);  
 CRITTENDEN COUNTY (Southwestern half, including the Townships  
 of Crayne, Dycusburg, Frances, Marion, Mexico, Midway,  
 Sheridan & Told)

	Rates	Fringes
Ironworkers:		
Projects with a total contract cost of		
\$20,000,000.00 or above.....	\$ 26.46	19.91
All Other Work.....	\$ 24.95	18.65

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LABO0189-005 07/01/2013

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,  
 LIVINGSTON, LYON, MARSHALL & MCCRACKEN COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 20.95	12.01
GROUP 2.....	\$ 21.20	12.01
GROUP 3.....	\$ 21.25	12.01
GROUP 4.....	\$ 21.85	12.01

LABORER 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; Bushhammer; 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; Blaster; 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

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LABO0189-006 07/01/2013

ALLEN, BUTLER, CALDWELL, CHRISTIAN, DAVIESS, EDMONSON, HANCOCK, HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, SIMPSON, TODD, TRIGG & WARREN COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 21.96	11.00
GROUP 2.....	\$ 22.21	11.00
GROUP 3.....	\$ 22.26	11.00
GROUP 4.....	\$ 22.86	11.00

LABORER 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; Bushhammer; 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; Blaster; 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

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LABO0561-001 07/01/2013

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 21.11	12.25
GROUP 2.....	\$ 21.36	12.25
GROUP 3.....	\$ 21.41	12.25
GROUP 4.....	\$ 22.01	12.25

LABORER 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; Bushhammer; 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; Blaster; 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

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PAIN0032-002 05/01/2013

BALLARD COUNTY

	Rates	Fringes
Painters:		
Bridges.....	\$ 30.56	15.18
All Other Work.....	\$ 28.26	15.18
Spray, Blast, Steam, High & Hazardous (Including Lead Abatement) and All Epoxy - \$1.00 Premium		

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\* PAIN0118-003 06/01/2014

EDMONSON COUNTY:

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 18.50	12.02
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 19.00	12.02

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PAIN0156-006 04/01/2014

DAVISS, HANCOCK, HENDERSON, MCLEAN, OHIO, UNION & WEBSTER COUNTIES

	Rates	Fringes
Painters:		
BRIDGES		
GROUP 1.....	\$ 27.20	12.51
GROUP 2.....	\$ 27.45	12.51
GROUP 3.....	\$ 28.20	12.51
GROUP 4.....	\$ 29.20	12.51
ALL OTHER WORK:		
GROUP 1.....	\$ 26.05	12.51
GROUP 2.....	\$ 26.30	12.51
GROUP 3.....	\$ 27.05	12.51
GROUP 4.....	\$ 28.05	12.51

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

GROUP 3 - Spray; Sandblast; Power Tools; Waterblast; Steamcleaning; Brush & Roller of Mastics, Creosotes, Kwinch Koate & Coal Tar Epoxy

GROUP 4 - Spray of Mastics, Creosotes, Kwinch Koate & Coal Tar Epoxy



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PAIN0456-003 07/01/2011

ALLEN, BUTLER, LOGAN, MUHLENBERG, SIMPSON, TODD & WARREN  
COUNTIES:

	Rates	Fringes
Painters:		
BRIDGES		
Brush & Roller.....	\$ 22.55	9.65
Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning.....	\$ 23.55	9.65
ALL OTHER WORK		
Brush & Roller.....	\$ 17.55	9.65
Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning.....	\$ 18.55	9.65

ALL OTHER WORK - HIGH TIME PAY  
Over 35 feet (up to 100 feet) - \$1.00 above base wage  
100 feet and over - \$2.00 above base wage

DURING SPRAY PAINTING AND SANDBLASTING OPERATIONS, POT  
TENDERS SHALL RECEIVE THE SAME WAGE RATES AS THE SPRAY  
PAINTER OR NOZZLE OPERATOR

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\* PAIN0500-002 06/01/2014

CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON,  
GRAVES, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN  
& TRIGG COUNTIES:

	Rates	Fringes
Painters:		
Bridges.....	\$ 26.45	12.05
All Other Work.....	\$ 20.20	12.05

Waterblasting units with 3500 PSI and above - \$.50 premium  
Spraypainting and all abrasive blasting - \$1.00 premium  
Work 40 ft. and above ground level - \$1.00 premium

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PLUM0184-002 07/01/2013

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,  
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN  
and TRIGG COUNTIES

	Rates	Fringes
Plumber; Steamfitter.....	\$ 33.11	14.83

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PLUM0502-004 08/01/2013

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

	Rates	Fringes
Plumber; Steamfitter.....	\$ 32.00	17.17
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PLUM0633-002 08/01/2013		

DAVIESS, HANCOCK, HENDERSON, HOPKINS, LOGAN, MCLEAN,  
 MUHLENBERG, OHIO, TODD, UNION & WEBSTER COUNTIES:

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 29.87	14.25
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TEAM0089-003 03/30/2014		

ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
Zone 1:		
Group 1.....	\$ 19.58	17.83
Group 2.....	\$ 19.76	17.83
Group 3.....	\$ 19.84	17.83
Group 4.....	\$ 19.86	17.83

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic; Single Axle Dump; Flat Bed; All Terrain Vehicles when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors

GROUP 3 - Mixer All Types

GROUP 4 - Winch and A-Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker; Euclid and Other Heavy Earth Moving Equipment; Low Boy; Articulator Cat; Five Axle Vehicle

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 TEAM0215-003 03/31/2013

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO & WEBSTER COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 20.93	16.85
Group 2.....	\$ 21.16	16.85
Group 3.....	\$ 21.23	16.85
Group 4.....	\$ 21.24	16.85

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when

used to pull building materials and equipment; Tandem Axle  
Dump; Driver of Distributors; Mixer All Types

GROUP 4: Euclid and other heavy earth moving equipment; Low  
Boy; Articulator Cat; 5 Axle Vehicle; Winch and A- Frame  
when used in transporting materials; Ross Carrier; Fork  
Lift when used to transport building materials; Driver on  
Pavement Breaker

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TEAM0236-001 03/31/2013

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,  
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL,  
MCCRACKEN, TODD & TRIGG COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 19.38	16.85
Group 2.....	\$ 19.56	16.85
Group 3.....	\$ 19.56	16.85
Group 4.....	\$ 19.66	16.85
Group 5.....	\$ 19.64	16.85

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when  
used to haul materials; Semi Trailer or Pole Trailer when  
used to pull building materials and equipment; Tandem Axle  
Dump; Drivers of Distributors

GROUP 4: Euclid and other heavy earth moving equipment; Low  
Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame  
when used in transporting materials; Ross Carrier

GROUP 5: Mixer All Types

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

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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)).

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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 rates.

0000/9999: weighted union wage rates will be published annually each January.

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 majority 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.

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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.

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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-13-I-HWY dated April 15, 2013.

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.**

Diana Castle Radcliffe, P.E.  
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:

- 1) Commercial General Liability-Occurrence form – not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
  - a) \$100,000 Each Accident Bodily Injury
  - b) \$500,000 Policy limit Bodily Injury by Disease
  - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
  - a) "policy contains no deductible clauses."
  - b) "policy contains \_\_\_\_\_ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

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



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

**PROPOSAL BID ITEMS**

141242

Page 1 of 2

Report Date 6/19/14

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	3,000.00	TON		\$	
0020	00005		GEOGRID REINFORCEMENT FOR SUBGRADE	2,000.00	SQYD		\$	
0030	02058		REMOVE PCC PAVEMENT	13,917.00	SQYD		\$	
0040	02071		JPC PAVEMENT-11 IN	13,917.00	SQYD		\$	
0050	02599		FABRIC-GEOTEXTILE TYPE IV	7,050.00	SQYD		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0060	01000		PERFORATED PIPE-4 IN	1,000.00	LF		\$	
0070	01010		NON-PERFORATED PIPE-4 IN	501.00	LF		\$	
0080	01020		PERF PIPE HEADWALL TY 1-4 IN	20.00	EACH		\$	
0090	02562		TEMPORARY SIGNS	10,001.00	SQFT		\$	
0100	02650		MAINTAIN & CONTROL TRAFFIC (CALDWELL COUNTY)	1.00	LS		\$	
0110	02650		MAINTAIN & CONTROL TRAFFIC (LYON COUNTY)	1.00	LS		\$	
0120	02650		MAINTAIN & CONTROL TRAFFIC (TRIGG COUNTY)	1.00	LS		\$	
0130	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0140	02726		STAKING (CALDWELL COUNTY)	1.00	LS		\$	
0150	02726		STAKING (LYON COUNTY)	1.00	LS		\$	
0160	02726		STAKING (TRIGG COUNTY)	1.00	LS		\$	
0170	02775		ARROW PANEL	6.00	EACH		\$	
0180	06511		PAVE STRIPING-TEMP PAINT-6 IN	41,750.00	LF		\$	
0190	06549		PAVE STRIPING-TEMP REM TAPE-B	4,999.00	LF		\$	
0200	06550		PAVE STRIPING-TEMP REM TAPE-W	2,500.00	LF		\$	
0210	06551		PAVE STRIPING-TEMP REM TAPE-Y	2,500.00	LF		\$	
0220	06592		PAVEMENT MARKER TYPE V-B W/R	101.00	EACH		\$	
0230	10020NS		FUEL ADJUSTMENT	5,123.00	DOLL	\$1.00	\$	\$5,123.00
0240	21173EC		SAW-CLEAN-RESEAL RANDOM CRACKS	4,999.00	LF		\$	
0250	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL (CALDWELL COUNTY)	1.00	LS		\$	
0260	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL (LYON COUNTY)	1.00	LS		\$	
0270	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL (TRIGG COUNTY)	1.00	LS		\$	
0280	24094EC		PARTIAL DEPTH PATCHING	101.00	CUYD		\$	
0290	24189ER		DURABLE WATERBORNE MARKING-6 IN W	282,394.00	LF		\$	
0300	24190ER		DURABLE WATERBORNE MARKING-6 IN Y	225,915.00	LF		\$	
0310	24191ER		DURABLE WATERBORNE MARKING-12 IN W	4,999.00	LF		\$	

**PROPOSAL BID ITEMS**

141242

Page 2 of 2

Report Date 6/19/14

**Section: 0003 - BRIDGE - 27R**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0320	02003		RELOCATE TEMP CONC BARRIER	500.00	LF		\$	
0330	02898		RELOCATE CRASH CUSHION	1.00	EACH		\$	
0340	03171		CONCRETE BARRIER WALL TYPE 9T	500.00	LF		\$	
0350	03298		EXPAN JOINT REPLACE 4 IN	81.00	LF		\$	
0360	03299		ARMORED EDGE FOR CONCRETE	81.00	LF		\$	
0370	08150		STEEL REINFORCEMENT	267.00	LB		\$	
0380	08504		EPOXY SAND SLURRY	92.00	SQYD		\$	
0390	08526		CONC CLASS M FULL DEPTH PATCH	10.00	CUYD		\$	
0400	08534		CONCRETE OVERLAY-LATEX	27.00	CUYD		\$	
0410	08549		BLAST CLEANING	740.00	SQYD		\$	
0420	08550		HYDRODEMOLITION	654.00	SQYD		\$	
0430	08903		CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH		\$	
0440	21669NN		POLICE OFFICER WITH VEHICLE	16.00	HOUR		\$	
0450	24094EC		PARTIAL DEPTH PATCHING	23.00	CUYD		\$	

**Section: 0004 - BRIDGE - 48R**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0460	02003		RELOCATE TEMP CONC BARRIER	650.00	LF		\$	
0470	02898		RELOCATE CRASH CUSHION	1.00	EACH		\$	
0480	03171		CONCRETE BARRIER WALL TYPE 9T	650.00	LF		\$	
0490	08504		EPOXY SAND SLURRY	144.00	SQYD		\$	
0500	08526		CONC CLASS M FULL DEPTH PATCH	4.00	CUYD		\$	
0510	08534		CONCRETE OVERLAY-LATEX	55.00	CUYD		\$	
0520	08549		BLAST CLEANING	1,452.00	SQYD		\$	
0530	08550		HYDRODEMOLITION	1,308.00	SQYD		\$	
0540	08903		CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH		\$	
0550	21669NN		POLICE OFFICER WITH VEHICLE	16.00	HOUR		\$	
0560	24094EC		PARTIAL DEPTH PATCHING	46.00	CUYD		\$	

**Section: 0005 - DEMOBILIZATION &/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0570	02568		MOBILIZATION	1.00	LS		\$	
0580	02569		DEMOBILIZATION	1.00	LS		\$	