

CALL NO. 401
CONTRACT ID. 242072
BRECKINRIDGE COUNTY
FED/STATE PROJECT NUMBER 014GR23P072
DESCRIPTION BRECKINRIDGE COUNTY (US 60 & KY 79)
WORK TYPE PAVEMENT (WITH ALTERNATES)
PRIMARY COMPLETION DATE 9/30/2024

## LETTING DATE: January 25,2024

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME January 25,2024. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

**DEFERRED PAYMENT** 

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

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## PART I SCOPE OF WORK

014GR23P072

## **ADMINISTRATIVE DISTRICT - 04**

**CONTRACT ID - 242072** 

**COUNTY - BRECKINRIDGE** 

PCN - MP01400602401 FD05 014 0060 028-030

BASIN SPRING TO IRVINGTON ROAD (US 60) (MP 28.679) BEGIN AT OL NORTON ROAD EXTENDING EAST TO A PAVEMENT JOINT 924 FEET PAST THE INTERSECTION WITH KY 2202/KY 79 (MP 29.734), A DISTANCE OF 01.05 MILES.PAVEMENT (WITH ALTERNATES)

GEOGRAPHIC COORDINATES LATITUDE 37:52:19.00 LONGITUDE 86:17:23.00 ADT 5,900

PCN - MP01400792401 FD05 014 0079 014-016

COLLEGE STREET (KY 79) (MP 14.990) BEGIN AT US 60 EXTENDING NORTH TO 42 FEET NORTH OF MAPLE STREET (MP 15.212), A DISTANCE OF 0.22 MILES.PAVEMENT (WITH ALTERNATES)
GEOGRAPHIC COORDINATES LATITUDE 37:52:19.00 LONGITUDE 86:17:23.00

ADT 1,158

#### **COMPLETION DATE(S):**

COMPLETED BY 09/30/2024 APPLIES TO ENTIRE CONTRACT

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## **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 <a href="https://secure.kentucky.gov/sos/ftbr/welcome.aspx">https://secure.kentucky.gov/sos/ftbr/welcome.aspx</a> .

## 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 <a href="mailto:kytc.projectquestions@ky.gov">kytc.projectquestions@ky.gov</a>. 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 (<a href="www.transportation.ky.gov/contract">www.transportation.ky.gov/contract</a>). 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.

## **BOYCOTT PROVISIONS**

If applicable, the contractor represents that, pursuant to <u>KRS 45A.607</u>, 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 <u>KRS 11A.236</u> 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 <u>KRS 45A.328</u>, 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.

October 4, 2023

SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

## 1.0 BUY AMERICA REQUIREMENT.

Follow the "Buy America" provisions as required by 23 U.S.C. § 313 and 23 C.F.R. § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:

- · Coating,
- Galvanizing,
- Painting, and
- Other coating that protects or enhances the value of steel or iron products.

The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:

- Pig iron,
- Processed, pelletized, and reduced iron ore material, or
- Processed alloys.

The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.

Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.

Use foreign materials only under the following conditions:

- 1) When the materials are not permanently incorporated into the project; or
- 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.

The Contractor shall submit to the Engineer the origin and value of any foreign material used.

## 2.0 – BUILD AMERICA, BUY AMERICA (BABA)

Contractor shall comply with the Federal Highway Administration (FHWA) Buy America Requirement in 23 C.F.R. § 635.410 and all relevant provisions of the Build America, Buy America Act (BABA), contained within the Infrastructure Investment and Jobs Act, Pub. L. No. 117-58, §§ 70901-52 enacted November 15, 2021. The BABA requires iron, steel, manufactured products, and construction materials used in infrastructure projects funded by federal financial assistance to be produced in the United States. Comply with 2 C.F.R § 184.

BABA permits FHWA participation in the Contract only if domestic steel and iron will be used on the Project. To be considered domestic, all steel and iron used, and all products manufactured from steel and iron must be produced in the United States and all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied. This requirement does not preclude a minimal use of foreign steel and iron materials, provided the cost of such materials does not exceed 0.1% of the total contract amount under the Contract or \$2,500.00 whichever is greater.

BABA permits FHWA participation in the Contract only if all "construction materials" as defined in the Act are made in the United States. The Buy America preference applies to the following construction materials

SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

incorporated into infrastructure projects: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); Fiber optic cable; optical fiber; lumber; engineered wood; and drywall. Contractor will be required to use construction materials produced in the United States on this Project. The Contractor shall submit a certification stating that all construction materials are certified to be BABA compliant.

Finally, BABA permits the continuation of FHWA's current general applicability waivers for manufactured products, raw materials, and ferryboat parts, but these waivers are subject to reevaluation, specifically the general applicability waiver for manufactured products.

The Contractor has completed and submitted, or shall complete and submit, to the Cabinet a Buy America/Build America, Buy America Certificate prior to the Cabinet issuing the notice to proceed, in the format below. After submittal, the Contractor is bound by its original certification.

A false certification is a criminal act in violation of 18 U.S.C. § 1001. The Contractor has the burden of proof to establish that it is in compliance.

At the Contractor's request, the Cabinet may, but is not obligated to, seek a waiver of Buy America requirements if grounds for the waiver exist under 23 C.F.R. § 635.410(c) or will comply with the applicable Buy America requirements if a waiver of those requirements is not available or not pursued by the Cabinet.

Please refer to the Federal Highway Administration's Buy America webpage for more information.

<u>Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway</u> Administration (dot.gov)

October 26, 2023 Letting

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SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

## BUY AMERICA / BUILD AMERICA, BUY AMERICA (ACT) MATERIALS CERTIFICATE OF COMPLIANCE

The Contractor hereby certifies that it will comply with all relevant provisions of the Build America, Buy America Act, contained within the Infrastructure Investment and Jobs Act, Pub. L. NO. 117-58, §§ 70901-52, the requirements of 23 U.S.C. § 313, 23 C.F.R. § 635.410 and 2 C.F.R § 184.

| Date Submitted: |
|-----------------|
| Contractor:     |
| Signature:      |
| Printed Name:   |
| Title:          |

NOTE: THIS CERTIFICATION IS IN ADDITION TO ANY AND ALL REQUIREMENTS OUTLINED IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND/OR SPECIAL NOTES CONTAINED IN THE PROJECT PROPOSAL.

## 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

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#### **DEFERRED PAYMENT**

The successful bidder on this project has the distinct understanding that payment for any work may be delayed until July 15, 2024. Work Order/Notice to Proceed will be issued in accordance the Standard Specifications for Road and Bridge Construction, current edition.

## **SURFACING AREAS US 60**

The Department estimates the mainline surfacing width to be varied 24 to 36 feet.

The Department estimates the total mainline area to be surfaced to be 24,353 square yards.

The Department estimates the shoulder width to be 0 to 3 feet on each side.

The Department estimates the total shoulder area to be surfaced to be 1,067 square yards.

**SURFACING AREAS KY 79** 

The Department estimates the mainline surfacing width to be varied 24 to 36 feet.

The Department estimates the total mainline area to be surfaced to be 4,545 square yards.

The Department estimates the shoulder width to be N/A foot on each side.

The Department estimates the total shoulder area to be surfaced to be N/A square yards.

#### 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.

## SPECIAL NOTE FOR THERMOPLASTIC PAVEMENT MARKINGS REMOVAL

If needed remove existing Thermoplastic Pavement Markings just prior to placement of the overlay as directed by the Engineer. The Department will not measure removal of the Thermoplastic Pavement Markings, but shall be incidental to the other items of work. Lane Striping thermo removal will be paid for as indicated by the Bid Item 06531 PAVE STRIPING REMOVAL-6 IN

## SPECIAL NOTE FOR POLISH-RESISTANT AGGREGATE IN NO 4 THINLAY ASPHALT MIXTURES

Contrary to Section 409.03.03 of the *Standards and Specifications*, for 4.75mm asphalt mixtures requiring Class D aggregate, recycled asphalt pavement (RAP) shall not exceed 15% of cold feed percentage, and the use of recycled asphalt shingles (RAS) is prohibited.

**Contrary to Section 402** of the *Standards and Specifications*, Warm Mix Asphalt (WMA) will not be permitted for all 4.75mm asphalt mixtures.

**Contrary to Section 403.03.01** the NO 4 surface mixtures, do not place the mixture between September 30 and May 1 unless requested in writing and approved by the engineer.

## SPECIAL NOTE FOR CRACK SEALING

The crack sealant shall be Crafco Polyfiber Type IV or approved equivalent. Crack sealing must be completed a minimum of 30 days prior to the overlay treatment. No sealant material shall be placed until the joints and cracks have been cleaned of all loose dirt and material using a minimum of 125 psi/ 100 cfm air compressor. After routing and cleaning, all joints and cracks shall be heat lanced to clean and remove moisture. The heat lance shall be a LAB Model B or approved equal capable of producing air temperatures up to 2500 F. Joints and cracks shall be inspected and approved by the Department prior to placing the sealant material. Final joint and crack cleaning and heat lancing shall not proceed in advance of sealing by more than 1/8 mile. The sealant container shall be a thermostatically controlled heated oil jacketed tank with the ability to agitate the sealant. Sealant shall be leveled or struck down with the use of a 3 inch disk attachment at the end of the wand applicator. The overband width of the hot applied modified crack sealant shall not exceed 3 inches in width or 1/8 inch in height above the surrounding pavement unless directed by the engineer. Glenzoil 20 Plus, Crafco Detack or approved equal shall be

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sprayed on the placed sealant prior to opening to traffic at an application rate of approximately 1 gallon of Glenzoil 20 Plus/Crafco Detack per 50 gallons of sealant. All debris from the work must be removed prior to opening to traffic.

## SPECIAL NOTE FOR FINE MILLING

Perform Fine Milling at areas outlined in the Typical Sections and as directed by the Engineer.

- **A. Equipment.** Provide a cold milling machine with a fine tooth milling drum and an electronic grade control system. The tool spacing of the drum shall not exceed 3/8 inch. The machine shall be equipped with a grade control system capable of determining a mean value from a minimum of three grade sensors. The sensors shall span a minimum length of 20 feet longitudinally. The drum must be capable of producing a macrotexture measurement greater than or equal to 9.5 inches as described in C. Testing.
- **B.** Construction. The milling machine shall be operated as a speed and drum revolution per minute such that the macrotexture measurement is greater than or equal to 9.5 inches as described in C. Testing and the milled pavement profile does not vary longitudinally more than ½ inch from a 16' straight edge. Maintain the milling drum such that the cross-slope does not vary more than 1/8 inch from a 10 foot straightedge. Milling shall be performed so that the cross-slope breaks between driving lanes and shoulders remain at their existing locations. Depth of milling shall be set so as to remove rutting, rumble strips, and profile errors. Contractor will take possession of all millings from milling operations. The milled surface shall be swept clean of all loose material after milling and prior to resurfacing. Prior to resurfacing, allow traffic to drive on the milled surface for a minimum of 5 days to permit the removal of fine dust from the milled surface.
- C. Testing. Testing shall be performed to determine the macrotexture of the milled pavement surface at a random location chosen in accordance with Kentucky Method KM 64-113-14. Test area shall be cleaned with a stiff wire and or soft bristle brush and protected with a wind screen as necessary. Pour 200 ml of Type 1 glass beads (meeting AASHTO M247) from a height of 4 inches or less onto the milled pavement surface. Using a round plexiglass disk (8 inches in diameter x ½ inch thick) with a round handle, place gently on the pile of beads and spread in a slow circular motion to disperse the beads in a circular area and create a defined crest around the perimeter. Continue spreading until the beads are well dispersed and the disk rides on top of the high points of the milled pavement surface. Measure the diameter of the pile in inches at 0 degrees, 45 degrees, 90 degrees and 135 degrees. Determine the macrotexture measurement in inches by adding the four measurements and dividing by four. Frequency of testing shall be a minimum of once daily and additional testing will be performed as determined necessary by the project engineer.
- D. Measurement. The Department will measure Fine Milling in Sq. Yds. of surface milled.
- **E. Payment.** Payment at the contract unit price per Sq. Yd. of Asphalt Pavement Milling and Texturing (Fine Milling) shall be full compensation for all equipment, labor, materials, and incidentals necessary to complete the operations described herein.

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## SPECIAL NOTE FOR AWARD OF CONTRACT

Contrary to Section 103.02, the Department may hold the Bid Proposals of any or all bidders for a period not to exceed 90 calendar days for final disposition of award. The Department may hold the Bid Proposal of the lowest bidder longer than 90 calendar days if the bidder concurs.

Contrary to Section 103.04, The Department will hold the Proposal Guaranty of the lowest bidder and the Proposal Guaranty of the second lowest bidder, as determined by the Commissioner, until the Department awards the Contract and executes and approves the Contract and bond of the successful bidder, or until the Department rejects all Bid Proposals. If the Department does not make an award within 90 calendar days, the Department will return all Proposal Guaranties.

Except as provided in this note or elsewhere in the proposal, the Department will apply all other applicable portions of Section 103.

1-3002 Award of Contract 01/02/2012

## 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 <sup>1</sup> , %          | 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    |

<sup>&</sup>lt;sup>1</sup> 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 1<sup>st</sup> to May 15<sup>th</sup>. 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 1<sup>st</sup> to May 15<sup>th</sup>. 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<br/>24970ECPay Item<br/>Asphalt Material for Tack Non-TrackingPay Unit<br/>Ton

Revised: May 23, 2022

## SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER MONOLITHIC OPERATION

- **1.0 MATERIALS.** Provide an Asphalt Surface Mixture conforming to Section 403 of the Standard Specifications, as applicable to the project, for the pavement wedge.
- **2.0 CONSTRUCTION.** Place the specified Asphalt Surface Mixture on shoulders monolithically with the driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 403.03 of the Standard Specifications.

Equip the paver with a modified screed that extends the full width of the wedge being placed and is tapered to produce a wedge. Obtain the Engineer's approval of the modified screed before placing shoulder wedge monolithically with the driving lane.

The wedge may vary in thickness at the edge of the milled area in the shoulder. If the area to receive the shoulder wedge is milled prior to placement, during rolling operations pinch the outside edge of the new inlay wedge to match the existing shoulder elevation not being resurfaced. Unless required otherwise by the Contract, construct rolled or sawed rumble strips according to Section 403.03.08, as applicable.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.

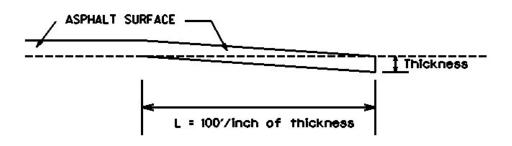


- **3.0 MEASUREMENT.** The Department will measure Asphalt Surface Mixture placed as the pavement wedge according to Section 403.
- **4.0 PAYMENT.** The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures on pavement wedges according to Section 403.

#### SPECIAL NOTE FOR EDGE KEY

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Unless specified in the Contract or directed by the Engineer, do not construct edge keys at intersecting streets, roads, alleys, or entrances. Cut out the existing asphalt surface to the required depth and width shown on the drawing and heel the new surface into the existing surface. The Department will make payment for this work at the Contract unit price per square yards for Fine Milling, which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

## EDGE KEY



Thickness = 0.75 Inches

L = 75 LF

L= Length of Edge Key

1-3309 Edge key by Ton 01/02//2012

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## SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions 01/02/2012

#### TRAFFIC CONTROL PLAN

#### TRAFFIC CONTROL GENERAL

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

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

#### PROJECT PHASING & CONSTRUCTION PROCEDURES

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

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one-way traffic during construction. Provide a minimum clear lane width of 11 feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

## LANE CLOSURES

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

## **SIGNS**

Sign posts and splices shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. Signs, including any splices, shall be installed according to manufacturer's specifications and installation recommendations. Contrary to section 112.04.02, only long-term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment. Short-term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

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#### **CHANGEABLE MESSAGE SIGNS**

Provide changeable message signs in advance of and within the project at locations determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens, relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Changeable Message Signs or for signs the Engineer directs be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

#### **ARROW PANELS**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure for payment the maximum number of Arrow Panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged Arrow Panels or for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

## **TEMPORARY ENTRANCES**

The Engineer will not require the Contractor to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. Limit the time during which a farm or residential entrance is blocked to the minimum length of time required for actual operations, not extended for the Contractor's convenience, and in no case exceeding six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents.

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Except as allowed by the Phasing as specified above, maintain direct access to all side streets and roads, schools, churches, commercial properties and apartments or apartment complexes of four or more units at all times.

The Department will measure asphalt materials required to construct and maintain any temporary entrances which may be necessary to provide temporary access; however, the Department will not measure aggregates, excavation, and/or embankment, but shall be incidental to Maintain and Control Traffic. The Engineer will determine the type of surfacing material, asphalt or aggregate, to be used at each entrance.

### THERMOPLASTIC INTERSECTION MARKINGS

Consider the locations listed on the summary as approximate only. Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After resurfacing, replace the markings at their approximate existing locations or as directed by Engineer. Place markings not existing prior to resurfacing as directed by the Engineer.

#### **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.

The Department will measure barricades used to protect pavement removal areas in individual units Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of construction.

## **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 the final surface course.

Install Temporary Striping according to Section 112 with the following exception:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane 
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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 traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD 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 unresurfaced 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" - No protection required.

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 lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4" - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly in front of the drop-off facing on coming traffic in both directions of travel. Provide warning signs as shown on the Standard Drawings or as directed by the Engineer

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the engineer.

1-3830 Traffic Control Plan 3 or More Lanes Low ADT 7/28/2017

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## USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

## **Application**

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

## CMS should not be used for:

- Replacement of static signs (e.g. road work ahead), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)

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• Public service announcements (not traffic related

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## Messages

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- Nor more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

#### **Placement**

Placement of the CMS is important to insure that the signs is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent thief (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use

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## **Standard Abbreviations**

The following is a list of standard abbreviations to be used on CMS.

| <b>Word</b>         | Abbrev.    | <b>Example</b>                   |
|---------------------|------------|----------------------------------|
| Access              | ACCS       | ACCIDENT AHEAD/USE ACCS RD       |
|                     |            | NEXT RIGHT                       |
| Alternate           | ALT        | ACCIDENT AHEAD/USE ALT RTE       |
|                     |            | NEXT RIGHT                       |
| Avenue              | AVE        | FIFTH AVE CLOSED/DETOUR          |
|                     |            | NEXT LEFT                        |
| Blocked             | BLKD       | FIFTH AVE BLKD/MERGE LEFT        |
| Boulevard           | BLVD       | MAIN BLVD CLOSED/USE ALT RTE     |
| Bridge              | BRDG       | SMITH BRDG CLOSED/USE ALT<br>RTE |
| Cardinal Directions | N, S, E, W | N I75 CLOSED/ DETOUR EXIT 30     |
| Center              | CNTR       | CNTR LANE CLOSED/MERGE LEFT      |
| Commercial          | COMM       | OVRSZ COMM VEH/USE I275          |
| Condition           | COND       | ICY COND POSSIBLE                |
| Congested           | CONG       | HVY CONG NEXT 3 MI               |
| Construction        | CONST      | CONST WORK AHEAD/EXPECT          |
|                     |            | DELAYS                           |
| Downtown            | DWNTN      | DWNTN TRAF USE EX 40             |
| Eastbound           | E-BND      | E-BND I64 CLOSED/DETOUR          |
|                     |            | EXIT 20                          |
| Emergency           | EMER       | EMER VEH AHEAD/PREPARE TO        |
|                     |            | STOP                             |
| Entrance, Enter     | EX, EXT    | DWNTN TRAF USE EX 40             |
| Expressway          | EXPWY      | WTRSN EXPWY CLOSED/DETOUR        |
|                     |            | EXIT 10                          |
| Freeway             | FRWY, FWY  | GN SYNDR FWY CLOSED/DETOUR       |
|                     |            | EXIT 15                          |
| Hazardous Materials | HAZMAT     | HAZMAT IN ROADWAY/ALL TRAF       |
|                     |            | EXIT 25                          |
| Highway             | HWY        | ACCIDENT ON AA HWY/EXPECT        |
|                     |            | DELAYS                           |
| Hour                | HR         | ACCIDENT ON AA HWY/2 HR          |
|                     |            | DELAY                            |
| Information         | INFO       | TRAF INFO TUNE TO 1240 AM        |
| Interstate          | I          | E-BND I64 CLOSED/DETOUR          |
|                     |            | EXIT 20                          |
| Lane                | LN         | LN CLOSED/MERGE LEFT             |
| Left                | LFT        | LANE CLOSED/MERGE LFT            |
| Local               | LOC        | LOC TRAF USE ALT RTE             |
| Maintenance         | MAINT      | MAINT WRK ON BRDG/SLOW           |
| Major               | MAJ        | MAJ DELWAYS 175/USE ALT RTE      |
|                     |            |                                  |

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| Mile        | MI      | ACCIDENT 3 MI AHEAD/ USE<br>ALT RTE |
|-------------|---------|-------------------------------------|
| Minor       | MNR     | ACCIDENT 3 MI MNR DELAY             |
| Minutes     | MIN     | ACCIDENT 3 MI/30 MIN DELAY          |
| Northbound  | N-BND   | N-BND I75 CLOSED/ DETOUR            |
| Tiorinodana | TV BIVE | EXIT 50                             |
| Oversized   | OVRSZ   | OVRSZ COMM VEH/USE I275             |
| Oversized   | OVROL   | NEXT RIGHT                          |
| Parking     | PKING   | EVENT PKING NEXT RGT                |
| Parkway     | PKWY    | CUM PKWAY TRAF/DETOUR               |
| Turkway     | 11011   | EXIT 60                             |
| Prepare     | PREP    | ACCIDENT 3 MIL/PREP TO STOP         |
| Right       | RGT     | EVENT PKING NEXT RGT                |
| Road        | RD      | HAZMAT IN RD/ALL TRAF EXIT 25       |
| Roadwork    | RDWK    | RDWK NEXT 4 MI/POSSIBLE             |
| Roudwork    | TCD WIL | DELAYS                              |
| Route       | RTE     | MAJ DELAYS 175/USE ALT RTE          |
| Shoulder    | SHLDR   | SHLDR CLOSED NEXT 5 MI              |
| Slippery    | SLIP    | SLIP COND POSSIBLE/ SLOW SPD        |
| Southbound  | S-BND   | S-BND I75 CLOSED/DETOUR             |
|             |         | EXIT 50                             |
| Speed       | SPD     | SLIP COND POSSIBLE/ SLOW SPD        |
| Street      | ST      | MAIN ST CLOSED/USE ALT RTE          |
| Traffic     | TRAF    | CUM PKWAY TRAF/DETOUR               |
|             |         | EXIT 60                             |
| Vehicle     | VEH     | OVRSZ COMM VEH/USE I275             |
|             |         | NEXT RIGHT                          |
| Westbound   | W-BND   | W-BND I64 CLOSED/DETOUR             |
|             |         | EXIT 50                             |
| Work        | WRK     | CONST WRK 2MI/POSSIBLE              |
|             |         | DELAYS                              |
|             |         |                                     |

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NO USE THESE ABBREVIATIONS.

| Abbrev. | Intended Word     | Word Erroneously Given |
|---------|-------------------|------------------------|
| ACC     | Accident          | Access (Road)          |
| CLRS    | Clears            | Colors                 |
| DLY     | Delay             | Daily                  |
| FDR     | Feeder            | Federal                |
| L       | Left              | Lane (merge)           |
| LOC     | Local             | Location               |
| LT      | Light (traffic)   | Left                   |
| PARK    | Parking           | Park                   |
| POLL    | Pollution (index) | Poll                   |
| RED     | Reduce            | Red                    |
| STAD    | Stadium           | Standard               |
|         |                   |                        |

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> **TEMP** WRNG

**Temporary** Warning

**Temperature** Wrong

## TYPICAL MESSAGES

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

Reason/Problem

**ACCIDENT** ACCIDENT/XX MILES XX ROAD CLOSED XX EXIT CLOSED **BRIDGE CLOSED** 

BRIDGE/(SLIPPERY, ICE, ETC.) CENTER/LANE/CLOSED DELAY(S), MAJOR/DELAYS

**DEBRIS AHEAD DENSE FOG** 

DISABLED/VEHICLE EMER/VEHICLES/ONLY **EVENT PARKING** EXIT XX CLOSED FLAGGER XX MILES FOG XX MILES FREEWAY CLOSED

FRESH OIL HAZMAT SPILL

**ICE** 

**INCIDENT AHEAD** 

LANES (NARROW, SHIFT, MERGE, ETC.)

LEFT LANE CLOSED LEFT LANE NARROWS LEFT 2 LANES CLOSED LEFT SHOULDER CLOSED

LOOSE GRAVEL

MEDIAN WORK XX MILES

MOVING WORK ZONE, WORKERS IN ROADWAY

NEXT EXIT CLOSED NO OVERSIZED LOADS

**NO PASSING** NO SHOULDER ONE LANE BRIDGE Action

ALL TRAFFIC EXIT RT AVOID DELAY USE XX CONSIDER ALT ROUTE

DETOUR

**DETOUR XX MILES** DO NOT PASS EXPECT DELAYS FOLLOW ALT ROUTE

KEEP LEFT **KEEP RIGHT** MERGE XX MILES MERGE LEFT MERGE RIGHT ONE-WAY TRAFFIC PASS TO LEFT PASS TO RIGHT PREPARE TO STOP REDUCE SPEED

**SLOW** 

**SLOW DOWN** STAY IN LANE STOP AHEAD STOP XX MILES **TUNE RADIO 1610 AM** USE NN ROAD USE CENTER LANE **USE DETOUR ROUTE** USE LEFT TURN LANE **USE NEXT EXIT** 

**USE RIGHT LANE** 

WATCH FOR FLAGGER

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PEOPLE CROSSING

RAMP CLOSED

RAMP (SLIPPERY, ICE, ETC.)

RIGHT LANE CLOSED

**RIGHT LANE NARROWS** 

RIGHT SHOULDER CLOSED

ROAD CLOSED

ROAD CLOSED XX MILES

ROAD (SLIPPERY, ICE, ETC.)

**ROAD WORK** 

ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)

**ROAD WORK XX MILES** 

SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)

**NEW SIGNAL XX MILES** 

SLOW 1 (OR 2) - WAY TRAFFIC

SOFT SHOULDER

STALLED VEHICLES AHEAD

TRAFFIC BACKUP

TRAFFIC SLOWS

TRUCK CROSSING

TRUCKS ENTERING

TOW TRUCK AHEAD

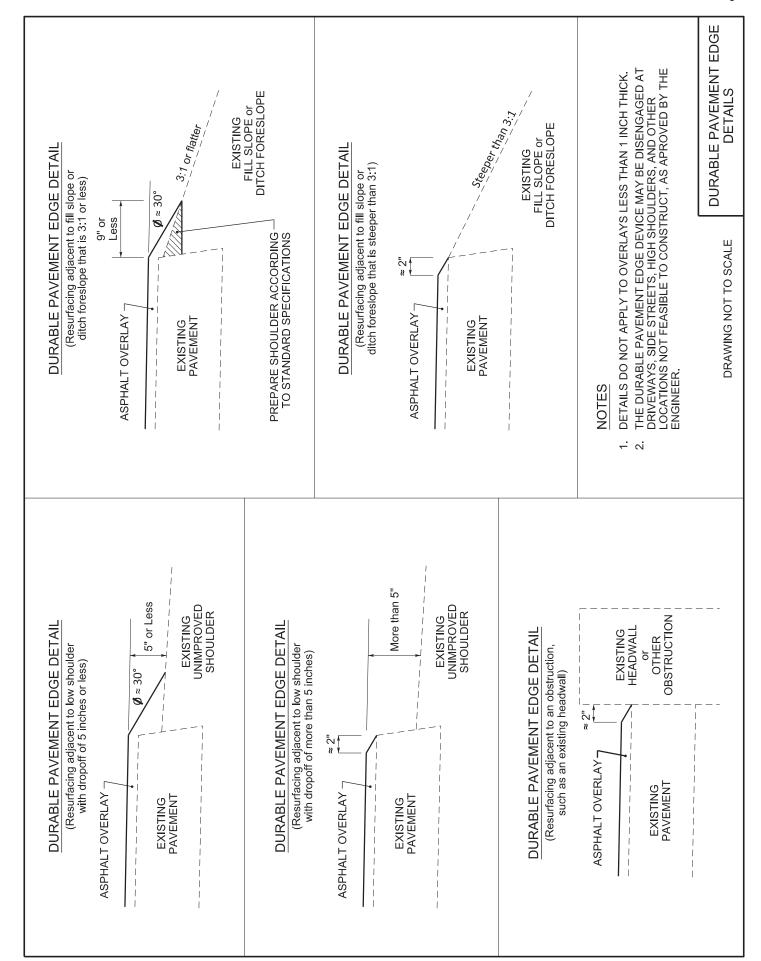
**UNEVEN LANES** 

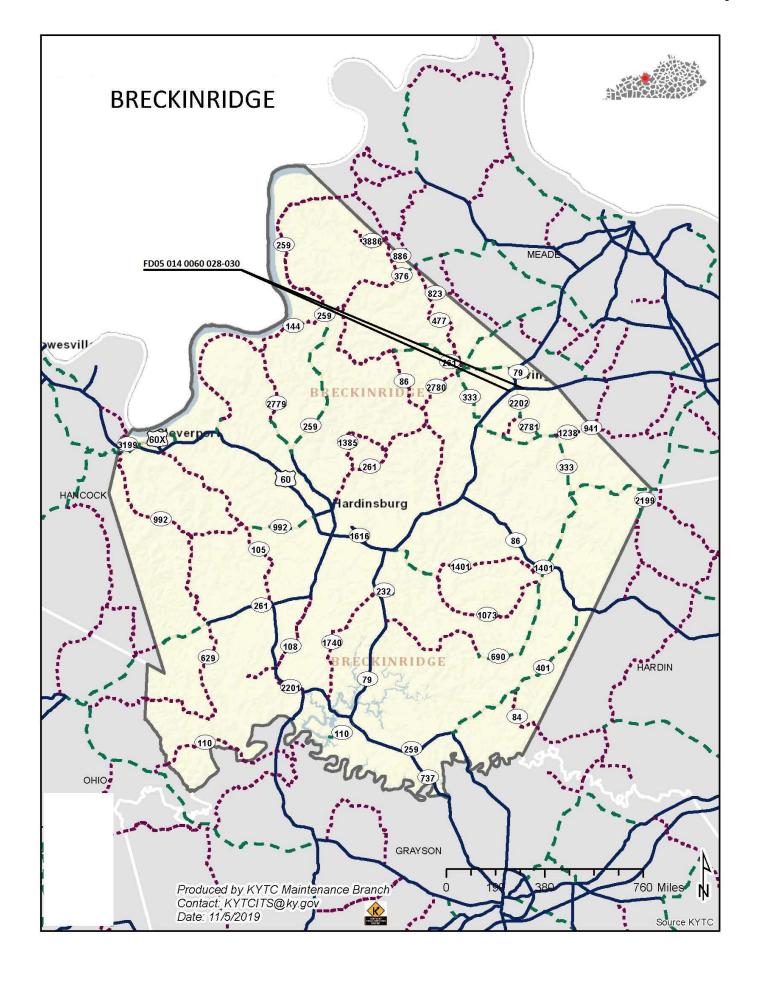
WATER ON ROAD

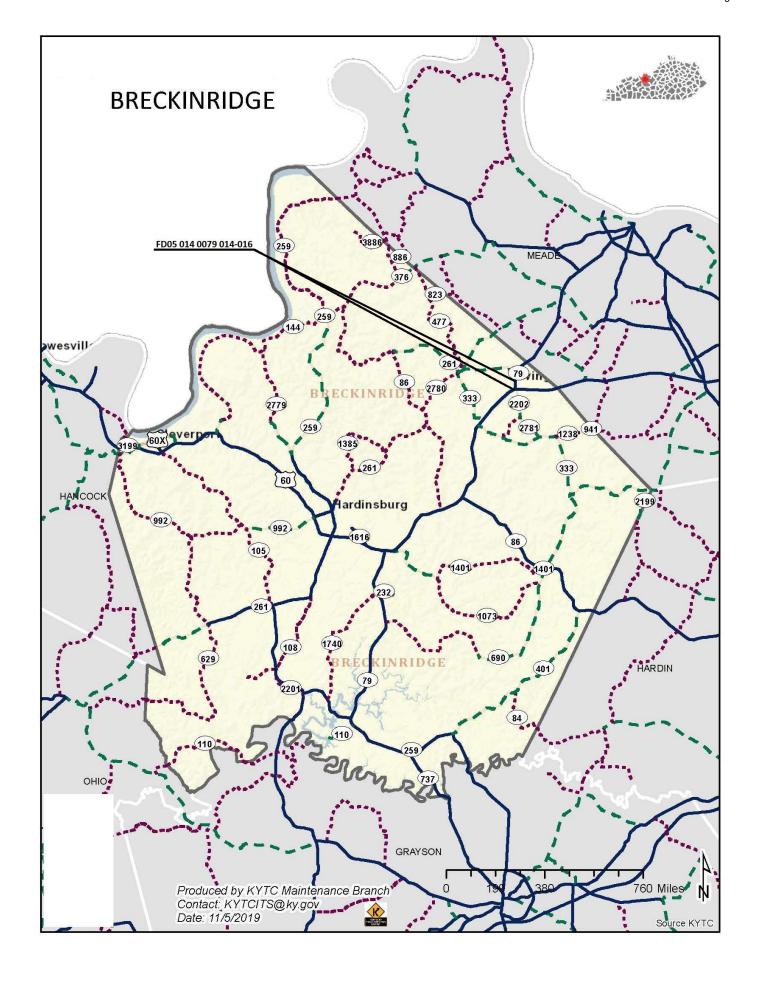
**WET PAINT** 

WORK ZONE XX MILES

**WORKERS AHEAD** 







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## **MATERIAL SUMMARY**

| CONTRACT ID: 242072 | 014GR23P072 | MP01400602401 |
|---------------------|-------------|---------------|
| CONTRACT ID: 242072 | 014GR23P072 | MP01400602401 |

BASIN SPRING TO IRVINGTON ROAD (US 60) BEGIN AT OL NORTON ROAD EXTENDING EAST TO A PAVEMENT JOINT 924 FEET PAST THE INTERSECTION WITH KY 2202/KY 79 PAVEMENT (WITH ALTERNATIVES), A DISTANCE OF 1.05 MILES.

| Project<br>Line No | Bid Code | DESCRIPTION                            | Quantity  | Unit |
|--------------------|----------|--|-----------|------|
| 0005               | 02562    | TEMPORARY SIGNS                        | 370.00    | SQFT |
| 0010               | 02650    | MAINTAIN & CONTROL TRAFFIC - (US 60)   | 1.00      | LS   |
| 0015               | 02671    | PORTABLE CHANGEABLE MESSAGE SIGN       | 2.00      | EACH |
| 0020               | 02775    | ARROW PANEL                            | 2.00      | EACH |
| 0025               | 06510    | PAVE STRIPING-TEMP PAINT-4 IN          | 15,000.00 | LF   |
| 0030               | 06531    | PAVE STRIPING REMOVAL-6 IN             | 25,200.00 | LF   |
| 0035               | 06533    | PAVE STRIPING REMOVAL-12 IN            | 229.00    | LF   |
| 0040               | 06542    | PAVE STRIPING-THERMO-6 IN W            | 11,200.00 | LF   |
| 0045               | 06543    | PAVE STRIPING-THERMO-6 IN Y            | 14,000.00 | LF   |
| 0050               | 06547    | PAVE STRIPING-THERMO-12 IN Y           | 229.00    | LF   |
| 0055               | 06574    | PAVE MARKING-THERMO CURV ARROW         | 25.00     | EACH |
| 0060               | 23071EN  | OVERBAND CRACK SEALING                 | 4,000.00  | LB   |
| 0065               | 24880EC  | REMOVE PAVEMENT MARKER                 | 280.00    | EACH |
| 0070               | 21652EN  | MICROSURFACING-LEVELING COURSE         | 26,520.00 | SQYD |
| 0075               | 24957EC  | MICROSURFACING-SURFACE COURSE - TYPE B | 25,420.00 | SQYD |
| 0800               | 00190    | LEVELING & WEDGING PG64-22             | 45.00     | TON  |
| 0085               | 02676    | MOBILIZATION FOR MILL & TEXT - (US 60) | 1.00      | LS   |
| 0090               | 24888EC  | CL2 ASPH SURF NO.4B PG64-22            | 1,050.00  | TON  |
| 0095               | 24964EC  | FINE MILLING                           | 25,420.00 | SQYD |
| 0100               | 24970EC  | ASPHALT MATERIAL FOR TACK NON-TRACKING | 10.00     | TON  |
| 0105               | 02569    | DEMOBILIZATION                         | 1.00      | LS   |

### Contract ID: 242072 Page 37 of 67

# **MATERIAL SUMMARY**

| CONTRACT ID: 242072 01 | 14GR23P072 | MP01400792401 |
|------------------------|------------|---------------|
|                        |            |               |

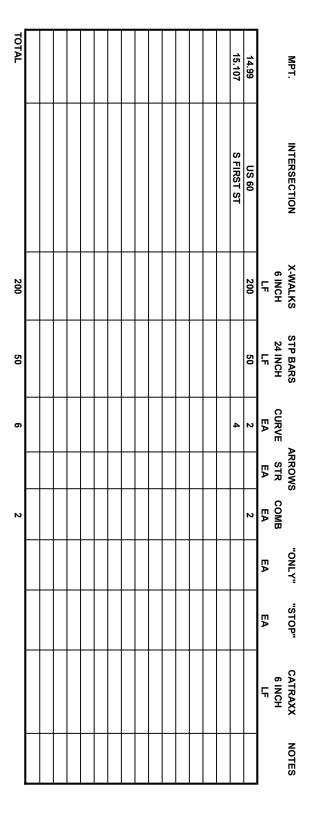
COLLEGE STREET (KY 79) BEGIN AT US 60 EXTENDING NORTH TO 42 FEET NORTH OF MAPLE STREET PAVEMENT (WITH ALTERNATIVES), A DISTANCE OF .22 MILES.

| Project<br>Line No | Bid Code   | DESCRIPTION                                    | Quantity  | Unit |
|--------------------|------------|--|-----------|------|
| 0110               | 02562      | TEMPORARY SIGNS                                | 230.00    | SQFT |
| 0115               | 02650      | MAINTAIN & CONTROL TRAFFIC - (KY 79)           | 1.00      | LS   |
| 0120               | 06542      | PAVE STRIPING-THERMO-6 IN W                    | 2,500.00  | LF   |
| 0125               | 06543      | PAVE STRIPING-THERMO-6 IN Y                    | 3,000.00  | LF   |
| 0130               | 06547      | PAVE STRIPING-THERMO-12 IN Y                   | 30.00     | LF   |
| 0135               | 06565      | PAVE MARKING-THERMO X-WALK-6 IN                | 200.00    | LF   |
| 0140               | 06568      | PAVE MARKING-THERMO STOP BAR-24IN              | 50.00     | LF   |
| 0145               | 06574      | PAVE MARKING-THERMO CURV ARROW                 | 6.00      | EACH |
| 0150               | 06575      | PAVE MARKING-THERMO COMB ARROW                 | 2.00      | EACH |
| 0155               | 23071EN    | OVERBAND CRACK SEALING                         | 500.00    | LB   |
| 0160               | 24880EC    | REMOVE PAVEMENT MARKER                         | 70.00     | EACH |
| 0165               | 06510      | PAVE STRIPING-TEMP PAINT-4 IN - (MICROSURFACE) | 11,000.00 | LF   |
| 0170               | 21652EN    | MICROSURFACING-LEVELING COURSE                 | 5,151.00  | SQYD |
| 0175               | 24958EC    | MICROSURFACING-SURFACE COURSE - TYPE D         | 4,545.00  | SQYD |
| 0180               | 00190      | LEVELING & WEDGING PG64-22                     | 25.00     | TON  |
| 0185               | 02676      | MOBILIZATION FOR MILL & TEXT - (KY 79)         | 1.00      | LS   |
| 0190               | 06510      | PAVE STRIPING-TEMP PAINT-4 IN - (THINLAY)      | 5,500.00  | LF   |
| 0195               | 21653ES403 | CL2 ASPH SURF NO.4D PG64-22                    | 187.00    | TON  |
| 0200               | 24964EC    | FINE MILLING                                   | 4,545.00  | SQYD |
| 0205               | 24970EC    | ASPHALT MATERIAL FOR TACK NON-TRACKING         | 2.00      | TON  |
| 0210               | 02569      | DEMOBILIZATION                                 | 1.00      | LS   |

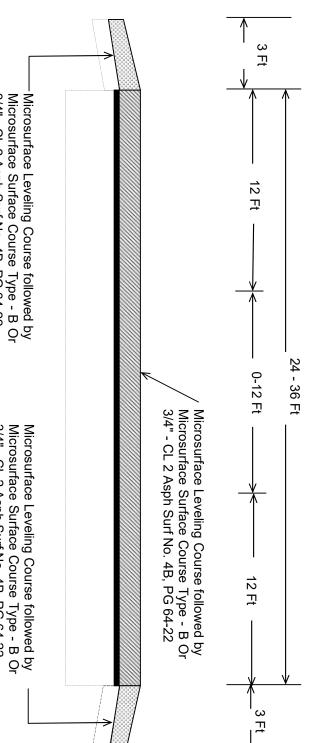
# Breckinridge County THERMOPLASTIC INTERSECTION PAVEMENT MARKINGS SUMMARY FD05 014 0060 028-030

| TOTAL |  |  |  | 29.559        | 29.38    | 29.32    | 29.25         | 29.21 | 29.17         | 29.1           | 29.03        | 28.95          | 28.85            |    |         | MPT.         |
|-------|--|--|--|---------------|----------|----------|---------------|-------|---------------|----------------|--------------|----------------|------------------|----|---------|--------------|
|       |  |  |  | KY 79/KY 2202 | CIRCLE K | CIRCLE K | ASHBY/COLLEGE | ASHBY | JOHNSON/ASHBY | MEADOW/JOHNSON | ATER HEIGHTS | HILLVIEW/TRENT | OR NORTON/HILLVW |    |         | INTERSECTION |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | ۲  | 6 INCH  | X-WALKS      |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | 두  | 24 INCH | STP BARS     |
| 25    |  |  |  | 7             | 2        | 2        | 2             | 2     | 2             | 2              | 2            | 2              | 2                | ΕA | CURVE   |              |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | ΕA | STR     | ARROWS       |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | ΕA | COMB    |              |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | ΕA |         | "ONLY"       |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | ΕA |         | "STOP"       |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  | 듀  | 6 INCH  | CATRAXX      |
|       |  |  |  |               |          |          |               |       |               |                |              |                |                  |    |         | NOTES        |

# Breckinridge County THERMOPLASTIC INTERSECTION PAVEMENT MARKINGS SUMMARY FD05 014 0079 014-016



MP's 28.679-28.807 and FD05 014 0060 028 030 Breckinridge County
TYPICAL SECTION 29.559-29.734



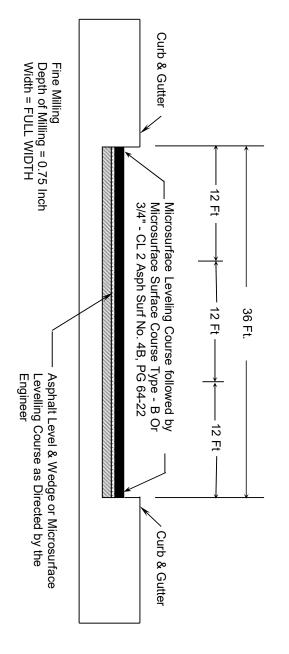
Microsurface Leveling Course followed by Microsurface Surface Course Type - B Or 3/4" - CL 2 Asph Surf No. 4B, PG 64-22

Microsurface Leveling Course followed by Microsurface Surface Course Type - B Or 3/4" - CL 2 Asph Surf No. 4B, PG 64-22

applies. \*Fine Mill 3/4" deep everything that receives 3/4" CL2 Asph Surf No.4B PG 64-22 only if thinlay option

\*\*\* Leveling and Wedging or Microsurface Leveling Course Only as Directed by the Project Engineer

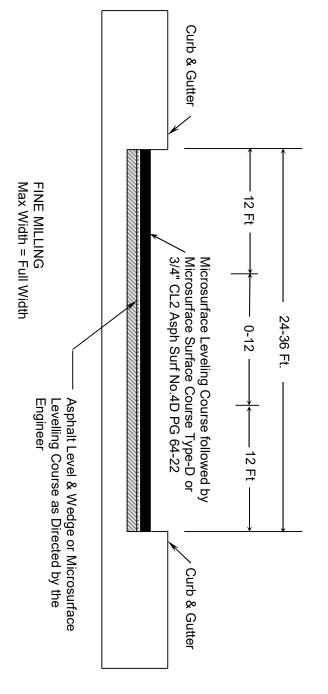
Breckinridge County TYPICAL SECTION FD05 014 0060 028 030 MP's 28.807-29.559



Page 1

Breckinridge County
TYPICAL SECTION
FD05 014 0079 014 016

MP's 14.99-15.212



Page 1

# 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: <a href="http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx">http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx</a>

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### 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:

- Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 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.

1**I** 

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

 $/KEEP/RIGHT/\Rightarrow\Rightarrow\Rightarrow/$ /MIN/SPEED/\*\*MPH/ /ICY/BRIDGE/AHEAD/ /ONE /KEEP/LEFT/< LANE/BRIDGE/AHEAD/ /LOOSE/GRAVEL/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/ /BUMP/AHEAD/ /MAX/SPEED/\*\*MPH/ /TWO/WAY/TRAFFIC/ /SURVEY/PARTY/AHEAD/

\*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

### 2.3 Power.

- Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- **3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

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

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

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

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

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

Effective June 15, 2012

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### SPECIAL NOTE FOR MICROSURFACING

1. **DESCRIPTION.** This work consists of constructing a cold-laid, polymer-modified, emulsified asphalt pavement course to fill ruts or provide an intermediate or surface course for existing pavements. The paving mixture is composed of a polymer-modified emulsified asphalt, crushed aggregate, mineral filler, water, and possibly other additives. Follow the requirements outlined in ASTM D 6372, Standard Practice for Design, Testing, and Construction of microsurfacing, with modifications as found in this note. Apply this material according to the lines, grades, and typical cross-sections in the plans or as established by the Engineer.

Unless otherwise noted, Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition. All applicable portions of the Department's Standard Specifications apply unless specifically modified herein.

### 2. MATERIALS AND EQUIPMENT.

- **2.1 Mineral Filler.** Use Portland Cement, Type I, conforming to Section 801.
- **2.2 Aggregate.** Provide 100-percent crushed aggregate conforming to Sections 804 and 805. Contrary to Subsection 403.03.03, provide polish-resistant aggregate in the asphalt mixture conforming to one of the following requirements:

### Microsurfacing Type A

• 100 percent of total combined aggregate is Class A polish-resistant aggregate.

### **Microsurfacing Type B**

• 100 percent of total combined aggregate is Class B or Class A polish-resistant aggregate.

### **Microsurfacing Type D**

• No polish-resistant aggregate requirements.

Contrary to ASTM D 6372, test sand equivalent according to AASHTO T 176, soundness according to Kentucky Method (KM) 64-610, and a maximum LA abrasion resistance of 35 percent when tested according to AASHTO T 96. Ensure all aggregates satisfy ASTM D 6372 for sand equivalent, soundness, and LA abrasion listed above.

Do not use mineral aggregates that are inherently porous, such as blast-furnace slag, expanded shale, porous limestone, and lightweight aggregates, in this mixture.

**2.3 Water.** Conform to Section 803.

**2.4 Emulsified Asphalt.** The polymer-modified emulsion will be a CQS-1hP or a CQS-1hL latex-modified emulsion conforming to AASHTO M 208 and tested according to T59. Distill sample at 350 °F. In addition, ensure that the emulsified asphalt conforms to the following criteria:

Test
Ductility at 77 °F (AASHTO T 51)

Criteria
40 cm (min)

Ensure the asphalt supplied can be found on the List of Approved Materials.

**2.5 Equipment.** All equipment necessary for the satisfactory performance of the work shall be on hand and approved before the work is permitted to begin. All equipment, tools, and machines used in the performance of this work shall be maintained in satisfactory working condition.

All trucks shall be covered immediately after loading with a cover of canvas or other suitable material. The cover shall lap down along the sides and rear of the truck bed a minimum of 6 in. and be secured by tie downs at a maximum of 5 ft. spacing along the sides and rear of the truck bed. All trucks must be equipped to meet the above requirements prior to commencing hauling operations.

2.6 Mixing Equipment. Produce the mixture in a self-propelled, front-feed, continuous-loading machine equipped with a conveyer-belt aggregate-delivery system and an interconnected, positive-displacement, water-jacketed gear pump and/or a variable displacement computerized rate control pump, to accurately proportion the aggregate and asphalt emulsion. Locate the mineral filler feed so the proper amount of mineral filler is dropped on the aggregate before discharge into the pug mill. Provide a spray bar to completely pre-wet the aggregate dropping down to the pug mill with additive and water before the introduction of the asphalt emulsion. Provide a twin-shaft, continuous-flow, multi-blade pug mill that is a minimum of 49 in. long. Ensure that the blade size and side clearances meet the equipment manufacturer's recommendations. Introduce the emulsion within the first one-third of the mixer length to ensure proper mixing of all materials before exiting the pug mill.

Equip the machine with opposite-side driving stations to allow full control of the machine from either side. Equip the mixer with a remote, forward-speed control at the rear mixing platform so the rear operator can control the forward speed and level of mixture in the paving or rut box. Provide material control devices that are readily accessible and positioned so the amount of each material used can be determined at any time.

Equip the mixing machine with a water pressure system and nozzle-type spray bar to provide a water spray ahead of and outside the spreader box when required. Apply water at a rate that will dampen the surface but not create free-flowing water ahead of the spreader box.

The mixer shall be equipped with a computerized material monitoring system with integrated material control devices that are readily accessible and positioned so the

amount of each material used can be determined at any time. The mixer shall be equipped with a back-up electronic materials counter that is capable of recording running count totals for each material being monitored. The mixer shall include an attached radar ground measuring device or comparable device. Each material control device shall be calibrated prior to each mix application and at the discretion of the Engineer. The computer system shall have the capability to record, display, and print the following information:

- Individual sensor counts for emulsion, aggregate, cement, water and additive
- Aggregate, emulsion, and cement output in pounds per minute
- Ground travel distance
- Spread rate in pounds per square yard
- Percentages of emulsion, cement, water and additive
- Cumulative totals of aggregate, emulsion, cement, water and additive
- Scale factor for all materials

The computer system shall be functional at the beginning of work, and throughout the entire work operation.

- **2.7 Aggregate Equipment.** In an effort to eliminate oversize materials in the finished mat, aggregate shall be screened directly into the trucks. The inspector shall view the screen for oversized aggregate and if it is found to have gaps, it shall be replaced or repaired before continuing to place the material.
- **2.8 Spreading Equipment.** If a leveling or surface course is specified, apply the mixture uniformly by means of a conventional spreader box.

If a rut-fill course is specified, apply the mixture with a 5-6ft width, "V-shaped" rut-filling spreader box. Equip the rut-filling spreader box with a steel strike-off device.

Attach either type of spreader box to the mixer, and equip it with augers mounted on an adjustable shaft to continually agitate and distribute the materials throughout the box. Ensure that the equipment provides sufficient turbulence to prevent the mix from setting in the box or causing excessive build-up or lumps. To prevent loss of the mixture from the box, attach flexible seals, front and rear, in contact with the road. Operate the spreading equipment in such a manner as to prevent the loss of the mixture on superelevated curves.

For surface courses, attach a secondary strike-off device to the spreader. Use neoprene rubber drags to obtain the desired finish. Replace drags having excessive buildup. Do NOT use burlap drags.

**2.9 Asphalt Distributor.** For the application of the emulsion shall have full circulation spray bar that is adjustable to at least 12 feet wide in 2 feet increments and capable of heating and circulating the emulsion simultaneously, conforming to **Section 406.02.05**. It must have computerized rate control for adjusting and controlling the

application from the cab within 0.01 gallons per square yard increments. The distributor shall also be equipped with a volume measuring device and a thermometer for measuring the emulsion temperature in the tank. For each emulsion application, follow manufactures recommendations for proper nozzle type and adjustment.

**2.10 Calibration Equipment.** Supply all of the equipment, materials, and certified scales necessary to perform the calibration according to Section 3.5 of this note.

### 3. CONSTRUCTION.

**3.1 Preparation and Proportioning of Mixture.** Submit a complete mix design to the Division of Construction and to the Division of Materials, Asphalt Branch and Aggregate Section. Mix design shall be prepared by an approved laboratory, to verify the compatibility of the aggregate, asphalt emulsion, mineral filler, and other additives. Perform the mix design with the same materials that will be used on the project. Ensure that the aggregate that is used in the mix design is listed on the Division of Materials *List of Approved Materials (LAM)* for the type of microsurfacing that is being designed.

Ensure the mix design has a residual asphalt content, by dry weight of aggregate, of 7.0 to 8.5 percent for leveling and surface courses and 6.5 to 8.0 percent for rut-filling mixes. Also ensure the mixture contains no reclaimed materials and a mineral filler content between 0.25 and 2.0 percent by dry weight of aggregate.

In addition to the mix design information required by KM 64-421, provide the following (all percentages are based on the dry weight of aggregate):

- minimum and maximum percentage of water; and
- percentage of mix-set additives, if required.
- county and contract listed

Provide test results from an accredited laboratory that conform to ASTM D 6372.

Submit the mix design and two full 5-gallon buckets of the aggregate blend for the mixture to the Division of Materials for verification according to Subsection 402.03 a minimum of four weeks prior to initial use for testing and approval.

When requested by the Engineer, the Contractor shall calculate the % asphalt content of the mixture from the equipment computer display readings. If no request is made by the Engineer, the Contractor shall calculate the % asphalt content of the mixture from the equipment computer display readings randomly, a minimum of 3 times a day. The quality control tolerances from the mix design is  $\pm 0.5\%$ .

**3.2 Mixture Gradation.** When performing a single microsurface application, conform to the Type II requirements that are listed in Table 1 for surface and leveling courses. When performing a double microsurface application, conform to the Type III requirements that are listed in Table 2 for leveling and rut-fill courses.

- **3.3 Weather and Seasonal Limitations.** In addition to the applicable requirements in ASTM D 6372, apply the mixture only when rain is not imminent and the existing pavement surface temperature is at least 50 °F. The ambient temperature shall be at least 50 °F and rising and no forecasted temperatures shall be below 40 °F within a 24 hour period after placement. Do not place the material between September 30 and May 15.
- **3.4 Surface Preparation.** All surfaces intended for application shall be thoroughly cleaned of all vegetation, loose material, dirt, or other objectionable material immediately before application of emulsion using a mechanical sweeper and wire hand brooms.

Remove pavement markers at least 24 hours in advance of paving operation and fill the areas with microsurface material, asphalt material, or other approved material meeting the engineer's specifications. Remove any loose crack sealing material in advance of paving operation.

Remove existing thermoplastic and/or excessive paint markings prior to application.

Contrary to Section 406, apply an approved tack coat material diluted to 2 to 1 at rate of 0.03 to 0.06 gal/yd<sup>2</sup>. Application rate shall be adjusted based on the surface texture and/or porosity. Do not apply tack coat on top of a rut fill or leveling course prior to placing surface course. For a double microsurface treatment, do no not apply a tack coat between the first and second application. Apply tack coat only to surfaces that will be covered by the application in the same day. The tack coat material shall be a polymer-modified emulsion CQS-1HP or CSS-1H emulsion.

- **3.5** Calibration. Before mix production, calibrate the mixing equipment in the presence of the Engineer. Generate documentation for the Engineer, including individual calibrations of each material at various settings. Perform a new calibration if there is any change in the mix design. Following calibration and adjustments for changes in the mix design, do not make any further calibration adjustments to the mixing equipment without the Engineer's approval.
- **3.6 Application.** Apply the paving mixture in a manner to fill minor surface irregularities and achieve a uniform surface without causing streaking, drag marks, skips, lumps, or tears. Carry a sufficient amount of material in the spreader box at all times to ensure complete and uniform coverage. Avoid overloading the spreader box. Do not allow lumping, balling, or unmixed aggregate in the spreader box.

If a rut-fill course is specified, apply enough material to fill the wheel paths without excess crowning (overfilling). An excess crown is defined as 1/8 in. after 24 h of traffic compaction. Apply rut-fill courses in widths from 5 to 6 ft for each wheel path. If rut depth exceeds 1.0 inches, apply rut fill course in multiple layers. Provide a smooth, neat seam where two rut-fill passes meet. Restore the design profile of the pavement cross-section. Feather the edges of the rut-fill course to minimize the use of excess material. Rut fill course shall not exhibit drag marks or tears greater than 1 inch in width, ½ inch in

depth and greater than 12 inches in length. Rut fill course shall not exhibit excessive flushing or excessive roughness.

If a leveling course is specified, ensure the material covers the entire surface area. The leveling course may exhibit minor raveling upon opening to traffic but shall not exhibit any continued raveling after the first four hours to traffic. Leveling course shall not exhibit drag marks or tears greater than ½ inch wide, ¼ inch in depth and greater than 12 inches in length. Leveling course shall not exhibit flushing or excessive roughness.

If a leveling course is specified for a double layer of microsurfacing, utilize a type III aggregate and apply the paving mixture at a minimum dry aggregate rate of 18 lb/yd². If a type II mixture is specified to be use as minor leveling, apply the paving mixture at a minimum dry aggregate rate of 14 lb/yd². If a surface course is specified over a leveling course for a double layer, utilize a type II aggregate and apply the paving mixture at a minimum dry aggregate rate of 18 lb/yd². If a single layer surface course is specified, utilize a type II aggregate and apply the paving mixture at a dry aggregate rate of 24 lb/yd². For leveling course provide an even layer creating a neat center seam with no overlap where two passes meet. For surface courses, provide a smooth, neat center seam with a maximum overlap of 2 inches where two passes meet.

Construct surface courses wide enough to cover the outside edges of rut-fill and leveling courses. Maintain straight edge lines along curbs and shoulders. Do not allow runoff in these areas. Ensure that lines at the intersections are straight. Immediately remove excess material from the ends of each run.

Use squeegees and lutes to spread the mixture in areas inaccessible to the spreader box and areas requiring hand-spreading. With the Engineer's approval, adjust the mix-set additive to provide a slower setting time if hand-spreading is needed. Do not adjust the water content. If hand-spreading, pour the mixture in a small windrow along one edge of the surface to be covered, and spread it uniformly by a hand squeegee or lute. Do not over spray the mixture with water by the use of a hose or other equipment.

Ensure the material cures at a rate that will permit traffic on the pavement within one hour of placement or time specified by the engineer.

If the final surface is not uniform in texture, free from streaks, drag marks, lumps, or tears, stop applying mixture and correct the problem. Do not resume work until the engineer is satisfied the problem has been corrected. If surface correction is necessary, due to traffic, rain, or other causes during construction of the project, repair areas of the surface.

If excessive flushing or bleeding occurs within 30 to 60 days after the treatment is applied, corrective work will be required at the contractor's expense.

**3.7** Crossovers and Intersections. Prior to allowing traffic, the contractor shall broadcast microsurfacing sand or other approved material as directed by the engineer

over turnouts, intersections, and/or crossovers as the microsurface material cures. Once the microsurfacing material has properly cured, sweep all loose sand and debris from the intersection/crossover and properly dispose of the material. Contractor shall repair any damaged areas prior to project completion.

- 3.8 Curb and Gutter/Sidewalk Ramps. When applying microsurface mixture to curb and gutter/sidewalk ramp areas, ensure the final surface is flush with the edge of the gutter pan and/or ramp. The final surface shall comply with all ADA sidewalk ramp requirements as determined by the Engineer. Failure to satisfy these requirements shall result in corrective work at no expense to the Department.
- 3.9 Transverse Joints. All transverse joints shall be clean and straight. At the start of each day(s) of production and at approaches, place a 5ft minimum width of paper/plastic on the existing pavement. Cover all bridge ends with paper/plastic to ensure no microsurfacing is placed on the bridge. Remove the paper/plastic once the microsurfacing has cured and dispose the excess material from the project site.

Place and spread all courses as continuously as possible, keeping the number of construction transverse joints to a minimum. When a construction transverse joint is necessary, the paving box must be full of material. Do not spread (drag) the remaining material, emptying the paving box. Once the end of the mat and a straight line is created, the paving box shall be lifted and the remaining material shall be removed and disposed of properly off the project limits.

### 4.0 ACCEPTANCE AND VERIFICATION.

**4.1 Proportion and Spread Rate.** Maintain continuous control of the emulsified asphalt-to-dry aggregate proportion to conform to the approved mix design within a tolerance of ± 2 gal/ton. Ensure the spread rate satisfies the specified quantity of aggregate per square yard on a dry-weight basis.

The Contractor shall calculate the yield of the course being placed from the equipment computer display readings. If no request is made by the Engineer, the Contractor shall calculate the yield of the course being placed from the equipment computer display readings randomly, a minimum of 3 times a day and at the end of each day(s) of production.

The Department will base acceptance of the emulsified asphalt-to-dry aggregate proportion and the spread rate on the Engineer's summary of daily quantities. The Department will accept a day's application of microsurfacing provided the Engineer's summary indicates conformance with the requirements for proportion and spread rate.

**4.2 Emulsified Asphalt.** Submit samples of the polymer-modified emulsion to the Division of Materials for testing at a frequency of one sample per lot.

- **4.3 Mixture Gradation.** The Department will perform combined-gradation determinations on the aggregates used in the microsurfacing at a frequency of one per day of production. When the combined–gradation fails to meet the master range for the type of aggregate, the Department will apply a reduction on the invoice price of the aggregate as listed in Table 1 and Table 2. Contrary to section 804.10 the Department will impose a reduction in payment no matter the quantities used.
- **4.4 Documentation.** The Contractor shall maintain a daily report including the following information:
  - Aggregate used, ton (dry)
  - Microsurfacing emulsion used, ton
  - Bituminous Materials for Tack Coat, ton
  - Cement used, ton
  - Water used in mixture, gallons
  - Additive used in mixture, gallons
  - Moisture Content
  - Yield, dry aggregate lb/yd2
  - Square yards placed
  - Rate of Application
- 4.5 Test Strip Construction. Prior to production application, the Contractor shall place a test section 1,000 ft. in length and one lane wide. The test strip shall demonstrate the mix and set time of the material and the ability to perform under traffic. If handwork will be required on the project, include handwork in the test strip. The test strip shall be placed at the same general time of day as paving is to take place (night or day), and under similar ambient conditions. The test strip shall be able to carry normal traffic within 60 minutes. If normal traffic cannot be carried, the emulsion or mixture must be adjusted and another test strip will be required. Upon approval of the test strip, the Contractor can begin application. Payment will only be made for the first test strip.
- 5. MEASUREMENT. The Department will pay for surface and leveling microsurfacing courses by the number of square yards, complete and accepted in place. The Department will pay for microsurfacing rut-fill course by the number of tons of dry aggregate used, complete and accepted in place. The weight of the dry aggregate used will be based on the calibrated weight of aggregate provided by the paving machine.

The Department will base the width of the pavement course on the width shown on the plans or as directed by the Engineer. The Department will measure the length along the centerline of each roadway or ramp.

The Department will not measure the surface preparation for payment and will consider it incidental to the microsurfacing.

The Department will not measure asphalt material for tack for payment and will consider it incidental to microsurfacing

**6. PAYMENT.** The Department will consider the unit bid price per square yard to include all labor, materials, and equipment necessary to complete the work. The Department will make payment for the completed and accepted quantities according to the following:

| Emulsified As  | Emulsified Asphalt Price Adjustment Schedule |          |             |             |             |        |  |  |  |  |  |  |
|--|--|----------|-------------|-------------|-------------|--------|--|--|--|--|--|--|
| Test   | Specification                                | 100% Pay | 90% Pay     | 80% Pay     | 50% Pay     | 0% Pay |  |  |  |  |  |  |
| CQS-1hP/CQS-1hL                                      |  |          |             |             |             |        |  |  |  |  |  |  |
| Viscosity, 77 ° F (SFS)                              |  |          | 15 - 17     | 12 – 14     | 9 - 11      | ≤8     |  |  |  |  |  |  |
| AASHTO T 59  | 20 - 100                                     | 18 - 110 | 111 - 120   | 121 - 130   | 131 - 140   | ≥ 141  |  |  |  |  |  |  |
| Residue Penetration, 77 °F                           |  |          | 34 - 36     | 31 - 33     | 28 - 30     | ≤ 27   |  |  |  |  |  |  |
| AASHTO T 59  | 40 - 90                                      | 37 - 98  | 99 - 108    | 109 - 120   | 121 - 130   | ≥ 131  |  |  |  |  |  |  |
| Softening Point, AASHTO T 53                         | ≥ 135  | ≥ 130    | 127 - 134   | 128 - 129   | 126 - 127   | ≤ 125  |  |  |  |  |  |  |
| Distillation Residue, % AASHTO T 59, 350°F           | ≥ 62.0                                       | ≥ 60.0   | 59.5        | 59.0        | 58.5        | ≤ 58.4 |  |  |  |  |  |  |
| Sieve, % AASHTO T 59                                 | ≤ 0.1  | ≤ 0.3    | 0.31 - 0.45 | 0.46 - 0.60 | 0.61 - 0.75 | ≥ 0.76 |  |  |  |  |  |  |
| Residue Elastic Recovery @ 50 ° F, %<br>AASHTO T 301 | ≥ 60.0                                       | ≥ 58.0   | 57.0        | 56.0        | 55.0        | ≤ 54.9 |  |  |  |  |  |  |
| Residue Ductility @ 77 ° F, cm                       | ≥ 40   | ≥ 38     | 37          | 36          | 35          | ≥ 34   |  |  |  |  |  |  |

TABLE 1

|           |        |        |               | ITIDL      |             |         |            |         |
|-----------|--------|--------|---------------|------------|-------------|---------|------------|---------|
|           |        | GRAI   | <b>DATION</b> |            |             | CING TY | PE II      |         |
|           |        |        |               | SA         | ND          |         |            |         |
| Payment   |        |        | Sieve         | Size-Perce | ent Passing | 5       |            |         |
| Reduction | 3/8    | No. 4  | No. 8         | No. 16     | No. 30      | No. 50  | No.<br>100 | No. 200 |
| 0%        | 100    | 90-100 | 60-90         | 40-70      | 25-50       | 15-30   | 10-21      | 5-15    |
| 10%       |        |        | 58-59         | 38-39      | 23-24       | 13-14   | 8-9        | 4       |
| 10%       | 98-100 | 88-89  | 91-92         | 71-72      | 51-52       | 31-32   | 22-23      | 16      |
| 20%       |        |        | 57            | 37         | 22          | 12      | 7          | 3       |
| 20%       | 97     | 87     | 93            | 73         | 53          | 33      | 24         | 17      |
| 30%       |        |        | 56            | 36         | 21          | 11      | 6          | 2       |
| 30%       | 96     | 86     | 94            | 74         | 54          | 34      | 25         | 18      |
| 50%       |        |        | 55            | 35         | 20          | 10      | 5          | 1       |
| 50%       | 95     | 85     | 95            | 75         | 55          | 35      | 26         | 19      |

TABLE 2

|           |        | CD AD  | ATTANI | MICDO      | CITIDE       | OFFICE PRES | DE III |         |
|-----------|--------|--------|--------|------------|--------------|-------------|--------|---------|
|           |        | GRAD   | ATION  | - MICRO    | <b>SURFA</b> | CING TY     | PE III |         |
|           |        |        |        | SA         | ND           |             |        |         |
| Payment   |        |        | Sieve  | Size-Perce | ent Passing  | 5           |        |         |
|           |        |        |        |            |              |             | No.    |         |
| Reduction | 3/8    | No. 4  | No. 8  | No. 16     | No. 30       | No. 50      | 100    | No. 200 |
| 0%        | 100    | 70-100 | 45-70  | 28-50      | 19-34        | 12-25       | 7-18   | 5-15    |
| 10%       |        |        | 43-44  | 26-27      | 17-18        | 10-11       | 5-6    | 4       |
| 10%       | 98-100 | 68-69  | 71-72  | 51-52      | 35-36        | 26-27       | 19-20  | 16      |
| 20%       |        |        | 42     | 25         | 16           | 9           | 4      | 3       |
| 20%       | 97     | 67     | 73     | 53         | 37           | 28          | 21     | 17      |
| 30%       |        |        | 41     | 24         | 15           | 8           | 3      | 2       |
| 30%       | 96     | 66     | 74     | 54         | 36           | 29          | 22     | 18      |
| 50%       |        |        | 40     | 23         | 14           | 7           | 2      | 1       |
| 50%       | 95     | 65     | 75     | 55         | 35           | 30          | 23     | 19      |

If the Department determines that the minimum rate of application has not been obtained for each day of production, then the Department will reduce the bid payment as according to Tables 3, 4, and 5 listed below.

Table 3

| Payment Based on Rate of<br>Application for 18 lb/yd <sup>2</sup> |              |  |  |  |  |  |  |
|---|--------------|--|--|--|--|--|--|
| Rate of Application of  | Reduction of |  |  |  |  |  |  |
| Per Day of Production   | Payment      |  |  |  |  |  |  |
| (lb/sy)   | (%)          |  |  |  |  |  |  |
| 18 and Greater  | 100          |  |  |  |  |  |  |
| 17.9 - 17.5   | 95           |  |  |  |  |  |  |
| 17.4 - 17.0   | 90           |  |  |  |  |  |  |
| 16.9 - 16.5   | 80           |  |  |  |  |  |  |
| 16.4 - 16.0   | 70           |  |  |  |  |  |  |
| 15.9 and Below  | 50           |  |  |  |  |  |  |

Table 4

| Payment Based or                      | Rate of      |  |  |  |  |  |  |
|---------------------------------------|--------------|--|--|--|--|--|--|
| Application for 14 lb/yd <sup>2</sup> |              |  |  |  |  |  |  |
| Rate of Application of                | Reduction of |  |  |  |  |  |  |
| Per Day of Production                 | Payment      |  |  |  |  |  |  |
| (lb/sy)                               | (%)          |  |  |  |  |  |  |
| 14 and Greater                        | 100          |  |  |  |  |  |  |
| 13.9 - 13.5                           | 95           |  |  |  |  |  |  |
| 13.4 - 13.0                           | 90           |  |  |  |  |  |  |
| 12.9 - 12.5                           | 80           |  |  |  |  |  |  |
| 12.4 - 12.0                           | 70           |  |  |  |  |  |  |
| 11.9 and Below                        | 50           |  |  |  |  |  |  |

Table 5

| Payment Based or       | Rate of         |
|------------------------|-----------------|
| Application for 2      | 24 lb/yd²       |
| Rate of Application of | Reduction<br>of |
| Per Day of Production  | Payment         |
| (lb/sy)                | (%)             |
| 24 and Greater         | 100             |
| 23.9 - 23.5            | 95              |
| 23.4 - 23.0            | 90              |
| 22.9 - 22.5            | 80              |
| 22.4 - 22.0            | 70              |
| 21.9 and Below         | 50              |

| Code    | Pay Item                               |
|---------|--|
| 40173   | Microsurfacing-Surface Course - Type A |
| 24957EC | Microsurfacing-Surface Course - Type B |
| 24958EC | Microsurfacing-Surface Course - Type D |
| 21652EN | Microsurfacing-Leveling Course         |
| 24515EC | Microsurfacing-Rut Fill Course         |

Pay Unit

Square Yard Square Yard

Square Yard Square Yard

Ton

February 2021

# 2020 KENTUCKY STANDARD DRAWINGS

| CURVE WIDENING AND SUPERELEVATION TRANSITIONS | RGS-001-07 |
|---|------------|
| SUPERELEVATION FOR MULTILANE PAVEMENT         | RGS-002-06 |
| MISCELLANEOUS STANDARDS                       | RGX-001-06 |
| APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT   | RPM-110-07 |
| LANE CLOSURE TWO-LANE HIGHWAY                 | TTC-100-04 |
| LANE CLOSURE MULTI-LANE HIGHWAY CASE I        | TTC-115-04 |
| LANE CLOSURE MULTI-LANE HIGHWAY CASE II       | TTC-120-04 |
| SHOULDER CLOSURE                              | TTC-135-02 |
| PAVEMENT CONDITION WARNING SIGNS              | TTD-125-02 |
| MOBILE OPERATION FOR PAINT STRIPING CASE III  | TTS-110-02 |
| MOBILE OPERATION FOR PAINT STRIPING CASE IV   | TTS-115-02 |
| CURB AND GUTTER, CURBS AND VALLEY GUTTER      | RPM-100-11 |

## **PART III**

# EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

### Contract ID: 242072 Page 60 of 67

# 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: 242072 Page 61 of 67

### **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

BRECKINRIDGE COUNTY 014GR23P072

### **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: <a href="https://www.eProcurement.ky.gov">https://www.eProcurement.ky.gov</a>.

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.

Contract ID: 242072 Page 63 of 67

# EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

# FEDERAL MINIMUM WAGE

**\$7.25** 

PEK HUUH

**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.



### **PART IV**

## **INSURANCE**

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

current edition

# **PART V**

# **BID ITEMS**

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242072

### **PROPOSAL BID ITEMS**

**Report Date** 12/21/23

| LINE | BID CODE | ALT | DESCRIPTION                                  | QUANTITY  | UNIT | <b>UNIT PRIC</b> | FP | <b>AMOUNT</b> |
|------|----------|-----|--|-----------|------|------------------|----|---------------|
| 0010 | 06510    |     | PAVE STRIPING-TEMP PAINT-4 IN (MICROSURFACE) | 11,000.00 | LF   |                  | \$ |               |
| 0020 | 21652EN  |     | MICROSURFACING-LEVELING COURSE               | 31,671.00 | SQYD |                  | \$ |               |
| 0030 | 24957EC  |     | MICROSURFACING-SURFACE COURSE - TYPE B       | 25,420.00 | SQYD |                  | \$ |               |
| 0040 | 24958EC  |     | MICROSURFACING-SURFACE COURSE -<br>TYPE D    | 4,545.00  | SQYD |                  | \$ |               |

Section: 0002 - THINLAY

Section: 0001 - MICROSURFACE

| LINE | BID CODE   | ALT | DESCRIPTION                                | QUANTITY  | UNIT | <b>UNIT PRIC</b> | FP | <b>AMOUNT</b> |
|------|------------|-----|--|-----------|------|------------------|----|---------------|
| 0050 | 00190      |     | LEVELING & WEDGING PG64-22                 | 70.00     | TON  |                  | \$ |               |
| 0060 | 02676      |     | MOBILIZATION FOR MILL & TEXT (KY 79)       | 1.00      | LS   |                  | \$ |               |
| 0070 | 02676      |     | MOBILIZATION FOR MILL & TEXT (US 60)       | 1.00      | LS   |                  | \$ |               |
| 0080 | 06510      |     | PAVE STRIPING-TEMP PAINT-4 IN (THINLAY)    | 5,500.00  | LF   |                  | \$ |               |
| 0090 | 21653ES403 |     | CL2 ASPH SURF NO.4D PG64-22                | 187.00    | TON  |                  | \$ |               |
| 0100 | 24888EC    |     | CL2 ASPH SURF NO.4B PG64-22                | 1,050.00  | TON  |                  | \$ |               |
| 0110 | 24964EC    |     | FINE MILLING                               | 29,965.00 | SQYD |                  | \$ |               |
| 0120 | 24970EC    |     | ASPHALT MATERIAL FOR TACK NON-<br>TRACKING | 12.00     | TON  |                  | \$ |               |

Section: 0003 - ROADWAY

| LINE | BID CODE | ALT | DESCRIPTION                        | QUANTITY  | UNIT | <b>UNIT PRIC</b> | FP | <b>AMOUNT</b> |
|------|----------|-----|------------------------------------|-----------|------|------------------|----|---------------|
| 0130 | 02562    |     | TEMPORARY SIGNS                    | 600.00    | SQFT |                  | \$ |               |
| 0140 | 02650    |     | MAINTAIN & CONTROL TRAFFIC (KY 79) | 1.00      | LS   |                  | \$ |               |
| 0150 | 02650    |     | MAINTAIN & CONTROL TRAFFIC (US 60) | 1.00      | LS   |                  | \$ |               |
| 0160 | 02671    |     | PORTABLE CHANGEABLE MESSAGE SIGN   | 2.00      | EACH |                  | \$ |               |
| 0170 | 02775    |     | ARROW PANEL                        | 2.00      | EACH |                  | \$ |               |
| 0180 | 06510    |     | PAVE STRIPING-TEMP PAINT-4 IN      | 15,000.00 | LF   |                  | \$ |               |
| 0190 | 06531    |     | PAVE STRIPING REMOVAL-6 IN         | 25,200.00 | LF   |                  | \$ |               |
| 0200 | 06533    |     | PAVE STRIPING REMOVAL-12 IN        | 229.00    | LF   |                  | \$ |               |
| 0210 | 06542    |     | PAVE STRIPING-THERMO-6 IN W        | 13,700.00 | LF   |                  | \$ |               |
| 0220 | 06543    |     | PAVE STRIPING-THERMO-6 IN Y        | 17,000.00 | LF   |                  | \$ |               |
| 0230 | 06547    |     | PAVE STRIPING-THERMO-12 IN Y       | 259.00    | LF   |                  | \$ |               |
| 0240 | 06565    |     | PAVE MARKING-THERMO X-WALK-6 IN    | 200.00    | LF   |                  | \$ |               |
| 0250 | 06568    |     | PAVE MARKING-THERMO STOP BAR-24IN  | 50.00     | LF   |                  | \$ |               |
| 0260 | 06574    |     | PAVE MARKING-THERMO CURV ARROW     | 31.00     | EACH |                  | \$ |               |
| 0270 | 06575    |     | PAVE MARKING-THERMO COMB ARROW     | 2.00      | EACH |                  | \$ |               |
| 0280 | 23071EN  |     | OVERBAND CRACK SEALING             | 4,500.00  | LB   |                  | \$ |               |
| 0290 | 24880EC  |     | REMOVE PAVEMENT MARKER             | 350.00    | EACH |                  | \$ |               |

BRECKINRIDGE COUNTY 014GR23P072

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### **PROPOSAL BID ITEMS**

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**Report Date** 12/21/23

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### Section: 0004 - DEMOBILIZATION

| LINE | BID CODE | ALT DESCRIPTION | QUANTITY | UNIT | <b>UNIT PRIC</b> | FP AMOUNT |
|------|----------|-----------------|----------|------|------------------|-----------|
| 0300 | 02569    | DEMOBILIZATION  | 1.00     | LS   |                  | \$        |