



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

September 26, 2016

CALL NO. 406
CONTRACT ID NO. 162953
ADDENDUM # 1

Subject: Muhlenberg-Ohio Counties, 121GR16M038-FE02
Letting September 30, 2016

- (1) Revised - Route Number - Page 4 of 157
- (2) Revised - Note - Pages 13, 17, 34, 35 & 41 of 157
- (3) Revised - Material Summary - Page 95 of 157
- (4) Revised - Bid Items - Page 157 of 157

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 cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

ADMINISTRATIVE DISTRICT - 02

CONTRACT ID - 162953

121GR16M038 - FE02

COUNTY - MUHLENBERG

PCN - MB08900701601

FE02 089 0070 B00046N

MUHLENBERG COUNTY - 089B00046N CENTAL CITY ROAD
KY 70 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 06.78BRIDGE PAINTING & CLEANING
GEOGRAPHIC COORDINATES LATITUDE 37:18:26.00 LONGITUDE 86:16:07.00

COUNTY - OHIO

PCN - MB09205051601

FE02 092 0505 B00094N

OHIO COUNTY - 092B00094N ROSINE
KY 505 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 11.38BRIDGE PAINTING & CLEANING
GEOGRAPHIC COORDINATES LATITUDE 37:27:01.00 LONGITUDE 86:43:39.00

PCN - MB09212451601

FE02 092 1245 B00109N

OHIO COUNTY - 092B00109N ECHOLS
KY 1245 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 01.25BRIDGE PAINTING & CLEANING
GEOGRAPHIC COORDINATES LATITUDE 37:20:09.00 LONGITUDE 86:57:56.00

COMPLETION DATE(S):

COMPLETED BY 07/31/2017

APPLIES TO ENTIRE CONTRACT

**SPECIAL NOTE FOR ALLOTTED DAYS AND LIQUIDATED DAMAGES
FOR BRIDGE SPANS CARRYING PADUCAH AND LOUISVILLE RAIL WAY**

1. COMPLETION DATE. An allotted number of Calendar days are assigned to the each structure over Paducah and Louisville Rail Ways right of ways in this contract as shown below. The Contractor has the option of selecting the starting date for allotted time given for work specified for each structure over Paducah and Louisville Rail Way right of ways. Once selected, the Department shall be notified in writing of the date selected at least two weeks prior to beginning work. Once the allotted number of Calendar day has past all work specified and site remediation must be completed and all rigging and containment materials must be removed in the bridge spans over Paducah and Louisville Rail Ways right of ways.

2.

<u>STRUCTURE</u>	<u>NUMBER OF CALENDAR DAYS</u>	<u>COMPLETION DATE</u>
089B00046N	40	July 31, 2017
092B00094N	40	July 31, 2017
092B00109N	40	July 31, 2017

Contrary to Section 108.07.03, the Engineer will begin charging calendar days for this structure on the day the Contractor starts work involving Paducah and Louisville Rail Way Oversight.

Calendar days will not be charged when no railroad involvement is required. The Engineer will start charging calendar days when railroad involvement is required for this contract. Calendar Days not use on a structure may be use on another structure for a total of 120 Calendar Days.

2. LIQUIDATED DAMAGES. Contrary to the Transportation Cabinet, Department of Highway’s Standard Specifications for Road and Bridge Construction, Section 108.09, a liquidated damage of \$1,500.00 per day shall be assessed to the Contractor for each day past the allotted days given for each structure.

All construction must be completed in accordance with the seasonal and weather limitations specified in Section 614 of the KYTC specification as applicable. No extension of Contract time will be granted due to inclement weather or temperature limitations that occur due to starting work on the Contract or a structure late in the construction season. Should the work specified in the contract not be completed by the end of the 2017 season, see Section 614.03.02 of the Standard Specification.

F. BRIDGE CLEANING AND PREVENTATIVE MAINTENANCE

Remove all debris and clean all abutment, end bent and pier caps, pedestals and abutment and end bent back walls and all inside faces of plinth walls. Cleaning shall be done with pressure washing equipment. Equip the pressure washer(s) with calibrated gage(s) and pressure regulators to ascertain and regulate water pressure. All equipment for pressure washing shall be operated at a minimum pressure of 3500 psi to 4,500 psi with fan tips and or 0 degree spinner tips as determined by the engineer at the working location with a minimum flow rate of 3.5 gal/minute provided that these pressures do not disturb intact existing coatings. Pressure and flow rates shall be reduced or increased to a level satisfactory to the Engineer should any existing intact coating is disturbed due to power washing procedures. The washing wand must be approximately perpendicular to the washed surface and within a maximum 12 inches of the surface. Wand extensions greater than 36 inches will be subject to Central Office Division of Construction approval. Use clean potable water for all pressure washing.

All abutment and pier caps, pedestals and abutment back walls shall have concrete coating applied to after all debris are removed and power washing is complete. Use compressed air to remove any loose debris from the concrete surfaces that are to be coated after power washing. See concrete coating diagram. All coatings shall be applied within manufacturers recommended dry film thickness range. Comply with KYTC "Standard Specifications for Road and Bridge Construction" Section 614.03.02 and coatings supplier recommended conditions for application. Allow the surfaces to be coated to dry a minimum of 24 hours before any coating is applied. The coating must be applied within 72 hours of pressure washing. All coating application shall be executed using brushes, rollers, etc. Spray application will be permitted if containment is in place for structural steel paint application. Use one of the following coating systems from the manufacture listed below shall be used. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials shall perform acceptance testing.

<u>Manufacture</u>	<u>Prime Coat</u>	<u>Finish Coat</u>
Sherwin Williams	Macropoxy 646	Acrolon 218 HS
PPG	Amberlock 2	Devoe Devflex HP
Carboline -	Carboguard 890	Carbothane 133 HB
Tnemec -	Elastogrip 151	EnviroCrete 156

The finish coat color shall closely match the existing concrete.

See attached detailed drawings for locations of specified work for each structure.

All cost for bridge cleaning and preventive maintenance shall be consider incidental to Clean and Paint Structural Steel.

SPECIAL NOTE FOR WEIGHT LIMITS ON STRUCTURE

FE02 089 0070 B00046N 06.78 is rated at **84** tons.

FE02 092 0505 B00038N 11.38 is rated at **35** tons.

FE02 092 1245 B00109N 01.25 is rated at **35** tons.

No equipment, materials, vehicles, trailers nor combination of thereof exceeding the load rating of each structure listed above shall be placed on or drive across the structure. If the Contractor chooses to stage from the bridge deck he must submit a plan for approval by the KYTC Engineer showing placement and weight of all equipment.

SPECIAL NOTE FOR CAP RETROFIT

1. **DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings (Current Editions), 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) Clean Abutment Cap, Install New concrete and steel reinforcement and replace fill slope as specified in this note and the attached detail drawings; (3) Maintain and control traffic; and (4) Any other work specified as part of this contract.

2. **MATERIALS.**
 - A. **Class "A" Concrete.** See Section 601.
 - B. **Steel Reinforcement.** Use Grade 60. See Section 602.
 - C. **Grouting and Epoxy Bond Coat.** See Section 511.

3. **CONSTRUCTION.**
 - A. **Placing Class A Concrete** Place the new Class "A" concrete as shown in attached detail drawings. The surface areas of existing concrete to come in contact with the new Class "A" 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.
 - B. **Steel Reinforcement.** Place all steel reinforcement as specified in this note, the attached detailed drawings and section 602 of the standard specification.
 - C. **Cleaning Abutment Cap.** All debris and earth shall be cleaned from the abutment cap. Earth shall place around outside face of new wing wall as directed by the Engineer. Care shall be taken not to drop any debris onto the Paducah and Louisville Rail Way tracks below. All cost for Cleaning the Abutment Cap shall be considered incidental to Class A Concrete.
 - D. **Verifying Field Conditions.** The Contractor shall field verify all dimensions before ordering any material. New material that is unsuitable due to variation in existing structure shall be replaced at the Contractors expense.
 - E. **Damage to the Structure.** The Contractor shall bear all responsibility and expense for any and all damage to the structure during the repair work even to removal and replacement of a fall span, should the fallen span result from the Contractor's actions.
 - F. **Order of Work.** All Retrofit – Abutment Cap work must be completed before any cleaning and painting production operations in the adjacent area.

4. **PAYMENT**
 - A. **Concrete Class A (08100).** Payment at the contract unit price per Cubic Yard is full compensation for placing all new Class A Concrete and all incidental items necessary to complete the work within the specified pay limits as specified by this note and as shown on the attached detailed drawings.
 - B. **Steel Reinforcement (08150).** See Section 602. **This shall include all cost for drilling and grouting as shown in the detailed drawings.**

Payment

Payment of the contract lump sum amount for "maintain and control traffic" shall be full compensation for all items necessary to maintain and control traffic on this project. All traffic control items shall remain the property of the contractor when the work is complete.

089B00046N, 092B00094N and 092B00109N

Maintain one usable 12 foot minimum lane. Flagging or traffic signals shall be used. If traffic signals are used the Contractor shall use flagging to minimize impact on school bus traffic when school is in session. The Contractor shall be responsible for establishing the dates and times when school bus traffic will impact the job site. The Contractor will be permitted to briefly close the structure to traffic using flagging to move any equipment that exceeds load rating (See Special Note for Weight Limits on Structure) across the structure as directed by the Engineer. The equipment must be centered on the structure and shall not exceed 2 times the load rating for the each structure.

When performing joint replacement portions of this contract, the contractor will provide steel plating to cover the opening in the bridge deck when not working. The plate shall be a minimum of 4 feet wide from the edge of the open lane of traffic over the opening and at length to support and cover the opening. The specified 4 feet width may be placed in multiple sections for ease of handling. The Contractor shall secure the steel plating while in place. All cost to furnish and place the steel plating shall be considered incidental to the lump sum bid item for Maintain and Control Traffic.

Any work started during the 2016 construction season must be completed to a point that the lane closure can be removed and traffic restored if the contactor needs to halt work due to maintaining weather conditions in the winter off season months.

MATERIAL SUMMARY

CONTRACT ID: 162953

121GR16M038 - FE02

MB08900701601

MUHLENBERG COUNTY - 089B00046N CENTAL CITY ROAD
 KY 70 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 06.78 BRIDGE PAINTING & CLEANING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02650	MAINTAIN & CONTROL TRAFFIC - - 089B00046N	1.00	LS
0010	03298	EXPAN JOINT REPLACE 4 IN - - 089B00046N	30.00	LF
0015	03299	ARMORED EDGE FOR CONCRETE - - 089B00046N	30.00	LF
0020	08100	CONCRETE-CLASS A - - 089B00046N	2.00	CUYD
0025	08150	STEEL REINFORCEMENT - - 089B00046N	330.00	LB
0030	08434	CLEAN & PAINT STRUCTURAL STEEL - - 089B00046N	1.00	LS
0035	08540	JOINT SEALING - - 089B00046N	30.00	LF
0040	02568	MOBILIZATION	1.00	LS
0045	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 162953

121GR16M038 - FE02

MB09205051601

OHIO COUNTY - 092B00094N ROSINE
 KY 505 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 11.38 BRIDGE PAINTING & CLEANING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02650	MAINTAIN & CONTROL TRAFFIC - - 092B00094N	1.00	LS
0010	08434	CLEAN & PAINT STRUCTURAL STEEL - - 092B00094N	1.00	LS
0015	02568	MOBILIZATION	1.00	LS
0020	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 162953

121GR16M038 - FE02

MB09212451601

OHIO COUNTY - 092B00109N ECHOLS
 KY 1245 OVER PADUCAH AND LOUISVILLE RAILROAD-MP 01.25 BRIDGE PAINTING & CLEANING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02650	MAINTAIN & CONTROL TRAFFIC - - 092B00109N (REVISED: 9-26-16)	1.00	LS
0010	03298	EXPAN JOINT REPLACE 4 IN - - 092B00109N (REVISED: 9-26-16)	28.00	LF
0015	08150	STEEL REINFORCEMENT - - 092B00109N (REVISED: 9-26-16)	135.00	LB
0020	08434	CLEAN & PAINT STRUCTURAL STEEL - - 092B00109N (REVISED: 9-26-16)	1.00	LS
0025	08540	JOINT SEALING - - 092B00109N (REVISED: 9-26-16)	85.00	LF
0030	02568	MOBILIZATION	1.00	LS
0035	02569	DEMOBILIZATION	1.00	LS

PROPOSAL BID ITEMS

162953

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Report Date 9/26/16

Section: 0001 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02650		MAINTAIN & CONTROL TRAFFIC - 089B00046N	1.00	LS		\$	
0020	03298		EXPAN JOINT REPLACE 4 IN - 089B00046N	30.00	LF		\$	
0030	03299		ARMORED EDGE FOR CONCRETE - 089B00046N	30.00	LF		\$	
0040	08100		CONCRETE-CLASS A - 089B00046N	2.00	CUYD		\$	
0050	08150		STEEL REINFORCEMENT - 089B00046N	330.00	LB		\$	
0060	08434		CLEAN & PAINT STRUCTURAL STEEL - 089B00046N	1.00	LS		\$	
0070	08540		JOINT SEALING - 089B00046N	30.00	LF		\$	

Section: 0002 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	02650		MAINTAIN & CONTROL TRAFFIC - 092B00094N	1.00	LS		\$	
0090	08434		CLEAN & PAINT STRUCTURAL STEEL - 092B00094N	1.00	LS		\$	

Section: 0003 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0100	02650		MAINTAIN & CONTROL TRAFFIC - 092B00109N (REVISED: 9-26-16)	1.00	LS		\$	
0110	03298		EXPAN JOINT REPLACE 4 IN - 092B00109N (REVISED: 9-26-16)	28.00	LF		\$	
0120	08150		STEEL REINFORCEMENT - 092B00109N (REVISED: 9-26-16)	135.00	LB		\$	
0130	08434		CLEAN & PAINT STRUCTURAL STEEL - 092B00109N (REVISED: 9-26-16)	1.00	LS		\$	
0140	08540		JOINT SEALING - 092B00109N (REVISED: 9-26-16)	85.00	LF		\$	

Section: 0004 - DEMOB

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0150	02568		MOBILIZATION	1.00	LS		\$	
0160	02569		DEMOBILIZATION	1.00	LS		\$	