

CALL NO. <u>343</u> CONTRACT ID. <u>122208</u> <u>MADISON COUNTY</u> FED/STATE PROJECT NUMBER <u>FD05 076 0627 000-001</u> DESCRIPTION <u>BOONESBORO ROAD (KY 627)</u> WORK TYPE <u>ASPHALT RESURFACING</u> PRIMARY COMPLETION DATE <u>11/15/2012</u>

LETTING DATE: <u>May 18, 2012</u>

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME May 18, 2012. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

DEFERRED PAYMENT

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

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SCOPE OF WORK

CONTRACT ID - 122208

ADMINISTRATIVE DISTRICT - 07

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - MADISON PCN - MP07606271201 FD05 076 0627 000-001 BOONESBORO ROAD (KY 627) FROM INTERSECTION WITH US 25-KY 3055 (MP 0.000) EXT. NORTHERLY TO INTERSECT. WITH OLD BOONESBORO ROAD NO. 1 (MP 0.635), A DISTANCE OF 0.64 MILES. ASPHALT RESURFACING. GEOGRAPHIC COORDINATES LATITUDE 37^50'35" LONGITUDE 84^19'46" AVERAGE DAILY TRAFFIC - 6369 AVERAGE MAINLINE WIDTH - 35.0 FEET

COMPLETION DATE(S): COMPLETION DATE - November 15, 2012 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/contract)

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 is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

<u>REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN</u> <u>ENTITY</u>

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 <u>KRS 14A.9-010</u> to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under <u>KRS 14A.9-030</u> 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 <u>KRS 14A.9-010</u>, the foreign entity should identify the applicable exception. Foreign entity is defined within <u>KRS 14A.1-070</u>.

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 <u>https://secure.kentucky.gov/sos/ftbr/welcome.aspx</u>.

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 <u>kytc.projectquestions@ky.gov</u>. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

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

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of

(<u>www.transportation.ky.gov/contract</u>). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

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. (See attachment)

10/18/2011

Steven L. Beshear

Governor



Commonwealth of Kentucky Finance and Administration Cabinet

OFFICE OF THE SECRETARY Room 383, Capitol Annex 702 Capital Avenue Frankfort, KY 40601-3462 (502) 564-4240 Fax (502) 564-6785 Lori H. Flanery Secretary

SECRETARY'S ORDER 11-004

FINANCE AND ADMINISTRATION CABINET

Vendor Document Disclosure

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary to conduct a review of the records of a private vendor that holds a contract to provide goods and/or services to the Commonwealth; and

WHEREAS, in order to promote accountability and transparency in governmental operations, the Finance and Administration Cabinet believes that a mechanism should be created which would provide for review and assistance to an Executive Branch agency if said agency cannot obtain access to documents that it deems necessary during the course of an audit, investigation or any other inquiry by an Executive Branch agency that involves the review of documents; and

WHEREAS, KRS 42.014 and KRS 12.270 authorizes the Secretary of the Finance and Administration Cabinet to establish the internal organization and assignment of functions which are not established by statute relating to the Finance and Administration Cabinet; further, KRS Chapter 45A.050 and 45A.230 authorizes the Secretary of the Finance and Administration Cabinet to procure, manage and control all supplies and services that are procured by the Commonwealth and to intervene in controversies among vendors and state agencies; and

NOW, THEREFORE, pursuant to the authority vested in me by KRS 42.014, KRS 12.270, KRS 45A.050, and 45A.230, I, Lori H. Flanery, Secretary of the Finance and Administration Cabinet, do hereby order and direct the following:

- I. Upon the request of an Executive Branch agency, the Finance and Administration Cabinet ("FAC") shall formally review any dispute arising where the agency has requested documents from a private vendor that holds a state contract and the vendor has refused access to said documents under a claim that said documents are not directly pertinent or relevant to the agency's inquiry upon which the document request was predicated.
- II. Upon the request of an Executive Branch agency, the FAC shall formally review any situation where the agency has requested documents that the agency deems necessary to



conduct audits, investigations or any other formal inquiry where a dispute has arisen as to what documents are necessary to conclude the inquiry.

- III. Upon receipt of a request by a state agency pursuant to Sections I & II, the FAC shall consider the request from the Executive Branch agency and the position of the vendor or party opposing the disclosure of the documents, applying any and all relevant law to the facts and circumstances of the matter in controversy. After FAC's review is complete, FAC shall issue a Determination which sets out FAC's position as to what documents and/or records, if any, should be disclosed to the requesting agency. The Determination shall be issued within 30 days of receipt of the request from the agency. This time period may be extended for good cause.
- IV. If the Determination concludes that documents are being wrongfully withheld by the private vendor or other party opposing the disclosure from the state agency, the private vendor shall immediately comply with the FAC's Determination. Should the private vendor or other party refuse to comply with FAC's Determination, then the FAC, in concert with the requesting agency, shall effectuate any and all options that it possesses to obtain the documents in question, including, but not limited to, jointly initiating an action in the appropriate court for relief.
- V. Any provisions of any prior Order that conflicts with the provisions of this Order shall be deemed null and void.

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 Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

SURFACING AREAS

The Department estimates the mainline surfacing width to be 25-35 feet. The Department estimates the total mainline area to be surfaced to be 12,482 square yards. The Department estimates the shoulder width to be 2-10 feet on each side. The Department estimates the total shoulder area to be surfaced to be 7,400 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-110-05 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 A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

SPECIAL NOTES FOR SHOULDER FAILURE REPAIR

Repair locations listed on the summary are approximate only. The Engineer will determine actual repair locations and dimensions at the time of construction. Prior to milling and/or resurfacing, saw cut the existing pavement, asphalt surface, base, DGA, and PCC pavement (if present). Excavate to an approximate depth of 10 inches below the existing pavement surface level. Use all possible care to avoid damaging existing culvert pipes and any existing underground utilities. Repair or restore any damaged items at no additional cost to the Department. Remove and dispose of all materials off the Right-of-way at sites obtained by the Contractor at no additional cost to the Department.

On the same day trench is excavated, backfill the excavated area with 6 inches of Crushed Limestone Size No. 23 wrapped on the bottom and sides in Table III Geotextile Fabric. Backfill the remaining area with Class 2 Asphalt Base 1.0D PG64-22 in one course up to the existing pavement surface. Compact the asphalt base to the compaction required in Section 403.03.10. Seal the asphalt base with leveling and wedging. Perform all base failure repairs in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not mill or place new asphalt surface over repaired base failure areas until a minimum of 7 calendar days have elapsed after placement of the final course of asphalt base. After a minimum of 7 calendar days and when the Engineer determines the base failure repair areas have sufficiently stabilized, begin milling and/or resurfacing operations. Prior to milling and/or constructing the new asphalt surface, level and wedge any settlement of the repair areas.

The bidder must draw conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and will not consider any claim for additional compensation if the materials encountered that are not in accord with the classification shown.

Accept payment at the Contract unit prices per square yard for Shoulder Failure Repair and per ton for Leveling and Wedging as full compensation for all labor, materials, equipment, and incidentals for saw cutting pavement and excavating and disposing of all materials; furnishing and placing crushed limestone stone wrapped in geotextile fabric; furnishing and placing asphalt base up to the pavement boundary; leveling and wedging until the repair areas stabilize; and all other items necessary to complete the work according to these notes to the satisfaction of the Engineer.

SPECIAL NOTES FOR INTERSECTION MILLING

At the intersection at mile point 0.220 mill an area 15 feet wide by 200 feet long by 4 inches in depth as directed by the Engineer. On the same day of milling, backfill the excavated area with 4 inches of Class 2 Asphalt Base 1.0D PG64-22 in one course up to the existing pavement surface. Compact the asphalt base to the compaction required in Section 403.03.10. Seal the asphalt base with leveling and wedging. Perform all repairs in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not mill or place new asphalt surface over repaired areas until a minimum of 7 calendar days have elapsed after placement of the final course of asphalt base. After a minimum of 7 calendar days and when the Engineer determines the base failure repair areas have sufficiently stabilized, begin milling and/or resurfacing operations. Prior to milling and/or constructing the new asphalt surface, level and wedge any settlement of the repair areas.

The bidder must draw conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and will not consider any claim for additional compensation if the materials encountered that are not in accord with the classification shown.

Accept payment at the Contract unit prices per ton of Class 2 Asphalt Base 1.0D PG64-22, per ton of Asphalt Pave Milling and Texturing and per ton for Leveling and Wedging as full compensation for all labor, materials, equipment, and incidentals for disposing of all materials; furnishing and placing asphalt base up to the pavement boundary; leveling and wedging until the repair areas stabilize; and all other items necessary to complete the work according to these notes to the satisfaction of the Engineer.

SPECIAL NOTE FOR ASPHALT MIXTURES USING RECLAIMED MATERIALS

** The Contractor may elect to use this Special Note in lieu of Section 409 of the 2008 Standard Specifications for Road and Bridge Construction. The Contractor must notify the Department in writing of which specification they plan to use prior to beginning work.

2012-409.01 DESCRIPTION. Use reclaimed asphalt pavement (RAP) from Department projects or other approved sources in hot mix asphalt (HMA) or warm mix asphalt (WMA) provided mixture requirements are satisfied. For other sources to be approved, satisfactorily establish to the Engineer that the quality of the material is acceptable.

Use either pre-consumer (manufacturer waste or new) or post-consumer reclaimed asphalt shingles (RAS) that are processed such that all the material passes the 3/8-in. sieve. Ensure pre-consumer RAS is free of deleterious materials. Ensure post-consumer RAS does not contain more than 1.5 percent wood by mass or more than 3.0 percent deleterious materials by mass.

2012-409.02 MATERIALS AND EQUIPMENT. Conform to the guidelines in Subsection 2012-409.03.03 for the required grade of asphalt binder which is based on the percentage of effective binder content of the mixture.

2012-409.03 CONSTRUCTION. Keep reclaimed material of different gradation, asphalt binder content, asphalt binder properties, and aggregate properties separate at all times, including when stockpiling and feeding. The Department may approve other methods and procedures provided that all characteristics of the reclaimed material remain uniform.

2012-409.03.01 Polish-Resistant Aggregate. When electing to utilize polish-resistant aggregate in reclaimed material to satisfy a portion of the polish-resistant aggregate requirements for the mix, provide documentation to the Engineer's satisfaction that the reclaimed material consists of the specified amount of polish-resistant aggregate. Provide samples of the reclaimed material to the Engineer for verification testing.

2012-409.03.02 Asphalt Binder Content Adjustment for RAS. Recognizing that not all asphalt binder in RAS is activated during the mixing operation to fully blend with the virgin materials, the Department will reduce the asphalt binder content determined by Kentucky Method 64-405 for RAS by 25 percent.

2012-409.03.03 Preparation of Mixture.

A) Mix Requirements. Conform to the Contract requirements for each mixture produced using reclaimed material consisting of RAP, RAS, or a combination of RAP and RAS. Conform to the following table to select the appropriate grade of virgin asphalt binder to blend with the reclaimed material. Calculate the percentage of effective binder content as follows:

Percentage of effective binder content = [(A*B) + (0.75*C*D)]/E, where

- A = Asphalt binder content of the RAP (%);
- B = Percentage of RAP in the mix (%);
- C = Asphalt binder content of the RAS (%);
- D = Percentage of RAS in the mix (%); and
- E = Effective binder content of the mix (%).

	WITH NOMINAL-MAXIMU	M AGGREGATE SIZE						
OF 0.5 in., 0.38 in., and No. 4 ASPHALT BINDER VIRGIN ASPHALT BINDER								
SPECIFIED IN	RAP							
MIXTURE	< 20 % Effective Binder	21-30 % Effective						
BID ITEM	- Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22	PG 76-22							
	RAS							
	<u> < 13 % Effective Binder </u>	14-20 % Effective						
	Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22								
	RAP and	l RAS						
	≤ 15 % Effective Binder	16-25 % Effective						
	Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22								

ASPHALT MIXTURES	WITH NOMINAL-MAXIMU	M AGGREGATE SIZE						
O	F 1.50 in., 1.00 in., and 0.75 in.							
ASPHALT BINDER	VIRGIN ASPHALT BINDER							
SPECIFIED IN	RAP							
MIXTURE	≤ 25 % Effective Binder	26-35 % Effective						
BID ITEM	Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22	PG 76-22							
	RAS							
	< 16 % Effective Binder	17-24 % Effective						
	Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22								
	RAP and	d RAS						
	<u> < 18 % Effective Binder </u>	19-30 % Effective						
	Content	Binder Content						
PG 64-22	PG 64-22	PG 58-28						
PG 76-22								

B) Mixing. Obtain the Engineer's approval for the method of incorporating the reclaimed material into the mixture. Thoroughly mix the new and reclaimed materials into a uniform mass. Ensure that the final mixture conforms to all requirements of the Contract. Ensure that the moisture content of the final mixture is not detrimental to the handling, hauling, placing, or compacting of the mixture.

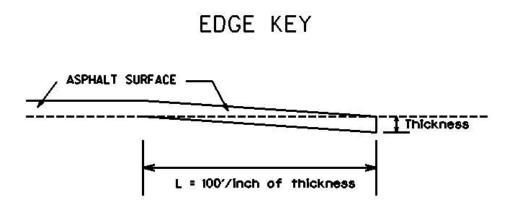
2012-409.04 MEASUREMENT. The Department will not measure reclaimed material separately but will include it in the measured quantities of asphalt mixture produced.

2012-409.05 PAYMENT. The Department will make payment for the completed and accepted quantities under the appropriate pay item for the asphalt mixture being produced.

The Department will not make separate payment for incorporating reclaimed material. The Department will not increase or decrease the Contract unit prices for any asphalt mixture on the project as a result of using, or not using, reclaimed material in the asphalt mixtures.

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 ton for Asphalt Pavement Milling and Texturing, 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.



Thickness = 1.25 Inches

 $\mathbf{L} = \mathbf{\underline{125}} \ \mathbf{LF}$

L= Length of Edge Key

SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within <u>48 hours</u> of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Contrary to Section 408, the Department will retain possession of the material obtained from the milling operations. Deliver this material to the State Maintenance facility in Madison County.

NOTICE TO CONTRACTOR: The Department considers transfer of millings to the state maintenance facility to be a part of the construction project, therefore truck operators are subject to receiving prevailing wages.

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

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.

CHANGEABLE MESSAGE SIGNS

If deemed necessary by the Engineer, the Department will furnish, operate, and maintain Changeable Message Signs.

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.

TRAFFIC SIGNAL LOOPS

Install traffic signal loops according to the Special Notes for Traffic Signal Loop Replacement. Coordinate the placement of the loops with the Engineer.

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.

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 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 $1\frac{1}{2}$ ". 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.

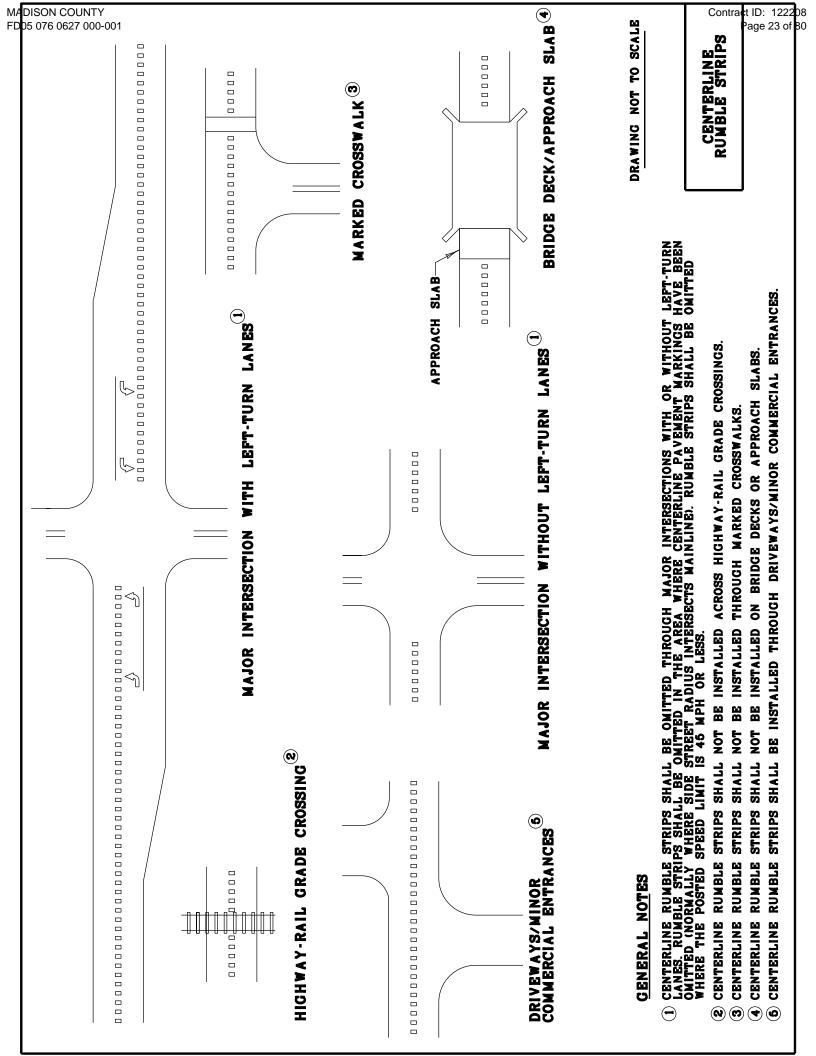
Greater than 4' - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly 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

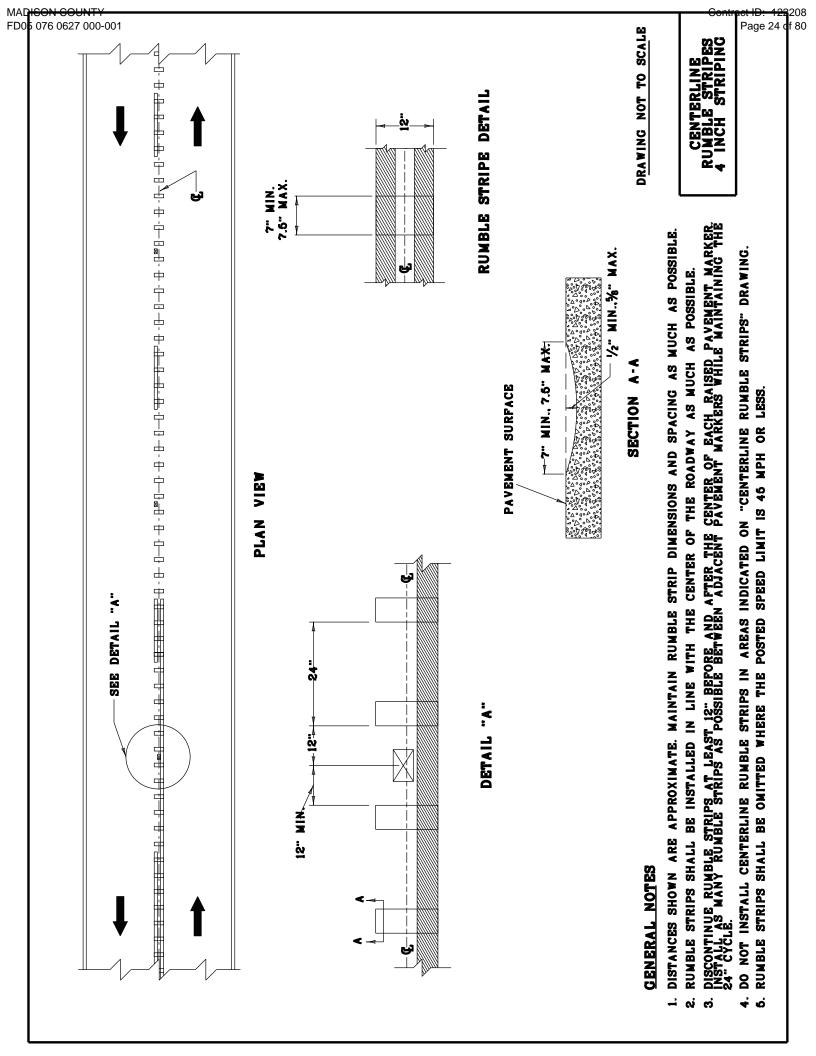
Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the engineer.

SPECIAL NOTE FOR CENTERLINE RUMBLE STRIPES

Construct Centerline Rumble Stripes at the locations listed on the Typical Sections. The milepoints listed are approximate only; the Engineer will determine exact milepoints at the time of construction. Contrary to Section 713, the existing striping pattern may change on the project. See attached drawings for Centerline Rumble Stripe Installation Details. Unless directed otherwise by the Engineer, DO NOT install Centerline Rumble Stripes where the posted speed limit is 45 MPH or less. If questions arise regarding changes in striping patterns or termini of the Centerline Rumble Stripes, obtain guidance from the District Traffic Engineer.

1-3883 Centerline Rumble Stripes 1/18/2012





SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP DETECTORS

Be advised, there are existing traffic signal loop detectors within the construction limits of the subject project. Notify the Engineer in writing, (2) weeks prior to beginning any work. Install and test the new signal loops according to the Special Notes for Traffic Signal Loop Replacement.

The Engineer will contact and maintain liaison with the District Traffic Engineer to coordinate any necessary work.

On projects that include milling of roadways with existing traffic signal loops and if after milling the remnant contents of the existing saw slot (grout, loop wires, backer rod, and/or loop sealant) are not intact and flush with or below the top of the milled portion of the asphalt and with the saw slot completely filled with fines from the milling operation, clear the saw slot of loose remnant contents and refill the saw slot with natural sand. Obtain the Engineer's approval of the stabilized saw slot prior to resurfacing. The Department will not measure for separate payment clearing the saw slot and refilling with natural sand, but shall be incidental to Asphalt Pavement Milling and Texturing.

1-3892 Traffic Signal Loops 01/02/2012

SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP REPLACEMENT

I. DESCRIPTION.

Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard and Supplemental Specifications and Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop(s) and all other work specified as part of this contract.

II. MATERIALS.

Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in these Notes.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Loop Saw Slot and Fill. Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail. Furnish ³/₄" rigid steel conduit according to the Loop Wire Transition Details.

C. Conduit. Furnish ³/₄ inch, 1¹/₄ inch, and 2 inch rigid steel conduit, galvanized inside and out, conforming to the Underwriters' Laboratories requirements for rigid metallic conduit.

D. Wire and Cable. Furnish all wire and cable plainly marked in accordance with the provisions of the National Electrical Code. Furnish #14 AWG loop wire conforming to IMSA Specification 51-7. Furnish #14 AWG Stranded, Paired Conductors, loop lead-in cable conforming to IMSA Specification 19-2-1984.

Furnish durable, easily direct buried, and ultraviolet colorfast underground utility warning tape capable of withstanding years of underground burial conforming to the APWA-ULCC National Color Code with black lettering on a red background that continuously reads "CAUTION: ELECTRIC LINE BURIED BELOW" alternating with a "No Digging" symbol, with nominal dimensions of six (6) inches wide and seven (7) mils thick, a minimum tensile strength of 600 lbs./6" width, color code impregnated with alkali and acid stable, lead-free, organic pigments for direct burial, and nondistorting with no elongation.

E. Junction Boxes. Furnish Junction Boxes conforming to the Junction Box Type B Detail.

Traffic Signal Loop Replacement Page 2 of 8

III. CONSTRUCTION METHODS.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Loop Saw Slot and Fill. Coordinate the work to ensure the loops are installed prior to any milling work being performed. Saw cut pavement according to the dimensions shown on the Loop Details. Do not cut out any sections of pavement by over-sawing any slot.

C. Trenching and Backfilling. Trench for conduit installation not under pavements as shown on the Depth of Conduit Detail. Obtain the Engineer's approval of the conduit installation prior to backfilling. Upon approval by the Engineer backfill the trench and place underground utility warning tape above the conduit as shown on the Depth of Conduit Detail. When backfilling trenches, place the backfill material in compacted lifts of 9 inches or less.

D. Conduit. Install rigid steel conduit encasement for all conductors except for overhead installations, where conductors are run inside poles or cabinets, and induction loop conductors sealed within pavements. Install all conduit in conformance with National Electrical Code. The Department will allow bonded slip joints for joining rigid conduit to junction boxes. When a standard coupling cannot be used, use an approved threaded union coupling.

Ream all conduit ends to remove burrs and sharp edges. Paint damaged portions of the galvanized surfaces and untreated threads resulting from field cuts with an approved rust prohibitive paint.

Lay conduit which will not be subjected to vehicular traffic as shown on the Depth of Conduit Detail at a depth of no less than 18 inches below grade. At crossings under roadway surfaces and shoulders, bore and jack conduit under existing pavement according to the Conduit Under Existing Pavement Detail at a depth of no less than 24 inches below grade. Do not cut any pavement without obtaining the Engineer's prior approval. Bond together conduit, metal poles, and controller cabinet throughout the system to ground rods by using grounding bushings as shown on the Typical Grounding Detail.

E. Junction Boxes. Obtain the Engineer's approval of the proposed junction box locations prior to excavation. Install junction boxes as shown on the Junction Box Type B Detail.

F. Wire and Cable. Remove existing lead-in cable and install specified wire or cable within conduit, saw slot, or overhead as required. Unless otherwise shown on the detail drawings, install all wiring in conformance with the National Electrical Code. Where more than one circuit is installed within the same conduit, affix permanent circuit identification numbers to the wires wherever the wiring emerges, including conduit junction boxes, pole bases, and control cabinets. Permanently label all wires within 6 inches of the input file.

Install loop wire in sawed slots as shown on the Saw Slot detail. Install twisted loop lead in wire as shown on the Standard and Quadrapole Loop Details. Twist unshielded loop wiring in loop amplifier connector harness with three to five turns per foot.

Traffic Signal Loop Replacement Page 3 of 8

Except for the connection of the loop wires to the loop lead-in wires, install all cable runs splice-free from the controller to each loop wire the cable is feeding. Splice loop wires shown as extended to poles or junction boxes into loop lead-in cable at the poles or boxes. Extend loop lead-in cable splice-free from pole or junction box to the controller. Install a separate lead-in cable for each loop; the Department will not accept multiple loops on the same lead-in cable. Place splices in such a manner as to minimize the possibility of water intrusion.

Make underground splices and splices in junction boxes and pole bases with butt splices using copper wire of the correct wire range. Cover butt splices with 3M Mastic Pad or approved equal and tape with 3M brand #33 electrical tape, or approved equal. Cover at least 3 inches past each end of butt splice with the mastic pad. Encase each conductor, including ground, in a separate splice.

Consider the splicing specification listed herein to take precedence over any other splicing specifications listed in the Standard Specifications. Submit all requests for exceptions to splicing requirements to the Engineert for approval by the Division of Traffic Operations prior to installation.

After completing the service and installation, conduct an operating test. Demonstrate that the system operates correctly. Ensure that induction loop conductor circuits test free of shorts and unauthorized grounds and have an insulating resistance of no less than 100 megohms when tested with a 500 volt direct current potential in a reasonably dry atmosphere between conductors and ground. The Department may also conduct its own tests with its own equipment before final acceptance.

G. Final Dressing, Clean Up, and Seeding. After all work is completed, clean work sites and all disturbed areas. Dispose of all waste and debris off the right of way at sites obtained by the Contractor at no additional cost to the Department. Sow all disturbed earthen areas with Seed Mix Type I.

H. Property Damage. Be responsible for all damage to public and/or private property resulting from the work. Upon completion of the work, restore all disturbed highway features and private property in like kind design and materials at no additional cost to the Department.

I. On-Site Inspection. Make a thorough inspection of the site prior to submitting bid and become thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made. The Department will not honor any claims resulting from site conditions.

J. Right-of-Way Limits. The Department has not established exact limits of Right-of-Way. Limit work activities to obvious Right-of-Way and work areas secured by the Department through Consent and Release of the adjacent property owners. Be responsible for all encroachments onto private lands.

Traffic Signal Loop Replacement Page 4 of 8

K. Utility Clearance. Work around and do not disturb existing utilities. The Department does not anticipate that existing utilities will require relocation; however, if utility relocation is required, the utility companies will work concurrently with the Contractor while relocating their facilities.

L. Caution. Consider the information in this proposal and shown on the plans and the type of work listed herein to be approximate. Do not take the information to be an accurate evaluation of the materials and conditions to be encountered during construction. The bidder must draw his own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and will not consider any claims for additional compensation if the conditions encountered are not in accordance with the information shown.

M. Control. Perform all work under this contract under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other's work will be reduced to a minimum. By submitting bid, the Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the work in general harmony and in a satisfactory manner, and his decision shall be final and binding upon the Contractor.

IV. MEASUREMENT.

The Department will measure for payment only the bid items listed. All other items required to complete the construction shall be incidental to the bid items listed.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Conduit. Other than the ³/₄" conduit referenced in the Loop Wire Transition Details, the Department will measure conduit of each type in linear feet. The Department will not measure fittings, expansion joints, grounding wire and bushings, clamps, and weather heads for separate payment, but shall be incidental to the Conduit.

C. Junction Box Type B. The Department will measure Type B Junction Boxes in individual units each. The Department will not measure hardware, bushings, excavation, #57 aggregate, backfilling, restoration of disturbed areas, and seeding and protection for separate payment, but shall be incidental to the Junction Box.

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D. Trenching and backfilling. The Department will measure Trenching and Backfilling in linear feet. The Department will not measure excavation, backfilling materials, underground utility warning tape, restoration of disturbed areas, and seeding and protection for separate payment, but shall be incidental to Trenching and Backfilling.

E. Wire and Cable. The Department will measure wire and cable of each type after twisting in linear feet. The department will not measure twisting, splices, butt splicing materials, and splice boots; cable rings or other hardware required for installing cable; and removal of existing lead-in cable for separate payment, but shall be incidental to the wire or cable.

F. Loop Saw Slot and Fill. The Department will measure Loop Saw Slot and Fill in linear feet. The Department will not measure sawing, cleaning saw slot, loop sealant, backer rod, non-shrink grout, and the ³/₄" conduit referenced in the Loop Wire Transition details for separate payment, but shall be incidental to Loop Saw Slot and Fill.

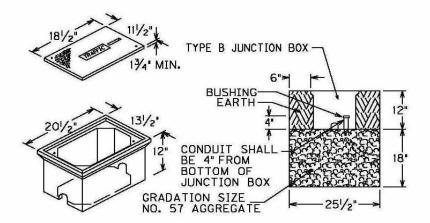
V. PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
04793	Conduit 1 ¹ /4"	Linear Foot
04795	Conduit 2"	Linear Foot
04811	Junction Box Type B	Each
04820	Trenching and Backfilling	Linear Foot
04830	Loop Wire	Linear Foot
04850	Cable-No. 14/1 Pair	Linear Foot
04895	Loop Saw Slot and Fill	Linear Foot

The Department will consider payment as full compensation for all work required under these notes and the Standard Specifications.

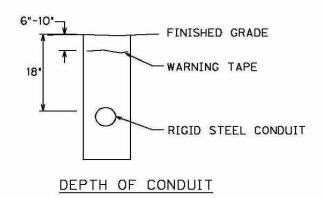
1-3894 Traffic Signal Loop Replacement 03/19/2012

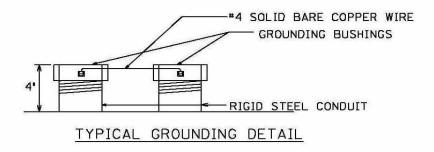
Traffic Signal Loop Replacement Page 6 of 8



JUNCTION BOXES SHALL CONFORM TO ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY FOR TIER 15. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.05 IN ACCORDANCE WITH ASTM CIO28. SHALL BE MARKED 'TRAFFIC" AND BE ATTACHED WITH % STAINLESS HEX BOLTS. JUNCTION BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.

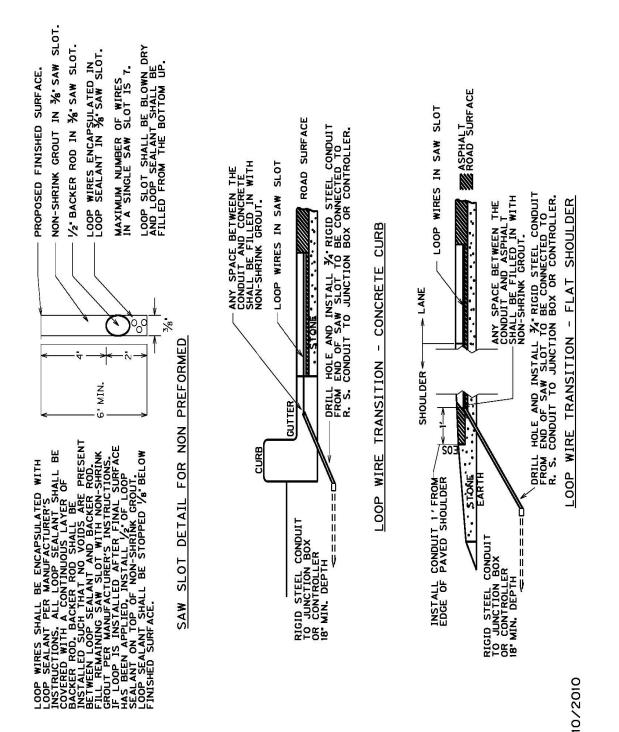
JUNCTION BOX TYPE B



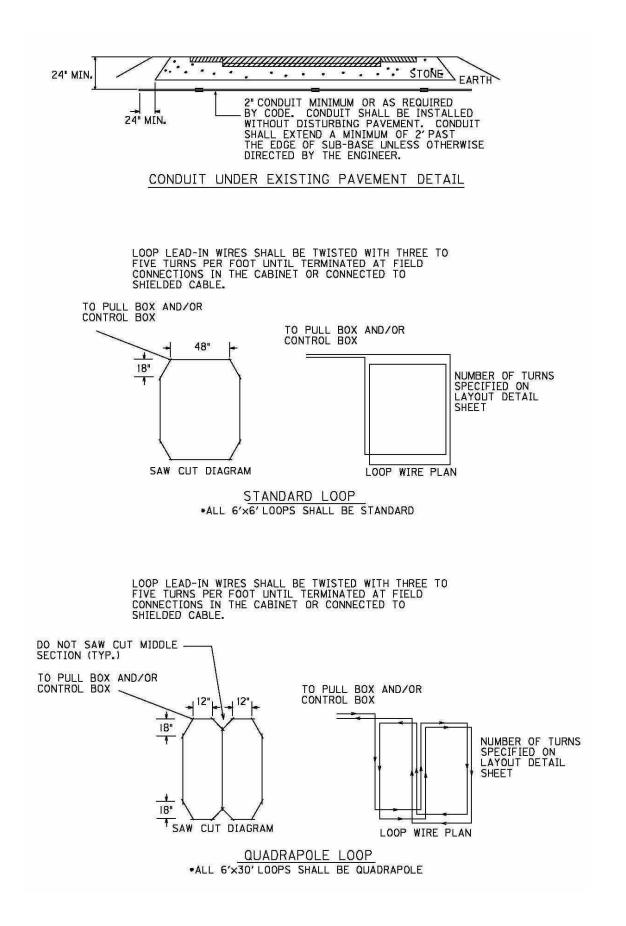


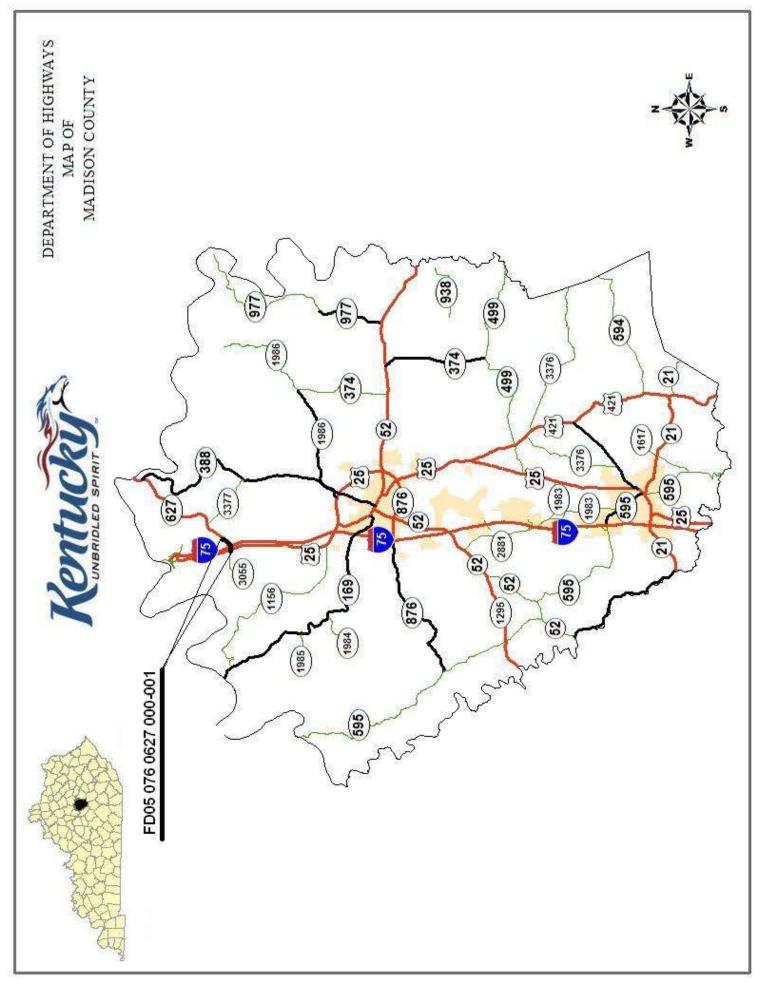
Contract ID: 122208 Page 32 of 80

Traffic Signal Loop Replacement Page 7 of 8



Traffic Signal Loop Replacement Page 8 of 8





MADISON County Base Failure Repair FD05-076-0627-000-001

MPT.	Length	Width	Sq. Ft.	NOTES			
0.042	75	8	600				
0.09	25	8	200				
0.386	20	10	200				
0.463	30	10	300				
0.549	20	10	200				
0.559	150	5	750				
0.635	12	10	120				

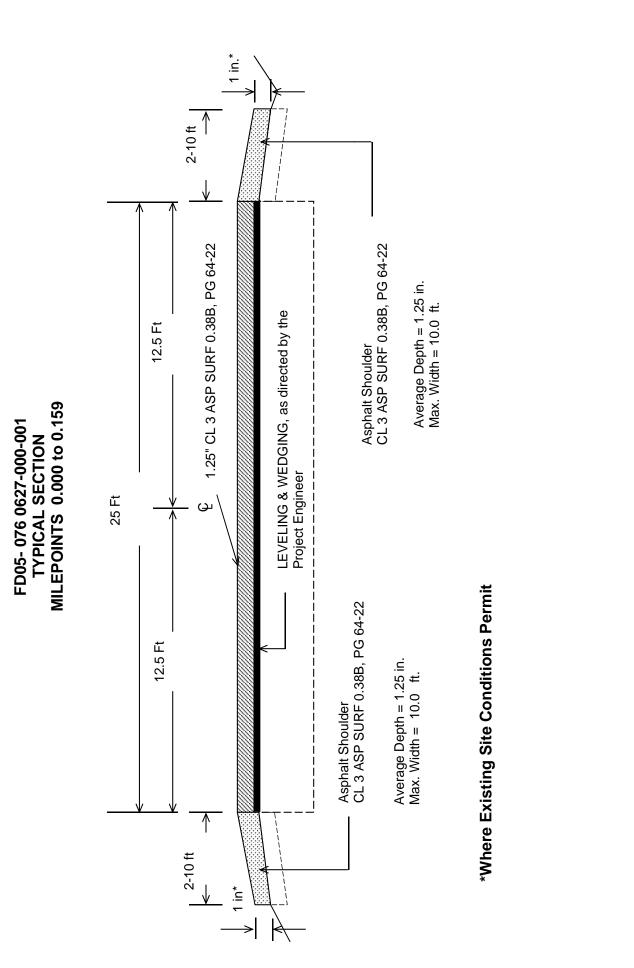
NOTES									
10X8X4 EA									0
JUNCTION FIBER OP. TYPE B 10X8X4 LF EA EA									0
FIBER OP. LF									0
CABLE NO. 14 LF									0
CONDUIT CABLE 11/4 INCH NO.14 LF LF									0
LOOP WIRE LF	640								640
SAW, SLOT LOOP AND FILL WIRE LF LF	305								305
INTERSECTION	Simpson Lane								
MPT.	0.22								TOTAL

NOTES:

MADISON County THERMOPLASTIC INTERSECTION PAVEMENT MARKINGS SUMMARY FD05-076-0627-000-001

NOTES RAILROAD CROSS BUCK 16" ٤ 0 "R" 6 FOOT Ā 0 CATRAXX 6 INCH LF 0 "ONLY" EA 0 COMB EA 0 ARROWS E STR EA 0 CURVE EA 5 . ~ . **~** STP BARS 24 INCH LF 20 46 20 20 25 111 X-WALKS 6 INCH LF 0 I-75 NB Ramp Simpson Lane Simpson Lane INTERSECTION US 25 0.2 0.22 0.235 0.235 0.235 0.235 0.235 0.3315 0.331 0.331 0.338 MPT. 0 TOTAL MADISON COUNTY

TSPAVESURFACEshld TS1AsphSurfShldr2lane - 1.xlsm

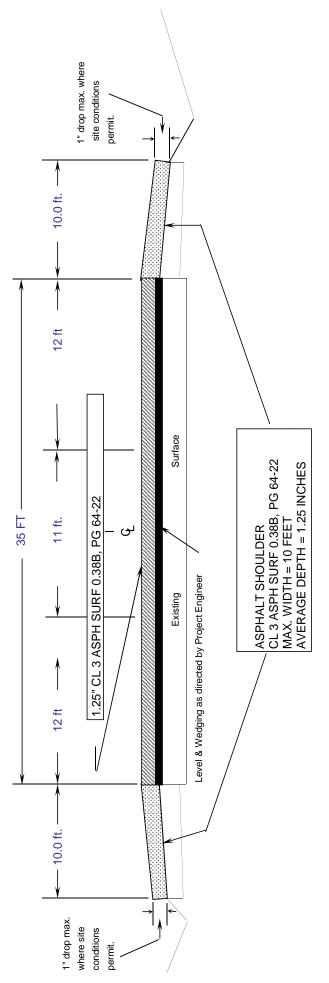


Page 1

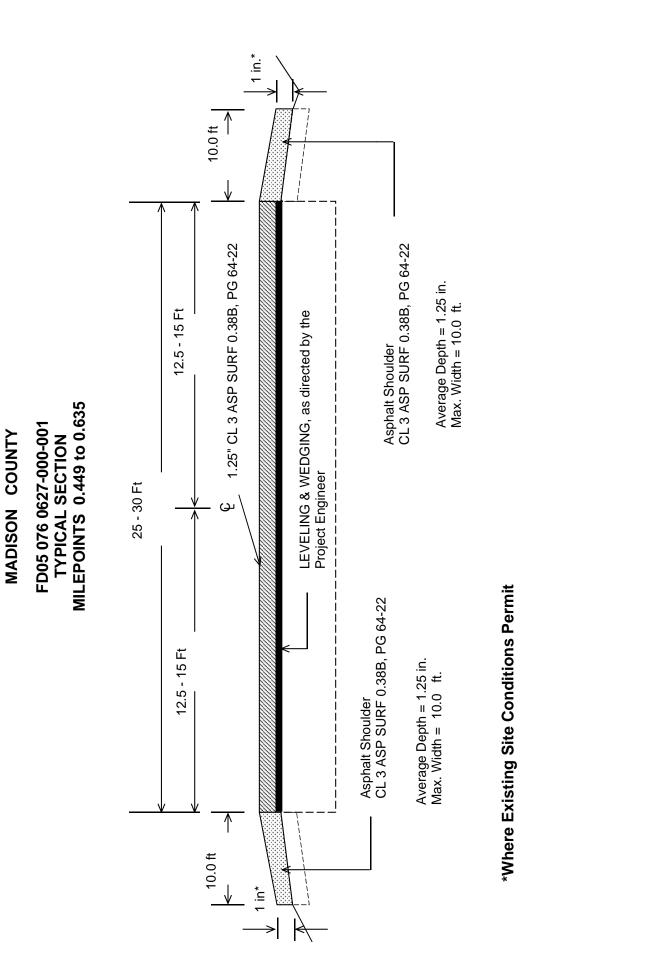
TYPICAL SECTION

MADISON COUNTY

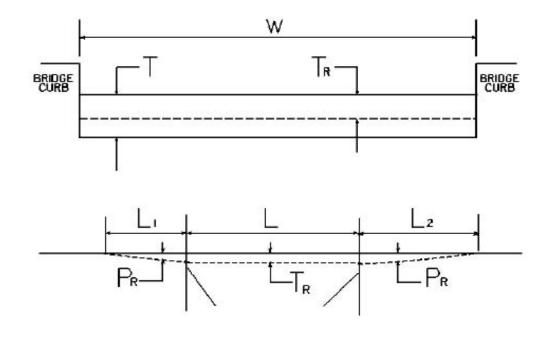
FD05-076-0627-000-001 Mile Point 0.159 to 0.233



TSPAVESURFACEshld TS1AsphSurfShldr2lane - 3.xlsm



Page 1



BRIDGE DETAIL FOR PAVING PROJECT

W = bridge width curb to curb

T = thickness of existing asphalt overlay

L = length of bridge

 $L_1 \& L_2 =$ length of approach pavement to be removed

 T_R = thickness to be removed and replaced on bridge

 P_R = thickness to be removed and replaced on pavement Note: $L_1 \& L_2$ lengths shall be determined by using a transition rate of 100 ft/in of thickness

Route	Bridge No.	MP	W (ft)	T (in)	L_1 (ft)	L_{2} (ft)	T _R (in)	L (ft)	P _R (in)
KY 627	B00040N	.132	30.2	0.00	125.00	125.00	0.000	242.1	1.25

01/01/2009

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 2004*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2008* and *Standard Drawings, Edition of 2003 with the 2008 Revision.*

SUBSECTION: REVISION:	101.02 Abbreviations. Insert the following abbreviation and text into the section:				
	KEPSC Kentucky Erosion Prevention and Sediment Control				
SUBSECTION: REVISION:	101.03 Definitions. Replace the definition for Specifications – <i>Special Provisions</i> with the following:				
	Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project.				
SUBSECTION: REVISION:	102.03 Contents of the Bid Proposal Form. Replace the first sentence of the first paragraph with the following: The Bid Proposal form will be available on the Department internet website (http://transportation.ky.gov/contract/).				
	Delete the second paragraph.				
	Delete the last paragraph.				
SUBSECTION: REVISION:	102.04 Issuance of Bid Proposal Form. Replace Heading with the following:				
	102.04 Bidder Registration.				
	Replace the first sentence of the first paragraph with the following:				
	The Department reserves the right to disqualify or refuse to place a bidder on the eligible bidder's list for a project for any of the following reasons:				
	Replace the last sentence of the subsection with the following:				
	The Department will resume placing the bidder on the eligible bidder's list for projects after the bidder improves his operations to the satisfaction of the State Highway Engineer.				
SUBSECTION: REVISION:	102.06 Examination of Plans, Specifications, Special Provisions, Special Notes, and Site of Work. Replace the first paragraph with the following:				
	Examine the site of the proposed work, the Bid Proposal, Plans, specifications, contract forms, and bulletins and addendums posted to the Department's website and the Bid Express Bidding Service Website before submitting the Bid Proposal. The Department considers the submission of a Bid Proposal prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the Contract.				
SUBSECTION: REVISION:	102.07.01 General. Replace the first sentence with the following:				
	Submit the Bid Proposal on forms furnished on the Bid Express Bidding Service website (<u>www.bidx.com</u>).				
	Replace the first sentence of the third paragraph with the following:				
	Bid proposals submitted shall use an eligible Digital ID issued by Bid Express.				

SUBSECTION: REVISION:	102.07.02 Computer Bidding. Replace the first paragraph with the following:			
	Subsequent to registering for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (<u>http://transportation.ky.gov/contract/</u>). Download the bid file from the Bid Express Bidding Service Website to prepare a Bid Proposal for submission to the Department. Submit Bid Proposal electronically through Bid Express Bidding Service.			
	Delete the second and third paragraph.			
SUBSECTION: REVISION:	102.08 Irregular Bid Proposals. Delete the following from the first paragraph: 4) fails to submit a disk created from the Highway Bid Program.			
	Replace the second paragraph with the following: The Department will consider Bid Proposals irregular and may reject them for the following reasons:			
	 when there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning; or when the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a Contract pursuant to an award; or any failure to comply with the provisions of Subsection 102.07; or Bid Proposals in which the Department determines that the prices are unbalanced; or when the sum of the total amount of the Bid Proposal under consideration exceeds the bidder's Current Capacity Rating. 			
SUBSECTION: REVISION:	102.09 Bid Proposal Guaranty. Insert the following after the first sentence:			
	Bid Proposals must have a bid proposal guaranty in the amount indicated in the bid proposal form accompany the submittal. A guaranty in the form of a paper bid bond, cashier's check, or certified check in an amount no less than the amount indicated on the submitted electronic bid is required when the electronic bid bond was not utilized with the Bid Express Bidding Service. Paper bid bonds must be delivered to the Division of Construction Procurement prior to the time of the letting.			
SUBSECTION: REVISION:	102.10 Delivery of Bid Proposals. Replace paragraph with the following:			
	Submit all Bid Proposals prior to the time specified in the Notice to Contractors. All bids shall be submitted electronically using Bid Express Bidding Services. Electronically submitted bids must be done in accordance with the requirements of the Bid Express Bidding Service.			
SUBSECTION: REVISION:	102.11 Withdrawal or Revision of Bid Proposals. Replace the paragraph with the following:			
	Bid Proposals can be withdrawn in accordance the requirements of the Bid Express Bidding Service prior to the time of the Letting.			

GUDGEOTION	
SUBSECTION:	102.13 Public Opening of Bid Proposals.
REVISION:	Replace Heading with the following: 102.13 Public Announcement of Bid Proposals.
	102.13 Fublic Announcement of Bid Floposais.
	Replace the paragraph with the following:
	The Department will publicly announce all Bid Proposals at the time indicated in the Notice to
	Contractors.
	Contractors.
SUBSECTION:	103.02 Award of Contract.
REVISION:	Replace the first sentence of the third paragraph with the following:
	replace die met sentence of die and paragraph with die following.
	The Department will normally award the Contract within 10 working days after the date of
	receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all
	bidders for a period not to exceed 60 calendar days for final disposition of award.
SUBSECTION:	105.02 Plans and Working Drawings.
REVISION:	Insert the following after the fourth paragraph:
	Submit electrical share drawings, design data, and descriptive literature for motorials in electronic
	Submit electrical shop drawings, design data, and descriptive literature for materials in electronic
	format to the Division of Traffic Operations for approval. Drawings and literature shall be submitted for lighting and signal components. Notify the Engineer when submitting information to
	the Division of Traffic Operations. Do not begin work until shop drawings are approved.
	the Division of frame Operations. Do not begin work until shop drawings are approved.
	Submit shop drawings for traffic counting equipment and materials in electronic format to the
	Engineer or the Division of Planning. Notify the Engineer when submitting information directly to
	the Division of Planning. Do not begin work until shop drawings are reviewed and approved.
	are Division of Filaming. Do not begin work and shop arawings are reviewed and approved.
SUBSECTION:	105.03 Record Plans.
REVISION:	Replace the section with the following:
	Record Plans are those reproductions of the original Plans on which the accepted Bid Proposal was
	based and, and signed by a duly authorized representative of the Department. The Department will
	make these plans available for inspection in the Central Office at least 24 hours prior to the time of
	opening bids and up to the time of letting of a project or projects. The quantities appearing on the
	Record Plans are the same as those on which Bid Proposals are received. The Department will use
	these Record Plans as the controlling plans in the prosecution of the Contract. The Department will
	not make any changes on Record Plans subsequent to their issue unless done so by an approved
	contract modification. The Department will make 2 sets of Record Plans for each project, and will
	maintain one on file in the Central Office and one of file in the District Office. The Department will furnish the Contractor with the following: 1 full size, 2 half size and an electronic file copy of
	the Record Plans at the Pre-Construction conference.

SUBSECTION:	105.12 Final Inspection and Acceptance of Work.		
REVISION:	Insert the following paragraphs after the first paragraph:		
	Notify the Engineer when all electrical items are complete. A notice of the electrical work completion shall be made in writing to the Contractor. Electrical items will be inspected when the electrical work is complete and are not subject to waiting until the project as a whole has been completed. The Engineer will notify the Division of Traffic Operations within 3 days that all electrical items are complete and ready for a final inspection. A final inspection will be completed within 90 days after the Engineer notifies the Division of Traffic Operations of the electrical work completion. Energize all electrical items prior to notifying the Engineer that all electrical items are complete. Electrical items are remain operational until the Division of Traffic Operations has inspected and accepted the electrical portion of the project. Payment for the electrical service is the responsibility of the Contractor from the time the electrical items are energized until the Division of Traffic Operations has accepted the work. Complete all corrective work within 90 calendar days of receiving the original electrical inspection report. Notify the Engineer when all corrective work is complete. The Engineer will notify the Division of Traffic Operations that the corrective work has been completed and the project is ready for a follow-up inspection. Upon re-inspection, if additional corrective work wis required, complete within the same 90 calendar day allowance. The Department will not include time between completion of the corrective work and the follow up electrical inspection(s). The 90 calendar day allowance is cumulative regardless of the number of follow-up electrical inspections required. The Department will assume responsibility for the electrical service on a project once the Division of Traffic Operations gives final accepted were complete all source to work within the same construction of the remaining project. Summa construction of the responsible for repairing damage done by other contractor. The Department will		
SUBSECTION: REVISION:	105.13 Claim Resolution Process. Replace the last sentence of the 3. Bullet with the following:		
	Replace the last sentence of the 5. Dunct with the following.		
	If the Contractor did not submit an as-bid schedule at the Pre-Construction Meeting or a written narrative in accordance with Subsection 108.02, the Cabinet will not consider the claim for delay.		
	Delete the last paragraph from the section.		

SUBSECTION:	106.04 Buy America Requirement.			
REVISION:	Replace the section with the following:			
	 106.04 Buy America Requirement. Follow the "Buy America" provisions as required by Title 23 Code of Federal Regulations § 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:			
	 When the materials are not permanently incorporated into the project; or 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.			
SUBSECTION: REVISION:	106.10 Field Welder Certification Requirements. Insert the following sentence before the first sentence of the first paragraph:			
	All field welding must be performed by a certified welder unless otherwise noted.			
SUBSECTION: REVISION:	108.02 Progress Schedule. Insert the following prior to the first paragraph:			
	 Specification 108.02 applies to all Cabinet projects except the following project types: Right of Way Mowing and/or Litter Removal Waterborne Paint Striping 			
	 Projects that contain Special Provision 82 Projects that contain the Special Note for CPM Scheduling 			
	Insert the following paragraph after paragraph two:			
	Working without the submittal of a Written Narrative is violation of this specification and additionally voids the Contractor's right to delay claims.			
	Insert the following paragraph after paragraph six:			
	The submittal of bar chart or Critical Path Method schedule does not relieve the Contractor's requirement to submit a Written Narrative schedule.			

	Insert the following at the beginning of the first paragraph of A) Written Narrative.:
	Submit the Written Narrative Schedule using form TC 63-50 available at the Division of Construction's website (<u>http://www.transportation.ky.gov/construction/ResCenter/ResCenter.htm</u>).
	Replace Part A) Written Narrative 1. And 2. with the following:
	 Provide a description that includes how the Contractor will sequence and stage the work, how the Contractor plans to maintain and control traffic being specific and detailed, and what equipment and crew sizes are planned to execute the work. Provide a list of project milestones including, if applicable, winter shut-downs, holidays, or special events. The Contractor shall describe how these milestones and other dates effect the prosecution of the work. Also, include start date and completion date milestones for the contract, each project if the contract entails multiple projects, each phase of work, site of work, or segment of work as divided in the project plans, proposal, or as subdivided by the Contractor.
SUBSECTION: REVISION:	109.07.01 Liquid Asphalt. Add the following to the Adjustable Contract Items:
	Stone Matrix Asphalt for Base
	Stone Matrix Asphalt for Surface
SUBSECTION: REVISION:	110.01 Mobilization. Replace paragraph three with the following:
	Do not bid an amount for Mobilization that exceeds 5 percent of the sum of the total amounts bid for all items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposals that are in excess of this amount down to 5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for Mobilization is less than 5 percent, or the Department will award the Contract for the adjusted bid amount of 5 percent when the amount bid for Mobilization is greater than 5 percent. If any errors in unit bid prices for other Contract items in a Contractor's Bid Proposal are discovered after bid opening and such errors reduce the total amount bid for adjustments and incentives, so that the percent bid for Mobilization is larger than 5 percent, the Department will adjust the amount bid for Mobilization to 5 percent of the sum of the corrected total bid amounts.
SUBSECTION: REVISION:	110.02 Demobilization. Replace the third paragraph with the following:
	Bid an amount for Demobilization that is a minimum of \$1,000 or 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives. The Department will automatically adjust any Bid Proposal that is less than this amount up to \$1,000 or 1.5 percent to compare Bid Proposals and award the Contract. The Department will award a Contract for the actual amount bid when the amount bid for demobilization exceeds 1.5 percent, or the Department will award the Contract for the adjusted bid amount when the amount bid for demobilization is less than the minimum of \$1,000 or less than 1.5 percent of the sum of the total amounts bid for all other items in the Bid Proposal, excluding Mobilization, Demobilization, and contingent amounts established for adjustments and incentives.
SUBSECTION: REVISION:	110.04 Payment. Insert the following paragraph following the demobilization payment schedule (4 th paragraph):
	The Department will withhold an amount equal to \$1,000 for demobilization, regardless of the schedule listed above. The \$1,000 withheld for demobilization will be paid when the final estimate is paid.

SUBSECTION: REVISION:	112.03.01 General Traffic Control. Replace paragraph three with the following:
	All flaggers shall be trained in current MUTCD flagging procedures. Proof of training must be available for review at the Department's request. Flagging credentials must be current within the last 5 years.
SUBSECTION:	112.03.11 Temporary Pavement Markings.
PART:	B) Placement and Removal of Temporary Striping.
REVISION:	Replace the 2 nd sentence of the first paragraph with the following:
	On interstates and parkways, and other roadways approved by the State Highway Engineer, install pavement striping that is 6 inches in width.
SUBSECTION: REVISION:	112.03.12 Project Traffic Coordinator (PTC). Add the following at the end of the subsection:
	After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task.
SUBSECTION: REVISION:	112.03.15 Non-Compliance of Maintain and Control of Traffic. Add the following section:
	112.03.15 Non-Compliance of Maintain and Control of Traffic. It is the Contractor's responsibility to conform to the traffic control requirements in the TCP, Proposal, plan sheets, specifications, and the Manual on Uniform Traffic Control Devices.
	Unless specified elsewhere in the contract, a penalty will be assessed in the event of non- compliance with Maintain and Control of Traffic requirements. These penalties will be assessed when the Contractor fails to correct a situation or condition of non-compliance with the contract traffic control requirements after being notified by the Engineer. The calculation of accrued penalties for non-compliance will be based upon the date/time of notification by the Engineer.
	The amount of the penalty assessed for non-compliance will be determined based upon the work zone duration, as defined by the MUTCD, and will be the greatest of the different calculation methods indicated below:
	A) Long-term stationary work that occupies a location more than 3 days.
	Correct the non-compliant issue within 24 hours from initial notification by the Engineer. If the issue is not corrected within 24 hours from the initial notification, a penalty for non-compliance will be assessed on a daily basis beginning from the initial notification of non-compliance. The Contractor will be assessed a \$1,000 daily penalty or the amount equal to the contract liquidated damages in Section 108.09, whichever of the 2 is greater. The penalty for non-compliance will escalate as follows for continued non-compliance after the initial notification.
	3 Days after Notification \$1,500 daily penalty or 1.5 times the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.
	7 Days after Notification \$2,000 daily penalty or double the contract liquidated damages daily charge rate in Section 108.09, whichever is greater.

B) Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.			
Correct the non-compliant issue within 4 hours from initial notification by the Engineer. If the issue is not corrected within 4 hours from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non- compliance. The penalty for non-compliance will be assessed at \$200 per hour.			
C) Short-term stationary is work that occupies a location for more than 1 hour within a single 24-hour period.			
Correct the non-compliant issue within 1 hour from initial notification by the Engineer. If the issue is not corrected within 1 hour from notification, a penalty for non-compliance will be assessed on an hourly basis beginning from the initial notification of non-compliance. The penalty for non-compliance will be assessed at \$200 per hour.			
If the Contractor remains in violation of the Maintain and Control of Traffic requirements, or if the Department determines it to be in the public's interest, work will be suspended in accordance with Section 108.08 until the deficiencies are corrected. The Department reserves the right to correct deficiencies by any means available and charge the Contractor for labor, equipment, and material costs incurred in emergency situations.			
206.03.02 Embankment			
Replace the last paragraph with the following:			
When rock roadbed is specified, construct the upper 2 feet of the embankment according to Subsection 204.03.09 A).			
213.03.03 Inspection and Maintenance.			
Replace the last sentence of the second paragraph with the following:			
Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7 calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.			
Insert the following paragraph after the second paragraph:			
When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 7calendar days of receipt of the report. The Contractor shall make a concentrated effort to complete any corrective action required prior to the next predicted rainfall event.			

SUBSECTION: PART:	213.03.05 Temporary Control Measures.E) Temporary Seeding and Protection.
REVISION:	Replace the first paragraph with the following:
	Apply an Annual Rye seed mix at a rate of 100 pounds per acre during the months of March through August. In addition to the Annual Rye, add 10 pounds of German Foxtail-Millet (Setaria italica), when performing temporary seeding during the months of June through August. During the months of September through February, apply Winter Wheat or Rye Grain at a rate of 100 pounds per acre. Obtain the Engineer's approval prior to the application of the seed mixture.
SUBSECTION:	213.03.05 Temporary Control Measures.
PART: REVISION:	F) Temporary Mulch. Replace the last sentence with the following:
	Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.
SUBSECTION: REVISION:	303.05 Payment. Replace the second paragraph of the section with the following:
	The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.
SUBSECTION:	401.02.04 Special Requirements for Dryer Drum Plants.
PART: REVISION:	F) Production Quality Control. Replace the first sentence with the following:
	Stop mixing operations immediately if, at any time, a failure of the automatic electronic weighing system of the aggregate feed, asphalt binder feed, or water injection system control occurs.
SUBSECTION: REVISION:	401.02.04 Special Requirements for Dryer Drum Plants. Add the following:
	 Part G) Water Injection System. Provided each system has prior approval as specified in Subsection 402.01.01, the Department will allow the use of water injection systems for purposes of foaming the asphalt binder and lowering the mixture temperature for production of Warm Mix Asphalt (WMA). Ensure the equipment for water injection meets the following requirements: Injection equipment computer controls are automatically coupled to the plants controls (manual operation is not permitted); Injection equipment has variable controls that introduce water ratios based on production rates of mixtures; Injects water into the flow of asphalt binder prior to contacting the aggregate; Provides alarms on the water injection system that operate when the flow of water is interrupted or deviates from the prescribed water rate.
SUBSECTION: REVISION:	401.03.01 Preparation of Mixtures. Replace the last sentence of the second paragraph with the following:
	Do not use asphalt binder while it is foaming in a storage tank.

SUBSECTION:	401.03.01 Preparation of Mi	ixtures.				
REVISION:	Replace the third paragraph and Mixing and Laying Temperature table with the following:					
	Maintain the temperature of the component materials and asphalt mixture within the ranges listed in the following table:					
	MIXING AND LAYING TEMPERATURES (°F)					
	Material Minimum Maximum					
	Aggregates		240	330		
	Aggregates used with Recycl (RAP)	led Asphalt Pavement	240	—		
	Asphalt Binders	PG 64-22 PG 76-22	230 285	330 350		
	Asphalt Mixtures at Plant (Measured in Truck)	PG 64-22 HMA PG 76-22 HMA	250 310	330 350		
		PG 64-22 WMA PG 76-22 WMA	230 250	275 300		
	Asphalt Mixtures at Project	PG 64-22 HMA	230	330		
	(Measured in Truck	PG 76-22 HMA	300	350		
	When Discharging)	PG 64-22 WMA	210	275		
		PG 76-22 WMA	240	300		
SUBSECTION: REVISION:	402.01 Description. Replace the paragraph with	the following:				
	reepiace are paragraph with	the folio wing.				
	Provide the process control	and acceptance testin	ng of all classes	and types of asphalt mixtures		
			t (HMA) or war	m mix asphalt (WMA) produced		
	with water injection systems					
SUBSECTION REVISION:	402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. Add the following subsection:					
	402.01.01 Warm Mix Asphalt (WMA) Evaluation and Approval. The Department will evaluate trial production of WMA by use of a water injection system provided the system is installed according to the manufacturer's requirements and satisfies the requirements of Section 401. Evaluation will include production and placement of WMA to demonstrate adequate mixture quality including volumetric properties and density by Option A as specified in Subsection 402.03.02 D). Do not place WMA for evaluation on Department projects. Provided production and placement operations satisfy the applicable quality levels, the Department will approve WMA production on Department projects using the water injection system as installed on the specific asphalt mixing plant evaluated.					
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures and Mixtures With RAP. Replace Subsection Title as below:					
	402.05.02 Asphalt Mixtures	, HMA and WMA, I	ncluding Mixtu	res With RAP.		
SUBSECTION: REVISION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP. Replace the paragraph with the following:					
	The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each sublot and average the sublot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.					

SUBSECTION:					
PART: REVISION:					
	C) HMA, WMA and RAP Mixtures Placed on Shoulders or Placed as Asphalt Pavement Wedge.				
	1) Placed monolithically with the Mainline – Width of 4 feet or less. The Department will				
	 pay as mainline mixture. 2) Placed monolithically with the Mainline – Width of greater than 4 feet. The Department will pay as mainline mixture but use 1.00 for the Lane and Joint Density Pay Value for shoulder or Asphalt Pavement Wedge quantities. 3) Placed Separately. The Department will use 1.00 for the Lane and Joint Density Pay Value. 				
SUBSECTION:	402.05.02 Asphalt Mixtures, HMA and WMA, Including Mixtures With RAP.				
PART:	D) Conventional and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.				
REVISION:	Replace the title with the following: D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge.				
	Delete the following:				
	D) HMA, WMA, and RAP Mixtures Placed Monolithically as Asphalt Pavement Wedge. The				
	Department will pay as mainline mixture but use a 1.00 pay value for all properties.				
SUBSECTION:					
PART: REVISION:					
	D) Asphalt Mixtures for Temporary Pavement.				
SUBSECTION: PART:	A G				
TABLES:	VMA				
REVISION:	Replace the VMA table with the following:				
	VMA				
	Pay Value Deviation From Minimum				
	$1.00 \geq \min. VMA$				
	0.95 0.1-0.5 below min. 0.90 0.6-1 0 below min.				
	(1) > 1.0 below min.				
SUBSECTION:					
PART: TABLES:					
REVISION:					
	VMA				
	Pay Value Deviation				
	From Minimum				
	$1.00 \ge \min. VMA$				
	0.95 0.1-0.5 below min. 0.90 0.6-1.0 below min.				
	(l) > 1.0 below min.				

SUBSECTION: PART: TABLE: REVISION:		ment Schedule	HMA and WMA, In , Compaction Optio he following:			With RA	P.	
			V	MA		٦		
			Pay Value	De	viation	-		
				From	Minimum			
			1.00	_	n. VMA	_		
			0.95	1).5 bel w nin.			
			(2)		below min			
				> 1.0 0	elow min.			
SUBSECTION: PART: NUMBER: REVISION:	Complete the v below for	Criteria. Mix Design. t two sentences volumetric mix the number of SAL classes, a	s of the paragraph ar design at the appro of 20-year ESAL's is given in the bid i	opriate r . The	umber o Departm	f gyratior ent will	ns as giv define ti	he relationship
						er of Gyr		
		Class 2	ESAL's (millio < 3.0	ons)	N _{initial} 6	N _{design} 50	$\frac{N_{\text{max}}}{75}$	
		3	3.0 to < 30.0)	7	75	115	
SUBSECTION:	402 02 00 L ava	4	\geq 30.0 ing, and Scratch Co	urso	8	100	160	
PART: REVISION:	A) Leveling and Replace the first	d Wedging. st sentence of th gradation requ	ne first paragraph w	ith the fo	-	O M 323 :	for base,	binder, or
SUBSECTION:			ing, and Scratch Co	urse.				
PART: REVISION:	B) Scratch Cou Replace the sec		of the first paragraph	with the	e followii	ng:		
	Conform to the surface as the E		irements (control po s.	oints) of	AASHT	O M 323	for base,	binder, or
SUBSECTION: REVISION:	407.01 DESCR		he paragraph with th	a fallor	ina			
KEVISION:	*		composed of a hot-n		C	ixed asph	alt mixtu	ıre.
SUBSECTION: REVISION:	409.01 DESCR Replace the firs		he paragraph with th	e follow	ving:			
			ent (RAP) from Dep nix asphalt (WMA)					
SUBSECTION: REVISION:	410.01 DESCR Delete the seco		the paragraph.					

SUBSECTION:	410.03.01 Corrective Work.
REVISION:	Replace the last sentence of the paragraph with the following:
	Provide a final surface comparable to the adjacent pavement that does not require corrective work
	in respect to texture, appearance, and skid resistance.
SUBSECTION:	410.03.02 Ride Quality.
PART: NUMBER:	B) Requirements. 1) Category A.
REVISION:	Replace the last sentence of the first paragraph with the following:
	At the Department's discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied
	in lieu of corrective work.
SUBSECTION:	410.03.02 Ride Quality.
PART:	B) Requirements.
NUMBER: REVISION:	2) Category B. Replace the second and third sentence of the first paragraph with the following:
	When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction
	of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.
SUBSECTION	410.05 PAYMENT.
SUBSECTION: REVISION:	Add the following sentence to the end of the first paragraph:
	The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG76-22.
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph:
	The Department will calculate the Lot Pay Adjustment using all possible incentives and
	disincentives but will not allow the overall pay value for a lot to exceed 1.00.
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG 76-22.
TABLE:	JOINT DENSITY TABLE
REVISION:	Replace the joint density table with the following:
	LANE DENSITY
	Pay ValueTest Result (%)
	1.05 95.0-96.5
	1.00 93.0-94.9
	0.95 92.0-92.9 or 96.6-97.0
	$\begin{array}{c c} 0.90 & 91.0-91.9 \text{ or } 97.1-97.5 \\ \hline \end{array}$
	(1) < 91.0 or > 97.5
SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph:
	The Department will calculate the Lot Pay Adjustment using all possible incentives and
	disincentives but will not allow the overall pay value for a lot to exceed 1.00.
	1

SUBSECTION: TABLE: REVISION:	JOINT DENSIT		A PG76-22 and CL3 SMA h the following:	SURF 0.38A PG76-22.	
			DENSITY		
		Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	
		1.05	95.0-96.5	92.0-96.0	
		1.00	93.0-94.9	90.0-91.9	
		0.95	,, ,, ,, ,	89.0-89.9 or 96.1-96.5	
		0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	
		0.75		< 88.0 or > 97.0	
		(1)	< 91.0 or > 97.5		
SUBSECTION:	501.05.02 Ride				
REVISION:	Add the following	ng sentence to the	end of the first paragraph	:	
	The sum of the p whole.	bay value adjustm	ents for the ride quality sh	all not exceed \$0 for the	e project as a
SUBSECTION: REVISION:	505.03.04 Detec Replace the first	etable Warnings. sentence with the	following:		
	Install detectable Standard Drawir		at all sidewalk ramps and o	on all commercial entrar	nces according to the
SUBSECTION: REVISION:	505.04.04 Detec Replace the para	table Warnings. graph with the fol	llowing:		
	projects will requality applicable to the incidental to the	uire the removal of project. The cost	quantity in square feet. A of existing sidewalks to me t associated with the remo gs bid item or incidental t e noted.	eet the requirements of t val of the existing sidew	he standard drawings alk will be
SUBSECTION: REVISION:	505.05 PAYME Add the followin	NT. ng to the bid item	table:		
	<u>Code</u> 23158ES505	<u>Pay Item</u> Detectable W	Pay Unit arnings Square Foo	t	
SUBSECTION: REVISION:	509.01 DESCRI Replace the seco	PTION. nd paragraph witl	n the following:		
	Research Progra the Standard Dra length, material,	m (NCHRP) 350 wings. Obtain th drain slot dimens et or less from the	e of similar units that conf Test Level 3 (TL-3) requir e Engineers approval prio ions and locations typical e NCHRP 350 TL-3 for Te	rements and the typical f r to use. Ensure the bar features are met and the	features depicted by rier wall shape, reported maximum

SUDGECTION	601.02.02 Congrete Dreducer Decongritilities
SUBSECTION: REVISION:	601.03.02 Concrete Producer Responsibilities. Replace the first sentence with the following:
	Obtain the concrete from producers that are in compliance with KM 64-323 and on the Department's List of Approved Materials.
	Add the following to the first paragraph:
	If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service.
SUBSECTION: PART:	601.03.02 Concrete Producer Responsibilities. B) Certified Personnel.
REVISION:	Replace the second sentence with the following:
	Ensure that the concrete technicians are certified as ACI Level I (Level I) and KRMCA Level II (Level II).
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	C) Quality Control. Replace the second sentence with the following:
	Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.
SUBSECTION: PART: REVISION:	601.03.02 Concrete Producer Responsibilities. D) Producer Testing. Replace with the following:
	When producing for state work, have a Qualified Concrete Aggregate Technician or KYTC Qualified Aggregate Technician perform, at a minimum, weekly gradations and minus 200 wash tests and daily moisture contents of coarse and fine aggregate (Fine aggregates will not require a minus 200 wash test). Using the daily moisture contents, adjust the approved mix design accordingly prior to production. Ensure that the Level II concrete technician is present when work is in progress and is responsible for inspecting trucks, batch weight calculations, monitoring batching, making mixture adjustments, reviewing the slump, air content, unit weight, temperature, and aggregate tests, all to provide conforming concrete to the project.
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.
PART: REVISION:	E) Trip Tickets. Replace the second sentence with the following:
	Include on the trip ticket the Sample ID for the approved mix design and a statement certifying that the data on the ticket is correct and that the mixture conforms to the mix design.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER: REVISION:	2) Mineral Admixtures. Replace the second sentence with the following:
	Reduction of the total cement content by a combination of mineral admixtures will be allowed, up to a maximum of 40 percent.

SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	a) Fly Ash.
REVISION:	Delete the last sentence of the third paragraph.
	Delete the last sentence of the time paragraph.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
NUMBER:	2) Mineral Admixtures.
LETTER:	b) Ground Granulated Blast Furnace Slag (GGBF Slag).
REVISION:	Delete the second sentence of the third paragraph.
SUBSECTION:	601.03.03 Proportioning and Requirements.
PART:	E) Measuring.
REVISION:	Add the following sentence:
	Conform to the individual ingredient material batching tolerances in Appendix A.
SUBSECTION:	601.03.09 Placing Concrete.
PART:	A) General.
REVISION:	Replace the last sentence of the fourth paragraph with the following:
	Do not use aluminum or aluminum alloy troughs, pipes, or chutes that have surface damage or for
	lengths greater than 20 feet.
	Replace the second sentence of the fifth paragraph with the following:
	Replace the second sentence of the fifth paragraph with the following.
	With a manufactor of the deliver of the model that is a minimum of 2 with a model of the
	When pumping, equip the delivery pipe with a nozzle, having a minimum of 2 right angles, at the
	discharge end. Alternate nozzles or restriction devices may be allowed with prior approval by the
	Engineer.
SUBSECTION:	605.02.05 Forms.
REVISION:	Delete the last sentence.
SUBSECTION:	605.03.04 Tack Welding.
REVISION:	Replace with the following:
	The Department does not allow tack welding.
SUBSECTION:	606.02.11 Coarse Aggregate.
REVISION:	Replace with the following:
	· · · · · · · · · · · · · · · · · · ·
	Conform to Section 805, size No. 8 or 9-M.
SUBSECTION:	609.03.04 Expansion and Fixed Joints.
PART:	D) Preformed Neoprene Joint Seals.
REVISION:	Replace the last sentence of paragraph seven with the following:
KEVISION:	keptale me tast sentence of paragraph seven with the following:
	Field onlines will not be allowed during nortial width construction. It is Contracted?
	Field splices will not be allowed during partial width construction. It is Contractor's responsibility to
	determine and install the length of seal required for the joint to barrier wall as per the standard drawing.
SUBSECTION:	609.03.09 Finish with Burlap Drag.
REVISION:	Delete the entire section.
SUBSECTION:	609.04.06 Joint Sealing.
REVISION:	Replace Subsection 601.04 with the following:
	ι · · · · · · · · · · · · · · · · · · ·
	Subsection 606.04.08.

SUBSECTION:	609.05 Payment.
REVISION:	Replace the Pay Unit for Joint Sealing with the following:
	See Subsection 606.05.
SUBSECTION:	701.03.06 Initial Backfill.
REVISION:	Replace the first sentence of the last paragraph with the following:
	When the Contract specifies, perform quality control testing to verify compaction according to KM 64-
	512.
SUBSECTION	701.02.08 Testing of Ding
SUBSECTION: REVISION:	701.03.08 Testing of Pipe. Replace and rename the subsection with the following:
	Replace and rename the subsection with the following.
	 701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project. Unless the Engineer directs otherwise, schedule the inspections proving and 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible. Notify the Engineer immediately if distresses or locations of improper installation are discovered. When earer a testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114. Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmenta
GUDGEOTION	
SUBSECTION: REVISION:	701.04.07 Testing. Replace and rename the subsection with the following:
	701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.

SUBSECTION: REVISION:	701.05 PAYMENT.Add the following pay item to theCodePay Item	list of pay items:		Pay Unit
	23131ER701 Pipeli	ne Video Inspection		Linear Foot
SUBSECTION: TABLE: REVISION:	701.05 PAYMENT PIPE DEFLECTION DETERMIN Replace this table with the followin		ESTING	
		PIPE DEFLE	CTION	
	Amount of Deflection (9	%)	Payment	
	0.0 to 5.0		100% of the	e Unit Bid Price
	5.1 to 9.9		50% of the	Unit Bid Price ⁽¹⁾
	10 or greater		Remove and	d Replace
	(1) Provide Structural Analysis allowed to remain in place at the r		Based on the s	structural analysis, pipe may be
SUBSECTION: TABLE: REVISION:	701.05 PAYMENT PIPE DEFLECTION DETERMIN Delete this table.	ED BY MANDREL 7	TESTING	
SUBSECTION:	713.02.01 Paint.			
REVISION:	Replace with the following:			
	Conform to Section 842 and Section	on 846.		
SUBSECTION: REVISION:	713.03 CONSTRUCTION. Replace the first sentence of the se	cond paragraph with t	he following:	
	On interstates and parkways, and o striping that is 6 inches in width.	other routes approved	by the State H	Iighway Engineer, install pavement
SUBSECTION:	713.03.03 Paint Application.			
REVISION:	Replace the second paragraph with	the following table:		
	Material	Paint Application	Rate	Glass Beads Application Rate
	4 inch waterborne paint	Min. of 16.5 gallon	s/mile	Min. of 6 pounds/gallon
	6 inch waterborne paint	Min. of 24.8 gallons		Min. of 6 pounds/gallon
SUBSECTION.	6 inch durable waterborne paint	Min. of 36 gallons/r	nile	Min. of 6 pounds/gallon
SUBSECTION: REVISION:	713.03.04 Marking Removal. Replace the last sentence of the part	ragraph with the follo	wing:	
	Vacuum all marking material and r		-	e marking removal operation.
SUBSECTION: REVISION:	713.05 PAYMENT. Insert the following codes and pay	items below the Pave	ment Striping	g – Permanent Paint:
	24190ER Durable Waterbo	rne Marking – 6 IN W rne Marking – 6 IN Y rne Marking – 12 IN	/ Line Line	Unit ear Foot ear Foot ear Foot

SUBSECTION: REVISION:	714.03 CONSTRUCTION. Insert the following paragraph at the end of the third paragraph:
	Use Type I Tape for markings on bridge decks, JPC pavement and JPC intersections. Thermoplastic should only be used for markings on asphalt pavement.
SUBSECTION:	714.03.07 Marking Removal.
REVISION:	Replace the third sentence of the paragraph with the following:
	Vacuum all marking material and removal debris concurrently with the marking removal operation.
SUBSECTION:	716.01 DESCRIPTION.
REVISION:	Insert the following after the first sentence:
	Energize lighting as soon as it is fully functional and ready for inspection. Ensure that lighting remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.
SUBSECTION:	716.02.01 Roadway Lighting Materials.
REVISION:	Replace the last two sentences of the paragraph with the following:
	Submit for material approval an electronic file of descriptive literature, drawings, and any requested design data to the Division of Traffic Operations. Do not begin work until shop drawings are approved. Notify the Engineer when submitting any information to the Division of Traffic Operations. Do not make substitutions for approved materials without written permission as described above.
SECTION:	717 – THERMOPLASTIC INTERSECTION MARKINGS.
REVISION:	Replace the section name with the following:
	INTERSECTION MARKINGS.
SUBSECTION:	717.01 DESCRIPTION:
REVISION:	Replace the paragraph with the following:
	Furnish and install thermoplastic or Type I tape intersection markings (Stop Bars, Crosswalks, Turn Arrows, etc.) Thermoplastic markings may be installed by either a machine applied, screed extrusion process or by applying preformed thermoplastic intersection marking material.
SUBSECTION: REVISION:	717.02 MATERIALS AND EQUIPMENT. Insert the following subsection:
	717.02.06 Type I Tape. Conform to Section 836.
SUBSECTION:	717.02.02 Application
REVISION:	717.03.03 Application. Insert the following part to the subsection:
	B) Type I Tape Intersection Markings. Apply according to the manufacturer's recommendations. Cut all tape at pavement joints when applied to concrete surfaces.

SUBSECTION:	717.03.05 Proving Period.		
PART:	A) Requirements.		
REVISION:	Insert the following to this section	on:	
	of failure due to blistering, exce pavement materials, drippings, retroreflectivity, vehicular dama warranted by the manufacturer adequately bonded to the surface Subsection 714.03.06 A) 1), ret	oving period, ensure that the pavement marking materies essive cracking, bleeding, staining, discoloration, oil co chipping, spalling, poor adhesion to the pavement, los age, and normal wear. Type I Tape is manufactured o to meet certain retroreflective requirements. As long a e and shows no signs of failure due to the other items roreflectivity readings will not be required. In the abs based on a nighttime visual observation.	ontent of the ss of ff site and as the material is listed in
SUBSECTION:	717.03.06 Marking Removal.		
REVISION:	Replace the third sentence of th	e paragraph with the following:	
	Vacuum all marking material an	nd removal debris concurrently with the marking remo	oval operation.
SUBSECTION:	717.05 PAYMENT.		
REVISION:	Insert the following bid item co	des:	
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe		to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	miscellaneous metal w For the SCI100GM fe	wing: om as developed by SCI Products, Inc. of St. Charles, I work conform to ASTM A 36 and galvanize according nder panels conform to AASHTO 180. Galvanize the I-beam connectors after fabrication according to AST	to ASTM A 123. SCI100GM fender
SUBSECTION: REVISION:	When supplying cement with a	e first paragraph and add the following to the second μ SO ₃ content above the value in table I of ASTM C 15 ay expansion test data for the supplied SO ₃ content on	0, include

SUBSECTION: REVISION:	805.01 GENERAL. Replace the second paragraph with the following:
	The Department's List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.
SUBSECTION: REVISION:	805.04 CONCRETE. Delete footnote (1) The permissible lightweight particle content of gravel coarse aggregate for reinforced
	concrete box culvert sections, concrete pipe, pipe arches, or for use only in concrete that will be permanently protected from freezing by 2 feet or more of cover is 10.0 percent.
SUBSECTION:	805.04 CONCRETE.
REVISION:	Replace the "AASHTO T 160" reference in first sentence of the third paragraph with "KM 64-629"
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
TABLE:	AGGREGATE SIZE USE
PART:	Cement Concrete Structures and Incidental Construction
REVISION:	Replace "9-M for Waterproofing Overlays" with "8 or 9-M for Waterproofing Overlays"

SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE. **REVISION:** Replace the "SIZES OF COARSE AGGREGATES" table in with the following:

					S	IZES (SIZES OF COARSE AGGREGATES	RSE AC	GREG	ATES							
	Sieve		А	MOUNTS	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT	AN EACH	I LABORAT	ORY SIE	EVE (SQU/	ARE OPEN	IINGS) PEH	RCENTAG	E BY WEI	GHT			
Aggregate Size	Nominal ⁽³⁾ Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch 1 inch		3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	0-5						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
67	3/4 inch							100	90-100		20-55	0-10	0-5				
68	3/4 inch							100	90-100		30-65	5-25	0-10	0-5			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	0-5			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5				
$10^{(2)}$	No. 4										100	85-100				10-30	
$11^{(2)}$	No. 4										100	40-90	10-40			0-5	
DENSE GRADED AGGREGATE ⁽¹⁾	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE ^(I)	1 ½ inch				100		90-100		60-95		30-70	15-55			5-20		0-8
$\overline{(1)}$ Gradation	Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.	wet sie	ve KM 64	-620 01	r AASHTC	0 T 11/1	r 27.										

Sizes shown for convenience and are not to be considered as coarse aggregates.
 Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugnill to obtain designated sizes.

SUBSECTION: REVISION:	805.16 SAMPLING AND TESTING. Replace the "AASHTO T 160" method with the "KM 64-629" method for the Concrete Beam Expansion Test.
	Replace the "ASTM D 3042" method with the "KM 64-625" method for Insoluble Residue.
SUBSECTION: REVISION:	810.04.01 Coating Requirements. Replace the "Subsection 806.07" references with "Subsection 806.06"
SUBSECTION: PART: REVISION:	810.06.01 Polyvinyl Chloride (PVC) Pipe.B) Culvert and Entrance Pipe.Replace the title with the following:
KEVISION.	B) Culvert Pipe, Storm Sewer, and Entrance Pipe.
SUBSECTION: REVISION:	823.02 LIQUID MEMBRANE FORMING COMPOUNDS. Add the following:
	Effective July 1, 2011, to remain on or be added to the Department's approved list, products must have completed testing or been submitted for testing through the National Transportation Product Evaluation Program (NTPEP) for Concrete Curing Compounds.
SUBSECTION: REVISION:	837.03 APPROVAL. Replace the last sentence with the following:
	The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material.
SUBSECTION: REVISION:	837.03.01 Composition. COMPOSITION Table: Replace
	Lead Chromate0.0 max.4.0 min.withIterationComply with 40 CFR 261
	Comply with 40 CFR 201
SUBSECTION: TABLE: REVISION:	842.02 APPROVAL. PAINT COMPOSITION Revise the following in the table:
	Replace the $2.0\Delta E^*$ values in the table with $4.0\Delta E^*$ for both Yellow and White Paint on both the Daytime and Nighttime Color Spectrophotometer.
SECTION: REVISION:	DIVISION 800 MATERIAL DETAILS Add the following section in Division 800
	SECTION 846 – DURABLE WATERBORNE PAINT
	846.01 DESCRIPTION. This section covers quick-drying durable waterborne pavement striping paint for permanent applications. The paint shall be ready-mixed, one-component, 100% acrylic waterborne striping paint suitable for application on such traffic-bearing surfaces as Portland cement concrete, bituminous cement concrete, asphalt, tar, and previously painted areas of these surfaces.
	846.02 Approval. Select materials that conform to the composition requirements below. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content. Submit initial samples for approval before beginning striping

operations. The initial sample may be sent from the manufacture of the paint. The Department will randomly sample and evaluate the paint each week that the striping operations are in progress.

The non-volatile portion of the vehicle shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis. The acrylic resin used shall be a 100% cross-linking acrylic as evidenced by infrared peaks at wavelengths 1568, 1624, and 1672 cm-1 with intensities equal to those produced by an acrylic resin known to be 100% cross-linking.

Property and Test Method	Yellow	White		
Daytime Color (CIELAB)	L* 81.76	L* 93.51		
Spectrophotometer using	a* 19.79	a* -1.01		
illuminant D65 at 45°	b* 89.89	b* 0.70		
illumination and 0° viewing with	Maximum allowa le	Maximum allowable variation		
a 2° observer	variation $4.0\Delta E^*$	4.0ΔE*		
Nighttime Color (CIELAB)	L* 86.90	L* 93.45		
Spectrophotometer using	a* 24.80	a* -0.79		
illuminant A at 45° illumination	b* 95.45	b* 0.43		
and 0° viewing with a 2° observer	Maximum allowable variation	Maximum allowable variation		
	4.0ΔE*	4.0 Δ E*		
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261		
Titanium Dioxide	NA	10% by weight of pigment		
ASTM D 4764		min.		
VOC	1.25 lb/gal max.	1.251 /gal ma .		
ASTM D 2369 and D 4017				
Contrast Ratio	0.97	0.99		
(at 15 mils wft)				

846.02.01 Manufacturers Certification. Provide a certification of analysis for each lot of traffic paint produced stating conformance to the requirements of this section. Report the formulation identification, traffic paint trade name, color, date of manufacturer, total quantity of lot produced, actual quantity of traffic paint represented, sampling method utilized to obtain the samples, and data for each sample tested to represent each lot produced.

846.03 ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION DURABLE WATERBORNE PAVEMENT STRIPING PAINT. When non-specification paint is inadvertently incorporated into the work the Department will accept the material with a reduction in pay. The percentage deduction is cumulative based on its compositional properties, but will not exceed 60 percent. The Department will calculate the payment reduction on the unit bid price for the routes where the non-specification paint was used.

Non- conforming Property	Resin	Color	Contrast	TiO ₂	VOC	Heavy Metals Content
Reduction Rate	60%	10%	10%	10%	60%	60%

APPENDIX A:	TABLUATION OF CONSTRUCTION TOLERANCES.
PART:	601.03.03
REVISION:	Replace with the following:
	Concrete accuracy of individual ingredient material for each batch. ± 2.0% for aggregates ± 1.0% for water ± 1.0% for cement in batches of 4 cubic yards or greater ± 1.0% for total cementitious materials in batches of 4 cubic yards or greater 0.0% to + 4.0% for cement in batches less than 4 cubic yards 0.0% to + 4.0% for total cementitious materials in batches less than 4 cubic yards ± 3.0% for admixtures
APPENDIX A: PART: REVISION:	TABLUATION OF CONSTRUCTION TOLERANCES. 601.03.03 C) 2) Delete

STANDARD DRAWINGS THAT APPLY

CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-06
SUPERELEVATION FOR MULTILANE PAVEMENTS	RGS-002-05
MISCELLANEOUS STANDARDS PART 1	RGX-001-05
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	RPM-110-05
LANE CLOSURE TWO-LANE HIGHWAY CASE I	
LANE CLOSURE TWO-LANE HIGHWAY CASE II	
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-01
SHOULDER CLOSURE	
POST SPLICING DETAIL	
PAVEMENT CONDITION WARNING SIGNS	TTD-125
MOBILE OPERATION FOR PAINT STRIPING CASE I	
MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-01
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-01
MOBILE OPERATION FOR PAINT STRIPING CASE IV	TTS-115-01

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

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

I. Application

- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages

IV. Statements and Payrolls

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 (between forty and seventy); 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 (between forty and seventy). 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, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin 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 (between forty and seventy), 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.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or

mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

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 (6) provides:

No present or former public servant shall, within six (6) months of 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 the state in matters in which he was directly involved during 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, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved 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.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, 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, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall not apply to this Contract.

TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

WORKERS......MINIMUM HOURLY RATE.....\$7.25

Note: Parts III and IV of **"Labor and Wage Requirements Applicable to Other Than Federal-Aid System Projects"** do not apply to this project.

THE LINETED OTATEO DEPARTMENT OF LADOR MADE AND HOUR DIVISION

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE \$7,25 PER HOUR BEGINNING JULY 24, 2009

OVERTIME PAY At least $1\frac{1}{2}$ times your regular rate of pay for all hours worked over 40 in a workweek.

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

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

No more than

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

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

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

ENFORCEMENT

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

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

ADDITIONAL INFORMATION

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



U.S. Department of Labor | Wage and Hour Division

PART IV

INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- Commercial General Liability-Occurrence form not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains ______ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS FRANKFORT, KY 40622

CONTRACT ID: 122208 COUNTY: MADISON PROPOSAL: FD05 076 0627 000-001

LINE NO	ITEM 	DESCRIPTION	APPROXIMATE U QUANTITY	JNIT	UNIT PRICE	 AMOUNT
	SECTION 0001 ROADWAY					
0010	00190 	LEVELING & WEDGING PG64-22	90.000	TON		
0020	00212 	CL2 ASPH BASE 1.00D PG64-22		TON		
0030	00388 	CL3 ASPH SURF 0.38B PG64-22	1,365.000 	TON		
0040	02562 	SIGNS	250.000	SQFT		
0050	02650 	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
0060	02676 	MOBILIZATION FOR MILL & TEXT	(1.00) 	LS		
0070	02677 	ASPHALT PAVE MILLING & TEXTURING	 175.000 	TON		
0080	02696 	SHOULDER RUMBLE STRIPS-SAWED	4,550.000	LF		
0090	04830 	LOOP WIRE	 640.000	LF		
0100	04895 	LOOP SAW SLOT AND FILL	305.000 	LF		
0110	06510	PAVE STRIPING-TEMP PAINT-4 IN	7,810.000	LF		
0120	06514 	PAVE STRIPING-PERM PAINT-4 IN	 15,625.000 	LF		
0130	06568 	PAVE MARKING-THERMO STOP BAR-24IN	 111.000 	LF		
0140	06569 	PAVE MARKING-THERMO CROSS-HATCH	22.000	SQFT		
0150	06574 	PAVE MARKING-THERMO CURV ARROW	 11.000 	EACH		
0160	06600 	REMOVE PAVEMENT MARKER TYPE V	47.000	EACH		
0170	20458ES403	CENTERLINE RUMBLE STRIPS	3,100.000	LF		
0180		SHOULDER FAILURE REPAIR	 262.000			
		DEMOBILIZATION				
0190	02569 	DEMOBILIZATION (AT LEAST 1.5%)	LUMP			
		TOTAL BID	 			