



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET

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Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

September 18, 2020

CALL NO. 336  
CONTRACT ID NO. 202265  
ADDENDUM # 1

Subject: JEFFERSON COUNTY, FD05 056 060A 001-004  
Letting September 25, 2020

- (1) Revised - Traffic Control Plan - Page 18 of 53
- (2) Added - Special Note for Portable Changeable Message Signs -  
Pages 41(a)-41(c) of 53
- (3) Revised - Proposal Bid Items - Page 53 of 53

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 black ink that reads "Rachel Mills".

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

RM:mr  
Enclosures

## TRAFFIC CONTROL PLAN

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### TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work.

### PROJECT PHASING & CONSTRUCTION PROCEDURES

Do not erect lane closures on the following days:

Thunder Over Louisville Friday April 16 – Sunday April 18  
Kentucky Derby Festivities – Wednesday April 28- Sunday May 2  
Memorial Day Weekend – Friday May 28- Monday May 31

Maintain all lanes open to traffic and perform no work during the following hours:

6 a.m. - 7 p.m.	Monday through Thursday
6 a.m. - 7 p.m.	Friday
6 a.m. - 7 p.m.	Saturday
6 a.m. - 7 p.m.	Sunday

The Engineer may specify additional days and hours when lane closures will not be allowed.

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. Provide a minimum clear lane width of 12 feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

### LANE CLOSURES

Do not leave lane closures in place during non-working hours.

### **SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS**

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

**1.0 DESCRIPTION.** Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

#### **2.0 MATERIALS.**

**2.1 General.** Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

**2.2 Sign and Controls.** All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
  - a) Keyboard or keypad.
  - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
  - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
  - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/=>>>/	/MIN/SPEED/**MPH/
/KEEP/LEFT/<<<</	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/***/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

\*Insert numerals as directed by the Engineer.  
Add other messages during the project when required by the Engineer.

**2.3 Power.**

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

**3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

**4.0 MEASUREMENT.** The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

**5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

**PROPOSAL BID ITEMS**

202265

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Report Date 9/18/20

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00190		LEVELING & WEDGING PG64-22	528.00	TON		\$	
0020	00356		ASPHALT MATERIAL FOR TACK	32.00	TON		\$	
0030	00388		CL3 ASPH SURF 0.38B PG64-22	4,380.00	TON		\$	
0040	02562		TEMPORARY SIGNS	890.00	SQFT		\$	
0050	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0055	02671		PORTABLE CHANGEABLE MESSAGE SIGN (ADDED: 9-18-20)	2.00	EACH		\$	
0060	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0070	02677		ASPHALT PAVE MILLING & TEXTURING	4,380.00	TON		\$	
0075	02775		ARROW PANEL (ADDED: 9-18-20)	2.00	EACH		\$	
0080	04792		CONDUIT-1 IN	310.00	LF		\$	
0090	04811		ELECTRICAL JUNCTION BOX TYPE B	30.00	EACH		\$	
0100	04820		TRENCHING AND BACKFILLING	880.00	LF		\$	
0110	04830		LOOP WIRE	22,105.00	LF		\$	
0120	04850		CABLE-NO. 14/1 PAIR	7,825.00	LF		\$	
0130	04895		LOOP SAW SLOT AND FILL	8,465.00	LF		\$	
0140	04960		REMOVE AND REPLACE SIDEWALK	2.00	SQYD		\$	
0150	06510		PAVE STRIPING-TEMP PAINT-4 IN	87,000.00	LF		\$	
0160	06542		PAVE STRIPING-THERMO-6 IN W	17,400.00	LF		\$	
0170	06543		PAVE STRIPING-THERMO-6 IN Y	25,800.00	LF		\$	
0180	06546		PAVE STRIPING-THERMO-12 IN W	300.00	LF		\$	
0190	06565		PAVE MARKING-THERMO X-WALK-6 IN	3,625.00	LF		\$	
0200	06568		PAVE MARKING-THERMO STOP BAR-24IN	876.00	LF		\$	
0210	06569		PAVE MARKING-THERMO CROSS-HATCH	350.00	SQFT		\$	
0220	06574		PAVE MARKING-THERMO CURV ARROW	38.00	EACH		\$	
0230	06575		PAVE MARKING-THERMO COMB ARROW	3.00	EACH		\$	
0240	06576		PAVE MARKING-THERMO ONLY	1.00	EACH		\$	
0250	06600		REMOVE PAVEMENT MARKER TYPE V	316.00	EACH		\$	
0260	10020NS		FUEL ADJUSTMENT	5,456.00	DOLL	\$1.00	\$	\$5,456.00
0270	10030NS		ASPHALT ADJUSTMENT	13,703.00	DOLL	\$1.00	\$	\$13,703.00
0280	20782NS714		PAVE MARKING THERMO-BIKE	2.00	EACH		\$	
0290	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	490.00	LF		\$	
0300	23625EC		PAVE MARK THERMO-6 IN W CAT TRAXX	192.00	LF		\$	
0310	24123EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 40	890.00	LF		\$	
0320	24386EC		PAVE MARKING THERMO-BIKE LANE ARROW	2.00	EACH		\$	
0330	24963ED		LOOP TEST	65.00	EACH		\$	

**Section: 0002 - DEMOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0340	02569		DEMOBILIZATION	1.00	LS		\$	