

CALL NO. 362
CONTRACT ID. 221030
WARREN COUNTY
FED/STATE PROJECT NUMBER FE01 114 2158 003-004
DESCRIPTION CUMBERLAND TRACE ROAD-CEMETARY ROAD(KY-2158)
WORK TYPE ASPHALT SURFACING NEW CONSTRUCTION
PRIMARY COMPLETION DATE 11/30/2022

LETTING DATE: <u>June</u> 23,2022

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME June 23,2022. 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.

TABLE OF CONTENTS

PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- STATE CONTRACT NOTES
- ASPHALT MIXTURE
- INCIDENTAL SURFACING
- COMPACTION OPTION B
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- NON-TRACKING TACK COAT
- RIGHT OF WAY CERTIFICATION
- UTILITY IMPACT & RAIL CERTIFICATION NOTES

PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATION

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE
- PROJECT WAGE RATES / STATE FUNDED

PART IV INSURANCE

PART V BID ITEMS

PART I SCOPE OF WORK

Contract ID: 221030 Page 4 of 51

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 221030

FE01 114 2158 003-004

COUNTY - WARREN

PCN - DE11421582230 FE01 114 2158 003-004

CUMBERLAND TRACE ROAD-CEMETARY ROAD(KY-2158) (MP 3.489) SCHOOL SAFETY IMPROVEMENT AT THE INTERSECTION OF CUMBERLAND TRACE ROAD AND CEMETARY ROAD (MP 3.546), A DISTANCE OF 0.05 MILES.ASPHALT SURFACING NEW CONSTRUCTION SYP NO. 03-09028.00.

GEOGRAPHIC COORDINATES LATITUDE 36:58:34.00 LONGITUDE 86:23:15.00 ADT

COMPLETION DATE(S):

COMPLETED BY 11/30/2022

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

Contract ID: 221030 Page 9 of 51

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

INCIDENTAL SURFACING

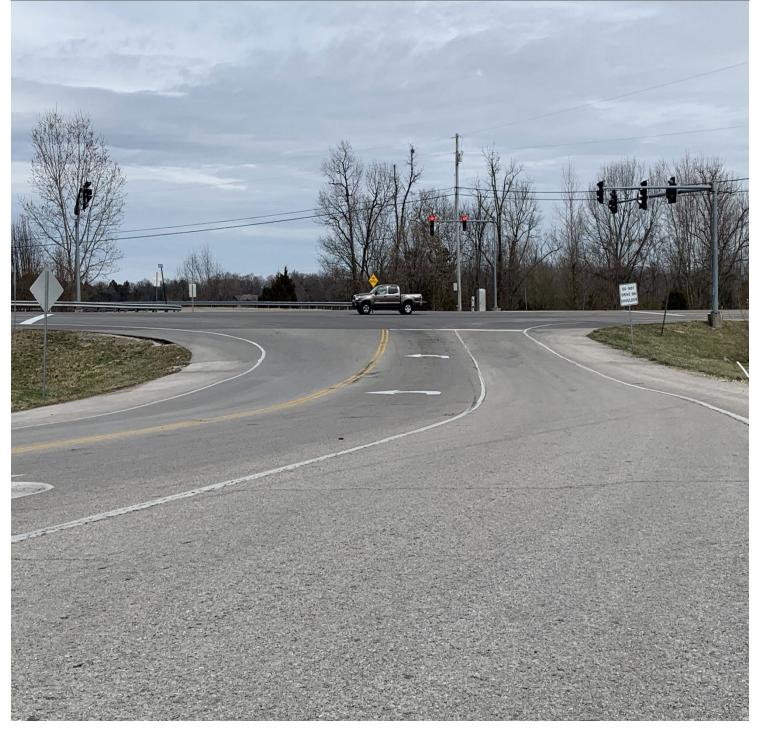
The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

OPTION B

Be advised that the Department will control and accept compaction of asphalt mixtures furnished on this project under OPTION B in accordance with Sections 402 and 403.

Contract ID: 221030 Page 10 of 51

School Safety Improvement Project at the Intersection of Cumberland Trace Road & Cemetery Road District 3 - Warren County Item No. 3-9028.00 May 2022



Contract ID: 221030 Page 11 of 51

TABLE OF CONTENTS

SPECIAL NOTES:

Special Notes Applicable to Project (General Notes & Description of Work)

Special Note for Completion Dates & Liquidated Damages

Special Note for Staking

Special Note for Asphalt Seal Coat

Traffic Control plan

Standard Drawing List

DETAIL SHEETS:

Vicinity Map

Typical Section

General Summary Sheet

Paving & Striping Layout Sheet

Signal Quantities Sheet

Conduit Installation Detail Sheet

Mast Arm Pole Details Sheet

Signal Layout Sheet

Project Materials Release Sheet

Special Notes Applicable to Project – General Notes & Description of Work

CAUTION

The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

STATIONING

The contractor is advised that the planned locations of work were established from the following stations:

Cumberland Trace Road (KY 2158): MP 3.489 to MP 3.546

ON-SITE INSPECTION

Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.

RIGHT OF WAY LIMITS

The Department has not established the exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. The contractor shallbe responsible for all encroachments onto private lands.

CONTROL

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

Contract ID: 221030 Page 13 of 51

DESCRIPTION OF WORK

Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Furnish all materials, labor, equipment, and incidentals for the following work:

3-9028.00 - Cumberland Trace Road (KY 2158): MP 3.489 to MP 3.546

Paving:

All existing shoulder area to be removed to a depth of 8" below existing roadway grade, paid as Remove Pavement. Area to be backfilled with two 4" lifts of CL3 Asphalt Base 1.0D PG 64-22. Asphalt Base will be paid by the Ton. All areas within project limit will receive ultra thin overlay with No.4 asphalt mix, paid by the Ton. Edge keys will be required at both ends of the project prior to final surface. The existing pavement reflectors will be removed prior to placement of ultra thin overlay. Edge keys and reflector removal and replacement will be incidental to ultra thin overlay. Any shoulder work necessary will be paid as Regrade and Compact Shoulders.

Stiping:

All striping will be placed with 6" thermo with thermo lane designation arrows. See Site Layout for details.

Signal:

Install mast arm dampers on all 4 mast arms. This will be incidental to the project. Move the existing 4-section head to the 3-section head location, move existing 3-section head and attach to pole, install new 3-section head at previous location of existing 4-section head.

Site Map:

A site map has been included to show proposed locations paving and striping. Locations shown on the site map are approximate. Actual locations and lengths/widths are to be verified on site by the engineer and may vary from the attached site maps.

Contractor is responsible for calling in BUD Locate before beginning any work. The state has checked utilities and we do not feel that there will be any utility involvement with said work, but the Contractor will still be responsible for any damage to existing utilities.

Contractor is responsible for all traffic control during construction. State requires a clear lane width of 12' at all times. Lane closures are restricted between the hours of 6:30-9:00am and 2:00-4:30pm each day of the week.

SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project will be <u>November 30th</u>, <u>2022</u>. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

The Contractor shall notify the Engineer two (2) weeks prior to beginning construction activities. The Department will assess Liquidated Damages for failure to complete construction on time.

SPECIAL NOTE FOR STAKING

Perform Contractor Staking according to Section 201; except, in addition to the requirements of Section 201, perform the following:

- 1. Contrary to Section 201, perform items 1-3 usually performed by the Engineer.
- 2. Verify the dimensions, type, and quantities of the culvert pipes and/or entrance pipes aslisted and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
- 3. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in thefield. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Oncethe proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route hasbeen staked and final sign location approval has been given by the District Traffic Engineer.
- 4. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
- 5. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
- 6. Perform any and all other staking operations required to control and construct the work.

Contract ID: 221030 Page 16 of 51

SPECIAL NOTE FOR ASPHALT SEAL COAT FE01 114 2158 003-004

Asphalt Seal Coat is to be applied at all proposed graded and compacted shoulders throughout the project limits. Once shoulder material is at finished grade, the following application is to be paid by the Ton of Seal Coat Aggregate and by the Ton of emulsified asphalt, in effort to tack and stabilize shoulders:

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply a course at 4 lbs/sy of asphalt and 25 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

The Department will not measure any surface preparation required prior to applying the asphalt seal coat, as it will be paid as Regrade and Compact Shoulders as per the contract bid item.

TRAFFIC CONTROL PLAN WARREN COUNTY KY 2158 AT KY 234 ITEM NO. 3-9028.00

TRAFFIC CONTROL GENERAL

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" as set forth in the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions, unless otherwise provided in these notes. The lump sum bid price to "Maintain and Control Traffic" shall also include, but is not limited to, the following items and operations:

- A. All labor and materials necessary for construction and maintenance of traffic control devices and markings.
- B. All flag persons and traffic control devices such as, but not limited to, flashers, signs, barricades and vertical panels, plastic drums (steel drums will not be permitted), and cones, necessary for the control and protection of vehicular and pedestrian traffic as specified in these notes, the proposal, the Manual on Uniform Traffic Control Devices (MUTCD) current edition, or the Engineer.

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the contractor when no longer needed. Traffic control devices will conform to current MUTCD.

Maintain access to all entrances, side streets and roads, schools, churches and commercial properties at all times during construction. Access to fire hydrants must also be maintained at all times. The Contractor will be responsible to notify adjacent property owners when work affecting the entrances will be performed.

PROJECT PHASING & CONSTRUCTION PROCEDURES

For all construction activities, utilize a lane closure, and maintain at least one lane of travel in each direction. Provide a minimum clear lane width of 10 feet, however, provide for passage of vehiclesof up to 16 feet in width. If traffic should be stopped due to construction operations, and a school busor emergency vehicle on an official run arrives on the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible. Lane closures SHALL NOT be allowed.

Holiday & Special Events

July 4th Weekend Friday, July 1, 2022 – Monday, July 4, 2022

Labor Day Weekend Friday, September 2, 2022 – Monday, September 5, 2022

Construction activities that involve closures or affect traffic flow shall not be allowed between the hours of 6:30 AM and 9:00 AM or between 2:00 PM and 4:30 PM during the school year.

The Contractor shall completely cover any signs, existing, permanent, or temporary, which do not properly apply to the current traffic phasing and shall maintain the covering until signs are applicable or are removed.

In general, all traffic control devices shall be placed starting and proceeding in the direction of the

flow of traffic and removed starting and proceeding in the direction opposite the flow of traffic.

SIGNS

All signing shall be approved by the Engineer before work can be started by the Contractor.

All temporary signs will not be measured for payment but shall be incidental to Maintain and ControlTraffic. Individual signs will be measured only once for payment, regardless of how many times they are set, reset, relocated, and removed during the duration of the project. Replacements for damaged signs directed by the Engineer to be replaced due to poor condition or reflectivity will not be measured for payment.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide portable changeable message sign (PCMS) at least two weeks prior to construction at the locations approved by the Engineer. The messages required to be provided will be designated by the Engineer. The PCMS will be in operation at all times. In the event of damage or mechanical/electricalfailure, the contractor will repair or replace the PCMS immediately. The Department will not take possession of the signs upon completion of the work. The Department will measure for payment the maximum number of PCMS in concurrent use at the same time on a single day on all sections of the contract. PCMS will be paid for once, no matter how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

BARRICADES

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation, but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

PAVEMENT MARKINGS

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of final surface course. Removal of pavement markings will be by waterblasting process to the satisfaction of the Engineer. Place temporary and permanent striping in accordance with Section 112 with following exception for Temporary Striping:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course or existing surface to remain inplace, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

PAVEMENT EDGE DROP-OFFS

Do not allow a pavement edge between opposing directions of traffic or lanes that is expected to cross ina lane change situation with an elevation difference greater than 1 $\frac{1}{2}$ ". Place Warning signs (MUTC W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and unsurfaced

areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2'' – Not protection required. Warning signs should be placed in advance and throughout the drop-off area.

2" to 4" — Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieuof plastic drums, panels, and barricades. Spacing of devices on tapered sections shall be in accordance with MUTCD, current edition. When work is not active in the drop-offarea, wedge the drop-off with DGA or asphalt mixture for leveling and wedging with 1:1or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours.

Greater than 4" – Positive separation or wedge with a 3:1 or flatter slope. If there is fivefeet or more distance between the edge of pavement and drop-off, then drums, panels, orbarricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barriers are used, special reflective devices or steady burn lights should be used for overnight installations. Barricades may be used if the drop-off is greater than 12 inches.

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:

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

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.

^{*}Insert numerals as directed by the Engineer.

Repetitive problems with the same unit will be cause for rejection and replacement.

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

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

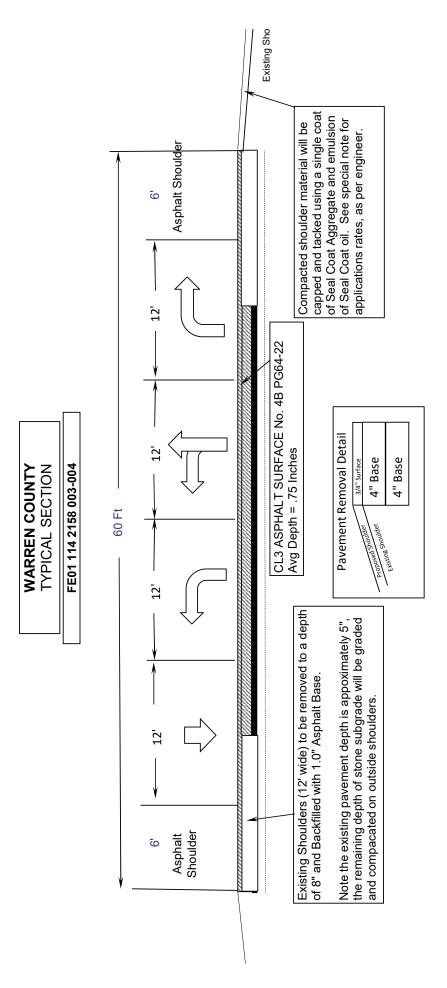
- **4.0 MEASUREMENT.** The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.
- **5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

CodePay ItemPay Unit02671Portable Changeable Message SignEach

2020 STANDARD DRAWINGS THAT APPLY

TRAFFIC ~ PERMANENT ~

<u>MARKERS</u>	
PAVEMENT MARKER ARRANGEMENTS TWO-WAY, LEFT TURN LANE	TPM-140-04
TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS	
~ TEMPORARY ~	
TRAFFIC CONTROL	
SHOULDER CLOSURE	TTC-135-03
SPEED ZONE SIGNING FOR WORK ZONES	TTD-130
STRIPING OPERATIONS	
MOBILE OPERATION FOR DURABLE STRIPING CASE III	TTS-130-02

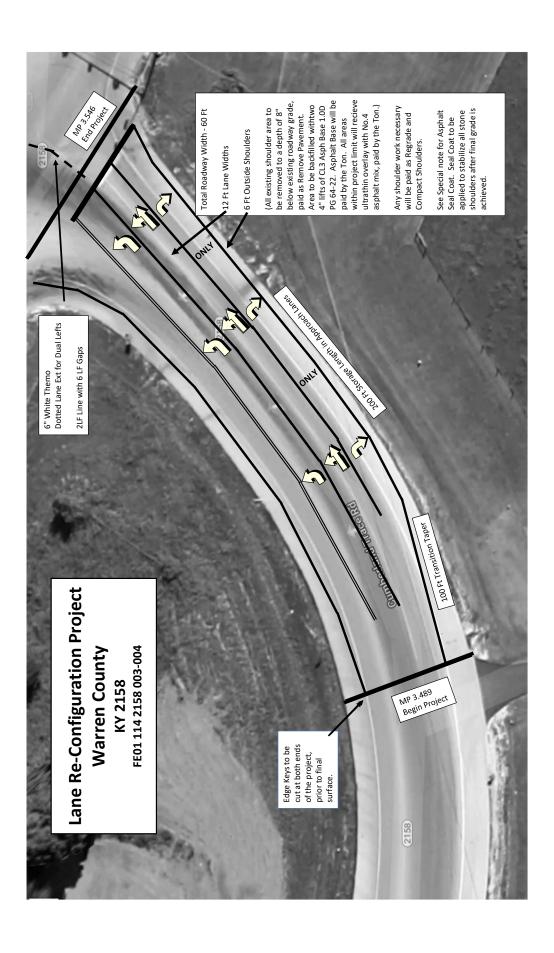


WARREN COUNTY
TRACE ROAD AND
INTERSECTION
GENERAL SUMMARY

CUMBERLAND CEMETERY ROAD ITEM NO. 3-9028.00 SHEET 1

OF 1

ITEM NUMBER	ITEM	UNIT	QUANTITY
02650	MAINTAIN & CONTROL TRAFFIC	LS	1
23307EC	CL3 ASPH SURF NO.4B PG64-22	TON	90
02091	REMOVE PAVEMENT	SQYD	766
06575	PAVE MARKING-THERMO COMB ARROW	EACH	3
06574	PAVE MARKING-THERMO CURV ARROW	EACH	6
06543	PAVE STRIPING-THERMO-6 IN Y	LF	600
06542	PAVE STRIPING-THERMO-6 IN W	LF	1200
06568	PAVE MARKING-THERMO STOP BAR-24IN	LF	40
06576	PAVE MARKING-THERMO ONLY	EACH	2
23972EC	GRADE AND RECOMPACT SHOULDER	LF	600
00214	CL3 ASPH BASE 1.00D PG64-22	TON	360
02775	ARROW PANEL	EACH	2
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	2
00100	ASPHALT SEAL AGGREGATE	TON	40
00103	ASPHALT SEAL COAT	TON	8
4795	CONDUIT 2 INCH	LF	140
4820	TRENCHING AND BACKFILLING	LF	20
4821	OPEN CUT ROADWAY	LF	120
4845	CABLE-NO. 14/7C	LF	75
24955ED	REMOVE SIGNAL EQUIPMENT	EACH	1
4953	TEMPORARY RELOCATION OF SIGNAL HEAD	EACH	6
20188NS835	INSTALL SIGNAL-3 SECTION LED	EACH	1
21543EN	BORE AND JACK CONDUIT	LF	120
21659NN	RELOCATE SIGNAL HEAD	EACH	2
26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A	EACH	2



WARREN COUNTY FE01 114 2158 003-004 Contract ID: 221030 Page 28 of 51 Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS NOTES 04.22 REMOVE SIGNAL EQUIPMENT, (CONSTRUCTION ONLY)
REPLACE THE PARACREMH WITH THE PELOLOWING.
THE DEPARTMENT WILL MEASURE THE OLIOWING.
NOT MEASURE BACKFLILM SAND THE OLISPOSAL OF TRANSPORTATION OF COURPMENT AND
MACSHEE BACKFLILM SAND THE OLISPOSAL OF TRANSPORTATION OF THE
SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION
BOXES, CABINES, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC ITEM NO. 1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREAND OF WATERLASE FELENSE FORM. IF THE PRECEDING, ANTERIALS RELEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTRACTOR SELENSE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTRACTOR SHALL ENGINE TO SHAMSEGARY. COVARCERY, COVARCE SHALL CONTRACTOR SHALL ENGINE SHALL ENGINE TSKY, COVA.

2. CONTRACTOR SHALL ENGINE, CONTRACTOR SHALL CONTRACTOR SHALL ENGINE SHALL SHALL BRANCH OF THE DIVISION OF THE EAST TWO CONTRACTOR SHALL ENGINE SHALL SHA COUNTY OF Warren THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP MATERIALS FOR INSTALL ITEMS AT KYTC'S DIVISION OF EQUIPMENT WARFHOLSE (1239 WILKINSON BOULEVARD, FRAWKFORT, KY 40622). THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FALLORE TO FOLLOWED FOR MATERIAL RELEASE. FALLORE TO FOLLOWED FERRILS FOR CENTERS AND SOURCES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS, UPON ARRIVAL. COUNTY OF THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO BENDENTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT DEDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION SOS FOR SPIRAL REINFORCEMENT SPLICING. NOTES THAT ARE CONTRARY TO SECTION 723 3-9028.00 PROJECT NUMBERS: CONSTRUCTION AND MEASUREMENT INSTALL RADAR PRESENCE DETECTOR TYPE A SHALL CONSIST OF INSTALLATION OF A POLY MOUNTED PRESENCE SURGING MOUNTED BRACKE, SENOR CABLES, POUR MOUNTED RACKE, SENOR CABLES, INTERFACE BOXES, LEADY CABLE, CONNECTORS FURNITHOR BRACKET, SENOR CABLES, LINERFACE BOXES, LEADY CABLE, CONNECTORS FURNITHOR BRACKET, AND STALLED AND SEFECTION SYSTEM, RADAR RESENCE CASTELL LABOR REQUIRED TO PROVIDE A FUNCTIONAL DETECTION SYSTEM, RADAR PRESENCE TO STRUCTIONS, ATTER THE DETECTOR TS INSTALLED AND BEFORE THE DETECTOR SYSTEM, RADAR LAND CONNECTOR STRUCTIONS, ATTER THE DETECTOR SINGLAND ASSETTION THE CONTRACTOR SHALL CONDINATE WITH DISTRICT TRAFFIC DISTRACTOR SHALL DOUBLE CHECK TO VERIFY THAT ALL WIRING IS CORRECTLY DISTRACTED AND DETECTOR SETUP. MINIMALED AND SETUP. MINIMAL SEPTEMBRATION. THE CONTRACTOR SHALL PROVIDE A BUCKET TRUCK AND OPPERATORS AT THAT LALL WIRING IS CORRECTLY DISTRACTOR SHALL PROVIDE A BUCKET TRUCK AND OPPERATORS AT THAT SHALL PROVIDE A BUCKET TRUCK AND OPPERATORS AT THAT SHALL PROVIDE A BUCKET TRUCK AND OPPERATORS AT THAT SHALL PROVIDE A BUCKET TRUCK AND OPPERATORS AT THAT SHALL PROVIDE A BUCKET TRUCK AND PROVIDE INDIVIDUALS CAPABLE OF OPPERATING THE SENSORS. THE CONTRACTOR SHALL PROVIDES A BUCKET TRUCK AND PROVIDE INDIVIDUALS CAPABLE OF OPPERATING THE SENSORS. THE CONTRACTOR SHALL PROVIDES AND CALIBRATION. THE SENSORS. THE CONTRACTOR SHALL PROVIDES AND CALIBRATION SHALL PROVIDES A BUCKET TRUCK AND OPPERATORS AND CALIBRATION. THE SENSORS. THE CONTRACTOR SHALL PROVIDES AND CALIBRATION SHALL PROVIDES AND CANDES FROM CHARGE AND LARRING THE SENSORS. THE CONTRACTOR SHALL PROVIDES AND CANDES FROM OTHERS. ADD SENTENCE TO SECTION 835.17; ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723 CABLE-NO. 14/7C
REMONEY SIGNAL COUIPMENT
TEMPORARY RELOCATION OF SIGNAL HEAD
INSTALL SIGNAL-3 SECTION LED
BORE AND JACK CONDUIT
RELOCATE SIGNAL HEAD
INSTALL RADAR PRESENCE DETECTOR TYPE A CONDUIT 2 INCH TRENCHING AND BACKFILLING TRAFFIC SIGNAL ESTIMATE OF QUANTITIES ITEM DESCRIPTION OPEN CUT ROADWAY 20188NS835 21543EN 21659NN 4795 4820 4821 4845 24955ed 4953

6-29-2021

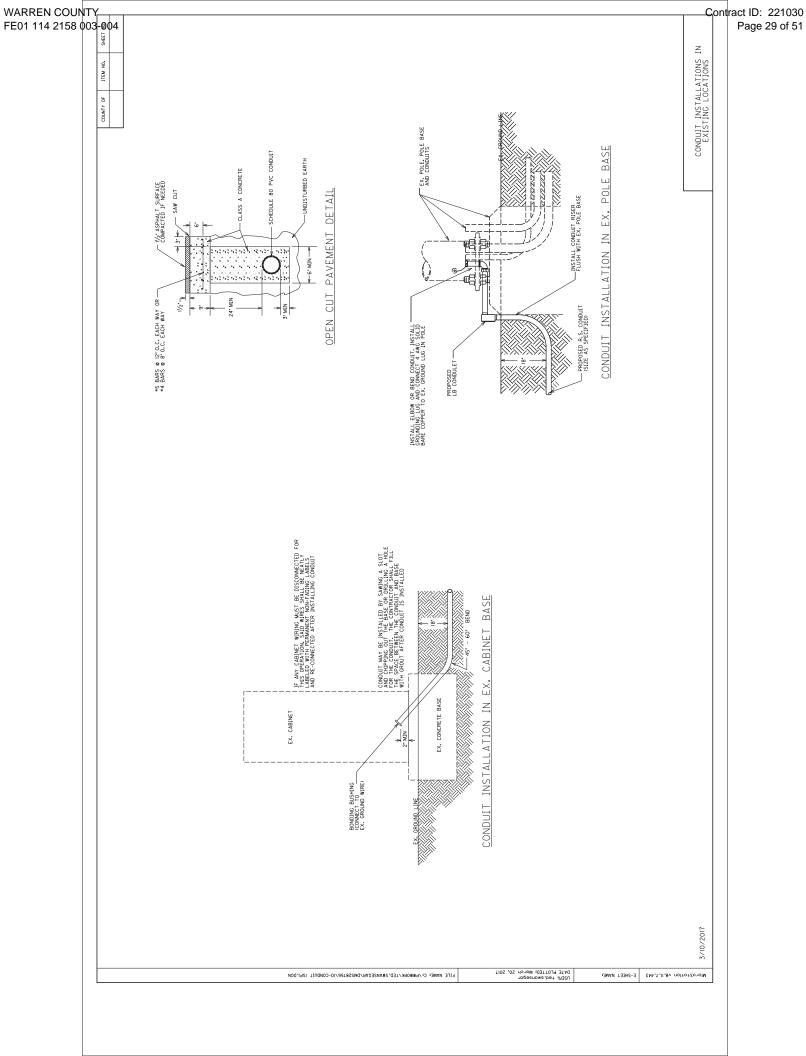
UNITS

TOTAL

LIN FT LIN FT LIN FT EACH EACH

140 20 120 175 1 1 1 120 2

LIN FT EACH EACH



WARREN COUNTY FE01 114 2158 003-004 Contract ID: 221030 Page 30 of 51 BRACKET ASSEMBLY FOR MOUNTING SIGNAL HEADS ON MAST ARMS SHEET ARM POLE DETAILS ITEM NO. 11/2, SAARE SCHEDULE 80 PVC CONOUIT; STUBBED OUT WITH END EELL BUSHING AND ARROW SHALL BE ETCHED ON THE TOP OF THE BASE TO SHOW THE CONTION CONDUIT. DEPTH VARIES SEE SECTION 723.03.02 CABINET GROUND ROD FINISHED GRADE COUNTY OF MAST ARM POLE BASE WITH SERVICE, POLE, AND POLE MOUNTED CABINET GROUNDING DETAILS MAST CABLE A 3° CLR - ANCHOR BOLTS, QUANTITY AS RECOMMENDED BY POLE MANUFACTURER (MIN, OF 6) HEX NUT, WASHER, AND
LOCK MASHER ABOVE BASE
PLATE (TYPICAL)
TOP OF FOUNDATION MUST
BE LEVEL OUTSIDE OF FOUNDATION POLE MAST 3° CLR %* SCHEDULE 80 PVC CONDUIT FOR SERVICE GROUND (REQUIRED AT SERVICE LOCATION ONLY) FOR UNDERGROUND SERVICE FEEDS, USE 1'R S CONDUIT TO METER BASE ON EXTERIOR OF POLE EXTERIOR CONDUIT MAY BE USED FOR EITHER OR BOTH C THE FOLLOWING CONDITIONS: SERVICE GROUND RODS-POLE GROUND ROD -FOR EXTERIOR SERVICE GROUNDING (OPTIONAL), USE ¾ SCHEDULE 80 PVC HEX NUT AND WASHER – UNDER BASE PLATE FOR PLUMBING OR RAKING POLE (TYP) A MINIMUM OF TWO-BOLT THREADS SHALL EXTEND ABOVE THE NUT CONCRETE BENDING DETAIL FOR TIE BARS 1/4" SPARE SHEDULE 80 PVC CONDUIT: STUBBED OUT WITH END BELL BUSHING AND CAPPED AT BOTH ENDS. FINISHED GRADE - #4 TJE OR SPJRAL BARS TO BE I2" ON CENTER 1.-8. LAP VERTICAL REINFORCING BARS EQUALLY SPACED (SEE POLE BASE CHART FOR SIZE AND NUMBER) " CHAMFER CONCRETE 3. CLR MAXIMUM DIAMETER OF ANCHOR BOLTS SHALL BE 21/4* MAST ARM POLE BASE WITH POLE GROUND DETAIL BACKPLATE DETAIL 1111 GREEN) .5g STEEL % SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR POLE GROUNDING CONDUCTOR 2" REFLECTIVE . TAPE (IF SPECIFIED) GROUND ROD -FOR POLE GROUNDING -LOUVERS (TYP.) 17' - 19' & CONFORM TO FIGURE 4D-1 MUTCD LATEST EDITION BRONZE LUG "4 AWG /BARE COPPER, MALL COMULIA USED FOR THE TELEPONG. GROUDING, SERVE, AND SERVED THAT ARE PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE POLE BASE. OWERHEAD SERVICE WIRES SHALL BE INSTALLED ON THE EXTERIOR OF THE POLE IN A $\frac{3}{4}$ * RIGIO STEEL CONDUIT, WITH WEATHERHEAD, OR ON THE INSIDE THE STEEL STRAIN POLE IN RELEXIBLE CONDUIT, FOR EQUIPMENT GROUND SIGNAL/PED HEADS, OWNERT GROWE FOR THAI, WILL BE INSTALLED TO CONNECTOR THAI WILL BE INSTALLED ASSEMBLY THAI CONNECTOR THE TOWNED THE OWNER THAI STOWNED THE WEND WASSEMBLY THAI CONNECTOR THE READS. BARREL FOR THIS CONNECTION. MAST ARM LENGTH
(AS DEPICTED ON TRAFFIC SIGNAL LAYOUT SHEET) AS FOR POLE BASE DEPTH SEE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION. ALL CONDUITS SHALL BE INSTALLED 6 INCHES ABOVE THE CONCRETE POLE BASE. UNDERGROUND SERVICE WIRES SHALL BE INSTALLED IN $rac{N}{2}$ RIGID STEEL CONDUIT SHOWN ON THE CONTROLLER CABINET DETAIL SHEET. POLE YERTICAL LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES IGROUND WHE FOR TESTING PRIOR TO CONNECTING THE CABINET OR POLE. POLE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING THE POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING. POLE DETAIL PECCHA MOTE FOR HE POLE DODGECE FUNDER A SHOCK HAZARO MARNING SITCER ON VOLTAGE TOO VOLT HE FOLLOWING INFORMATION-VOLTAGE TOO VOLT HE FOLLOWING INFORMATION-LIMITED APPROACH BOUNDARY (CONTACT) SEE WIPA TOE FOR ADDITIONAL PER REQUIRED THE STEEL STRAIN DOOR SHALL HAVE FAR AP 6 STOKEN HAZIRON MARNING STICKER INSTALL STROM THE TOP OF THE DOOR. THE STROME SHALL BENETIAL BENE (5) FOR EQUIPMENT GROUND.

"4 AMG BARE COPPER, THE GROUNDING

"10 SAALE BE BRONZE TYPE, THERE SHALL

BE AT LEAST 1.5 FOOT OF BARE COPPER

BETWEEN EACH LUG. WIRE HOLE AND NOMINAL 1'1.D. RUBBER GROMMET FOR EACH SIGNAL HEAD GROUNDING REQUIREMENTS: ARM MONOTUBE MAST SEE MAST ARM POLE BASE DETAIL FOR MATERIALS AND INSTALLATION REOUIREMENTS NOTES: POLE CAP 8/31/2021 USER: Ted.Swansegar DATE PLOTTED: August 31, 2021 FILE NAME: C:\PWWORK\TED.SWANSEGAR\DMS28756\O8-MST ARM MONO (MA).DGN :3MAN T33H2-3 Microstation v8.11,9,832



PROJECT MATERIALS RELEASE FORM FOR SIGNAL AND LIGHTING

 Note: Email form with signatures to KYTC's warehouse (kim.stamper@ky.gov) at least two (2) days prior to arrival for pickup. Ensure Contractor's delivery driver has a copy of form with signatures. Failure to do either may result in long delays or refusal to distribute materials upon arrival.

 long delays or refusal to distribute materials upon arrival.
 KY 2158 @ KY 234

 county:
 Warren
 KY 2158 @ KY 234

 Signals
 IT-02-3000
 EED Module 12" recent arrow IT-02-300
 EED Module 12" recent arrow IT-02-300

 IT-02-3000
 LED Module 12" green arrow IT-02-300
 LED Module 12" green arrow IT-02-300
 LED Module 12" green arrow

1-02-0640 Mast arm mount signal bracket (3 section) A 1-02-0646 Mast arm mount signal bracket (3 section) Recut Radar Presence Detector Radar Presence Detector Recut arms On tractor Name Recut arms of the Presence Detector Contact on t		
12-0646 Mast Arm Dampers Radar Presence Detector tor Name tor Name	Mast arm mount signal bracket (
Radar Presence Detector tor Name tor Supervisor		
tor Name tor Supervisor	Radar Presence Detector	Special Order
tor Name tor Supervisor		
tor Supervisor	Name	
	Supervisor	Contact number for Supervisor
		Contact number for Project Engineer

Electrical coursease operations.

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
Signature of Project Engineer or Designee

SPECIAL NOTE FOR NON-TRACKING TACK COAT

- 1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can "break" within 15 minutes under conditions listed in 3.2.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.
 - 2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.
 - 2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure		
Viscosity, SFS, 77 ° F	20 - 100	AASHTO T 72		
Sieve, %	0.3 max.	AASHTO T 59		
Asphalt Residue ¹ , %	50 min.	AASHTO T 59		
Oil Distillate, %	1.0 max.	AASHTO T 59		
Residue Penetration, 77 ° F	0 - 30	AASHTO T 49		
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315		
Softening Point, ° F	149 min.	AASHTO T 53		
Solubility, %	97.5 min.	AASHTO T 44		

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

- 2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. Ensure the bar can be raised to between 14" and 18" from the roadway.
- 2.3. Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

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

- 3.2 Non-tracking Tack Application. Placement of non-tracking tack is not permitted from October 1st to May 15th. When applying material, ensure the roadway temperature is a minimum of 40°F and rising. Prior to application, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 180 °F. After the initial heating, between 170 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a minimum rate of 0.70 pounds (0.08 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. Increase material application rate if needed to achieve full coverage. Schedule the work so that, at the end of the day's production, all non-tracking tack is covered with the asphalt mixture. If for some reason the non-tracking tack cannot be covered by an asphalt mixture, ensure the non-tracking tack material is clean and reapply the non-tracking tack prior to placing the asphalt mixture. Do not heat material more than twice in one day.
- 3.3 Non-tracking Tack Certification. Furnish the tack certification to the Engineer stating the material conforms to all requirements herein prior to use.
- 3.4 Sampling and Testing. The Department will require a sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.
- 4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the non-tracking tack. The Department will consider all such items incidental to the non-tracking tack.
- 5. PAYMENT. The Department will pay for the non-tracking tack at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. Non-tracking tack will not be permitted for use from October 1st to May 15th. During this timeframe, the department will allow the use of an approved asphalt emulsion in lieu of a non-tracking tack product but will not adjust the unit bid price of the material. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule								
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay		
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13		
			103 - 105	106 - 107	108 - 109	≥ 110		
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71		
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 - 48.4	47.5-47.9	≤ 47.4		
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0		
Residue Penetration, 77 ° F.	30 max.	≤ 31	32 - 33	34 - 35	36 - 37	≥ 38		
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 - 0.94	0.90 - 0.91	0.85 - 0.89	≤ 0.84		
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137		
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3		

Code
24970ECPay Item
Asphalt Material for Tack Non-TrackingPay Unit
Ton

Revised: May 23, 2022

KENTUCKY TRANSPORTATION CABINET

KENTUCKY TRANSPORTATION CABINET

Department of Highways

DIVISION OF RIGHT OF WAY & UTILITIES

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

Contract ID: 221030

Page 36 of 51

RIGHT OF WAY CERTIFICATION

\boxtimes	Original		Re-C	ertification	ı	RIGHT C	RIGHT OF WAY CERTIFICATION			
	ITEM	#			COUNTY	PROJE	CT # (STATE)	PROJECT # (FEDERAL)		
3-9028.00		Warren		FE01 114 21	58 003-004					
PROJECT DESCRIPTION					1					
	Lane re-configuration at the intersection of Cumberland Trace Road & Cemetery Road									
						Noda & Cente	tery nodu			
	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							ance to FHWA regulations		
	under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or									
				uired for thi		•	•	.		
	Condition	# 1 (A	dditio	nal Right o	of Way Required and Cle	eared)				
All ne	cessary rigl	nt of wa	ay, incl	uding contro	ol of access rights when ap	plicable, have b	een acquired including	g legal and physical		
-				-				e may be some improvements		
	_	_	-		-	-		physical possession and the		
								n paid or deposited with the		
						-		ilable to displaced persons		
aueq					nce with the provisions of of Way Required with Ex		WA directive.			
The r				-		•	s-of-way required for t	he proper execution of the		
					- : :	_		n has not been obtained, but		
		-		-		-		s physical possession and right		
_	-				· · · · · · · · · · · · · · · · · · ·			e court for most parcels. Just		
Comp	pensation fo	r all pe	nding	parcels will I	pe paid or deposited with	the court prior t	o AWARD of construct	tion contract		
	Condition	n # 3 (<i>A</i>	Additio	onal Right o	of Way Required with E	xception)				
	-	_			= :			arcels still have occupants. All		
				-	nt housing made available					
								necessary right of way will not		
					will not be relocated, and/					
	-				g. KYTC will fully meet all all acquisitions, relocations	-				
					rce account construction.	s, and run payin	ents after blu letting a	id prior to		
	Number of Par			0	EXCEPTION (S) Parcel #	ANTICI	PATED DATE OF POSSESSIO	N WITH EXPLANATION		
Numb	er of Parcels T	hat Have	Been Ad							
Signed	Deed									
	mnation									
Signed		/Toyt is	limitor	l Use additio	nal sheet if necessary.)					
Notes	, comments	(IEXLIS	minice	a. Ose additio	mai sileet ii fletessai y.,					
LPA RW Project Manager					ger	Right of Way Supervisor				
Print	ed Name				F	Printed Name	Mike Russell			
Sig	gnature					Signature	Mila Roscell			
Date				Date						
Right of Way Director			r		FHWA					
Print	ed Name				P	rinted Name				
Sig	gnature					Signature				
	Date					Date				

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County
No federal number available
No state project number available
Mile point: 3.530 TO 3.531

RESURFACE AND RESTRIPE TO PROVIDE DUAL LEFT TURN LANES WITH INTERSECTION OF KY 234 TO ACCOMODATE TRAFFIC FROM NEW CUMBERLAND TRACE ELEMENTARY SCHOOL.

(2020BOP)(2021SCHSAF) ITEM NUMBER: 03-9028.00

PROJECT NOTES ON UTILITIES

For all projects under 2000 Linear feet which require a normal excavation locate request pursuant to KRS 367.4901-4917, the awarded contractor shall field mark the proposed excavation or construction boundaries of the project (also called white lining) using the procedure set forth in KRS 367.4909(9)(k). For all projects over 2000 linear feet, which are defined as a "Large Project" in KRS 367.4903(18), the awarded contractor shall initially mark the first 2000 linear feet minimally of proposed excavation or construction boundaries of the project to be worked using the procedure set forth in KRS 367.4909(9)(k). This temporary field locating of the project excavation boundary shall take place prior to submitting an excavation location request to the underground utility protection Kentucky Contact Center. For large projects, the awarded contractor shall work with the impacted utilities to determine when additional white lining of the remainder of the project site will take place. This provision shall not alter or relieve the awarded contractor from complying with requirements of KRS 367.4905 to 367.4917 in their entirety.

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

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. 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.

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County
No federal number available
No state project number available
Mile point: 3.530 TO 3.531

RESURFACE AND RESTRIPE TO PROVIDE DUAL LEFT TURN LANES WITH INTERSECTION OF KY 234 TO ACCOMODATE TRAFFIC FROM NEW CUMBERLAND TRACE ELEMENTARY SCHOOL.

(2020BOP)(2021SCHSAF) ITEM NUMBER: 03-9028.00

PROJECT NOTES ON UTILITIES continued

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.

Utility coordination efforts 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.

NOTE: DO NOT DISTURB THE FOLLOWING FACILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

Warren County Water District - Sewer

Charter Communications Holdings, LLC dba Spectrum - CATV

Bowling Green Municipal Utilities - Communication

AT&T-KY - Telephone

Atmos Energy Corporation - Natural Gas

Warren County Water District - Water

Bowling Green Municipal Utilities - Electric

Warren Rural Electric Cooperative Corporation – Electric

The Contractor is fully responsible for protection of all utilities listed above

WARREN COUNTY FE01 114 2158 003-004 Contract ID: 221030 Page 39 of 51

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County
No federal number available
No state project number available
Mile point: 3.530 TO 3.531

RESURFACE AND RESTRIPE TO PROVIDE DUAL LEFT TURN LANES WITH INTERSECTION OF KY 234 TO ACCOMODATE TRAFFIC FROM NEW CUMBERLAND TRACE ELEMENTARY SCHOOL.

(2020BOP)(2021SCHSAF) ITEM NUMBER: 03-9028.00

THE FOLLOWING FACILITY OWNERS ARE RELOCATING/ADJUSTING THEIR FACILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

Not Applicable

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE OWNER OR THEIR SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

Not Applicable

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT

Not Applicable

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

oxdot No Rail Involvement oxdot Rail Involved oxdot Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County

No federal number available

No state project number available

Mile point: 3.530 TO 3.531

RESURFACE AND RESTRIPE TO PROVIDE DUAL LEFT TURN LANES WITH INTERSECTION OF KY 234 TO ACCOMODATE TRAFFIC FROM NEW CUMBERLAND TRACE ELEMENTARY SCHOOL.

(2020BOP)(2021SCHSAF) ITEM NUMBER: 03-9028.00

AREA FACILITY OWNER CONTACT LIST

Facility Owner	Address	Contact Name	Phone	Email
AT&T-KY - Telephone	1150 State Street Bowling Green KY 42101	Travis Parsley	2708463196	tp2087@att.com
Atmos Energy Corporation - Natural Gas	3275 Highland Point Drive Owensboro KY 42303	-	2706858140	Ryne.White@atmosenergy.com
Bowling Green Municipal Utilities - Communication	P.O. Box 10300 Bowling Green KY 42102	Teresa Newman	2707821200	tnewman@bgmu.com
Bowling Green Municipal Utilities - Electric	P.O. Box 10300 Bowling Green KY 42102	Chad Spencer	2707821200	cspencer@bgmu.com
Charter Communications Holdings, LLC dba Spectrum - CATV	1900 North Fares Avenue Evansville IN 47711	Justin Sturgeon	8123058783	justin.sturgeon@charter.com
Warren County Water District - Sewer	P.O. Box 10180 Bowling Green KY 42102	Ryan Leisey	2708420052	ryanl@warrenwater.com
Warren County Water District - Water	P.O. Box 10180 Bowling Green KY 42102	Ryan Leisey	2708420052	ryanl@warrenwater.com
Warren Rural Electric Cooperative Corporation - Electric	P.O. Box 1118 Bowling Green KY 42102	Jonathan Lindsey	2708426541	jonathanl@wrecc.com

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 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

Contract ID: 221030 Page 45 of 51

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.

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.

- 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

Contract ID: 221030 Page 46 of 51

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 HOUF

BEGINNING JULY 24, 2009

OVERTIME PAY

At least $1\frac{1}{2}$ 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.
- \bullet Some state laws provide greater employee protections; employers must comply with both.
- \bullet 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.



Contract ID: 221030

Page 48 of 51

PART IV

INSURANCE

Refer to *Kentucky Standard Specifications for Road and Bridge Construction*,

current edition

PART V

BID ITEMS

FE01 114 2158 003-004

221030

PROPOSAL BID ITEMS

Page 1 of 1

Contract ID: 221030

Page 51 of 51

Report Date 5/20/22

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00100		ASPHALT SEAL AGGREGATE	40.00	TON		\$	
0020	00103		ASPHALT SEAL COAT	8.00	TON		\$	
0030	00214		CL3 ASPH BASE 1.00D PG64-22	360.00	TON		\$	
0040	23307EC		CL3 ASPH SURF NO.4B PG64-22	90.00	TON		\$	
0050	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	2.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0060	02091		REMOVE PAVEMENT	766.00	SQYD		\$	
0070	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0800	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0090	02775		ARROW PANEL	2.00	EACH		\$	
0100	06542		PAVE STRIPING-THERMO-6 IN W	1,200.00	LF		\$	
0110	06543		PAVE STRIPING-THERMO-6 IN Y	600.00	LF		\$	
0120	06568		PAVE MARKING-THERMO STOP BAR-24IN	40.00	LF		\$	
0130	06574		PAVE MARKING-THERMO CURV ARROW	6.00	EACH		\$	
0140	06575		PAVE MARKING-THERMO COMB ARROW	3.00	EACH		\$	
0150	06576		PAVE MARKING-THERMO ONLY	2.00	EACH		\$	
0160	23972EC		GRADE AND RECOMPACT SHOULDER	600.00	LF		\$	

Section: 0003 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0170	04795		CONDUIT-2 IN	140.00	LF		\$	
0180	04820		TRENCHING AND BACKFILLING	20.00	LF		\$	
0190	04821		OPEN CUT ROADWAY	120.00	LF		\$	
0200	04845		CABLE-NO. 14/7C	75.00	LF		\$	
0210	04953		TEMP RELOCATION OF SIGNAL HEAD	6.00	EACH		\$	
0220	20188NS835		INSTALL LED SIGNAL-3 SECTION	1.00	EACH		\$	
0230	21543EN		BORE AND JACK CONDUIT	120.00	LF		\$	
0240	21659NN		RELOCATE SIGNAL HEAD	2.00	EACH		\$	
0250	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	
0260	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	2.00	EACH		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0270	02569		DEMOBILIZATION	1.00	LS		\$	