



Andy Beshear  
GOVERNOR

## TRANSPORTATION CABINET

200 Mero Street  
Frankfort, Kentucky 40601

Jim Gray  
SECRETARY

January 22, 2024

CALL NO. 201  
CONTRACT ID NO. 245335  
ADDENDUM # 1

Subject: Harlan County, 121GR24D035 - STP BRZ  
Letting January 25, 2023

Revise/Add - Special Notes Pg. 37-38B of 148  
Revise - Material Summary Pg. 111-112 of 148  
Revise - Proposal Bid Item Pg. 147-148 of 148

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

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

Sincerely,

Rachel Mills,

A handwritten signature in black ink that reads "Rachel Mills".

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

RM:ce  
Enclosures

## SPECIAL NOTE FOR STRUCTURAL STEEL REPAIR

11-10195 Harlan 048B00117N

11-1101 Harlan 048B00126N

### I. DESCRIPTION

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's current Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawing(s). Section references are to the Standard Specifications.

This work consists of the following:

- (1) Furnish all labor, materials, tools, and equipment.
- (2) Remove existing materials.
- (3) Replace steel in accordance with the attached detail drawings.
- (4) Any other work specified as part of this contract.

### II. MATERIALS

**A. Structural Steel.** Use AASHTO M270 (ASTM A709) Grade 50.

- a. All steel shall meet the longitudinal Charpy V-notch toughness test for fracture critical components Zone 2. Sampling and testing procedures shall be in accordance with AASHTO T243, current edition, utilizing (H) frequency testing.

**B. Weld Material.** See Section 813.10. All welds shall be E70XX.

**C. High Strength Bolts, Nuts, and Washers.** Ensure all bolted connections are ASTM F3125 Grade A325 high strength bolts, nuts, washers, and Direct Tension Indicators (DTI's). All bolts, nuts, washers, and DTI's to be mechanically galvanized in accordance with AASHTO M298, Class 50 (ASTM B695-04, Class 50). Provide beveled washers as needed for bolts through steel members with sloped faces (e.g., channel flanges, angles, etc.). All high strength bolted connections are to be installed using "Direct Tension Indicators" (DTIs) in accordance with the Standard Specifications and ASTM F959. Installation details of the DTIs shall be shown on the Shop Plans.

### III. CONSTRUCTION

**A. Dimensions.** The Contractor shall verify dimensions, including thickness of parts, with field measurements prior to ordering materials or fabricating steelwork.

**B. Remove Existing Materials.** Remove existing materials as shown on the attached detail drawings. Removal shall occur in a manner that does not damage adjacent structural steel. This may include mechanical removal or other methods approved by the Engineer. Use of cutting torches will not be permitted. Dispose of all removed

- material completely away from the job site. This work will be incidental to the contract unit price for the applicable steel repair bid item.
- C. Field Prepare Existing Surfaces.** Clean surfaces of existing steel where new steel is to be installed until free of all corrosion, debris and deleterious substances. Apply a prime coat as specified in accordance with Section 607 of the Specifications. The level of cleaning shall be to an SSPC-SP 15 (commercial grade power tool cleaning). All power tools shall be equipped with vacuum shrouds and fitted with HEPA filters at their exhausts. Maintain and operate all vacuum shrouded power tools to collect generated debris.
- D. Install New Materials.** Install new materials as necessary to complete the repair. If any rivets are removed, they shall be replaced with high-strength bolts installed with "direct tension indicators" (DTI's) in accordance with the Standard Specifications and ASTM F959 Type 325. A DTI shall be placed under each bolt head with tightening from the nut end. If any rivets are present, bolt diameters shall match diameter of existing rivets; any rivet sizes should be field verified) and bolt holes shall be 1/16" greater than the bolt diameter. Rivet holes can be reamed as necessary to increase the size to 1/16" greater than the bolt diameter. Any holes in steel members that are not specified to receive any other connected part shall be filled with a high strength bolt that is tensioned per the Specifications. Bolt threads shall be excluded from the shear plane in all connections. Unless otherwise noted in the attached drawings, members shall be replaced to match their original cross-sectional dimensions, size, length, and geometry with the following allowable exceptions:
- a. The contractor may increase the thickness of plates and angles that are currently 3/16" or 5/16", up 1/16" in thickness, to facilitate material ordering, provided that the revised thickness can fit within the existing geometry.
- E. Prohibited Field Welding.** No welding of any nature shall be performed on the bridge except as shown on the attached drawings without the written consent of the Director, Division of Bridge Design, and then only in the manner and at the locations designated in the authorization.
- F. Damage to the Structure.** The Contractor shall bear full responsibility and expense for all damage to the structure, should such damage result from the Contractor's actions.
- G. Painting.** All new steel shall receive shop surface preparation and shop applied prime coating as specified in accordance with Section 607. Necessary touch up/repair of the shop applied prime coat on the new steel may be performed in the field. Intermediate and finish coatings shall be field applied. Following completion of the replacement, paint any new steel in accordance with Section 607.03.23 "Cleaning and Painting" and the special note for Painting Structural Steel Repairs. Apply field coatings to new steel and steel to be overcoated in accordance with Section 614. Paint color shall match existing.
- H. Welding Specifications.** All welding and welding materials shall conform to "Joint Specification ANSI/AASHTO/AWS D1.5M-D1.5-2008 Bridge Welding Code". Modification and additions as stated on the plans. Welding procedures shall be submitted to the Engineer and approved prior to the start of fabrication and retrofit. The cost of welding, welding materials, straightening, altering, and burning new or existing steel shall be included in the unit price bid for the appropriate item.

**IV. MEASUREMENT**

The Department will measure the quantity as a lump sum. Except as noted, the Department will not measure pounds of steel nor paint required for steel repairs.

**V. PAYMENT**

The Department will make payment for completed steel repairs as indicated on the plans as a Lump Sum.

## SPECIAL NOTE FOR PAINTING STRUCTURAL STEEL REPAIRS

11-10195 Harlan 048B00117N

### I. DESCRIPTION

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highways current Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the Contract Documents. Section references are to the Standard Specifications.

This work consists of the following:

1. Furnish all labor, materials, tools, equipment, and incidental items necessary to complete the work.
2. Provide safe access to the bridge, in accordance with Section 107.01.01 and for workers to complete the construction.
3. Clean and prime the existing structural steel in accordance with this note and the attached detail drawings.
4. Prepare and prime the new structural steel in accordance with this note and the attached detail drawings.
5. Any other work specified as part of this contract.

**Residual lead paint may still be on bridge.** The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when performing surface preparation. The Department will not consider any claims based on residual lead paint.

### II. MATERIALS

**A. Paint.** Conform to Section 607. Color shall be selected to match existing. Submit color sample to KYTC Engineer for approval.

### III. CONSTRUCTION

**A. Clean and Prime existing structural steel.** All existing faying surfaces where new steel is to be installed shall be cleaned and receive the prime coat as specified in Section 607.03.23 of the Standard Specifications before any new steel is installed. Level of cleaning shall be to an **SSPC-SP 15** (Commercial Grade Power Tool Cleaning). All Power tools shall be equipped with vacuum shrouds and fitted with HEPA filters at their air exhausts. Any surfaces that have been cleaned but will not be covered by newly installed steel shall have the remaining coatings of paint field applied per Section 607. Maintain and operate all vacuum shrouded power tools to collect generated debris.

**B. Prepare, prime, and paint new structural steel.** New structural steel shall receive shop surface preparation and shop applied prime coat in accordance with Section 607. Faying surfaces shall receive only the prime coat specified. Necessary touch up/repair of the shop applied prime coat on the new steel may be performed in the field. Finish coatings will be field applied per Section 607.

#### **IV. MEASUREMENT**

All items of work necessary to complete cleaning and painting as specified in this Note shall be considered incidental to the unit prices bid for the structural steel repairs being completed.

#### **V. PAYMENT**

The Department will make payment for the completed and accepted quantities of cleaning and painting structural steel repairs as part of the unit prices bid for the repairs being completed. The Department will consider payment as full compensation for all work required.

# MATERIAL SUMMARY

**CONTRACT ID: 245335**

**121GR24D035 - STP BRZ**

**BR04801192400**

US 119 ADDRESS DEFICIENCIES OF BRIDGE ON US 119 OVER KY 160 AND LOONEY CREEK (048B00126N)  
 BRIDGE REPAIRS, A DISTANCE OF .12 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02110	PARTIAL DEPTH PATCHING	1,631.00	CUFT
0010	02403	REMOVE CONCRETE MASONRY	11.00	CUYD
0015	02545	CLEARING AND GRUBBING - 0.17 Acres	1.00	LS
0020	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0025	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0030	02726	STAKING	1.00	LS
0035	03261	CLEAN BRIDGE DRAINS	22.00	EACH
0040	06515	PAVE STRIPING-PERM PAINT-6 IN	2,810.00	LF
0045	08150	STEEL REINFORCEMENT	12,700.00	LB
0050	08434	CLEAN & PAINT STRUCTURAL STEEL	1.00	LS
0055	08435	JACK & SUPPORT BRIDGE SPAN	1.00	LS
0060	08504	EPOXY SAND SLURRY	277.00	SQYD
0065	08510	REM EPOXY BIT FOREIGN OVERLAY	6,212.00	SQYD
0070	08526	CONC CLASS M FULL DEPTH PATCH	12.00	CUYD
0075	08534	CONCRETE OVERLAY-LATEX	259.00	CUYD
0080	08549	BLAST CLEANING	6,546.00	SQYD
0085	21415ND	EROSION CONTROL	1.00	LS
0090	21679EN	FIBERGLASS DRAIN PIPE - SEE PLANS	154.00	LF
0095	21969NN	BEARING REPLACEMENT - (REVISED 1-22-24)	12.00	EACH
0100	23378EC	CONCRETE SEALING	14,270.00	SQFT
0105	23386EC	JOINT SEAL REPLACEMENT	183.00	LF
0110	02568	MOBILIZATION	1.00	LS
0115	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 245335**

**121GR24D035 - STP BRZ**

**BR04801192401**

US 119 ADDRESS DEFICIENCIES OF US 119 OVER POOR FORK OF CUMBERLAND RIVER (048B00117N)  
 BRIDGE REPAIRS, A DISTANCE OF .06 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0120	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	9.00	EACH
0125	02351	GUARDRAIL-STEEL W BEAM-S FACE	737.50	LF
0130	02360	GUARDRAIL TERMINAL SECTION NO 1	3.00	EACH
0135	02381	REMOVE GUARDRAIL	887.50	LF
0140	02391	GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH
0145	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0150	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0155	02775	ARROW PANEL	2.00	EACH
0160	03261	CLEAN BRIDGE DRAINS	10.00	EACH
0165	03305	RESET BEARING SHOE	3.00	EACH
0170	08435	JACK & SUPPORT BRIDGE SPAN	1.00	LS
0175	21415ND	EROSION CONTROL	1.00	LS
0180	21969NN	BEARING REPLACEMENT	6.00	EACH
0185	22146EN	CONCRETE PATCHING REPAIR	9.00	SQFT
0190	23032EN	BRIDGE BARRIER RETROFIT	639.00	LF
0195	23033EN	BRIDGE BARRIER REMOVAL	639.00	LF
0200	23298EC	STEEL REPAIR	1.00	LS
0205	23395EC	EXPANSION JOINT REPAIR	142.00	LF
0210	23744EC	EPOXY INJECTION CRACK REPAIR	23.00	LF
0215	24409EC	DRILL HOLES IN STEEL MEMBERS	2.00	EACH
0220	24982EC	CONCRETE COATING - APPROX. 1625 SF	1.00	LS
0225	25078ED	THRIE BEAM GUARDRAIL TRANSITION TL-3	4.00	EACH
0230	02568	MOBILIZATION	1.00	LS
0235	02569	DEMOBILIZATION	1.00	LS
0240	06511	PAVE STRIPING-TEMP PAINT-6 IN - (ADDED 1-22-24)	16,464.00	LF
0245	04933	TEMP SIGNAL 2 PHASE - (ADDED 1-22-24)	2.00	EACH



**PROPOSAL BID ITEMS**

245335

Page 1 of 2

Report Date 1/22/24

**Section: 0001 - BRIDGE - 048B00126N**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02110		PARTIAL DEPTH PATCHING	1,631.00	CUFT		\$	
0020	02403		REMOVE CONCRETE MASONRY	11.00	CUYD		\$	
0030	02545		CLEARING AND GRUBBING 0.17 Acres	1.00	LS		\$	
0040	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0050	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0060	02726		STAKING	1.00	LS		\$	
0070	03261		CLEAN BRIDGE DRAINS	22.00	EACH		\$	
0080	06515		PAVE STRIPING-PERM PAINT-6 IN	2,810.00	LF		\$	
0090	08150		STEEL REINFORCEMENT	12,700.00	LB		\$	
0100	08434		CLEAN & PAINT STRUCTURAL STEEL	1.00	LS		\$	
0110	08435		JACK & SUPPORT BRIDGE SPAN	1.00	LS		\$	
0120	08504		EPOXY SAND SLURRY	277.00	SQYD		\$	
0130	08510		REM EPOXY BIT FOREIGN OVERLAY	6,212.00	SQYD		\$	
0140	08526		CONC CLASS M FULL DEPTH PATCH	12.00	CUYD		\$	
0150	08534		CONCRETE OVERLAY-LATEX	259.00	CUYD		\$	
0160	08549		BLAST CLEANING	6,546.00	SQYD		\$	
0170	21415ND		EROSION CONTROL	1.00	LS		\$	
0180	21679EN		FIBERGLASS DRAIN PIPE SEE PLANS	154.00	LF		\$	
0190	21969NN		BEARING REPLACEMENT (REVISED 1-22-24)	12.00	EACH		\$	
0200	23378EC		CONCRETE SEALING	14,270.00	SQFT		\$	
0210	23386EC		JOINT SEAL REPLACEMENT	183.00	LF		\$	

**Section: 0002 - BRIDGE - 048B00117N**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0220	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	9.00	EACH		\$	
0230	02351		GUARDRAIL-STEEL W BEAM-S FACE	737.50	LF		\$	
0240	02360		GUARDRAIL TERMINAL SECTION NO 1	3.00	EACH		\$	
0250	02381		REMOVE GUARDRAIL	887.50	LF		\$	
0260	02391		GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH		\$	
0270	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0280	02671		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH		\$	
0290	02775		ARROW PANEL	2.00	EACH		\$	
0300	03261		CLEAN BRIDGE DRAINS	10.00	EACH		\$	
0310	03305		RESET BEARING SHOE	3.00	EACH		\$	
0312	04933		TEMP SIGNAL 2 PHASE (ADDED 1-22-24)	2.00	EACH		\$	
0315	06511		PAVE STRIPING-TEMP PAINT-6 IN (ADDED 1-22-24)	16,464.00	LF		\$	
0320	08435		JACK & SUPPORT BRIDGE SPAN	1.00	LS		\$	
0330	21415ND		EROSION CONTROL	1.00	LS		\$	
0340	21969NN		BEARING REPLACEMENT	6.00	EACH		\$	
0350	22146EN		CONCRETE PATCHING REPAIR	9.00	SQFT		\$	

**PROPOSAL BID ITEMS**

245335

Page 2 of 2

Report Date 1/22/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0360	23032EN		BRIDGE BARRIER RETROFIT	639.00	LF		\$	
0370	23033EN		BRIDGE BARRIER REMOVAL	639.00	LF		\$	
0380	23298EC		STEEL REPAIR	1.00	LS		\$	
0390	23395EC		EXPANSION JOINT REPAIR	142.00	LF		\$	
0400	23744EC		EPOXY INJECTION CRACK REPAIR	23.00	LF		\$	
0410	24409EC		DRILL HOLES IN STEEL MEMBERS	2.00	EACH		\$	
0420	24982EC		CONCRETE COATING APPROX. 1625 SF	1.00	LS		\$	
0430	25078ED		THRIE BEAM GUARDRAIL TRANSITION TL-3	4.00	EACH		\$	

**Section: 0003 - DEMOBILIZATION &/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0440	02568		MOBILIZATION	1.00	LS		\$	
0450	02569		DEMOBILIZATION	1.00	LS		\$	