



**Matthew G. Bevin**  
Governor

**COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

**Greg Thomas**  
Secretary

July 24, 2018

CALL NO. 426  
CONTRACT ID NO. 182325  
ADDENDUM # 1

Subject: CALDWELL COUNTY, 017GR18P063 - FD05  
Letting July 27, 2018

- (1) Added - Special Note for Non-Tracking Tack Coat- Pages 9(a)-9(c) of 38
- (2) Revised - Material Summary - Page 20 of 38
- (3) Revised - Proposal Bid Items - Page 38 of 38

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:mr  
Enclosures



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**SPECIAL NOTE FOR NON-TRACKING TACK COAT**

1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.

2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue <sup>1</sup> , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	20 max.	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

<sup>1</sup> Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. As required by the manufacturer, ensure the spray bar is equipped with #1 or #2 ¼” V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

Nozzle number(s)	Activity	Orientation
1	On	Vertical
2	Off	-
3	On	Horizontal
4 & 5	Off	-
6	On	Horizontal
Continue 2 off and 1 on pattern through rest of spray bar system.		

Ensure the bar can be raised to between 14 and 18” from the roadway.

2.3 Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Ensure the roadway temperature is a minimum of 40 °F and rising during the application of the tack. This material is not suitable for use in colder temperatures. Prior to applying the tack, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After initial heating to between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a rate of 0.50 pounds (0.06 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. If full coverage is not achieved, material application rate may be increased to ensure full coverage. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tacks 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 sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. 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 non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the adhesive. The Department will consider all such items incidental to the non-tracking tack.

5. PAYMENT. The Department will pay for the non-tracking tack 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.

Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F	20 max.	≤ 21	22 - 23	24 - 25	26 - 27	≥ 28
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24970EC	Asphalt Material for Tack Non-Tracking	Ton

April 30, 2018

# MATERIAL SUMMARY

**CONTRACT ID: 182325**

**017GR18P063 - FD05**

**MP01702781801**

SANDLICK ROAD (KY 278) BEGINNING 0.142 MILES EAST OF SCOTTSBURG ROAD AND EXTENDING EAST TO A POINT 0.153 MILES WEST OF OLD RAILROAD BED ROAD ASPHALT RESURFACING, A DISTANCE OF .57 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0060	02562	TEMPORARY SIGNS	450.00	SQFT
0065	02650	MAINTAIN & CONTROL TRAFFIC - (KY 278)	1.00	LS
0070	00301	CL2 ASPH SURF 0.38D PG64-22	409.00	TON
0075	00190	LEVELING & WEDGING PG64-22	76.00	TON
0080	02676	MOBILIZATION FOR MILL & TEXT - (KY 278)	1.00	LS
0085	02677	ASPHALT PAVE MILLING & TEXTURING	60.00	TON
0090	06514	PAVE STRIPING-PERM PAINT-4 IN	6,082.00	LF
0095	06510	PAVE STRIPING-TEMP PAINT-4 IN	3,041.00	LF
0100	00077	AGGREGATE FOR MAILBOX TURNOUTS	87.00	TON
0105	02569	DEMOBILIZATION	1.00	LS
0110	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 7-24-18)	3.00	TON

**CONTRACT ID: 182325**

**017GR18P063 - FD05**

**MP01705151801**

EDDIE CREEK CHURCH ROAD (KY 515) BEGINNING AT KY 903 AND EXTENDING EAST TO CADIZ ROAD ASPHALT RESURFACING, A DISTANCE OF 2.66 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02562	TEMPORARY SIGNS	450.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC - (KY 515)	1.00	LS
0015	00301	CL2 ASPH SURF 0.38D PG64-22	1,690.00	TON
0020	00190	LEVELING & WEDGING PG64-22	311.00	TON
0025	02676	MOBILIZATION FOR MILL & TEXT - (KY 515)	1.00	LS
0030	02677	ASPHALT PAVE MILLING & TEXTURING	60.00	TON
0035	06514	PAVE STRIPING-PERM PAINT-4 IN	28,152.00	LF
0040	06510	PAVE STRIPING-TEMP PAINT-4 IN	14,076.00	LF
0045	00077	AGGREGATE FOR MAILBOX TURNOUTS	400.00	TON
0050	02569	DEMOBILIZATION	1.00	LS
0055	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (ADDED: 7-24-18)	9.00	TON

**PROPOSAL BID ITEMS**

Report Date 7/24/18

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00077		AGGREGATE FOR MAILBOX TURNOUTS	487.00	TON		\$	
0020	00190		LEVELING & WEDGING PG64-22	387.00	TON		\$	
0030	00301		CL2 ASPH SURF 0.38D PG64-22	2,099.00	TON		\$	
0050	02562		TEMPORARY SIGNS	900.00	SQFT		\$	
0060	02650		MAINTAIN & CONTROL TRAFFIC (KY 278)	1.00	LS		\$	
0070	02650		MAINTAIN & CONTROL TRAFFIC (KY 515)	1.00	LS		\$	
0080	02676		MOBILIZATION FOR MILL & TEXT (KY 278)	1.00	LS		\$	
0090	02676		MOBILIZATION FOR MILL & TEXT (KY 515)	1.00	LS		\$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	120.00	TON		\$	
0110	06510		PAVE STRIPING-TEMP PAINT-4 IN	17,117.00	LF		\$	
0120	06514		PAVE STRIPING-PERM PAINT-4 IN	34,234.00	LF		\$	
0125	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING (ADDED: 7-24-18)	12.00	TON		\$	

**Section: 0002 - DEMOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0130	02569		DEMOBILIZATION	1.00	LS		\$	