



CALL NO. 330

CONTRACT ID. 232984

TRIMBLE COUNTY

FED/STATE PROJECT NUMBER FE02 112 0421 B00040N 19.08

DESCRIPTION MILTON-MADISON ROAD (US 421)

WORK TYPE BRIDGE DECK RESTORATION & WATERPROOFING

PRIMARY COMPLETION DATE 11/15/2023

LETTING DATE: July 20,2023

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 20,2023. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH 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 - 232984

FE02 112 0421 B00040N 19.08

COUNTY - TRIMBLE

PCN - MB11204212301

FE02 112 0421 B00040N 19.08

MILTON-MADISON ROAD (US 421) BRIDGE 112B0040N OVER OHIO RIVER AT MP 19.08BRIDGE STEEL REPAIRS
SYP NO. 5--10107.

GEOGRAPHIC COORDINATES LATITUDE 38:43:43.00 LONGITUDE 85:22:12.00

ADT

COMPLETION DATE(S):

COMPLETED BY 11/15/2023

APPLIES TO INTIRE 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.

BUILD AMERICA, BUY AMERICA ACT (BABA)

On November 15, 2021, President Biden signed into law the Infrastructure Investment and Jobs Act (IIJA), Pub. L. No. 117-58, includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§70901-52. The Act strengthens the Buy America preference to include “construction materials.” The current temporary waiver for **“construction materials”** will expire on November 10, 2022.

The Act will apply to construction materials as outlined in the guidance issued in OMB [M-22-11](#).

Construction Materials – Includes an article, material, or supply – other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives – that is or consists primarily of:

- Non-ferrous metals
- Plastic/polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
- Glass (including optic glass);
- Lumber; or
- Drywall.

Construction Materials only applies to items, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project.

Construction Materials does not apply to tools, equipment or supplies brought to the jobsite and removed before completion.

BOYCOTT PROVISIONS

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade. **Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

If applicable, the contractor verifies that, pursuant to KRS 41.480, they do not engage in, and will not for the duration of the contract engage in, in energy company boycotts as defined by KRS 41.472.

LOBBYING PROHIBITIONS

The contractor represents that they, and any subcontractor performing work under the contract, have not violated the agency restrictions contained in [KRS 11A.236](#) during the previous ten (10) years, and pledges to abide by the restrictions set forth in such statute for the duration of the contract awarded.

The contractor further represents that, pursuant to [KRS 45A.328](#), they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

February 1, 2023

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

**SPECIAL NOTES
DISTRICT NO. 5
BRIDGE DECK RESTORATION AND WATERPROOFING
TRIMBLE COUNTY
SYP ITEM NUMBER 5-10107
CID 232984**

FE02 114 0421 B00040N 19.08

Trimble County ~ US 421 (Milton-Madison Road) over Ohio River

Geographic Coordinates

Latitude 38° 43' 43.00'' (38.2384)

Longitude -85° 22' 12.00'' (-85.7531)

Description

3141' 4 Span Steel Continuous Through Truss.

**SPECIAL NOTES FOR
BRIDGE DECK RESTORATION AND WATERPROOFING**

GENERAL NOTES

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY
FOR BRIDGE DECKS

SPECIAL NOTE FOR STRUCTURE REMOVAL AND RENOVATIONS

SPECIAL NOTE FOR MIGRATORY BIRD PROTECTION

GENERAL NOTES

Trimble 112B00040N – ITEM 5-10107

SPECIFICATIONS

All references to the Standard Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction with current supplemental specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO LRFD Bridge Design Specifications, with interims.

STANDARD DRAWINGS

Standard Drawings are not attached to these Plans. A Standard Drawing book may be obtained from the KYTC Policy Support Branch of the Department of Administrative Services in Frankfort, KY at (502) 564-3670. See other appropriate KYTC Standard Drawings where applicable.

EXISTING PLANS

A copy of available original bridge construction contract plans will be made available to the successful bidder upon written request. The completeness of these drawings is not guaranteed and no responsibility is assumed for their accuracy.

DETAILS AND DIMENSIONS

Dimensions shown on these plans are taken from the original construction contract plans and do not necessarily reflect revisions made during construction or repairs previously installed. The Contractor shall verify elevations and dimensions, including thickness of parts and fastener size/spacing, with field measurements prior to ordering materials or fabricating steelwork. All plan dimensions are for a normal temperature of 60°F.

ON SITE INSPECTION

Each Contractor submitting a bid for this work shall make a thorough inspection of the bridge and the work site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. A suitable method of performing the work described herein should be investigated. Submission of a bid will be considered evidence of this inspection having been made. Any claims from site conditions will not be honored by the Department.

VERIFICATION OF FIELD CONDITIONS

Plan dimensions and details relative to the existing structure are subject to nominal construction variations. Additionally, changes may have been made during construction or during previous maintenance work which may have altered the structure. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. In addition, the overrun and underrun formulas may be applied to the appropriate repairs provided that the requirements of Article 104.02.02 of the Standard Specifications are satisfied.

RIVER NAVIGATION

Continuous maintenance and safety of river navigation throughout the term of the project shall be a prime consideration. All work involving the removal of the existing bridge deck or

GENERAL NOTES

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installation, removal, or modification of the structural elements beneath the bridge deck shall cease when there is approaching river traffic. This work shall not resume until the river traffic is clear of the bridge area.

At least 30 days in advance of beginning construction, the Contractor shall submit to the Department (for submittal to the Coast Guard) a work plan for performing work over the Ohio River. This work plan shall include but is not limited to methods for containing debris and maintenance of existing navigational traffic during construction.

The Contractor must advise the Coast Guard of the Contractor's proposed schedule of work at least 10 days prior to commencement of any field operations.

DAMAGE TO THE STRUCTURE

The contractor is responsible for any and all damage to the structure during construction.

UTILITIES

The Contractor shall protect all utilities, lighting, and signage attached to the structure during construction. All cost for protection shall be incidental to this contract. Any damage caused by the Contractor shall be repaired at no additional cost to the Department.

INCIDENTAL ITEMS

The Contractor is required to complete the structure in accordance with the Plans and Specifications. Material or labor not otherwise specified is to be considered incidental to the contract.

CONSTRUCTION MATERIAL DISPOSAL

All material that is required to be removed shall be disposed of off-site by the contractor at no additional cost to KYTC.

COMPLETION OF THE STRUCTURE

The Contractor is required to complete the structures in accordance with the Plans and Specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include shoring, excavations, backfilling, removal of all or parts of existing structures, incidental materials, labor or anything else required to complete the structure. After completion of all operations, the structure and site shall be left in a condition that is in accordance with Section 105.12 of the Specifications.

SHOP DRAWINGS

Shop drawings are not required.

PAINTING

Following the replacement of bolts and drilling of weep holes in steel members, debur, clean and paint all exposed structural steel in accordance with Section 607.03.23 "Cleaning and Painting," except shop coating preparation and application shall be completed in the field. Paint color shall

GENERAL NOTES

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match existing. Apply field coatings to steel to be overcoated in accordance with Section 614. Field painting of all existing structural steel will be considered incidental to “Drilled Holes”.

PAINTING DAMAGED AREAS

All areas of new or existing structural steel on which the paint has been damaged by the Contractor shall be cleaned and spot painted to the satisfaction of the Engineer and in accordance with the Section 607.03.23 “Cleaning and Painting,” except shop coating preparation and application shall be completed in the field. This includes areas damaged or exposed during bolt replacement and the drilling repair. The cost of this touch-up painting is to be incidental to the contract.

CONTRACT START/COMPLETION DATE

All construction activities are to be performed between September 15 and November 15, 2023. No work is to be performed outside of this period.

PROHIBITED FIELD WELDING

Except where shown in the Plans, no welding of any nature shall be performed on the load carrying members of the bridge without written consent of the Director of Structural Design and then only in the manner and at the locations designated in the authorization.

JOINT AND DRAIN CLEANING

Joints and deck drains shall be cleaned of debris during preparation for 3/8” Epoxy-Urethane Waterproofing Overlay and after overlay is fully cured. Joint cleaning includes drainage troughs and pipes under joints. Care shall be taken to avoid damage to joint seals. Any damage caused by the Contractor shall be repaired at no additional cost to the Department. The cost of joint and drain cleaning is to be incidental to 3/8” Epoxy-Urethane Waterproofing Overlay.

DURABLE PAVEMENT STRIPING

Durable pavement striping shall be installed according to Section 714 identical to existing markings after overlay is fully cured and cleaned. Care shall be taken to avoid damage to joint seals. Any damage caused by the Contractor shall be repaired at no additional cost to the Department. The cost of durable pavement striping will be in accordance with Section 714.

REPAIR 5 – DAMAGED FINGER JOINT REPAIR

Impact damage to the top of multiple finger joint segments near the centerline of Pier 6 shall be ground to provide a smooth transition throughout the joint. Care shall be taken to not damage other elements of the joint including but not limited to joint seals, troughs, armored edge, and anchor bolts and nuts. Approximate area of repair is 3 square feet. The cost of Repair 5 – Damaged Finger Joint Repair is lump sum.

REPAIR 6 - U32 DOWNSTREAM BOLT REPLACEMENT

Two existing loose bolts, nuts, and washers on the outboard face of the outboard plate at U32 downstream shall be removed and replaced with new 1¹/₈-inch diameter ASTM F3125 Grade A325 Type 1 high strength bolts, nuts, washers, and Direct Tension Indicators (DTIs). All bolts, nuts, washers, and DTIs to be mechanically galvanized in accordance with AAASHTO M298, Class 50 (ASTM B695-04, Class 50). DTIs are to be installed in accordance with the Standard

GENERAL NOTES

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Specifications and ASTM F959. Bolts shall be removed and replaced one at a time. Total plate thickness at this location is approximately 5¹/₄-inches. Threads are to be precluded in the shear plane. See gusset plate detail on Sheet 5 of 5 of the Bridge Rehabilitation Plans. The cost of Repair 6 – U32 Downstream Bolt Replacement is lump sum.

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

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1.0 TRAFFIC CONTROL GENERAL. Except as provided herein, traffic shall be maintained in accordance with Section 112 of the current Standard Specifications and the current edition of the Manual of Uniform Traffic Control Devices (MUTCD). 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, traffic control devices used on this project may be new or used in new condition, at the beginning of work and maintained in like new condition until completion of the work.

2.0 TRAFFIC COORDINATOR. Furnish a Project Traffic Coordinator (PTC) as per Section 112. The PTC 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 PTC 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 PTC can be contacted at all times.

3.0 SIGNS. The Contractor is responsible for all signage during construction. The Contractor shall adhere to the standard drawings and manual on uniform traffic control devices (MUTCD) for guidance. If, at any time, the Engineer requests a change in the maintenance of traffic signage, the Contractor shall implement the change within 8 hours. Failure to implement these changes within the required eight hours will result in liquidated damages of \$5,000 per day.

The Department will not measure installation, maintenance, or removal for payment of standard construction signage and will consider these incidental to “Maintain and Control Traffic”.

4.0 PROTECTION OF WATERWAY UNDERNEATH. No material should be allowed to drop into the waterway below. The contractor shall adhere to all applicable permits.

5.0 PROTECTION OF PEDESTRIANS. Protect any excavation, obstructions, or construction work so as not to expose pedestrians to hazards. The contractor shall provide protection for pedestrians from any overhead work. Cost of protection shall be incidental to Drill Holes in Steel Members.

6.0 TRAFFIC RESTRICTIONS. A full closure of the structure will not be permitted. Lane closures must be approved by the Engineer at least two weeks prior. A total of two 108-hour closures are allowed for the overlay work. During each closure, a single lane of the bridge (one southbound lane or one northbound lane) is permitted to be closed for a maximum of 108 continuous hours beginning at 6:00 PM and must be opened to traffic by 6:00 AM at the end of the 108 hours. Work shall be performed continuously for full time of the closure to expedite overlay installation and minimize impact to traveling public. The contractor shall schedule and complete the work such that the overlay is allowed to fully cure per the manufacturer's

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

Trimble 112B00040N – ITEM 5-10107

recommendations prior to opening the bridge to traffic and the bridge shall be opened to traffic as soon as the curing is completed. The Contractor is allowed to have additional single lane closures between 9 AM and 3 PM of the same day and between 6 PM and 6 AM of the following day for any work not pertaining to the epoxy overlay. Lane closures will not be permitted during holidays, Ribberfest (August 18-19, 2023), or other local events. The sidewalk shall remain open to pedestrian traffic for the duration of construction.

Single lane closures with a minimum 12-foot bi-directional driving lane are to be in accordance with Standard Drawing TTC-110-04. Temporary pavement markings should be placed in a manner to not damage the newly installed overlay. Any work which will require openings in the deck or barrier wall shall be in accordance with Standard Drawing TTC-120-04 and must include appropriate end treatments on the temporary concrete barrier wall.

7.0 VARIABLE MESSAGE SIGNS. Variable message signs will be installed, operated, and maintained by the Contractor. The Engineer shall determine the location and wording on the signs. The signs should be available up to three weeks prior to beginning work and be available throughout the project.

8.0 PAYMENT. Unless listed as a bid item in the contract documents, payment will only be made for the following items:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02650	Maintain and Control Traffic	Lump Sum
02671	Portable Changeable Message Sign	Each

All other items needed to maintain traffic in accordance with these contract documents and the approved traffic control plan shall be considered incidental to Maintain and Control Traffic. These items include but are not limited to traffic signals, signs, barrier wall, crash cushions, temporary guardrail, temporary and permanent pavement striping, cones, barrels, flaggers, etc.

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

1.0 DESCRIPTION:

- 1.1** This specification describes the Pre-treatment and Overlay consisting of multiple layers of hybrid polymer systems and a special blend of extremely hard aggregate designed to provide a minimum of a 3/8" thick application for the purpose of complete waterproofing as well as providing a non-skid surface to withstand continuous heavy traffic and extreme changes in weather conditions.
- 1.2** Unless otherwise noted, Section references herein are to the Department's *Standard Specifications for Road and Bridge Construction*. All applicable portions of the Department's *Standard Specifications* apply unless specifically modified herein.

2.0 MATERIALS:

2.1 Pre-treatment:

2.1.1 Hairline cracks

This two-part hybrid polymer shall be free of any fillers, volatile solvents and shall be formulated to provide simple volumetric ratio of two components such as one to one or two to one by volume.

This hybrid polymer system shall be formulated to provide a unique combination of extremely low viscosity and low surface tension coupled with a built-in affinity for concrete and steel.

2.1.2 Partial Depth patching (if necessary)

Class "M" Concrete. Use either "M1" or "M2". See Section 601.

2.1.3 Full Depth Patching (if necessary)

Class "M" Concrete. Use either "M1" or "M2". See Section 601.

Overlay:

- 2.2** The two-part epoxy-urethane co-polymer system shall be free of any fillers volatile solvents and shall be formulated to provide simple volumetric mixing ratio of two components such as one to one or two to one by volume.

The epoxy-urethane co-polymer system shall be formulated to provide flexibility in the system without any sacrifice of the hardness, chemical resistance or strength of the epoxy-urethane co-polymer system. Use of external/conventional flexibilizers are not acceptable. Flexibility shall be introduced by interaction of elastomers to chemically link in the process of curing so that the flexibility of the

SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS

Trimble 112B00040N – ITEM 5-10107

molecule is least affected during the low temperature conditions that are confronted in actual use.

2.3 Material Requirements

2.3.1 Physical Requirements of Cured Pretreatment for Cracks System.

When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 1. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 1	
PHYSICAL PROPERTIES OF THE CURED PRETREATMENT SYSTEM	
Property	Value
Compressive Strength, min. psi	5000
Tensile Strength, min. psi	2500
Elongation at Break, min percent	30
Water Absorption, percent by wt. max.	0.5%
Shore D hardness, min., 25°C (77°F)	65
Gel Time, min, minutes	15 (100gms)
Adhesion to Concrete	100% failure in concrete
Percent Solids	100

2.3.2 Physical requirements of Epoxy-Urethane Copolymer Overlay System.

When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 2. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 2	
PHYSICAL PROPERTIES OF THE CURED OVERLAY SYSTEM	
Property	Value
Compressive Strength, min. psi	5000
Tensile Strength, min. psi	2000
Elongation at Break, min percent	30
Water Absorption, percent by wt. max.	1.0%
Shore D hardness, min., 25°C (77°F)	65
Gel Time, min, minutes	15
LA Abrasion, max. percent	35
Adhesion to Concrete	100% failure in concrete
Flexural Yield Strength, min. psi	5000
Percent Solids	100
Thermal Compatibility	Visual – No Delamination/Cracking
Permeability to Chloride Ion at 28 days	100 Coulombs

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

2.4 Aggregate

2.4.1 Aggregate used for all layers shall be non-friable, non-polishing, clean and free from surface moisture. It shall be durable and sound and have a proven record of performance in applications of this type. The aggregate shall be 100 percent fractured, thoroughly washed and kiln dried to a maximum moisture content of 0.2 percent by weight, measured in accordance with ASTM C566. The recommended sources of aggregate are **Washington Stone or Oklahoma Flint or an approved equivalent.**

2.4.2 Aggregate for all layers shall have a minimum Mohs scale hardness of 7.

2.4.3 The grading of the aggregate shall conform to the requirements of Table 3

TABLE 3	
AGGREGATE GRADATION	
Sieve Size	Percent Passing
No. 4	60 – 100
No. 8	0 – 40
No. 16	0 – 10

3. METHOD OF TESTING

3.1 Tests shall be conducted in accordance with the following methods:

3.1.1 Compressive Strength: ASTM C579 Method B, *Compressive Strength of Chemical Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes*. The two components of the resin are to be thoroughly mixed in their appropriate ratios specified by the manufacturer. The samples shall then be prepared according to the conditioning requirements of ASTM C579 and allowed to cure for 7 days at 23 ± 2°C.

3.1.2 Tensile Strength and Elongation: ASTM D638, *Tensile Properties of Plastics*, Specimen Type I or Type II. Samples shall be cured at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity. Speed of testing shall be at 0.5 in/min.

3.1.3 Water Absorption: ASTM D570, *Water Absorption of Plastics*. Sample specimens shall be prepared according to section 4.1 and allowed to cure at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity. Tests are then to be carried out as per section 6.1.

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

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- 3.1.4 Shore D Hardness:** ASTM D2240, *Rubber Property – Durometer Hardness*. Specimen shall be prepared as per ASTM D570 section 4.1 and allowed to cure at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$).
- 3.1.5 Gel Time:** The following procedure shall be used to determine gel time. Measure 4 oz. of Part A and 2 oz. of Part B each at 25°C (77°F), into an unwaxed paper cup and record the time and mix immediately. 100 gms of this mixture shall be poured into a 6 oz. unwaxed paper cup and placed on a wooden bench top. Starting twenty minutes from the time recorded above, the mixture shall be probed every two minutes with a small stick until a small ball forms in the center of the container. The total time, including mixing, required for the ball to form shall be regarded as the gel time. The test shall be performed in a room or enclosed area maintained at $25 \pm 2^{\circ}\text{C}$ ($77 \pm 3.6^{\circ}\text{F}$) and $50 \pm 5\%$ relative humidity.
- 3.1.6 LA Abrasion, AASHTO T96** 35% Max
- 3.1.7 Adhesion to Concrete:** ACI-503-R; Pull Out Test.
- 3.1.8 Flexural Yield Strength:** ASTM D-790.
- 3.1.9 Thermal Compatibility:** ASTM C884, Determination if specimens are susceptible to debonding when subjected to temperature changes.

4. CONSTRUCTION PRACTICE

4.1 Surface Preparation

- 4.1.1** Perform full depth patching in accordance with the requirements of Section 606.03.05. All patching materials shall be in accordance with the requirements of Section 601 and be free of Magnesium Phosphate.
- 4.1.2** Patching shall be scheduled so that the bridge can be open to traffic during all non-working hours.
- 4.1.3** Partial depth patching system shall be approved by resin manufacturer and be completed prior to the polymer overlay. Completion of Partial Depth Patching including removal of concrete, cleaning, and placing the material will not be measured for payment and shall be considered incidental to "Epoxy-Urethane Waterproofing Overlay". The pay item includes additional quantity for partial depth patching.
- 4.1.4** The entire concrete deck shall be cleaned by shot blasting to remove any oil, dirt, rubber or any other potentially detrimental material such as curing

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

compound and laitances which, in the manufacturer and engineer's opinion, would prevent proper bonding to and curing of the material. Ensure the shot blasting has obliterated all pavement markings. Produce a surface relief that meets the International Concrete Repair Institute (ICRI) Surface Preparation CSP 5-7.

- 4.1.5** In areas that the shot blasting equipment cannot reach (i.e., along curbs and median walls) or cannot remove (pavement marking, asphalt, etc.), sandblasting and walk behind grinders are permitted to an extent satisfactory to the manufacturer and engineer. This should be performed prior to the shotblasting whenever applicable and practical.
- 4.1.6** Protect the bridge deck expansion joints, armored edges, drains, etc... with a bond breaker that can adequately seal the joints from the epoxy.
- 4.1.7** The overlay application equipment is allowed to drive on the deck surface during application provided precautions have been taken to insure that the deck surface will not become contaminated. For any reason traffic is to be allowed on the deck after surface preparation, or between layers, a visual inspection by the manufacturer and state engineer will be required to determine if additional surface preparation is needed before applying material.
- 4.1.8** All surfaces to be treated shall be dry at the time of application. Immediately before the application of any liquids, all prepared surfaces shall be cleaned with compressed air (or vacuumed) to remove dust and debris.
- 4.1.9** The application of the system shall not be made when it has rained 24 hours before application or rain is forecast (greater than 50%) within eight hours after application or as determined by the manufacturer (fog and high humidity will not impede the application of or affect the performance of the overlay). If waiting for 24 hours is impractical, then the moisture content in concrete substrate shall not exceed 4.5% when measured by an electronic moisture meter. Any exception shall be determined by the moisture content present in the deck which shall not exceed 75% of air entrainment in the mix design.
- 4.1.10** Materials shall be placed when the ambient air and bridge deck surface temperatures are greater than 55 deg F and less than 90 deg F.

SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS

Trimble 112B00040N – ITEM 5-10107

4.2 Application of Overlay System

- 4.2.1 The manufacturer of the epoxy-urethane overlay material shall have a representative on the jobsite at all times who has proven experience with the resin system and with guiding and assisting installers in the polymer overlay system installation.** Who, upon consultation with the engineer, may suspend any item of work that is suspect and does not meet the requirements of this specification. Resumption of work will occur only after the manufacturer's representative and the engineer are satisfied that appropriate remedial action has been taken by the contractor.
- 4.2.2** The overlay shall be applied on all deck areas using metering, mixing and distribution machinery **approved by the manufacturer of the epoxy-urethane overlay system.** Ratio check verification at the pump outlets as well as cycle counting capabilities to monitor output will be standard features.
- 4.2.3** The number of layers (a minimum of two), excluding the pre-treatment if required and the application rates of the liquid in the various layers shall be as recommended by the manufacturer in order to achieve an average overlay thickness of 3/8".
- 4.2.4 Hand mixing of material is not permitted.**
- 4.2.5 Application of Pre-treatment**

Crack Filling (Pre-treatment as required)

Application of the Liquid: After mechanically measuring and mixing of the components, the liquid shall be evenly distributed on the clean, dry deck surface at the rate/process recommended by the manufacturer. The overlay application equipment may drive on this layer (prior to being cured) when applying the overlay system. If the overlay application is going to be applied after 6-8 hours of the pretreatments application, a medium size coarse silica sand shall be broadcasted evenly into the pre-treatment system (prior to it curing) as directed by the manufacturer.

4.2.6 Overlay (First and Second Layers)

Application of Liquid: Prior to the application, if there exists any excess or loose aggregate from the previous coat, such excess aggregate shall be completely removed by vacuum or with compressed air. After mixing of the components via the mechanical application equipment, the liquid shall

SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS

Trimble 112B00040N – ITEM 5-10107

be evenly distributed on the clean, dry deck surface at the rate recommended by the manufacturer.

4.2.7 After the application of the liquid in the first and second coats, the maximum time allowed before broadcasting of the aggregate is as follows:

Above 90°F	.....	10 minutes
80°F to 90°F	.....	15 minutes
70°F to 80°F	.....	20 minutes
60°F to 70°F	.....	25 minutes
55°F to 60°F	.....	35 minutes

4.2.8 **No vehicle shall be allowed on the overlay during the curing period.**

4.2.9 Broadcasting on decks shall be by truck-mounted equipment capable of dispensing the aggregate onto the deck in a uniform manner as directed or otherwise approved by the manufacturer of the epoxy-urethane overlay.

4.2.10 The aggregate shall be broadcast as described below in a manner to cover the surface so that no wet spots appear and before the co-polymer begins to gel (see section 3.1.5). The aggregate must be dropped vertically in such a manner that the level of the liquid is not disturbed. Reclaimed aggregate is prohibited.

4.2.10.1 In the first and second layers of **the polymer overlay system**, the aggregate conforming to Table 3 shall be broadcast to saturation.

4.2.11 Removal of Excess Aggregate: After the overlay has hardened, removal of all loose and excess aggregate with a power vacuum or other method shall be made prior to the application of subsequent coats.

4.2.12 Joints in the Overlay: (i.e., between two adjacent lanes) shall be staggered 6 to 12 inches and overlapped between successive coats so that no ridges will appear. Prior to applying the first or second layer, duct tape shall be used to ensure a straight edge is created. The use of chalk lines can be used when applying the first layer only.

4.2.13 Traffic may be allowed on the final layer (or in between layers) after the resin has cured (as determined by the manufacturer) and after removal of all excess, loose aggregate.

4.2.14 The prepared surface may be opened to traffic for no more than 24 hours. A light shot blast will be required prior to applying the pretreatment or

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

first layer. A visual inspection by the inspector and manufacturer shall occur to ensure no additional prep is necessary to remove oil, tar, brake/tire residue, etc. After 24 hours, prep shall be per section 4.1.4.

4.2.15 The pretreatment with aggregate or first layer may be opened to traffic for no more than 24 hours. Prior to application of second layer, the inspector and manufacturer rep shall inspect the pretreatment with aggregate or first layer to ensure no additional surface prep is required to remove oil, brake/tire residue, etc. After 24 hours, prep shall be per section 4.1.4.

4.2.16 Seams in the Overlay shall not be present between lanes. Driving lanes next to shoulders must be done in the same application pass so no additional seams/joints in overlay are created.

5. STORAGE AND HANDLING

5.1 Liquid Material: All material shall be transported and stored in their original containers inside a dry, temperature controlled facility and maintained at a manufacturer recommended temperature.

5.2 Job Site Storage: The materials shall be stored on the jobsite in a dry, weather protected facility away from moisture and within the temperature range of 60°F to 90°F. When the materials are transported or stored on the job in the application machine tanks, the material must also be maintained at a temperature of 60°F to 90°F. Outdoor storage is permitted with manufacturer's approval.

5.3 Handling of Liquid Materials on the Job: Protective gloves, clothing, and goggles shall be provided to workers and inspectors directly exposed to the material if required. Product safety data sheets shall be provided to all workers and inspectors as obtained from the manufacturer.

5.4 Packing Requirement: All materials must be packaged in strong, substantial containers. The containers shall be identified as Part A and Part B and shall be plainly marked with the name and address of the manufacturer, name of the product, mixing proportions and instructions, lot and batch numbers, date of manufacture, and quantity contained therein.

5.5 Aggregate: All aggregate shall be stored in a dry, moisture-free atmosphere. The aggregate shall be fully protected from any contaminants on the jobsite and shall be stored so as not to be exposed to rain or other moisture sources.

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

6. SAMPLING AND ACCEPTANCE

6.1 Product Acceptance: The manufacturer of the system shall provide evidence of field performance, lab performance with infrared spectra in order to obtain state approval of the overlay system for use on the project:

6.1.1 Independent Lab Performance

A nationally recognized independent lab must verify that the material:

1. Has the capability of preventing the ingress of essentially all the chloride ions into the concrete at 1" depth when tested according to NCHRP-244 method.
2. Has the capability to de-activate the existing chloride ions present in the concrete specimen so that the corrosion of steel rebars embedded in the concrete stop corroding.
3. When tested as per Tables 1 and 2 fully comply with the test results specified for cured system.

6.1.2 Infrared Spectrograph: In addition to the initial certification process each manufacturer shall furnish the state an infrared spectra of each component of system for its permanent record and for individual installation verification.

6.1.3 Field Performance: The selected polymer overlay system must have at least two years of satisfactory performance for non-interstate use and four years of satisfactory performance for interstate use in similar environmental conditions as the project in which it will be used.

6.2 Certification for Compliance: At the pre-construction conference, the contractor shall notify the state project engineer of the source of material.

6.2.1 Independent Test Lab Report: Test results certified and verified by a nationally recognized independent testing laboratory verifying properties of the cured system as per Table 1 & 2 shall be submitted to the engineer for approval prior to the pre-construction conference. This certification shall be provided on each lot number to be used on the project.

6.2.2 Infrared Spectra: Infrared spectra of each component from each lot/batch number (to be used on the project) shall be submitted with the independent lab certification.

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

6.2.3 Test Sample for DOT Laboratory: The manufacturer shall furnish at least a one-quart sample of each component from each lot/batch to the DOT laboratory to verify material supplied by the manufacturer. Material shall be taken at job site.

6.3 Performance Acceptance

6.3.1 Thickness Verification: At the end of each day, the contractor will submit to the inspector/project engineer a signed project report stating the number of square yards applied, number of gallons used (for pretreatment and overlay) and number of pounds of aggregate estimated to have been used. In addition, the contractor shall verify to the State that the overlay is an average of at least 3/8" thick at three random locations agreed upon by the state engineer and material manufacturer representative. If 3/8" average is not achieved, a retest shall be performed in adjoining areas. Thin areas shall be re-coated as described above by the contractor and re-verified at no additional cost to the State. This verification may consist of cores, holes, etc., but in all cases, any destructively tested areas shall be repaired by the contractor before final acceptance by the engineer.

7. MEASUREMENT

7.1 Epoxy-Urethane Waterproofing Overlay. The Department will measure the overlay application in Square Feet.

7.2 Shotblasting. The Department will measure "Blast Cleaning" in Square Yard. The Department will only measure this quantity once for any area to be shotblast. Additional blast cleaning to meet the requirements of this note shall be performed at the Contractor's expense.

7.3 Partial Depth Patching. Partial Depth Patching will not be measured for payment, but shall be considered incidental to "Epoxy-Urethane Waterproofing Overlay".

7.4 Full Depth Patching. The Department will measure "Concrete Class M Full Depth Patching" in Cubic Yard.

8. PAYMENT

8.1 Epoxy-Urethane Waterproofing Overlay. The Department will pay for the measured quantities at the Contract unit bid price for "Epoxy-Urethane Waterproofing".

**SPECIAL NOTE FOR 3/8" EPOXY-URETHANE WATERPROOFING OVERLAY FOR
BRIDGE DECKS**

Trimble 112B00040N – ITEM 5-10107

- 8.2 Shotblasting.** The payment at the contract unit price for the pay item “Blast Cleaning” shall include all labor, equipment and material needed to complete the task as described in paragraphs 4.1.4 and 4.1.5.

- 8.3 Full Depth Patching.** The payment at the contract unit price shall include all labor, equipment and material needed to complete this task. The Department will not measure material removal, forming, blast cleaning, or retying steel reinforcement in the patches and will consider this work incidental to the pay item “Concrete Class M Full Depth Patching”.

The Department will make payment under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
23331EC	Epoxy-Urethane Waterproofing	SQFT
08549	Blast Cleaning	SQYD
08526	CONC Class M Full Depth Patch	CUYD

END OF SPECIAL NOTE

SPECIAL NOTE FOR STRUCTURE REMOVAL and RENOVATIONS

Trimble 112B00040N – ITEM 5-10107

Notice of Intent (NOI) to Division of Air Quality

The roadway contractor is required to file a Notice of Intent (NOI) to the Division of Air Quality ten (10) business days (M-F) prior to the start of any demolition or rehabilitation work on the bridge superstructure 112B00040N. Please use the KY Environmental and Energy Cabinet eForm Portal (<https://dep.gateway.ky.gov/eForms/Account/Home.aspx>) to complete this task. It is also advised that copies of the submittal are to be sent to the Regional Office of the Kentucky Division of Air Quality [KY DAO Regional Offices](#) to complete the notification process.

SPECIAL NOTE

For Migratory Bird Protection

Trimble County Milton Madison Bridge Rehabilitation over the Ohio River on US-421 KYTC Item No. 5-10107

PEREGRINE FALCONS ARE ACTIVE ON AND AROUND THE BRIDGE. A NEST BOX IS LOCATED ON THE BRIDGE AND SHALL NOT BE MOVED, DAMAGED, OR DISTURBED DURING CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED BETWEEN SEPTEMBER 15 AND NOVEMBER 15, 2023. NO WORK IS TO BE PERFORMED OUTSIDE OF THIS PERIOD.

If there are any questions regarding this note, please contact Danny Peake, Director, Division of Environmental Analysis, 200 Mero Street, Frankfort, KY 40601, Phone: (502) 564-7250.



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIES

TC 62-226
Rev. 01/2016
Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION
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ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
	Trimble	1100 FE02 112 US042100	

PROJECT DESCRIPTION

US 421 (MP 19.078) Over Ohio River, Milton Madison Bridge. Install epoxy overlay and drill drainage holes in the truss.

No Additional Right of Way Required

Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.

Condition # 1 (Additional Right of Way Required and Cleared)

All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.

Condition # 2 (Additional Right of Way Required with Exception)

The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract

Condition # 3 (Additional Right of Way Required with Exception)

The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.

Total Number of Parcels on Project	-0-	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed			
Condemnation			
Signed ROE			

Notes/ Comments (Text is limited. Use additional sheet if necessary.)

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	
Date		Date	

UTILITIES AND RAIL CERTIFICATION NOTE

TRIMBLE COUNTY, FBP 4201(088)
FD52 112 0421 018-020
MILTON MADISON BRIDGE REPAIRS
KYTC ITEM NO.: 5-10107

Utility coordination efforts conducted by the project sponsor have determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

No Rail Involved Minimal Rail Involved (See Below) Rail Involved (See Below)

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

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. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The

Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

UTILITIES AND RAIL CERTIFICATION NOTE

TRIMBLE COUNTY, FBP 4201(088)
FD52 112 0421 018-020
MILTON MADISON BRIDGE REPAIRS
KYTC ITEM NO.: 5-10107

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF ENVIRONMENTAL ANALYSIS
CATEGORICAL EXCLUSION DETERMINATION

TC 58-48
Rev. 12/2020
Page 1 of 1

1. PROJECT SUMMARY

Item #: N/A 05-10107	Project Sponsor: KYTC Bridge Maintenance
Route(s): US 421	County: Trimble County KY - Jefferson County IN
Project Description: Milton Madison Bridge maintenance. This work consists of a new epoxy overlay on the deck and minor structural steel repairs, including, adding drains in the truss members, repairing the finger expansion joints on the deck, and replacing missing bolts.	

2. ENVIRONMENTAL DETERMINATION

Functional Area	Determination	Comments/Commitments/Mitigation
Public and Resource Agency Controversy	No	
Total acreage of fee simple ROW	0	
Number of Total Relocations	0	
Environmental Justice Impacts	No	No Right of Way needed; bridge repairs
Section 106: Architectural Historic	No Effect	SHPO concurrence 04/18/2023
Section 106: Archaeological Resources	No Effect	SHPO concurrence 02/28/2023
Section 4(f)	No 4(f) Properties	
Section 6(f)	No 6(f) Properties	
Noise	Not a Type I	Bridge Repairs
Air Quality Impacts	No	Bridge repairs, no additional capacity being added
Hazardous Materials Impacts	No	Asbestos Inspection 3/8/2023
Section 7: T&E Species	No Effect	No Effect by Definition
Anticipated Feet of Stream Impacts	0	All work on the bridge outside of the river
Anticipated Acreage of Wetland Impacts	0	All work on the bridge outside of the river
Anticipated Permits	No	
Other: Air Quality		INDOT FY2022-2026 STIP Pg.222/551
Other: Migratory Bird Protection		Special Note to protect Falcon Nest Boxes on Bridge
Other:		

Based on the criteria listed above, in review of the most recent Categorical Exclusion Agreement between KYTC and FHWA, the subject project is determined to be considered a Categorical Exclusion, Level CEMP.

3. ENVIRONMENTAL DOCUMENT APPROVAL

Based on the information obtained during the environmental review process and included as attachments to this form, the project is determined to be a Categorical Exclusion under 23 CFR part 771 pursuant to the National Environmental Policy Act and complies with all other applicable environmental laws, regulations, and Executive Orders. The project action does not individually or cumulatively have a significant effect on the natural and human environment.

	04/21/2023		4/21/23
District Environmental Coordinator	Date	Project Manager	Date
_____	_____	_____	_____
Environmental Project Manager	Date	Director of Environmental Analysis	Date
_____	_____	_____	_____
Recommended by FHWA	Date	Federal Highway Administration	Date

KYTC Item No: N/A

County: Jefferson

Route: US 421

KYTC Historic Architectural Investigation Form

Project Description: This project consists of bridge maintenance where there will be deck patching and overlay along with minor steel repairs such as finger joint repairs and replacing bolts.

Project Type listed in Attachment 1 (in Section 106 Programmatic Agreement)?

Yes

No (Continue)

Project Type listed in Attachment 2 (in Section 106 Handbook)?

Yes (List project activity types) #21- Bridge deck overlays and maintenance activities.

No (This project is not considered a small scale project under the Section 106 Programmatic Agreement. This checklist cannot be used. Process with full baseline or joint memorandum)

No (However, SHPO has agreed that this project may be documented using the Historic Architectural Investigation Form)

Project Area of Potential Effect is defined as:

Within 150 feet of project centerline (Small Scale Project - within existing corridor)

Within view shed of project (Discuss): _____

Other (Discuss): APE is existing bridge since all repairs are taking place within. _____

Are there Historical Resources within the project APE (per KHC database)?

Yes

No

N/A (Explain):

KYTC Item No: N/A

County: Jefferson

Route: US 421

Are there Historical Resources (50 years old or older) identified within the project APE based on field investigations?

Yes

No

Date of Field Investigation: 3/13/2023

Investigator Name(s): Jonna Wallace Mabelitini

Discuss Basis for finding

(Historic Mapping, PVA, Building Permit, Date of Construction, Deed/Title, etc.):

Site photos, Google Maps

NRHP listed or potentially eligible sites/districts (> 50 years old) are:

Not Present within the APE

No Historic Properties Affected

As Determined By:

Jonna W. Mabelitini

3/20/2023

KYTC Representative

Date



04/18/2023

SHPO Representative

Date

(Concurrence is assumed if no response is received within 30 days)

Attachments:

Map showing topography, APE and identified Historic Resources

Relevant Photos (Overview and individual resources)

Project Plans

Other (Describe): _____

Copy EPM

Copy DEC

Copy DEA Architectural Historian

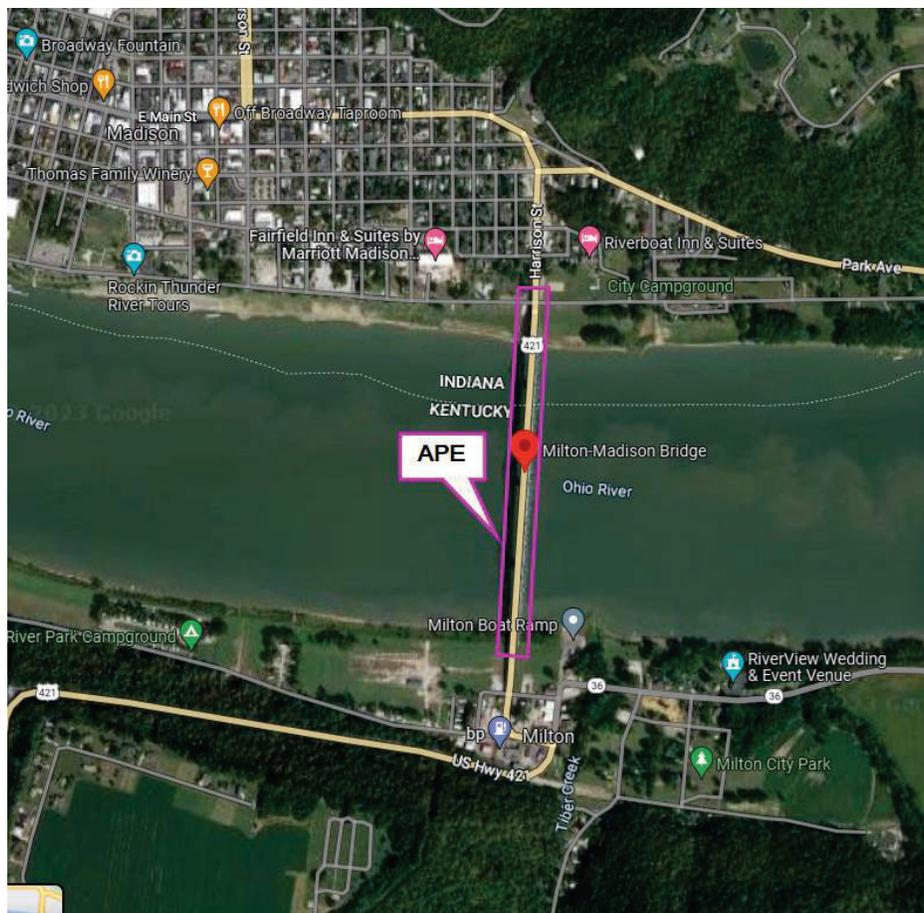
Copy SHPO

KYTC Item No: N/A

County: Jefferson

Route: US 421

The Milton Madison Bridge was constructed in 2014, therefore it is not a historic resource and there are no historic resources within the project area.



APE- existing bridge/project area

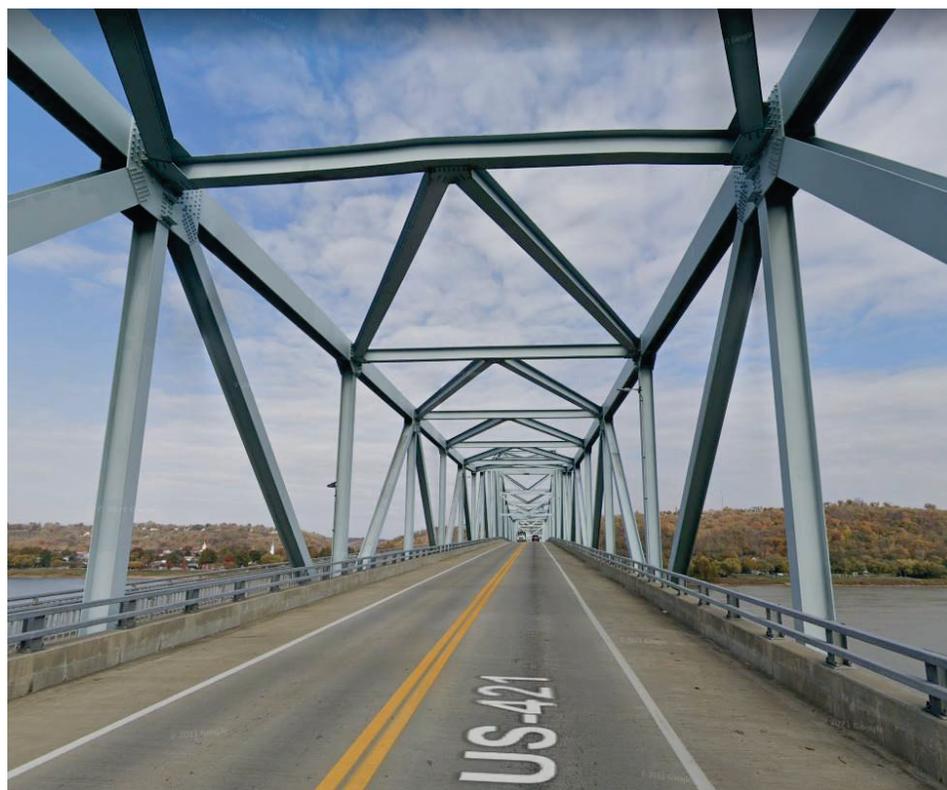
KYTC Item No: N/A

County: Jefferson

Route: US 421



Beginning of bridge looking north from KY



Bridge structure looking north

KYTC Item No: N/A

County: Jefferson

Route: US 421



Bridge looking south from Indiana

KYTC Item No: N/A

County: Trimble

Route: US 421

KYTC Archaeological Investigation Form

Project Description: Proposal to conduct maintenance on US 421 bridge connecting Milton, Kentucky and Madison, Indiana. Project includes bridge deck patching and overlay, finger joint repairs, and bolt replacement. All work will occur on the bridge structure. No ground disturbance is involved.

USGS Quad Name: Madison East

USGS Date: 1994

Coordinates (Project center point) LAT: 38.7282 LONG: -85.3701

Project Type listed in Attachment 1 (in Section 106 Programmatic Agreement)?

Yes (list project activity types) _____

No (Continue)

Project Type listed in Attachment 2 (in Section 106 Handbook)?

Yes (list project activity types) #21 bridge maintenance activities _____

Are all new or existing ROW areas previously disturbed?

Yes (Describe disturbance or basis for conclusion. Attach photos or maps):

All work will occur on the bridge structure.

KYTC Item No: N/A

County: Trimble

Route: US 421

No Historic Properties Affected

As Determined By:

Susan Neumeyer February 28, 2023

KYTC Representative Date

Stephanie Dooley February 28, 2023

SHPO Representative Date

(Concurrence is assumed if no response is received within 30 days)

Attachments

- Project Plans (show date on plans)
- Photos
- Mapping
- Other: _____
- Copy EPM
- Copy DEC
- Copy DEA Archaeologist
- Copy SHPO

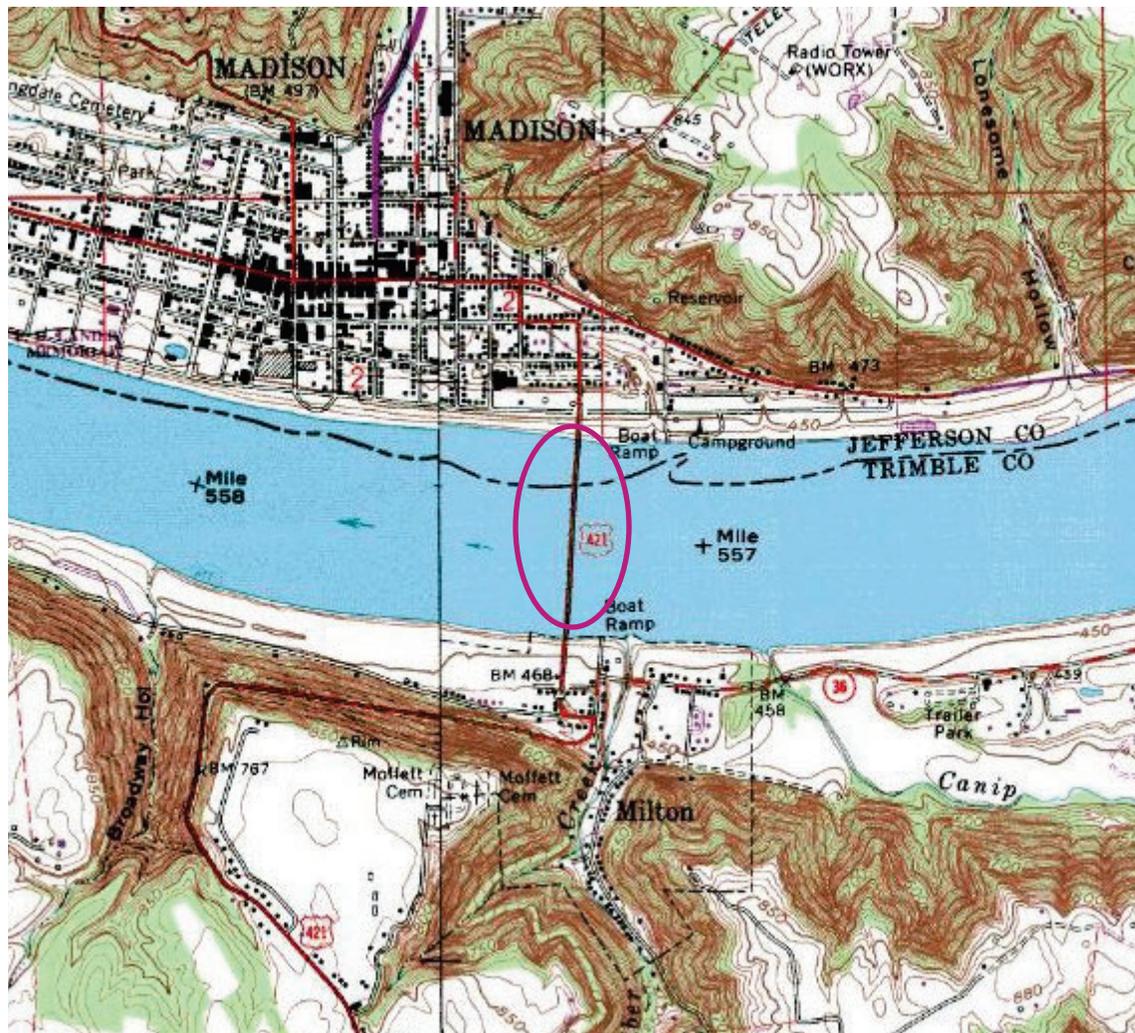
If the project plans change then additional archaeological survey may be required. If human remains are discovered or a previously unidentified archaeological site is encountered, work must cease and the KYTC Division of Environmental Analysis be notified immediately.

All work will occur on the bridge structure. No ground-disturbing activities are proposed.

KYTC Item No: N/A

County: Trimble

Route: US 421



Air Quality
Indiana Department of Transportation (INDOT)
State Preservation and Local Initiated Projects FY 2022 - 2026

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2022	2023	2024	2025	2026
Jefferson County																	
Indiana Department of Transportation	1900612	Init.	US 421	Single Location Bridge Inspection	Seymour	0	STBG	\$75,000.00	Bridge Consulting	PE	\$60,000.00	\$15,000.00		\$75,000.00			
Performance Measure Impacted: Bridge Condition																	
Location: Madison Milton Bridge over the Ohio River FY 2023 - Pay to KY																	
Indiana Department of Transportation	1902706	Init.	US 421	Bridge Thin Deck Overlay	Seymour	0	STBG	\$1,500,000.00	Bridge Construction	CN	\$1,200,000.00	\$300,000.00		\$1,500,000.00			
Performance Measure Impacted: Bridge Condition																	
Location: US 421 Milton Madison over the Ohio River Payment to KYTC																	
Jefferson County	2101186	Init.	IR 1001	Bridge Inspections	Seymour	0	STBG	\$169,569.00	Local Bridge Program	PE	\$134,456.00	\$0.00	\$71,438.00	\$63,017.00			
Performance Measure Impacted: Bridge Condition																	
Location: Countywide Bridge Inspection and Inventory Program for Cycle Years 2022-2023																	
Jefferson County	38178 / 1500208	Init.	VA VARI	Bridge Inspections	Seymour	0	STBG	\$207,149.88	Local Funds	PE	\$0.00	\$1,212.82	\$1,212.82				
Performance Measure Impacted: Bridge Condition																	
Location: 2.99 miles W of SR 7, over Big Camp Creek																	
Comments:Include DES 1500208																	
Indiana Department of Transportation	39398 / 1593046	Init.	SR 260	Bridge Deck Overlay	Seymour	0	STBG	\$370,061.68	Bridge Construction	CN	\$534,194.40	\$133,548.80	\$667,743.00				
Performance Measure Impacted: Bridge Condition																	
Location: 2.99 miles W of SR 7, over Big Camp Creek																	
Comments:Include DES 1593048, 1593046																	
Indiana Department of Transportation	39897 / 1600669	Init.	SR 56	Small Structure Replacement	Seymour	0	STBG	\$1,698,076.00	Bridge ROW	RW	\$204,800.00	\$57,200.00	\$236,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: 0.30 mile E of US 421 at Ferry Street																	
Comments:Include DES 1600669																	
Indiana Department of Transportation	40420 / 1700193	Init.	SR 56	Slide Correction	Seymour	.105	STBG	\$3,869,712.92	Road ROW	RW	\$240,000.00	\$60,000.00	\$300,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: 2.99 miles W of SR 7, over Big Camp Creek																	
Comments:Include DES 1500208																	

*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 406 01

Jim Gray
SECRETARY

Asbestos Inspection Survey

To: Donna Hardin

District: 5

Date: March 8, 2023

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Milton Madison Bridge Maintenance

Structure ID: 112B00040N

Structure Location: US-421 over the Ohio River

Sample Description: Any suspect materials collected were negative for asbestos.

Inspection Date: March 7, 2023

Results and Recommendations

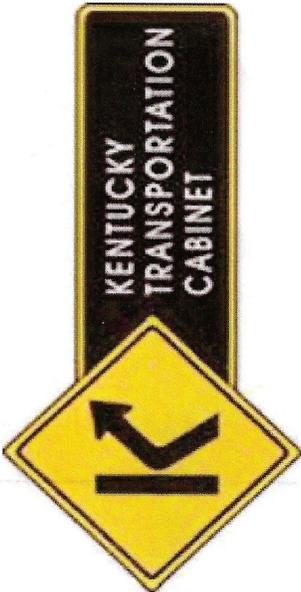
The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([Notification Form DEP 7036](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.

Chain of Custody Record

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West
 Frankfort, Kentucky 40622
 (502) 564-7250 fax (502) 564-5655



O'Dail Lawson o'dail.lawson@ky.gov
 KYTC
 Address: 200 Mero Street
 Frankfort KY
 Phone: 502-782-5020 Fax: 502-564-5655
 PO#: N/A = Not Applicable

Client Information KY TRANSPORTATION CABINET

Results Code:

~~Mitton~~ Mitton Madison Bridge

us 421 over Ohio River

Samplers (signature):

Bob Gunn

Project ID Trimble 112 B00040N

Sample ID	Sample Description	Collected		Analysis Requested	Matrix	Color	Cont. Type	Preservative
		Date	Time					
T1	Joint Compound	3/7/23	10:52	Asbestos bulk	Neoprene	grey		N/A
T2	Barrier Cushion	↓	↓		Fibrous	black		
T3	Travel on Sealant	↓	↓		beaker	brown		

Relinquished By: _____ Date/Time: _____

Received By: *Stephan Meroch* Date/Time: *03/08/23*

Relinquished By: _____ Date/Time: _____

Received at Lab By: _____ Date/Time: _____

ENVIRONMENTAL TRAINING CONCEPTS, INC
P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-031522-00137

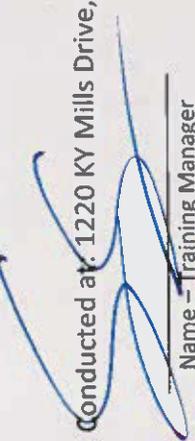
O'Dail Lawson

has on 03-15-2022, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

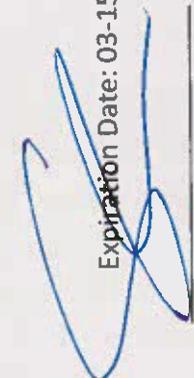
ASBESTOS INSPECTOR REFRESHER

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management, Tennessee Department of Environment & Conservation and The Arkansas Department of Environmental Quality. The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1220 KY Mills Drive, Louisville, KY


Name - Training Manager

Expiration Date: 03-15-2023


Name - Instructor

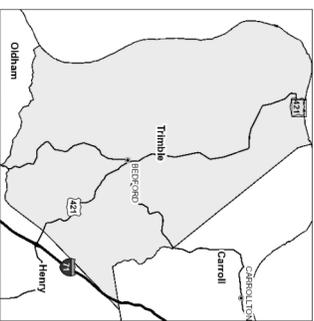
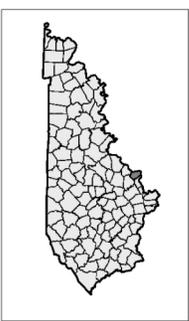
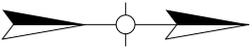
**KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
BRIDGE REHABILITATION PLANS
ITEM NO. 5-10107**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE & LOCATION MAP
2	LAYOUT & EPOXY OVERLAY
3	DRILLED DRAIN HOLE LOCATIONS
4	DRILLED DRAIN HOLE DETAILS
5	U32 DOWNSTREAM BOLT REPLACEMENT

SPECIAL NOTES

GENERAL NOTES
 SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS
 SPECIAL NOTE FOR 3/8 EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS
 SPECIAL NOTE FOR STRUCTURE REMOVAL AND RENOVATIONS
 SPECIAL NOTE FOR MIGRATORY BIRD PROTECTION



LOCATION MAP

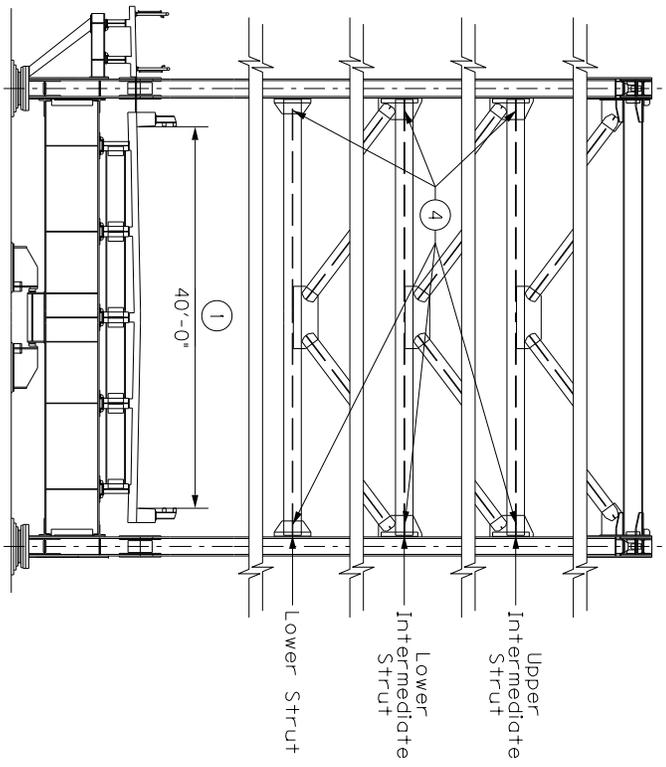
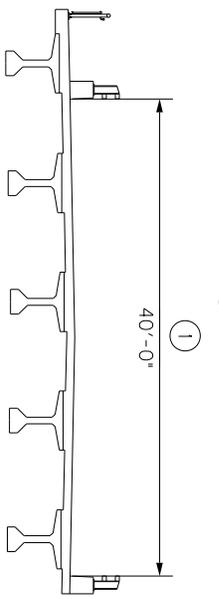
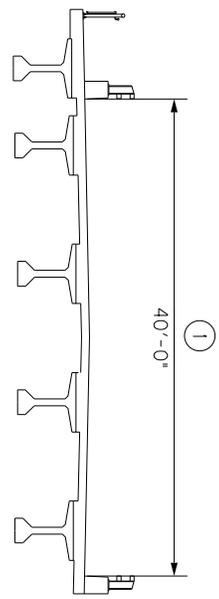
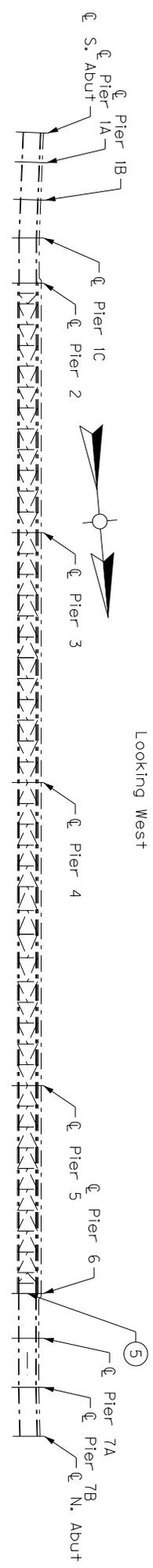
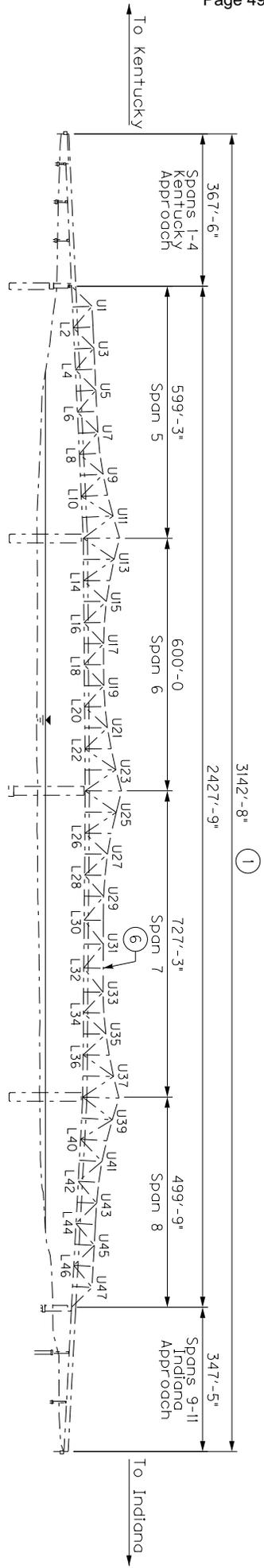
TITLE & LOCATION MAP

ROUTE
US 421
CROSSING
OHIO RIVER

COUNTY
TRIMBLE
STRUCTURE NAME
112B00040N

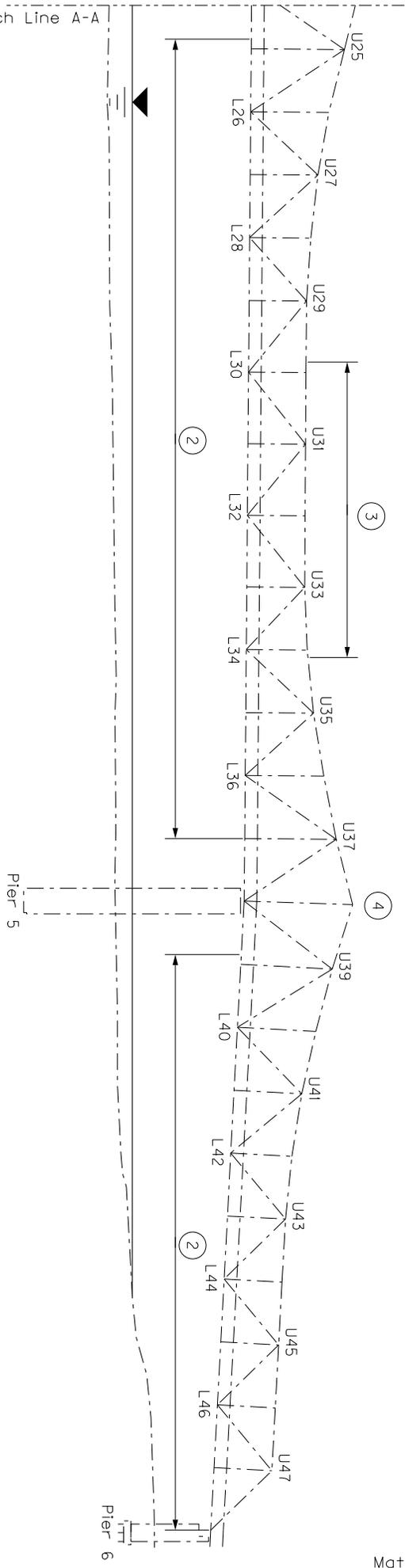
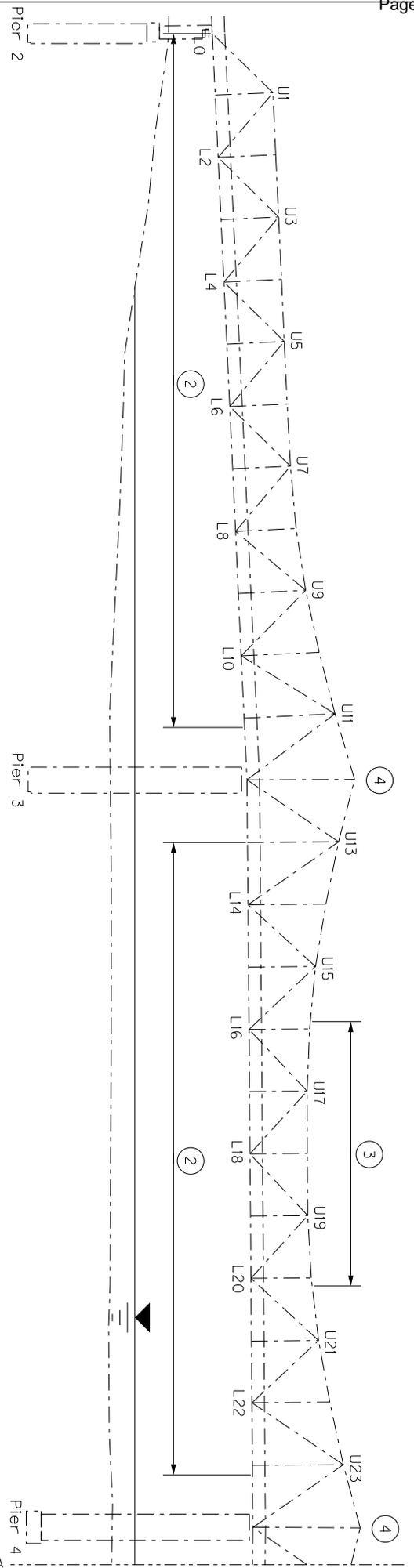
PREPARED BY
AECOM

JUNE 1, 2023
SHEET
01 OF 05



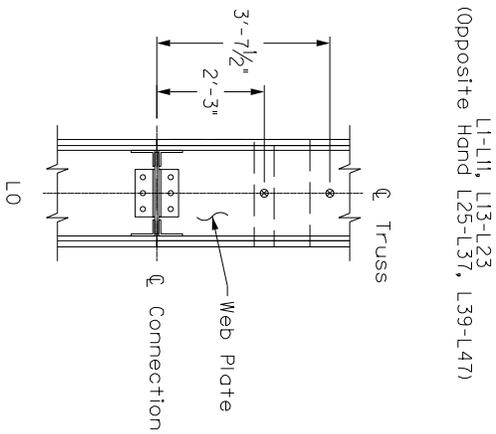
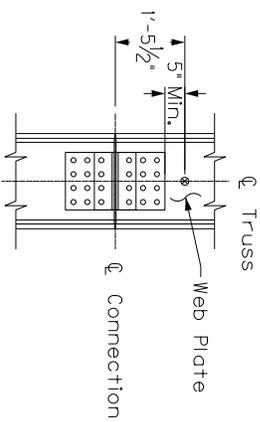
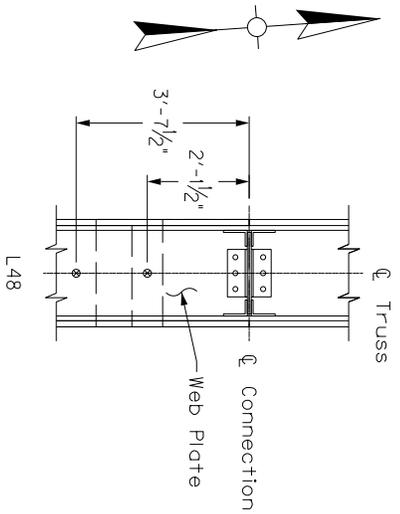
- ① Place epoxy overlay in accordance with the Special Note For 3/8" Epoxy-Urethane Waterproofing Overlay for Bridge Decks.
- ④ Drilled drain hole, see Sheets 3 and 4.
- ⑤ Damaged finger joint repair, see Sheet 4 and General Special Notes.
- ⑥ Bolt Replacement, see General Special Notes.

ROUTE US 421 <small>CROSSING</small> OHIO RIVER	COUNTY TRIMBLE <small>STRUCTURE NAME</small> 112B000040N	LAYOUT & EPOXY OVERLAY
PREPARED BY AECOM		SHEET 02 OF 05
JUNE 1, 2023		



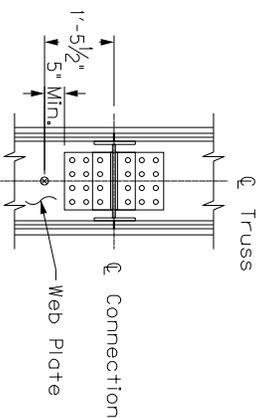
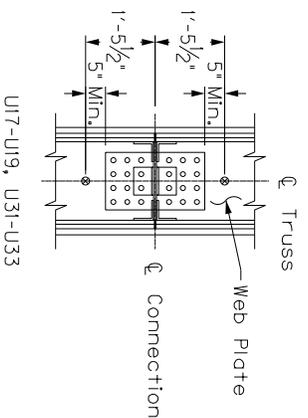
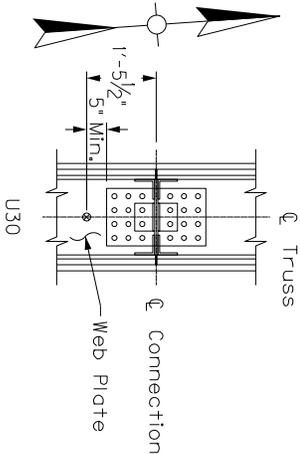
- ② 2" diameter hole in uphill side of connection in lower chord web (see Lower Chord Drilled Hole Detail on Sheet 4, 96 EA).
- ③ 2" diameter hole in uphill side or both sides of connection in upper chord web (see Upper Chord Drilled Hole Detail on Sheet 4, 32 EA).
- ④ 2" diameter hole in portal frame strut web near connection to upstream and downstream truss (see Portal Frame Drilled Hole Detail on Sheet 4, 18 EA).

COUNTY TRIMBLE	COUNTY TRIMBLE	PREPARED BY AECOM
ROUTE US 421	STRUCTURE NAME 112B00040N	SHEET 03 OF 05
DRILLED DRAIN HOLE LOCATIONS		
JUNE 1, 2023		

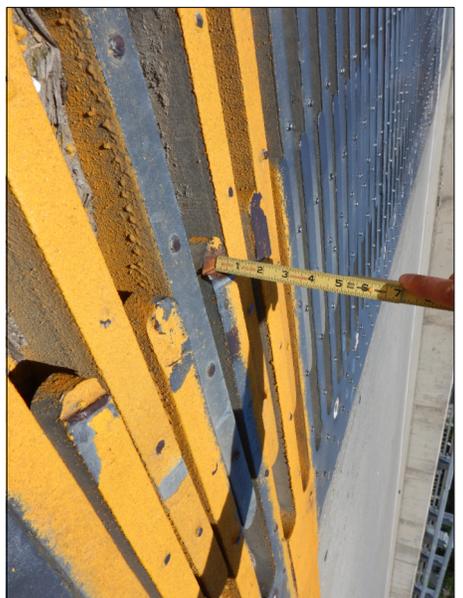


② Lower Chord Drilled Hole Detail

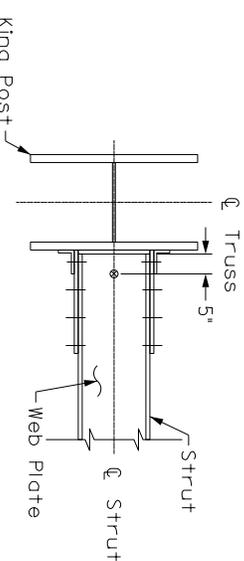
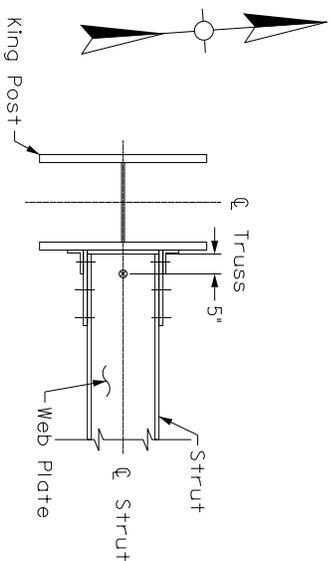
Legend
 ◉ Location of 2" diameter drilled hole.



③ Upper Chord Drilled Hole Detail



⑤ Damaged Finger Joint Repair
 Pier 6 Finger Joint: Grind the top of damaged fingers to provide smooth transition throughout joint prior to placing overlay.



④ Partial Frame Drilled Hole Detail

ROUTE
US 421
 CROSSING
OHIO RIVER

COUNTY
TRIMBLE
 STRUCTURE NAME
112B00040N

DRILLED DRAIN HOLE DETAILS

PREPARED BY
AECOM

SHEET
 04 OF 05
 JUNE 1, 2023

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

STANDARD SPECIFICATIONS

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 2020*.

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, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

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

232984

Page 1 of 1

Report Date 7/6/23

Section: 0001 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0020	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0030	06556		PAVE STRIPING-DUR TY 1-6 IN W	6,286.00	LF		\$	
0040	06557		PAVE STRIPING-DUR TY 1-6 IN Y	6,286.00	LF		\$	
0050	08549		BLAST CLEANING	13,967.00	SQYD		\$	
0060	21529ND		FINGER DAM REPAIR	1.00	LS		\$	
0070	21650NN		BOLT/RIVET REPLACEMENT	2.00	EACH		\$	
0080	23331EC		EPOXY-URETHANE WATERPROOFING	125,700.00	SQFT		\$	
0090	24409EC		DRILL HOLES IN STEEL MEMBERS	146.00	EACH		\$	

Section: 0002 - DEMOB

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0100	02569		DEMOBILIZATION	1.00	LS		\$	