



CALL NO. 400

CONTRACT ID. 202609

JEFFERSON COUNTY

FED/STATE PROJECT NUMBER 056GR20M057 - FJ11

DESCRIPTION I-64 - 9TH ST RAMPS - OVERHANG AND DRAINAGE REPAIR.

WORK TYPE BRIDGE REPAIRS

PRIMARY COMPLETION DATE 12/31/2020

LETTING DATE: July 24,2020

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 am EASTERN DAYLIGHT TIME July 24,2020. Bids will be publicly announced at 10:00 am EASTERN DAYLIGHT TIME.

PLANS AVAILABLE FOR THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 05

CONTRACT ID - 202609

056GR20M057 - FJ11

COUNTY - JEFFERSON

PCN - MB05600642001

FJ11 056 0064 B00298N

RAMP 4 - I-64 WB RAMP TO MARKET ST (MP 0.237). BRIDGE OVER I-64 RAMPS, W MAIN ST, W MARKET ST BRIDGE REPAIRS SYP NO. 05-10015.00.

GEOGRAPHIC COORDINATES LATITUDE 38:15:28.00 LONGITUDE 85:45:56.00

PCN - MB05600642002

FJ11 056 0064 B00299N

RAMP 2A - 9TH ST RAMP TO I-64 EB (MP 0.051). RAMP OVER MAIN ST TO I-64 EBBRIDGE REPAIRS SYP NO. 05-10015.00.

GEOGRAPHIC COORDINATES LATITUDE 38:15:29.00 LONGITUDE 85:45:55.00

PCN - MB05600642003

FJ11 056 0064 B00300N

RAMP 1 - 9TH ST RAMP TO I-64 WB (MP 0.196). RAMP OVER I-64, MAIN ST BRIDGE REPAIRS SYP NO. 05-10015.00.

GEOGRAPHIC COORDINATES LATITUDE 38:15:32.00 LONGITUDE 85:45:56.00

PCN - MB05600642004

FJ11 056 0064 B00301N

RAMP 2 - MAIN ST AND 9TH ST RAMP (MP 0.053). RAMP OVER CORNER OF N 9TH ST & N WASHINGTON ST BRIDGE REPAIRS SYP NO. 05-10015.00.

GEOGRAPHIC COORDINATES LATITUDE 38:15:30.00 LONGITUDE 85:45:53.00

PCN - MB05600642005

FJ11 056 0064 B00302N

RAMP 3 - I-64 EB RAMP TO MARKET ST (MP 0.103). I-64 EB RAMP TO MARKET ST OVER MAIN ST BRIDGE REPAIRS SYP NO. 05-10015.00.

GEOGRAPHIC COORDINATES LATITUDE 38:15:29.00 LONGITUDE 85:45:56.00

COMPLETION DATE(S):

COMPLETED BY 12/31/2020

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially

disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

April 30, 2018

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

EXPEDITE PROJECT WORK ORDER

The Contractor may request that the Department expedite the work order for this project to allow for maximization of time to complete the work. In order for the Department to accomplish this task, the Contractor may be required to “hand carry” all required project documentation to facilitate the process. Immediately UPON NOTIFICATION OF AWARD OF THE CONTRACT, deliver required project documentation to:

Division of Construction Procurement

200 Mero St.

Frankfort, KY 40602

SPECIAL NOTE FOR ASPHALT WATERPROOFING MIX

1. Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Machine prep the existing slab; (3) Complete full-depth and partial depth repairs as directed by the Engineer; (4) Repair/replace damaged and corroded reinforcing bars; (5) Place Asphalt Waterproofing Mix (AMW); (6) Maintain and control traffic; and (7) Any other work specified as part of this contract.

Asphalt Waterproofing Mix (AWM) is a highly elastomeric, polymer-modified, impermeable asphalt mixture designed to be a one-step, waterproof, wearing course system for bridge-deck overlays and the adjacent approaches. Place AWM at a minimum thickness of **1.5 in.** directly on the prepared surface using a conventional paver(s) and roller(s). Apply this material according to the lines, grades, and typical cross-sections as established by the Engineer.

All construction will be in accordance with Section 606 unless otherwise specified. Conform to all requirements for CL3 ASPH SURF 0.50A PG 76-22 unless specifically modified herein.

2. MATERIALS AND PERSONNEL

2.1 Concrete Class "M". Use either Class "M1" or "M2"

2.2 Aggregate. Provide polish-resistant coarse and fine aggregate conforming to Subsection 403.03.03 for a Type A mixture. Do not use mineral aggregates that are inherently porous, such as blast-furnace slag, expanded shale, porous limestone, and lightweight aggregates, in this mixture.

2.3 AWM Binder. Provide a performance-graded (PG) 64-22 binder conforming to Section 806. Add 2.25 percent of a concentrated, thermoplastic, virgin polymeric material by weight of the total mixture. Ensure that the modified binder conforms to AASHTO M 320 with a high temperature of 94 °C or higher and a low temperature of -34 °C or lower. In addition, ensure that the AWM binder conforms to the following criteria:

<u>Test</u>	<u>Criteria</u>
Elastic Recovery at 10 °C (ASTM D 6084)	92 % (min)
Toughness (ASTM D 5801)	210 in.-lbf (min)
Tenacity (ASTM D 5801)	141 in.-lbf (min)

2.4 Edge Sealant. Provide a material for edge sealant as recommended by the producer of the thermoplastic polymer modifier utilized in the AWM. Ensure the material is a highly thixotropic edge sealant that dries to a soft consistency and will not dry out, crack, or split under vibration or slight movement of opposing surfaces.

2.5 Adhesive Tack Coat. Provide a solvent-based, elastomeric primer adhesive tack coat as recommended by the producer of the thermoplastic polymer modifier utilized in the AWM.

2.6 Preconstruction Meeting. At least two weeks prior to the anticipated start of the project, the Department will schedule a preconstruction meeting to discuss the production and placement of AWM.

2.7 AWM Representative. Ensure a technical representative from the producer of the thermoplastic polymer modifier utilized in the AWM is present at the preconstruction meeting, during the initial construction activities, and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Remove Existing Overlay. In addition to Section 606.03.03, totally remove the existing 1.5" AWM overlay by milling 1.5" of the deck or as directed by the Engineer. Prior to construction, submit a milling plan to the Engineer to show milling will only be 1.5".

3.2 Partial Depth Slab Repair. Remove areas determined to be unsound by the Engineer via hand held jackhammers weighing less than 45lbs in accordance with Section 606.02.10 D. Repair/Replace all damaged or severely corroded reinforcing bars prior to partial depth repair operation. The Department will not measure material removal and will consider this work incidental to the bid item "PARTIAL DEPTH PATCHING". Place Class "M" Concrete in accordance with Section 601.03.09. See Partial Depth Patching general note on plan sheet S4.

3.3 Preparation of Mixture. Submit component material samples to the thermoplastic polymer modifier manufacturer for formulation of a mix design. Ensure the AWM contains no reclaimed materials. After receiving the completed mix design from the thermoplastic polymer modifier manufacturer, submit the AWM design and component material samples to the Division of Materials according to Subsection 402.03.

3.4 Job-Mix Formula (JMF). Contrary to Subsection 402.03, formulate and submit a JMF conforming to the following total binder content and gradation limits.

<u>Sieve Size</u>	<u>Percent Passing</u>	<u>Production Tolerance (%)</u>
½ in.	100	---
¾ in.	80-100	± 6
No. 4	50-76	± 6
No. 8	37-54	± 5
No. 16	26-40	± 4
No. 30	17-29	± 4
No. 50	10-21	± 3
No. 100	5-16	± 2
No. 200	2.0-8.0	± 1.5
% Virgin PG binder	5.0-7.0	
% Thermoplastic Polymer	2.25 by weight of total mixture	
% Total binder (Including PG binder and Thermoplastic polymer)	7.25-9.25	± 0.5

3.5 Mix Design Criteria. Contrary to Subsection 403.03, using a compaction effort of $N_{des} = 75$ gyrations, perform and submit a laboratory mix design conforming to the following mixture specifications.

<u>Test</u>	<u>Criteria</u>
% Air Voids (AV) (AASHTO R 35)	2.0 ± 2.0
% Voids-in-Mineral Aggregate (VMA) (AASHTO R 35)	16.0 (min)
Permeability (ASTM D 5084)	10^{-8} to 10^{-10} m/s
Flexural Beam Fatigue (AASHTO T 321) (750 microstrains, 10 Hz, 2.0 % AV min)	250,000 cycles (min) (average of two samples)

The Department will not require AWM blends previously documented as satisfying the flexural beam fatigue specification to be tested again for flexural beam fatigue. Also, the Department will not require flexural beam fatigue testing for projects with a total AWM quantity of less than 1000 tons.

3.6 Surface Preparation. Prior to the preconstruction meeting, review the existing bridge deck(s) with a technical representative from the producer of the thermoplastic polymer modifier utilized in the AWM and Department personnel to develop a strategy for repairing distressed areas.

Prior to the placement of AWM over the bridge deck(s), repair any moderately or highly “D-cracked” areas, high-severity “punch-outs,” “blow-ups,” and other severe distresses with a doweled, full-depth patch. Patch with Class “M” Concrete.

Prior to the placement of the AWM as directed by the Engineer, fill large surface deformities, greater than 1 in. deep and/or if steel is exposed, with Class “M” Concrete.

Immediately prior to placing the AWM, thoroughly clean the surface of all vegetation, loose materials, dirt, mud, and objectionable materials. Ensure the surface is dry. During placement of the AWM, fill pavement deformities 1 inch or less in the underlying bridge deck(s) with the AWM.

3.7 Application of Edge Sealant. Apply edge sealant, at 4 to 6 in. wide and approximately 0.03 in. thick, before and after AWM application in accordance with the guidelines from the producer of the thermoplastic polymer modifier utilized in the AWM. Apply the sealant to all perimeter surfaces adjacent to the AWM, such as curbs, parapet walls, headers, drains, scuppers, and joints, in order to reduce moisture infiltration into the AWM. Also apply edge sealant to all longitudinal or transverse joints in the AWM that have cooled below 150 °F. When practical, apply the edge sealant the day before or as early as possible on the day of, paving to maximize drying time.

3.8 Application of Adhesive Tack Coat. Contrary to Subsection 406.03, apply an adhesive tack coat according to AWM manufacturer’s recommendations and specifications.

3.9 Production, Transport, and Placement of AWM. For batch plants, after adding the concentrated thermoplastic virgin polymeric material, dry-mix for approximately ten seconds. Next, add the asphalt binder, and wet-mix for 80 seconds to ensure a homogenous blend.

Do not use parallel-flow drum plants for production. For other types of drum plants, refer to the producer of the thermoplastic polymer modifier utilized in the AWM for mixing times.

Ensure the pavement surface or ambient air temperature is a minimum of 55 °F and rising at the time of AWM placement.

Contrary to Subsection 401.03, produce and place AWM at the following temperatures:

	<u>Temperature (°F)</u>
Mixing	410-450
Laydown at Paver	350-410
Compaction	250-410

Do not permit any truck containing AWM to leave the asphalt mixing plant without inspection and approval by the technical representative from the producer of the thermoplastic polymer modifier utilized in the AWM or by the Engineer.

Ensure that the paving process begins on the downhill side of the crown and works upward in order to keep the excess water from the rollers, which may cause the mat to blister, away from the paving process.

3.10 Compaction of AWM.

3.10.1 Rollers. Contrary to Subsection 403.03, compact the AWM only with steel, double-drum drive rollers in the static mode. Provide breakdown rollers with a static weight of approximately eight tons. Provide finish rollers with a static weight of four to eight tons and a maximum drum width of 60 in. Due to the elevated temperature of the mat, utilize approximately twice the water for the rollers than that of standard paving. Because the rollers will require more frequent filling, provide an additional roller to replace the roller being filled with water. Also provide a small roller or vibratory plate to compact smaller areas such as headers, scuppers, expansion joints, etc. that cannot accommodate a full-size roller.

3.10.2 Opening to Traffic. Open lanes to traffic when the AWM pavement reaches 140°F or a minimum of one hour after compaction is completed.

3.11 Trial Demonstration(s). At least two days prior to beginning mainline paving, demonstrate that satisfactory production and placement of AWM is possible. Furnish at least 50 tons for the trial demonstration. The Engineer will determine the site, outside of the driving lanes, and exact quantity of the trial placement. Perform a minimum of one volumetric analysis (two gyratory specimens and two Gmm tests), one total binder content determination, and one gradation determination. Document that the AWM satisfies the applicable requirements of Sections 3.2 and 3.3 of this note for total binder content, gradation, AV, and VMA prior to beginning mainline paving.

Use the paver and rollers to be used on the project to construct the trial placement. Obtain and test a minimum of four roadway cores from the trial placement according to

KM 64-442. Ensure the density of each core is within the range of 96.0 ± 2.0 percent of the theoretical maximum density prior to beginning mainline paving.

Furnish additional 50-ton production lots until achieving mixture properties that satisfy the requirements above. Construct additional trial sections until establishing a rolling pattern that provides the density specified above.

Furnish an additional 50-ton production lot and construct a new trial placement whenever a change in the mix design, compaction method, or compaction equipment occurs. When directed by the Engineer, remove and replace trial sections with unacceptable results.

3.12 Acceptance Sampling and Testing. Contrary to Subsection 402.03.02, the Department will accept AWM as follows:

3.12.1 Definitions for Sublot, Lot, and Minimum Level of Testing. Contrary to Subsection 402.03.02, for projects with a total AWM quantity of less than 4000 tons, the Department will define a sublot as 250 tons and a lot as 1000 tons. For these projects, the Department will define the setup period as the first 250 tons of production. For projects with a total AWM quantity of 4000 tons or more, the Department will define a sublot, a lot, and the setup period according to Subsection 402.03.02. In either case, perform a minimum of one complete set of acceptance tests, as defined by this note, each day that any AWM is produced.

3.12.2 Total Binder Content and Gradation. Perform one evaluation per sublot according to Subsection 402.03.02. By the end of the setup period, establish a JMF conforming to the total binder content and gradation limits from Section 3.2 of this note. The Department will allow the established JMF to vary within the production tolerances from Section 3.2 of this note provided the percent passing each sieve remains within the gradation limits and the total binder content remains within the specified range.

3.12.3 AV. Prepare and analyze one set of two gyratory specimens per sublot according to Subsection 402.03.02. By the end of the setup period, test the AWM to document that the average AV value of each set of specimens conforms to the limits from Section 3.3 of this note.

3.12.4 VMA. Prepare and analyze one set of two gyratory specimens per sublot according to Subsection 402.03.02. By the end of the setup period, test the AWM to document that the average VMA value of each set of specimens conforms to a minimum of 15.5 percent.

3.12.5 Density. For each subplot of production after the setup period, randomly select locations for four cores from the bridge approach areas, not the bridge deck itself, in order to preserve the integrity of the AWM over the bridge deck. Obtain and furnish the cores to the Engineer according to Subsection 402.03.02. The Department will test the cores to ensure that the density of each core is within the range of 96.0 ± 2.0 percent of the G_{mm} value for that subplot.

3.12.6 Unsatisfactory Work Based on Laboratory Data. When the total binder content, gradation, AV, VMA, or density value from any test after the setup period fails to satisfy the applicable requirements of this note, cease all shipments to the project. Adjust procedures or mixture composition until all properties satisfy the applicable requirements of this note. Document acceptable materials and work before restarting operations.

3.13 Verification Sampling and Testing. Contrary to Subsection 402.03.03, the Department will verify AWM as follows. Using the definition for a lot from Section 3.11.1 of this note, the Department will perform a minimum of one verification test for total binder content, gradation, AV, and VMA for each lot according to Subsection 402.03.03. Provided the differences between the contractor's acceptance test and the Department's verification test are within the tolerances given in Subsection 402.03.03, the Department will accept the AWM for that lot.

When the differences between the contractor's acceptance test and the Department's verification test are not within the tolerances given in Subsection 402.03.03, cease all shipments to the project. Adjust procedures or mixture composition until the differences are within the tolerances given in Subsection 402.03.03. Document compliance with these tolerances before restarting operations.

4. MEASUREMENT.

4.1 Trial Demonstrations. The Department will measure up to 50 tons of AWM used in the Trial Demonstration. The Department will not measure quantities exceeding 50 tons for payment and will consider them incidental to the AWM.

4.2 AWM. The Department will measure AWM in tons. The Department will not measure the surface preparation, edge sealant, or adhesive tack coat for payment and will consider them incidental to AWM.

4.3 Remove Existing AWM Overlay. The Department will measure the removal of the existing AWM overlay in tons, which shall include all labor, equipment, and material needed to complete this work.

4.4 Steel Reinforcement. The Department will measure any reinforcing steel necessary for the partial or full depth patch in pounds, which shall include all labor, equipment, and material needed to complete this work.

5. PAYMENT.

5.1 Trial Demonstrations. The Department will pay for the measured quantities at the Contract unit bid price for AWM.

5.2 AWM. The Department will consider the unit bid price per ton to include all labor, materials, and equipment necessary to complete the work. The Department will make payment for the completed and accepted quantities according to the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
21138ED	Asphalt Waterproofing Mix	Ton

5.3 Class “M” Concrete for Partial Depth Patching. The Department will make payment for the Partial Depth Patching under bid item #02110 “PARTIAL DEPTH PATCH”. Payment will be for the quantity per cubic yard complete in place.

5.4 Remove Existing AWM Overlay. The Department will make payment for the removal of the existing AWM overlay under the bid item #02677 “ASPHALT PAVE MILLING & TEXTURING”. Payment will be for the tons complete.

5.5 Steel Reinforcement. The Department will make payment for steel reinforcement, if necessary, under bid item #08150 “STEEL REINFORCEMENT”. Payment will be at the unit price per pound.

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.

SPECIAL NOTE FOR CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES ON BRIDGE REPAIR CONTRACT

I. COMPLETION DATE. The Contractor has the option of selecting the starting date for this Contract. Once selected, notify the Department in writing of the date selected at least two weeks prior to beginning work. All work is to be completed by December 31st, 2020 at 5:00 PM.

No work is permitted during the following days:

September 5th, 2020	Kentucky Derby
September 7, 2020	Labor Day
November 26 & 27, 2020	Thanksgiving
December 24 & 25, 2020	Christmas

<p>Full ramp closures for Ramps 1, 3 and 4 will be allowed during the following times: Weekends from Friday at 7:00 PM until the following Monday morning at 5:00 AM. Weeknights from 8:00 PM until 5 AM the following morning. Full closure will be allowed for one ramp at a time unless approved otherwise by the Engineer.</p>

<p>Full closure for Ramps 2 and 2A at the same time will be allowed during the following times: Weekends from Friday at 7:00 PM until the following Monday morning at 5:00 AM. Full closure for Ramps 2 and 2A at the same time will be allowed only for the Asphalt Waterproofing Mix placement unless approved otherwise by the Engineer.</p>

II. LIQUIDATED DAMAGES. Liquidated damages will be assessed the Contractor in accordance with the Standard Specifications, Section 108.09, when the December 31st, 2020 date is exceeded.

Contrary to the Standard Specifications, liquidated damages will be assessed to the Contractor during the months of December, January, February and March when the contract time has expired. Contract time will be charged during these months.

All construction must be completed in accordance with the weather limitations specified in Special Note 11O (2019) and/or Section 601 as applicable. No extension of Contract time will be granted due to inclement weather or temperature limitations that occur due to starting work on the Contract or a structure late in the construction season.

In addition to Contract Liquidated Damages defined in Section 108.09 of the Standard Specifications the following liquidated damages will apply:

- | |
|---|
| Liquidated Damages of \$5,000 per day for each day and for each ramp partially or fully closed exceeding the allotted completion date. |
| Liquidated Damages of \$3,500 per hour for each hour or portion of an hour, for any closure exceeding the allotted time. |

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

I. TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with Kentucky Transportation Cabinet Department of Highways Standard Specifications for Road and Bridge Construction, Edition of 2019 (Standard Specifications), Section 112.

Contrary to Standard Specifications, Section 106.01, traffic control devices used on this project may be new or used in new condition, at the beginning of the work and maintained in like new condition until completion of the work. The Department **WILL NOT** take possession of the traffic control devices upon completion of the work.

II. MOT RESTRICTIONS

No work is permitted during the following days:

September 5, 2020	Kentucky Derby
September 7, 2020	Labor Day
November 26 & 27, 2020	Thanksgiving
December 24 & 25, 2020	Christmas

<p>Full ramp closures for Ramps 1, 3 and 4 will be allowed during the following times: Weekends from Friday at 7:00 PM until the following Monday morning at 5:00 AM. Weeknights from 8:00 PM until 5:00 AM the following morning.</p> <p>Full closure will be allowed for one ramp at a time unless approved otherwise by the Engineer.</p>
<p>Full closure for Ramps 2 and 2A at the same time will be allowed during the following times: Weekends from Friday at 7:00 PM until the following Monday morning at 5:00 AM.</p> <p>Full closure for Ramps 2 and 2A at the same time will be allowed only for the Asphalt Waterproofing Mix placement unless approved otherwise by the Engineer.</p>

III. TRAFFIC COORDINATOR

Furnish a Traffic Coordinator as per Standard Specifications Section 112.03.12. The Traffic Coordinator shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor's operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

IV. SIGNS

Contractor shall sign all closures in accordance with the detailed MOT drawings, the Standard Drawings, and the MUTCD.

The Contractor is to install warning signs for wide loads in advance of the bridge under the direction of the Engineer. The Department will not measure installation, maintenance or removal for payment, and will consider these incidentals to Maintain and Control Traffic.

Remove or cover sign panels with conflicting direction guidance information on overhead sign trusses before the 9th Street Interchange Exit(s) on I-64, as directed by the Engineer.

V. ARROW BOARDS

All installations shall be approved by the Engineer.

VI. BARRIER WALL

Payment of the contract unit price per linear foot for "CONCRETE BARRIER WALL TYPE 9T" shall be full compensation for furnishing, installing, maintaining, adjusting alignment as needed, removing the barrier when no longer needed, and all incidental items necessary to complete the work.

Provide one side mounted barrier wall delineator per each section of barrier. See Standard Drawing RBM-020 for types.

VII. CRASH CUSHION / END TREATMENTS

To the satisfaction of the Engineer extend Barrier wall out of the clear zone. If Barrier wall is not extended out of the clear zone to the satisfaction of the engineer provide crash cushions / end treatments for the barrier wall.

Provide Barrier end treatments that comply with MASH-16.

VIII. PORTABLE CHANGEABLE MESSAGE SIGNS

The contractor shall provide Portable Changeable Message Signs in advance of, or on the project at locations shown on the plans or as determined by the Engineer. Portable Changeable Message Signs shall be in operation during the road closures. The message required is per plan or as designated by the Engineer. In the event of damage or mechanical/electrical failure, the Contractor shall repair or replace the Portable Changeable Message Sign immediately.

IX. RAMP CLOSURE BARRICADES

Type III Barricades shall be placed in accordance with the MUTCD and the 2019 Standard Specifications, Section 112.

X. PAVEMENT MARKINGS

Permanent and Temporary Striping shall be in accordance with Standard Specifications Section 112, except that:

1. Edge lines will be required for temporary striping; and
2. Temporary or permanent striping shall be in place before a lane is opened to traffic.

XI. TEMPORARY PAVEMENT STRIPING

Conflicting pavement skip lines and/or solid lines through the length of the MOT for lane closures and other striping, as directed by the Engineer, shall be temporarily covered with 8" black removable tape.

The Contractor shall replace any temporary striping that becomes damaged or fails to adhere to the pavement before dark on the day of notification. Liquidated damages shall be assessed the Contractor at a rate of \$500 per day for failing to replace temporary striping within this time limit.

Cover or remove/replace conflicting arrows in local streets pavement to satisfaction of the Engineer and shall be considered incidental to Maintain and Control Traffic.

Temporary pavement striping shall be paid only once per course in accordance with Standard Specification Section 112.04.07.

XII. TRUCK MOUNTED ATTENUATORS

Furnish and install MUTCD approved truck mounted attenuators (TMA) in advance of work areas on the interstate when workers are present less than 12 feet from traffic. If there is less than 500 feet between work sites, only a single TMA will be required at a location directed by the Engineer. Locate the TMAs at the individual work sites and move them as the work zone moves within the project limits. All details of the TMA installations shall be approved by the Engineer.

XIII. DRUMS

Drums are to be used for channelization or delineation of the closed/active lane lines and tapers. Replace damaged drums either due to poor condition or reflectivity as directed by the Engineer.

MATERIAL SUMMARY

CONTRACT ID: 202609

056GR20M057 - FJ11

MB05600642001

RAMP 4 - I-64 WB RAMP TO MARKET ST (MP 0.237). BRIDGE OVER I-64 RAMPS, W MAIN ST, W MARKET ST BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	01984	DELINEATOR FOR BARRIER - WHITE	10.00	EACH
0010	01985	DELINEATOR FOR BARRIER - YELLOW	63.00	EACH
0015	02003	RELOCATE TEMP CONC BARRIER	380.00	LF
0020	02014	BARRICADE-TYPE III	8.00	EACH
0025	02110	PARTIAL DEPTH PATCHING	3.00	CUFT
0030	02484	CHANNEL LINING CLASS III	5.00	TON
0035	02562	TEMPORARY SIGNS	500.00	SQFT
0040	02568	MOBILIZATION - APPLIES TO RAMP 4 - 056B00298N	1.00	LS
0045	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO RAMP 4 - 056B00298N	1.00	LS
0050	02653	LANE CLOSURE	2.00	EACH
0055	02654	TRUCK MOUNTED ATTENUATOR	1.00	EACH
0060	02671	PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH
0065	02677	ASPHALT PAVE MILLING & TEXTURING	231.00	TON
0070	02898	RELOCATE CRASH CUSHION	1.00	EACH
0075	03171	CONCRETE BARRIER WALL TYPE 9T	1,600.00	LF
0080	04740	POLE BASE	2.00	EACH
0085	04810	ELECTRICAL JUNCTION BOX - 6 IN X 24 IN	2.00	EACH
0090	04835	WIRE-NO. 4	392.00	LF
0095	06542	PAVE STRIPING-THERMO-6 IN W	2,050.00	LF
0100	06543	PAVE STRIPING-THERMO-6 IN Y	1,590.00	LF
0105	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0110	06550	PAVE STRIPING-TEMP REM TAPE-W	2,970.00	LF
0115	06551	PAVE STRIPING-TEMP REM TAPE-Y	3,280.00	LF
0120	06600	REMOVE PAVEMENT MARKER TYPE V	62.00	EACH
0125	08104	CONCRETE-CLASS AA	198.00	CUYD
0130	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	1,643.00	EACH
0135	08151	STEEL REINFORCEMENT-EPOXY COATED	34,119.00	LB
0140	08903	CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH
0145	20418ED	REMOVE & RELOCATE SIGNS	1.00	EACH
0150	20454NS835	TEMPORARY LIGHTING	1.00	LS
0155	20568NN	MECHANICAL COUPLER - TRANSITION #6 / #5 - EPOXY COATED	3,279.00	EACH
0160	21138ED	ASPHALT WATERPROOFING MIX	287.00	TON
0165	21679EN	FIBERGLASS DRAIN PIPE - 8 IN	820.00	LF
0170	22664EN	WATER BLASTING EXISTING STRIPE	3,640.00	LF
0175	23033EN	BRIDGE BARRIER REMOVAL	1,581.00	LF
0180	23055N	REMOVE - DRAINAGE	1.00	LS
0185	23055N	REMOVE - TV CAMERAS	1.00	LS
0190	23170ND	REMOVE & RESET LIGHT STANDARD	2.00	EACH
0195	23386EC	JOINT SEAL REPLACEMENT	240.00	LF
0200	23813EC	DECK DRAIN	25.00	EACH
0205	23814EC	REMOVE EXISTING DECK	1.00	LS
0210	24489EC	INLAID PAVEMENT MARKER - W/R	21.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0215	24489EC	INLAID PAVEMENT MARKER - Y/R	21.00	EACH
0220	24902EC	PVC CONDUIT-3 IN-SCHEDULE 80	196.00	LF
0225	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	1,581.00	LF
0230	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 202609

056GR20M057 - FJ11

MB05600642002

RAMP 2A - 9TH ST RAMP TO I-64 EB (MP 0.051). RAMP OVER MAIN ST TO I-64 EB BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0235	01984	DELINEATOR FOR BARRIER - WHITE	11.00	EACH
0240	01985	DELINEATOR FOR BARRIER - YELLOW	1.00	EACH
0245	02014	BARRICADE-TYPE III	9.00	EACH
0250	02110	PARTIAL DEPTH PATCHING	1.00	CUFT
0255	02562	TEMPORARY SIGNS	500.00	SQFT
0260	02568	MOBILIZATION - APPLIES TO 056B00299N	1.00	LS
0265	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 056B00299N	1.00	LS
0270	02653	LANE CLOSURE	1.00	EACH
0275	02677	ASPHALT PAVE MILLING & TEXTURING	31.00	TON
0280	03171	CONCRETE BARRIER WALL TYPE 9T	240.00	LF
0285	04740	POLE BASE	2.00	EACH
0290	04810	ELECTRICAL JUNCTION BOX - 6 IN X 24 IN	1.00	EACH
0295	04835	WIRE-NO. 4	632.00	LF
0300	06542	PAVE STRIPING-THERMO-6 IN W	380.00	LF
0305	06543	PAVE STRIPING-THERMO-6 IN Y	390.00	LF
0310	06551	PAVE STRIPING-TEMP REM TAPE-Y	210.00	LF
0315	06600	REMOVE PAVEMENT MARKER TYPE V	27.00	EACH
0320	08104	CONCRETE-CLASS AA	67.00	CUYD
0325	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	338.00	EACH
0330	08151	STEEL REINFORCEMENT-EPOXY COATED	7,056.00	LB
0335	20418ED	REMOVE & RELOCATE SIGNS	1.00	EACH
0340	20454NS835	TEMPORARY LIGHTING	1.00	LS
0345	20568NN	MECHANICAL COUPLER - TRANSITION #6 / #5 - EPOXY COATED	669.00	EACH
0350	21138ED	ASPHALT WATERPROOFING MIX	42.00	TON
0355	21679EN	FIBERGLASS DRAIN PIPE - 8 IN	120.00	LF
0360	22664EN	WATER BLASTING EXISTING STRIPE	770.00	LF
0365	23033EN	BRIDGE BARRIER REMOVAL	314.00	LF
0370	23033EN	BRIDGE BARRIER REMOVAL	314.00	LF
0375	23055N	REMOVE - DRAINAGE	1.00	LS
0380	23170ND	REMOVE & RESET LIGHT STANDARD	2.00	EACH
0385	23386EC	JOINT SEAL REPLACEMENT	44.00	LF
0390	23813EC	DECK DRAIN	5.00	EACH
0395	23814EC	REMOVE EXISTING DECK	1.00	LS
0400	24489EC	INLAID PAVEMENT MARKER - Y/R	5.00	EACH
0405	24902EC	PVC CONDUIT-3 IN-SCHEDULE 80	316.00	LF
0410	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	314.00	LF
0415	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 202609

056GR20M057 - FJ11

MB05600642003

MATERIAL SUMMARY

RAMP 1 - 9TH ST RAMP TO I-64 WB (MP 0.196). RAMP OVER I-64, MAIN ST BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0420	01984	DELINEATOR FOR BARRIER - WHITE	21.00	EACH
0425	01985	DELINEATOR FOR BARRIER - YELLOW	27.00	EACH
0430	02003	RELOCATE TEMP CONC BARRIER	800.00	LF
0435	02014	BARRICADE-TYPE III	12.00	EACH
0440	02110	PARTIAL DEPTH PATCHING	3.00	CUFT
0445	02484	CHANNEL LINING CLASS III	5.00	TON
0450	02562	TEMPORARY SIGNS	500.00	SQFT
0455	02568	MOBILIZATION - APPLIES TO RAMP 1 - 056B00300N	1.00	LS
0460	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO RAMP 1 - 056B00300N	1.00	LS
0465	02653	LANE CLOSURE	2.00	EACH
0470	02654	TRUCK MOUNTED ATTENUATOR	1.00	EACH
0475	02677	ASPHALT PAVE MILLING & TEXTURING	178.00	TON
0480	02775	ARROW PANEL	2.00	EACH
0485	02898	RELOCATE CRASH CUSHION	1.00	EACH
0490	03171	CONCRETE BARRIER WALL TYPE 9T	880.00	LF
0495	04740	POLE BASE	4.00	EACH
0500	04810	ELECTRICAL JUNCTION BOX - 6 IN X 24 IN	5.00	EACH
0505	04835	WIRE-NO. 4	1,196.00	LF
0510	06542	PAVE STRIPING-THERMO-6 IN W	1,340.00	LF
0515	06543	PAVE STRIPING-THERMO-6 IN Y	1,080.00	LF
0520	06546	PAVE STRIPING-THERMO-12 IN W	420.00	LF
0525	06549	PAVE STRIPING-TEMP REM TAPE-B	200.00	LF
0530	06550	PAVE STRIPING-TEMP REM TAPE-W	2,730.00	LF
0535	06551	PAVE STRIPING-TEMP REM TAPE-Y	1,970.00	LF
0540	06600	REMOVE PAVEMENT MARKER TYPE V	52.00	EACH
0545	08104	CONCRETE-CLASS AA	128.00	CUYD
0550	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	1,271.00	EACH
0555	08151	STEEL REINFORCEMENT-EPOXY COATED	26,998.00	LB
0560	08901	CRASH CUSHION TY VI CLASS BT TL2	2.00	EACH
0565	20418ED	REMOVE & RELOCATE SIGNS	3.00	EACH
0570	20454NS835	TEMPORARY LIGHTING	1.00	LS
0575	20568NN	MECHANICAL COUPLER - TRANSITION #6 / #5 - EPOXY COATED	2,538.00	EACH
0580	21134ND	REMOVE-STORE AND REINSTALL SIGN	1.00	EACH
0585	21138ED	ASPHALT WATERPROOFING MIX	221.00	TON
0590	21679EN	FIBERGLASS DRAIN PIPE - 10 IN	230.00	LF
0595	21679EN	FIBERGLASS DRAIN PIPE - 8 IN	590.00	LF
0600	22664EN	WATER BLASTING EXISTING STRIPE	2,840.00	LF
0605	23033EN	BRIDGE BARRIER REMOVAL	1,217.00	LF
0610	23055N	REMOVE - DRAINAGE	1.00	LS
0615	23055N	REMOVE - TV CAMERAS	1.00	LS
0620	23170ND	REMOVE & RESET LIGHT STANDARD	4.00	EACH
0625	23386EC	JOINT SEAL REPLACEMENT	224.00	LF
0630	23813EC	DECK DRAIN	46.00	EACH
0635	23814EC	REMOVE EXISTING DECK	1.00	LS
0640	24489EC	INLAID PAVEMENT MARKER - W/R	28.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0645	24489EC	INLAID PAVEMENT MARKER - Y/R	14.00	EACH
0650	24902EC	PVC CONDUIT-3 IN-SCHEDULE 80	598.00	LF
0655	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	1,217.00	LF
0660	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 202609

056GR20M057 - FJ11

MB05600642004

RAMP 2 - MAIN ST AND 9TH ST RAMP (MP 0.053). RAMP OVER CORNER OF N 9TH ST & N WASHINGTON ST BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0665	01984	DELINEATOR FOR BARRIER - WHITE	12.00	EACH
0670	01985	DELINEATOR FOR BARRIER - YELLOW	2.00	EACH
0675	02003	RELOCATE TEMP CONC BARRIER	120.00	LF
0680	02014	BARRICADE-TYPE III	5.00	EACH
0685	02110	PARTIAL DEPTH PATCHING	1.00	CUFT
0690	02562	TEMPORARY SIGNS	500.00	SQFT
0695	02568	MOBILIZATION - APPLIES TO RAMP 2 - 056B00301N	1.00	LS
0700	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO RAMP 2 - 056B00301N	1.00	LS
0705	02653	LANE CLOSURE	1.00	EACH
0710	02677	ASPHALT PAVE MILLING & TEXTURING	35.00	TON
0715	04740	POLE BASE	1.00	EACH
0720	04810	ELECTRICAL JUNCTION BOX - 6 IN X 24 IN	2.00	EACH
0725	04835	WIRE-NO. 4	564.00	LF
0730	06542	PAVE STRIPING-THERMO-6 IN W	360.00	LF
0735	06543	PAVE STRIPING-THERMO-6 IN Y	390.00	LF
0740	06546	PAVE STRIPING-THERMO-12 IN W	220.00	LF
0745	06550	PAVE STRIPING-TEMP REM TAPE-W	100.00	LF
0750	06551	PAVE STRIPING-TEMP REM TAPE-Y	90.00	LF
0755	06600	REMOVE PAVEMENT MARKER TYPE V	9.00	EACH
0760	08104	CONCRETE-CLASS AA	44.00	CUYD
0765	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	384.00	EACH
0770	08151	STEEL REINFORCEMENT-EPOXY COATED	7,681.00	LB
0775	20418ED	REMOVE & RELOCATE SIGNS	1.00	EACH
0780	20454NS835	TEMPORARY LIGHTING	1.00	LS
0785	20568NN	MECHANICAL COUPLER - TRANSITION #6 / #5 - EPOXY COATED	766.00	EACH
0790	21138ED	ASPHALT WATERPROOFING MIX	47.00	TON
0795	21679EN	FIBERGLASS DRAIN PIPE - 8 IN	150.00	LF
0800	22664EN	WATER BLASTING EXISTING STRIPE	970.00	LF
0805	23033EN	BRIDGE BARRIER REMOVAL	356.00	LF
0810	23055N	REMOVE - DRAINAGE	1.00	LS
0815	23055N	REMOVE - TV CAMERAS	1.00	LS
0820	23170ND	REMOVE & RESET LIGHT STANDARD	1.00	EACH
0825	23386EC	JOINT SEAL REPLACEMENT	93.00	LF
0830	23813EC	DECK DRAIN	9.00	EACH
0835	23814EC	REMOVE EXISTING DECK	1.00	LS
0840	24489EC	INLAID PAVEMENT MARKER - W/R	11.00	EACH
0845	24489EC	INLAID PAVEMENT MARKER - Y/R	5.00	EACH
0850	24902EC	PVC CONDUIT-3 IN-SCHEDULE 80	282.00	LF
0855	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	356.00	LF
0860	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 202609

056GR20M057 - FJ11

MB05600642005

RAMP 3 - I-64 EB RAMP TO MARKET ST (MP 0.103). I-64 EB RAMP TO MARKET ST OVER MAIN ST BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0865	01984	DELINEATOR FOR BARRIER - WHITE	18.00	EACH
0870	01985	DELINEATOR FOR BARRIER - YELLOW	4.00	EACH
0875	02003	RELOCATE TEMP CONC BARRIER	240.00	LF
0880	02014	BARRICADE-TYPE III	2.00	EACH
0885	02110	PARTIAL DEPTH PATCHING	2.00	CUFT
0890	02484	CHANNEL LINING CLASS III	3.00	TON
0895	02562	TEMPORARY SIGNS	500.00	SQFT
0900	02568	MOBILIZATION - APPLIES TO RAMP 3 - 056B00302N	1.00	LS
0905	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO RAMP 3 - 056B00302N	1.00	LS
0910	02653	LANE CLOSURE	2.00	EACH
0915	02671	PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH
0920	02677	ASPHALT PAVE MILLING & TEXTURING	89.00	TON
0925	02898	RELOCATE CRASH CUSHION	1.00	EACH
0930	03171	CONCRETE BARRIER WALL TYPE 9T	700.00	LF
0935	04810	ELECTRICAL JUNCTION BOX - 6 IN X 24 IN	2.00	EACH
0940	04835	WIRE-NO. 4	174.00	LF
0945	06542	PAVE STRIPING-THERMO-6 IN W	700.00	LF
0950	06543	PAVE STRIPING-THERMO-6 IN Y	640.00	LF
0955	06549	PAVE STRIPING-TEMP REM TAPE-B	200.00	LF
0960	06550	PAVE STRIPING-TEMP REM TAPE-W	1,700.00	LF
0965	06551	PAVE STRIPING-TEMP REM TAPE-Y	390.00	LF
0970	06600	REMOVE PAVEMENT MARKER TYPE V	20.00	EACH
0975	08104	CONCRETE-CLASS AA	76.00	CUYD
0980	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	637.00	EACH
0985	08151	STEEL REINFORCEMENT-EPOXY COATED	13,163.00	LB
0990	08903	CRASH CUSHION TY VI CLASS BT TL3	1.00	EACH
0995	20418ED	REMOVE & RELOCATE SIGNS	1.00	EACH
1000	20454NS835	TEMPORARY LIGHTING	1.00	LS
1005	20568NN	MECHANICAL COUPLER - TRANSITION #6 / #5 - EPOXY COATED	1,271.00	EACH
1010	21138ED	ASPHALT WATERPROOFING MIX	111.00	TON
1015	21679EN	FIBERGLASS DRAIN PIPE - 8 IN	360.00	LF
1020	22664EN	WATER BLASTING EXISTING STRIPE	1,340.00	LF
1025	23033EN	BRIDGE BARRIER REMOVAL	611.00	LF
1030	23055N	REMOVE - DRAINAGE	1.00	LS
1035	23386EC	JOINT SEAL REPLACEMENT	120.00	LF
1040	23813EC	DECK DRAIN	20.00	EACH
1045	23814EC	REMOVE EXISTING DECK	1.00	LS
1050	24489EC	INLAID PAVEMENT MARKER - W/R	5.00	EACH
1055	24489EC	INLAID PAVEMENT MARKER - Y/R	8.00	EACH
1060	24902EC	PVC CONDUIT-3 IN-SCHEDULE 80	87.00	LF
1065	25028ED	RAIL SYSTEM SINGLE SLOPE - 40 IN	611.00	LF
1070	02569	DEMOBILIZATION	1.00	LS

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2019* and *Standard Drawings, Edition of 2016*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting.
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

II. NONDISCRIMINATION OF EMPLOYEES

**AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

 PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

TIP CREDIT

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

PART IV
INSURANCE

Refer to
Kentucky Standard Specifications for Road and Bridge Construction,
current edition

PART V
BID ITEMS

PROPOSAL BID ITEMS

202609

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Report Date 6/29/20

Section: 0001 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	01984		DELINEATOR FOR BARRIER - WHITE	72.00	EACH		\$	
0020	01985		DELINEATOR FOR BARRIER - YELLOW	97.00	EACH		\$	
0030	02003		RELOCATE TEMP CONC BARRIER	1,540.00	LF		\$	
0040	02014		BARRICADE-TYPE III	36.00	EACH		\$	
0050	02110		PARTIAL DEPTH PATCHING	10.00	CUFT		\$	
0060	02484		CHANNEL LINING CLASS III	13.00	TON		\$	
0070	02562		TEMPORARY SIGNS	2,500.00	SQFT		\$	
0080	02568		MOBILIZATION APPLIES TO 056B00299N	1.00	LS		\$	
0090	02568		MOBILIZATION APPLIES TO RAMP 1 - 056B00300N	1.00	LS		\$	
0100	02568		MOBILIZATION APPLIES TO RAMP 2 - 056B00301N	1.00	LS		\$	
0110	02568		MOBILIZATION APPLIES TO RAMP 3 - 056B00302N	1.00	LS		\$	
0120	02568		MOBILIZATION APPLIES TO RAMP 4 - 056B00298N	1.00	LS		\$	
0130	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 056B00299N	1.00	LS		\$	
0140	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO RAMP 1 - 056B00300N	1.00	LS		\$	
0150	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO RAMP 2 - 056B00301N	1.00	LS		\$	
0160	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO RAMP 3 - 056B00302N	1.00	LS		\$	
0170	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO RAMP 4 - 056B00298N	1.00	LS		\$	
0180	02653		LANE CLOSURE	8.00	EACH		\$	
0190	02654		TRUCK MOUNTED ATTENUATOR	2.00	EACH		\$	
0200	02671		PORTABLE CHANGEABLE MESSAGE SIGN	8.00	EACH		\$	
0210	02677		ASPHALT PAVE MILLING & TEXTURING	564.00	TON		\$	
0220	02775		ARROW PANEL	2.00	EACH		\$	
0230	02898		RELOCATE CRASH CUSHION	3.00	EACH		\$	
0240	03171		CONCRETE BARRIER WALL TYPE 9T	3,420.00	LF		\$	
0250	04740		POLE BASE	9.00	EACH		\$	
0260	04810		ELECTRICAL JUNCTION BOX 6 IN X 24 IN	12.00	EACH		\$	
0270	04835		WIRE-NO. 4	2,958.00	LF		\$	
0280	06542		PAVE STRIPING-THERMO-6 IN W	4,830.00	LF		\$	
0290	06543		PAVE STRIPING-THERMO-6 IN Y	4,090.00	LF		\$	
0300	06546		PAVE STRIPING-THERMO-12 IN W	640.00	LF		\$	
0310	06549		PAVE STRIPING-TEMP REM TAPE-B	900.00	LF		\$	
0320	06550		PAVE STRIPING-TEMP REM TAPE-W	7,500.00	LF		\$	
0330	06551		PAVE STRIPING-TEMP REM TAPE-Y	5,940.00	LF		\$	
0340	06600		REMOVE PAVEMENT MARKER TYPE V	170.00	EACH		\$	
0350	08104		CONCRETE-CLASS AA	513.00	CUYD		\$	
0360	08140		MECHANICAL REINF COUPLER #5 EPOXY COATED	4,273.00	EACH		\$	
0370	08151		STEEL REINFORCEMENT-EPOXY COATED	89,017.00	LB		\$	
0380	08901		CRASH CUSHION TY VI CLASS BT TL2	2.00	EACH		\$	

PROPOSAL BID ITEMS

202609

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Report Date 6/29/20

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	08903		CRASH CUSHION TY VI CLASS BT TL3	2.00	EACH		\$	
0400	20418ED		REMOVE & RELOCATE SIGNS	7.00	EACH		\$	
0410	20454NS835		TEMPORARY LIGHTING	1.00	LS		\$	
0420	20568NN		MECHANICAL COUPLER TRANSITION #6 / #5 - EPOXY COATED	8,523.00	EACH		\$	
0430	21134ND		REMOVE-STORE AND REINSTALL SIGN	1.00	EACH		\$	
0440	21138ED		ASPHALT WATERPROOFING MIX	708.00	TON		\$	
0450	21679EN		FIBERGLASS DRAIN PIPE 10 IN	230.00	LF		\$	
0460	21679EN		FIBERGLASS DRAIN PIPE 8 IN	2,040.00	LF		\$	
0470	22664EN		WATER BLASTING EXISTING STRIPE	9,560.00	LF		\$	
0480	23033EN		BRIDGE BARRIER REMOVAL	4,393.00	LF		\$	
0490	23055N		REMOVE DRAINAGE	1.00	LS		\$	
0500	23055N		REMOVE TV CAMERAS	1.00	LS		\$	
0510	23170ND		REMOVE & RESET LIGHT STANDARD	9.00	EACH		\$	
0520	23386EC		JOINT SEAL REPLACEMENT	721.00	LF		\$	
0530	23813EC		DECK DRAIN	105.00	EACH		\$	
0540	23814EC		REMOVE EXISTING DECK	1.00	LS		\$	
0550	24489EC		INLAID PAVEMENT MARKER W/R	65.00	EACH		\$	
0560	24489EC		INLAID PAVEMENT MARKER Y/R	53.00	EACH		\$	
0570	24902EC		PVC CONDUIT-3 IN-SCHEDULE 80	1,479.00	LF		\$	
0580	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	4,079.00	LF		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0590	02569		DEMOBILIZATION	1.00	LS		\$	