



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
www.transportation.ky.gov/

Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

May 14, 2021

CALL NO. 308
CONTRACT ID NO. 212097
ADDENDUM # 1

Subject: Jefferson County, FD05 056 031E 005-011
Letting May 21, 2021

- (1) Added - Special Notes for Temporary Portable Rumble Strips -
Pages 20(a)- 20(b) of 113
- (2) Revised - Proposal Bid Items - Pages 112-113 of 113

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 cursive script that reads "Rachel Mills".

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

RM:mr
Enclosures

SPECIAL NOTE FOR TEMPORARY PORTABLE RUMBLE STRIPS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, relocate, maintain, and remove temporary portable rumble strips at the locations shown on the plans or designated by the Engineer. Remove and retain possession of temporary portable rumble strips when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General.

Furnish a portable rumble strip system to be used in a transverse installation ~~used~~ within a travel lane. The color of the rumble strip shall only be white, black, or orange and shall not match the color of the pavement. The Contractor will be allowed at their option to use a combination of the color options (i.e. orange, black, orange or white, black, white etc.) or a continuous solid color that does not match the color of the pavement in each transverse installation to delineate the rumble strips to the traveling public. The Contractor shall submit for approval, product literature, and all necessary certifications to the Department prior to use of the product.

3.0 Construction.

Provide rumble strips where the plans show or as directed by the Resident as follows:

1. Prior to placing rumble strips, clean the roadway of sand and other materials that may cause slippage.
2. Place one end of the rumble strips 6 inches from the roadway centerline. Extend the strips perpendicular to the direction of travel. Ensure strips lay flat on the roadway surface. Spacing of the rumble strip strips will be per the manufacturer’s recommendation.
3. Only one group of rumble strips, placed before the first work zone, is required per direction of travel for multiple work zones spaced 1 mile or less apart. Work zones spaced greater than 1 mile apart require a separate group of rumble strips. Each lane shall use one group of temporary rumble strips. Additional rumble strip groups may be added at the discretion of the Engineer.
4. The use of rumble strips will require an additional work zone sign stating “Caution Rumble Strips” or “Rumble Strips Ahead” in the approach sign package meeting all applicable MUTCD guidelines. The use of the temporary rumble strips and work zone signage will be discussed in the Contractor’s traffic control plan.
5. For flagging situations, the Temporary Portable Rumble Strip Group is to be advanced with the flagger.

4.0 Maintenance.

Maintain temporary portable rumble strips during the time of use:

1. If rumble strips slide, become out of alignment, or are no longer in the wheel path of approaching vehicles during the work period, thoroughly clean both sides of the rumble strips and reset on a clean roadway.
2. Repair or replace damaged rumble strips immediately.

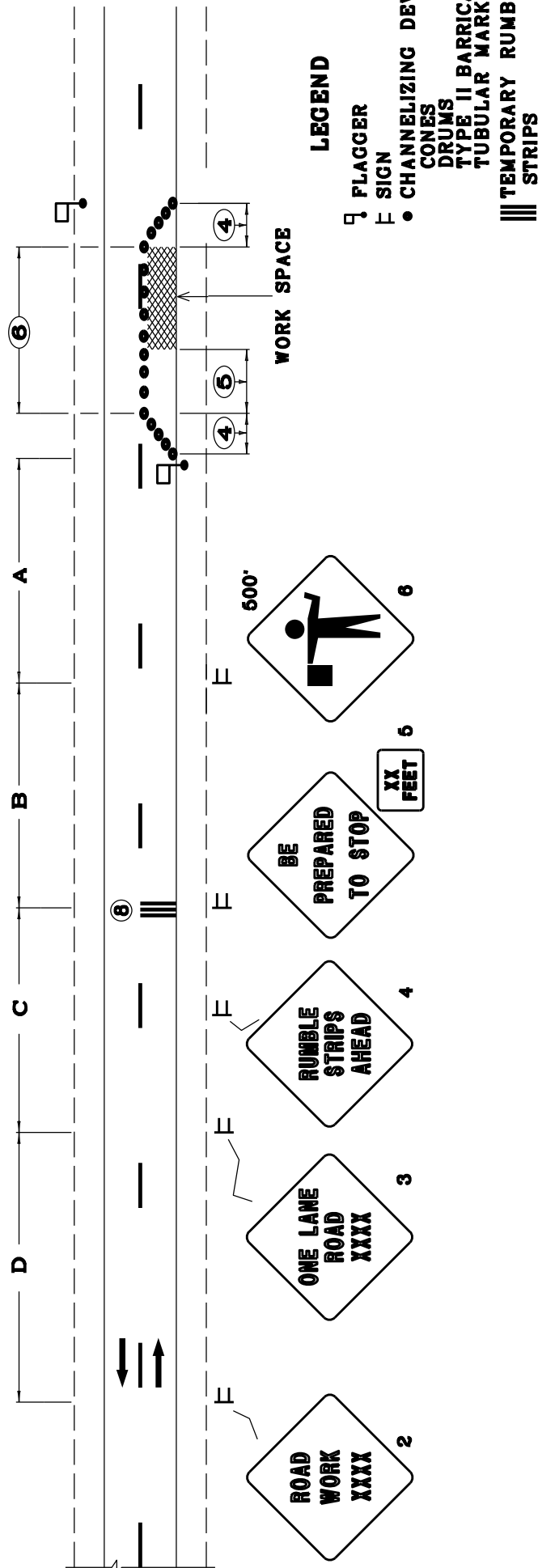
5.0 MEASUREMENT

The Department will measure temporary portable rumble strips as one group, per lane. A group shall be considered 3 full single lane width of rumble strips.

6.0 PAYMENT

The Department will pay for the quantity of temporary portable rumble strips at the contract unit price per group. Payment is full compensation for providing, relocating, maintaining or replacing, and removing temporary portable rumble strips.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24818EC	Temporary Rumble Strips	Each



NOTES

1. THE SIZE OF SIGNS 2 THRU 5 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 2 THRU 5 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS.
2. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATIONS SHALL BE LOCATED FAR ENOUGH IN ADVANCE OF THE ACTIVITY AREA SO THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP BEFORE ENTERING THE WORK SPACE. ILLUMINATION SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT.
3. DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
4. TAPERS SHALL BE 60' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
5. BUFFER SPACE (OPTIONAL). IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES. REFER TO TABLE 6C-2 OF THE MUTCD FOR GUIDANCE ON BUFFER SPACE LENGTH.
6. SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 60'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.
7. WHEN NIGHTTIME WORK IS BEING PERFORMED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE THE WORK AREA.
8. EACH RUMBLE STRIP GROUP SHALL CONSIST OF THREE RUMBLES SPACED AS PER MANUFACTURER'S RECOMMENDATION

SIGNING AND SPACING TABLE

ROAD TYPE	A	B	C	D
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'
SP. LT. ≥46 MPH	600'	600'	600'	1100'
SP. LT. <40 MPH	250'	250'	250'	250'

* NOTE: USE NORMAL POSTED SPEED LIMIT

BID ITEMS AND UNIT TO BID
LANE CLOSURE EACH
BARRICADE-TYPE I EACH
REFER TO SECTION 112 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

APPLICATION
THIS DRAWING APPLIES TO LANE CLOSURES ON TWO-LANE, TWO DIRECTION HIGHWAYS UTILIZING TEMPORARY RUMBLE STRIPS

PROPOSAL BID ITEMS

212097

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00190		LEVELING & WEDGING PG64-22	1,356.00	TON		\$	
0020	01792		ADJUST MANHOLE	11.00	EACH		\$	
0030	01810		STANDARD CURB AND GUTTER	105.00	LF		\$	
0040	02562		TEMPORARY SIGNS	960.00	SQFT		\$	
0050	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0060	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0070	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0080	02677		ASPHALT PAVE MILLING & TEXTURING	12,693.00	TON		\$	
0090	02720		SIDEWALK-4 IN CONCRETE	358.00	SQYD		\$	
0100	02775		ARROW PANEL	2.00	EACH		\$	
0110	03240		BASE FAILURE REPAIR	880.00	SQYD		\$	
0120	04792		CONDUIT-1 IN (TRAFFIC)	310.00	LF		\$	
0130	04793		CONDUIT-1 1/4 IN (PLANNING)	90.00	LF		\$	
0140	04795		CONDUIT-2 IN (PLANNING)	45.00	LF		\$	
0150	04811		ELECTRICAL JUNCTION BOX TYPE B (TRAFFIC)	76.00	EACH		\$	
0160	04820		TRENCHING AND BACKFILLING (PLANNING)	115.00	LF		\$	
0170	04820		TRENCHING AND BACKFILLING (TRAFFIC)	980.00	LF		\$	
0180	04829		PIEZOELECTRIC SENSOR (PLANNING)	12.00	EACH		\$	
0190	04830		LOOP WIRE (PLANNING)	9,990.00	LF		\$	
0200	04830		LOOP WIRE (TRAFFIC)	13,500.00	LF		\$	
0210	04850		CABLE-NO. 14/1 PAIR (TRAFFIC)	5,200.00	LF		\$	
0220	04895		LOOP SAW SLOT AND FILL (PLANNING)	1,890.00	LF		\$	
0230	04895		LOOP SAW SLOT AND FILL (TRAFFIC)	5,310.00	LF		\$	
0240	04960		REMOVE AND REPLACE SIDEWALK (TRAFFIC)	2.00	SQYD		\$	
0250	06510		PAVE STRIPING-TEMP PAINT-4 IN	150,000.00	LF		\$	
0260	06542		PAVE STRIPING-THERMO-6 IN W	77,226.00	LF		\$	
0270	06543		PAVE STRIPING-THERMO-6 IN Y	64,263.00	LF		\$	
0280	06547		PAVE STRIPING-THERMO-12 IN Y	590.00	LF		\$	
0290	06565		PAVE MARKING-THERMO X-WALK-6 IN	5,590.00	LF		\$	
0300	06568		PAVE MARKING-THERMO STOP BAR-24IN	1,554.00	LF		\$	
0310	06569		PAVE MARKING-THERMO CROSS-HATCH	960.00	SQFT		\$	
0320	06574		PAVE MARKING-THERMO CURV ARROW	185.00	EACH		\$	
0330	06575		PAVE MARKING-THERMO COMB ARROW	5.00	EACH		\$	
0340	06576		PAVE MARKING-THERMO ONLY	7.00	EACH		\$	
0350	06600		REMOVE PAVEMENT MARKER TYPE V	700.00	EACH		\$	
0360	10020NS		FUEL ADJUSTMENT	19,239.00	DOLL	\$1.00	\$	\$19,239.00
0370	10030NS		ASPHALT ADJUSTMENT	48,323.00	DOLL	\$1.00	\$	\$48,323.00

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	20359NN		GALVANIZED STEEL CABINET (PLANNING)	3.00	EACH		\$	
0390	20360ES818		WOOD POST (PLANNING)	8.00	EACH		\$	
0400	20391NS835		ELECTRICAL JUNCTION BOX TYPE A (PLANNING)	3.00	EACH		\$	
0410	20468EC		ELECTRICAL JUNCTION BOX-10 X 8 X 4 (PLANNING)	2.00	EACH		\$	
0420	22906ES403		CL3 ASPH SURF 0.38A PG64-22	12,693.00	TON		\$	
0430	23158ES505		DETECTABLE WARNINGS (NEW)	290.00	SQFT		\$	
0440	23158ES505		DETECTABLE WARNINGS (RETROFIT)	10.00	SQFT		\$	
0450	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	220.00	LF		\$	
0460	23625EC		PAVE MARK THERMO-6 IN W CAT TRAXX	130.00	LF		\$	
0465	24818EC		TEMPORARY RUMBLE STRIPS (ADDED: 5-14-21)	2.00	EACH		\$	
0470	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80 (TRAFFIC)	930.00	LF		\$	
0480	24963ED		LOOP TEST (TRAFFIC)	39.00	EACH		\$	
0490	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	60.00	TON		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0500	02569		DEMOBILIZATION	1.00	LS		\$	