



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

February 13, 2015

CALL NO. 321
CONTRACT ID NO. 152003
Addendum # 1

Subject: McCracken County, FD05 073 0060 010-012
Letting February 20, 2015

- (1) REVISED - BID ITEMS - PAGE 127 of 127
- (2) ADDED - SPECIAL NOTES - PAGES 1 THRU 3 OF ADDENDUM 1

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

Plan Revisions are available at: <http://www.lynnimaging.com/kytransportation/>

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 Radcliffe
Director
Division of Construction Procurement

RG:jj

Enclosures



An Equal Opportunity Employer M/F/D

PROPOSAL BID ITEMS

152003

Page 1 of 1

Report Date 2/13/15

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	200.00	TON		\$	
0020	00332		CL3 ASPH SURF 0.50A PG76-22	4,235.00	TON		\$	
0030	02562		TEMPORARY SIGNS	490.00	SQFT		\$	
0040	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0050	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0060	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0070	02677		ASPHALT PAVE MILLING & TEXTURING	4,235.00	TON		\$	
0080	02775		ARROW PANEL	2.00	EACH		\$	
0090	04793		CONDUIT-1 1/4 IN (TRAFFIC LOOPS)	125.00	LF		\$	
0100	04793		CONDUIT-1 1/4 IN (PLANNING LOOPS)	25.00	LF		\$	
0110	04820		TRENCHING AND BACKFILLING (TRAFFIC LOOPS)	125.00	LF		\$	
0120	04820		TRENCHING AND BACKFILLING (PLANNING LOOPS)	25.00	LF		\$	
0130	04830		LOOP WIRE (TRAFFIC LOOPS)	20,192.00	LF		\$	
0140	04830		LOOP WIRE (PLANNING LOOPS)	2,050.00	LF		\$	
0150	04895		LOOP SAW SLOT AND FILL (TRAFFIC LOOPS)	8,428.00	LF		\$	
0160	04895		LOOP SAW SLOT AND FILL (PLANNING LOOPS)	400.00	LF		\$	
0170	06510		PAVE STRIPING-TEMP PAINT-4 IN	33,000.00	LF		\$	
0180	06514		PAVE STRIPING-PERM PAINT-4 IN	33,000.00	LF		\$	
0190	06568		PAVE MARKING-THERMO STOP BAR-24IN	572.00	LF		\$	
0200	06569		PAVE MARKING-THERMO CROSS-HATCH	2,488.00	SQFT		\$	
0210	06574		PAVE MARKING-THERMO CURV ARROW	41.00	EACH		\$	
0220	06575		PAVE MARKING-THERMO COMB ARROW	5.00	EACH		\$	
0230	06576		PAVE MARKING-THERMO ONLY	5.00	EACH		\$	
0240	06591		PAVEMENT MARKER TYPE V-BY	88.00	EACH		\$	
0250	06592		PAVEMENT MARKER TYPE V-B W/R	152.00	EACH		\$	
0260	06600		REMOVE PAVEMENT MARKER TYPE V	240.00	EACH		\$	
0270	10020NS		FUEL ADJUSTMENT	6,592.00	DOLL	\$1.00	\$	\$6,592.00
0280	10030NS		ASPHALT ADJUSTMENT	16,557.00	DOLL	\$1.00	\$	\$16,557.00
0281	20071EC		JOINT ADHESIVE (ADDED: 2-13-15)	27,000.00	LF		\$	
0290	20360ES818		WOOD POST (PLANNING LOOPS)	2.00	EACH		\$	
0300	20468EC		ELECTRICAL JUNCTION BOX-10 X 8 X 4 (PLANNING LOOPS)	2.00	EACH		\$	
0310	23158ES505		DETECTABLE WARNINGS (RETROFIT)	48.00	SQFT		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0320	02569		DEMOBILIZATION	1.00	LS		\$	

SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

1. DESCRIPTION. This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.

2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Joint Adhesive. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 – 10.0	ASTM D 4402
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329, Type II
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

2.2. Equipment.

2.2.1 Melter Kettle. Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.

2.2.2 Applicator System. Provide a pressure-feed-wand applicator system with an applicator shoe attached.

2.3 Personnel. Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air.

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Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 ° F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).

3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.
5. PAYMENT. The Department will pay for the Pavement Joint Adhesive at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Pavement Joint Adhesive Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Joint Adhesive Referenced in Subsection 2.1.1						
Viscosity, 400 ° F (Pa•s) ASTM D 3236	4.0-10.0	3.5-10.5	3.0-3.4 10.6-11.0	2.5-2.9 11.1-11.5	2.0-2.4 11.6-12.0	≤1.9 ≥ 12.1
Cone Penetration, 77 ° F ASTM D 5329	60-100	57-103	54-56 104-106	51-53 107-109	48-50 110-112	≤ 47 ≥ 113
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9

Code
20071EC

Pay Item
Joint Adhesive

Pay Unit
Linear Foot

May 7, 2014