

CALL NO. 300

CONTRACT ID. 161023

LEWIS COUNTY

FED/STATE PROJECT NUMBER FD07 068 0008 028-029

DESCRIPTION KY-8

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 17 WORKING DAYS

## LETTING DATE: August 26,2016

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 26,2016. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

PLANS AVAILABLE FOR THIS PROJECT.

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

## TABLE OF CONTENTS

### PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- STATE CONTRACT NOTES
- ASPHALT MIXTURE
- DGA BASE
- DGA BASE FOR SHOULDERS
- INCIDENTAL SURFACING
- COMPACTION OPTION B
- RIGHT OF WAY NOTES
- UTILITY IMPACT & RAIL CERTIFICATION NOTES
- RAILROAD NOTES
- KPDES STORM WATER PERMIT, BMP AND NOI

## PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATION

## PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY 1,2,3,4 / STATE (UNDER 250,000)
- PROJECT WAGE RATES LOCALITY 1,2,3,4 / STATE

### PART IV INSURANCE

## PART V BID ITEMS

# PART I SCOPE OF WORK

## **ADMINISTRATIVE DISTRICT - 09**

**CONTRACT ID - 161023** 

FD07 068 0008 028-029

**COUNTY - LEWIS** 

PCN - DE06800081623 FD07 068 0008 028-029

KY-8 CONSTRUCT RIGHT TURN LANE ON KY-8 BETWEEN MP 28.7 AND MP 29.0.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 09-00000.00.

GEOGRAPHIC COORDINATES LATITUDE 38:40:11.00 LONGITUDE 83:05:20.00

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

17 WORKING Days

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/construction-procurement)

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

## JOINT VENTURE BIDDING

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

## **UNDERGROUND FACILITY DAMAGE PROTECTION**

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

## SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2016 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

## REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

## SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

### HARDWOOD REMOVAL RESTRICTIONS

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

## INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

## **ACCESS TO RECORDS**

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

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

06/01/16

## 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.

LEWIS COUNTY FD07 068 0008 028-029

#### Contract ID: 161023 Page 9 of 107

#### 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.

#### **DGA BASE**

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

#### DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

### INCIDENTAL SURFACING

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

## **OPTION B**

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



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

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

## **RIGHT OF WAY CERTIFICATION**

Original	X	Re-Certificati	on		RIGHT	DF WAY CERTIFIC	ATION		
ITEM (				OUNTY		ECT # (STATE)	PROJECT # (FEDERAL)		
9-0000.00		Lewis	Lewis		FD07 068 74		N/A		
PROJECT DESCR	IDTIO		-		11007 000 7	473030K	N/A		
		IA .							
Turn Lane on KY 8									
No Additional Right of Way Required									
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations									
under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or									
relocation assistance were required for this project.									
Condition # 1 (Additional Right of Way Required and Cleared)									
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical									
possession. Irial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements									
remaining on the right-or-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the									
rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the									
court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.									
Condition # 2 (Additional Right of Way Required with Exception)									
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the									
project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but									
right of entry been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right									
to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just									
Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract									
Condition # 3 (Additional Right of Way Required with Exception)									
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All									
remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24,204. KYTC is hereby									
requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not									
be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR									
court for some par	ceis ui	itii after bid letti	ng. Ki	rTC will fully meet	all the requirement	ts outlined in 23 CFI	R 635,309(c)(3) and 49 CER		
AWARD of the con	xpea:	ce completion of	all ac	quisitions, relocat	ions, and full payme	ents after bid letting	and prior to		
Total Number of Parcel			EXCEPTION (5) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION				
Number of Parcels Tha			EXCE	Filore (3) Farter ii	ANTICI	PATED DATE OF POSSES:	SION WITH EXPLANATION		
Signed Deed									
Condemnation									
Signed ROE					THE STATE OF THE S				
Notes/ Comments (U	Ise Add	litional Sheet if ne	cessa	ry)					
					e a company	A)			
LPA RW Project Manager			ger	Right of Way Supervisor		upervisor			
Printed Name					Printed Name	- St	nannon Dearing		
Signature					Signature	Shein			
Date					Date	Signique	The second secon		
Right of Way Director					1/20/2010				
Deleted Many					FHWA				
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Date		0 2	04	ely 2016	Date				

Contract ID: 161023 Page 11 of 107

## UTILITIES AND RAIL CERTIFICATION NOTE

LEWIS COUNTY
FD07 0068 0008 028-029
Construct right hand turn
lane on KY 8 @ Old County Road /Nelson Brothers
Item Number 09-0000.00

#### **GENERAL PROJECT NOTE ON UTILITY PROTECTION**

No utility involvement on this project

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

N/A

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

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

N/A

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

N/A.

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

N/A

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

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

**See Special Railroad Protection Notes** 

## UTILITIES AND RAIL CERTIFICATION NOTE

LEWIS COUNTY
FD07 0068 0008 028-029
Construct right hand turn
lane on KY 8 @ Old County Road /Nelson Brothers
Item Number 09-0000.00

## <u>SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES</u>

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

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

#### **BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities

## **UTILITIES AND RAIL CERTIFICATION NOTE**

LEWIS COUNTY
FD07 0068 0008 028-029
Construct right hand turn
lane on KY 8 @ Old County Road /Nelson Brothers
Item Number 09-0000.00

in the area.

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

## **AREA UTILITIES CONTACT LIST**

**Utility Company/Agency** 

**Contact Name** 

**Contact Information** 

N/A

## SPECIAL NOTE FOR RAILROAD FLAGGING

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

- 1. **DESCRIPTION.** It is estimated this project will require 20 days of railroad flagging. Guidelines for determining when flagging protection will be needed are included in the Special Provisions for Protection of Railroad Interest. The Daily Rate for this project will be \$1,000.00
- **2. DEFINITION OF FLAGGING.** The particular Railroad(s) involved in this project will define when flagging is required (see <u>Summary for KYTC Projects That Involve a Railroad and Special Provisions for Protection of Railroad Interest</u>) and the number of flaggers needed. At least 2 weeks notice is required before flagging will be provided, but it could take up to 30 days. It will remain the Contractor's responsibility to schedule work including any down time (such as winter) so as to minimize the use of flagging services. The Department retains no responsibility for coordinating flagging services between the Railroad and the Contractor.
- 3. REDUCTION AND EXTENSION OF RAILROAD FLAGGING TIME. Based upon the Kentucky Standard Specifications, any changes in contract time for this project will be by change order. If the nature of the work in the change order necessitates additional use of railroad flagging services, then that shall be identified in that change order and the number of calendar days for railroad flagging services shall be increased. By signing the change order, the contractor waives all rights to any future request to change the number of days of railroad flagging associated with the work in that change order. Since the number of days involves the cost to the Department and not the Contractor, the number of days of railroad flagging shall not be reduced.
- 4. **MEASUREMENT.** The Department will keep track of calendar days that railroad flagging is performed. This will include any day that any railroad flagger charges a minimum of 5 hours of onsite flagging. Except that from April 1<sup>st</sup> thru November 30<sup>th</sup> this will not include days where the Contractor cannot perform at least 5 hours of the work that necessitates railroad flagging due to weather, seasonal, or temperature limitations of the Specifications, or other conditions beyond the control of the Contractor as judged by the Engineer. From Dec 1<sup>st</sup> thru March 30<sup>th</sup> any day that any railroad flagger charges a minimum of 5 hours of onsite flagging then a calendar day of railroad flagging will be counted; without regard to weather, seasonal or temperature limitations of the Specifications. The Engineer will furnish the Contractor biweekly statements showing the number of railroad flagging days charged for the period. The Contractor acknowledges acceptance of, and agreement with, all bi-weekly statements unless the Contractor submits a written protest containing supporting evidence for a change within 14 calendar days of receiving the bi-weekly statement.

If the number of calendar days of railroad flagging has exceeded 20 days, then the Contractor will be charged for each day that additional flagging is needed multiplied by the Daily Rate. This will be in addition to any liquidated damages or other reimbursements that the contract or the Kentucky Standard Specifications may require. This charge will continue, based upon actual flagging use, until Formal Acceptance.

If upon Formal Acceptance the total number of calendar days that railroad flagging is performed is less than 20 days no additional monies will be given to the Contractor.



## SPECIAL NOTES FOR PROTECTION OF RAILROAD INTEREST

## CSX TRANSPORTATION, INC.

### I. AUTHORITY OF RAILROAD ENGINEER AND STATE ENGINEER:

- A. The authorized representative of the Railroad Company, hereinafter referred to as Railroad Engineer, shall have final authority in all matters affecting the safe maintenance of Railroad operations and property.
- B. The authorized representative of the State, hereinafter referred to as the Engineer, shall have authority over all other matters as prescribed herein and in the Project Specifications.

### II. NOTICE OF STARTING WORK:

- A. The Contractor shall not commence any work on Railroad rights of way until he has complied with the following conditions:
  - 1. Given the Railroad written notice, with copy to the Engineer who has been designated to be in charge of the work, at least ten (10) days in advance of the date he proposes to begin work on Railroad rights of way. The notice must refer to Railroad Agreement with the State by the date of the Agreement. If flagging service is required, such notice shall be submitted at least thirty (30) days in advance of the date scheduled to commence work. The Railroad's Contact information is on the Summary Sheet.
  - 2. Obtain written authorization from the Railroad to begin work on Railroad rights of way, such authorization to include an outline of specific conditions with which he must comply.
  - 3. Obtain written approval from the Railroad of Railroad Protective Insurance Liability coverage as required by paragraph 14 herein.
  - 4. Furnish a schedule for all work within the Railroad rights of way as required by paragraph 7, B, 1.
- B. The Railroad's written authorization to proceed with the work shall include the names, addresses, and telephone numbers of the Railroad's representatives who are to be notified as hereinafter required. Where more than one representative is designated, the area of responsibility of each representative shall be specified.

### III. INTERFERENCE WITH RAILROAD OPERATIONS:

- A. The Contractor shall so arrange and conduct his work that there will be no interference with Railroad operations, including train, signal, telephone and telegraphic services, or damage to the property of the Railroad Company or to poles, wires, and other facilities of tenants on the rights of way of the Railroad Company. The Contractor shall store materials so as to prevent trespassers from causing damage to trains or Railroad property and shall not use Railroad property without written permission from the Railroad. Whenever work is to affect the operations or safety of trains, the method of doing such work shall first be submitted to the Railroad Engineer for approval, but such approval shall not relieve the Contractor from liability. Any work to be performed by the Contractor which requires flagging service or inspection service (watchman) shall be deferred by the Contractor until the flagging protection required by the Railroad is available at the job site.
- B. Should conditions arising from, or in connection with the work, require that immediate and unusual provisions be made to protect train operations and property of the Railroad, the Contractor shall make such provisions. If in the judgment of the Railroad Engineer, or his representative, such provisions are insufficient, the Railroad Engineer may require or provide such provisions, as he deems necessary at Contractor's cost and expense. In any event, such unusual provisions shall be at the Contractor's expense and without cost and/or time to the Railroad or the State.

## IV. TRACK CLEARANCES

- A. The minimum track clearances to be maintained by the Contractor during construction are shown on the Project Plans. However, before undertaking any work within Railroad rights of way, or before placing any obstruction over any track, the Contractor shall:
  - 1. Notify the Railroad's representative <u>at least 72 hours in advance</u> of the work.
  - 2. Receive assurance from the Railroad's representative that arrangements have been made for flagging service as necessary.
  - 3. Receive permission from the Railroad's representative to proceed with the work.
  - 4. Ascertain that the State Engineer has received copies of notice to the Railroad and of the Railroad's response thereto, and has approved the contractor's methods.

## V. CONSTRUCTION PROCEDURES

#### A. General:

- 1. Construction work on Railroad property shall be:
  - a) Subject to the inspection and approval of the Railroad.
  - b) In accord with the Railroad's written outline of specific conditions.
  - c) In accord with the Railroad's general rules, regulations and requirements including those relating to safety, fall protection and personal protective equipment, which the Contractor shall obtain from the Railroad.
  - d) In accord with all Special Notes, Summaries, and Addendums.
- 2. The Railroad requires a submission of construction procedure that meets the requirements of these Special Notes and attachments. The Railroad's submittal review period is thirty (30) days. Resubmissions will be reviewed within (30) days.
- 3. All requirements of the *Construction Submission Criteria* shall be met. Requirements in addition to those in the *Construction Submission* Criteria are listed below in this document:

## B. Excavation:

- 1. The sub grade of an operated track shall be <u>maintained with edge of</u>
  <u>berm at least 15'0'' from centerline of track and not more than 24</u>
  <u>inches below top of rail.</u> Contractor will not be required to make existing section meet this specification if substandard, in which case the existing section will be maintained.
- 2. Additionally, the Railroad Engineer may require installation of orange construction fencing for protection of the work area located on Railroad right of way.

## C. Excavation of Structures:

1. The Contractor will be required to take special precaution and care in connection with excavating and shoring pits, and in driving piles, or sheeting for footings adjacent to tracks to provide adequate lateral support for the tracks and the loads which they carry, without disturbance of track alignment and surface, and to avoid obstructing track clearances with working equipment, tools or other material. The procedure for doing such work, including need of and plans for shoring, shall first be submitted, with the stamp of an Engineer in the State of Kentucky, and approved by

- the Engineer and the Railroad Engineer, but such approval shall not relieve the Contractor from liability.
- 2. Additionally, a walkway with handrail protection may be required as noted in Section XI herein.

## D. Demolition, Erection, Hoisting

- 1. Railroad tracks and other railroad property must be protected from damage during the procedure. No crane or equipment may be set on the rails or track structure and no material may be dropped on Railroad property.
- 2. Loads shall not be supported while any trains are passing if that piece of equipment has the capacity to **foul a 50' envelope.**
- 3. The Railroad may require the Contractor to install filter fabric over the track and ballast to prevent any concrete dust or other construction debris from fouling the ballast. This will be determined during actual construction activities by the Railroad or its representatives. Fabric should extend at least 25 feet beyond the outside edges of the bridge. Fabric will remain in place until all construction activities are complete.
- 4. Temporary construction clearance: Ensure all falsework, bracing, or forms have a minimum vertical clearance of 23 feet above the top of the highest rail and a minimum horizontal clearance of 12 feet measured perpendicular to the centerline of the nearest track.

## E. Blasting:

- 1. The Contractor shall obtain advance written approval of the Railroad Engineer and the Engineer for use of explosive on or adjacent to Railroad property. The request for permission to use explosives shall include a detailed blasting plan. If permission for use of explosives is granted, the Contractor will be required to comply with the following:
  - a) No blasting shall be done without the presence of an authorized representative of the Railroad. At least 10 days advance notice to the person designated in the Railroad's notice of authorization to proceed (see Section II.B above) will be required to arrange for the presence of an authorized Railroad representative and such flagging as the Railroad may require.

## 2. The Railroad representative will:

- a) Determine the approximate location of trains and advise the Contractor the approximate amount of time available for the blasting operation and clean-up.
- b) Have the authority to order discontinuance of blasting if, in his opinion, blasting is too hazardous or is not in accord with these Special Notes.

## F. Maintenance of Railroad Facilities:

- 1. The Contractor will be required to maintain all ditches and drainage structures free of silt or other obstructions which may result from his operations and provide and maintain any erosion control measures as required. The Contractor shall provide erosion control measures during construction and use methods that accord with applicable state standard specifications for road and bridge construction, including either (1) silt fence; (2) berm or temporary ditches; (3) sediment basin; (4) aggregate checks; and (5) channel lining. The Contractor will promptly repair eroded areas with Railroad rights of way and to repair any other damage to the property of the Railroad or its tenants at the Contractor's expense.
- 2. All maintenance and repair of damages due to the Contractor's operations shall be done at the Contractor's expense.

## *G. Storage of Materials and Equipment:*

- 1. Materials and equipment shall not be stored where they will interfere with Railroad operations, nor on the rights of way of the Railroad Company without first having obtained permission from the Railroad Engineer, and such permission will be with the understanding that the Railroad Company will not be liable for damage to such material and equipment from any cause and that the Railroad Engineer may move or require the Contractor to move, at the Contractor's expense, such material and equipment.
- 2. All grading or construction machinery that is left parked near the track unattended by a watchman shall be effectively immobilized so that it cannot be moved by unauthorized persons. The Contractor shall protect, defend, indemnify and save Railroad, and any associated, controlled or affiliated corporation, harmless from and against all losses, costs, expenses, claim or liability for loss or damage to property or the loss of life or personal injury, arising out of or incident to the Contractor's failure to immobilize grading or construction machinery.

## H. Cleanup:

1. Upon completion of the work, the Contractor shall remove from within the limits of the Railroad rights of way, all machinery, equipment, surplus materials, falsework, rubbish or temporary buildings of the Contractor, and leave said rights of way in a neat condition satisfactory to the Railroad Engineer or his authorized representative.

## VI. DAMAGES:

- A. The Contractor shall assume all liability for any and all damages to his/her work, employees, equipment and materials caused by Railroad traffic.
- B. Any cost incurred by the Railroad for repairing damages to its property or to property of its tenants, caused by or resulting from the operations of the Contractor, shall be paid directly to the Railroad by the Contractor.

### VII. FLAGGING SERVICES:

- A. When Required:
  - 1. Flagging services will not be provided until the contractor's insurance has been reviewed & approved by the Railroad.
  - 2. Under the terms of the agreement between the Department and the Railroad, the Railroad has sole authority to determine the need for flagging required to protect its operations. In general, the requirements of such services will be whenever the Contractor's personnel or equipment are likely to be, working on the Railroad's rights of way, or across, over, adjacent to, or under a track, or when such work has disturbed or is likely to disturb a railroad structure or the railroad roadbed or surface and alignment of any track to such extent that the movement of trains must be controlled by flagging. If any element (workers, equipment, tools, scaffolding, etc.) may exist or fall within 50 -feet of the edge of track, a flagman is necessary.
  - 3. Normally, the Railroad will assign one flagman to a project; but in some cases, more than one may be necessary, such as yard limits where three-(3) flagmen may be required. However, if the Contractor works within distances that violate instructions given by the Railroad's authorized representative or performs work that has not been scheduled with the Railroad's authorized representative, a flagman or flagmen may be required until the project has been completed.

## *B. Scheduling and Notification:*

- 1. Not later than the time that approval is initially requested to begin work on Railroad rights of way, Contractor shall furnish to the Railroad and the Department a schedule for all work required to complete the portion of the project within Railroad rights of way and arrange for a job site meeting between the Contractor, the Department, and the Railroad's authorized representative. Flagman or Flagmen may not be provided until the job site meeting has been conducted and the Contractor's work scheduled.
- 2. The Contractor will be required to give the Railroad representative at least 10 working days of advance written notice of intent to begin work within Railroad rights of way. If it is necessary for the Railroad to advertise a flagging job for bid, it may take up to 30-days to obtain **service**. Once begun, when work is suspended at any time for any reason, the Contractor will be required to give the Railroad representative at least 72 hours in advance before resuming work on Railroad rights of way. Such notice shall include sufficient details of the proposed work to enable the Railroad representative to determine if flagging will be required. If such notice is in writing, the Contractor shall furnish the Engineer a copy; if notice is given verbally it shall be confirmed in writing with copy to the Engineer. If flagging is required, no work shall be undertaken until the flagman, or flagmen is present at the job site. It may take up to 30 days to obtain flagging initially from the Railroad. When flagging begins the flagman is usually assigned by the Railroad to work at the project site on a continual basis until no longer needed and may be unable to be called for on a spot basis. If flagging becomes unnecessary and is suspended, it may take up to 30 days to again obtain flagging services from the Railroad. Due to labor agreements, it is necessary to give **5 working days notice** before flagging service may be discontinued and responsibility for payment stopped.
- 3. If, after the flagman is assigned to the project site, emergencies arise which require the flagman's presence elsewhere, and then the Contractor shall delay work on Railroad rights of way until such time as the flagman is again available. Any additional costs resulting from such delay shall be borne by the Contractor and not the Department or Railroad.
- 4. When demobilizing, the Contractor shall contact the flagman to avoid unnecessary flagging charges. This communication shall be documented.

## C. Payment:

- 1. The Cabinet will be responsible for paying the Railroad directly for any and all costs of flagging, which may be required to accomplish the construction.
- 2. The estimated cost of flagging is listed on the Summary Sheet. The charge to the Cabinet by the Railroad will be the actual cost based on the rate of pay for the Railroad's employees who are available for flagging service at the time the service is required.
- 3. Work by a flagman (M/W) in excess of 8 hours per day or 40 hours per week or on rest days, but not more than 16 hours a day will result in overtime pay at 1½ times the appropriate rate. Work by a flagman (M/W) in excess of 16 hours per day will result in overtime pay at 2 times the appropriate rate. Flagman (M/W) working in excess of 16 hours must receive a minimum of 5 hours of rest between shifts or their next shift of work is paid at the overtime rate of 2 times the appropriate rate. If work is performed on a holiday, the flagging rate is 2½ times the normal rate.

Work by a flagman (T&E) in excess of 8 hours per day or 40 hours per week, but not more than 12 hours a day will result in overtime pay at 1 ½ times the appropriate rate. After a 12 hour work day the flagman (T&E) must be provided with 12 hours of rest. Flagman (T&E) who work six days consecutive days must receive two days off.

Flagman's work day begins and ends at his reporting location.

4. Railroad work involved in preparing and handling bills will also be charged to the Contractor. Charges to the Department by the Railroad shall be in accordance with applicable provisions of Subchapter B, Part 140, Subpart I and Subchapter G, Part 646, Subpart B of the Federal-Aid Policy Guide issued by the Federal Highway Administration on December 9, 1991, including all current amendments. Flagging costs are subject to change. The above estimates of flagging cost are provided for information only and are not binding in any way.

## D. Verification:

- 1. The Contractor and Project Engineer will review and sign the Railroad flagman's time sheet, attesting that the flagman was present during the time recorded. Flagman may be removed by Railroad if form is not signed. If flagman is removed, the Contractor will not be allowed to reenter the Railroad rights of way until the issue is resolved. Any complaints concerning flagman or flagmen must be resolved in a timely manner. If need for flagman or flagmen is questioned, please contact the Railroad's Representative listed on the Project Summary Sheet. All verbal complaints must be confirmed in writing by the Contractor within 5 working days with copy to the Highway Engineer. All written correspondence should be addressed to the Railroad's Representative listed on the Project Summary Sheet.
- 2. The Railroad flagman assigned to the project will be responsible for notifying the Project Engineer upon arrival at the job site on the first day (or as soon thereafter as possible) that flagging services begin and on the last day that he performs such services for each separate period that services are provided. The Project Engineer will document such notification in the project records. When requested, the Project Engineer will also sign the flagman's diary showing daily time spent and activity at the project site.

## VIII. HAUL ACROSS RAILROAD:

- A. Where the plans show or imply that materials of any nature must be hauled across a Railroad, unless the plans clearly show that the State has included arrangements for such haul in its agreement with the Railroad, the Contractor will be required to make all necessary arrangements with the Railroad regarding means of transporting such materials across the Railroad. The Contractor will be required to bear all costs incidental, including flagging, to such crossings whether services are performed by his own forces or by Railroad personnel.
- B. No crossing may be established for use of the Contractor for transporting materials or equipment across the tracks of the Railroad Company unless a license agreement or right of entry is granted and executed for its installation, maintenance, necessary watching and flagging thereof and removal, all at the expense of the Contractor. The approval process for an agreement normally takes 90-days.

### IX. WORK FOR THE BENEFIT OF THE CONTRACTOR:

- A. All temporary or permanent changes in wire lines on the Railroad or other facilities which are considered necessary to the project are shown on the plans; included in the force account agreement between the State and the Railroad or will be covered by appropriate revisions to same which will be initiated and approved by the State and/or the Railroad.
- B. Should the Contractor desire any changes in addition to the above, then he shall make separate arrangements with the Railroad for same to be accomplished at the Contractor's expense.

## X. COOPERATION AND DELAYS:

- A. It shall be the Contractor's responsibility to arrange a schedule with the Railroad for accomplishing stage construction involving work by the Railroad or tenants of the Railroad. In arranging his schedule he shall ascertain, from the Railroad, the lead time required for assembling crews and materials and shall make due allowance therefore.
- B. Train schedules cannot be provided to the Contractor. It is the Contractor's responsibility to contact the Railroad in order to arrange "Track Time." This "Track Time" will be an agreed upon prearranged time period (duration) that the Railroad will, without undue burden, schedule no train traffic to facilitate the Contractor's work on or near Railroad right-of-way. This track time must be arranged during the submission review process.
- C. No charge or claims of the Contractor against either the Department or the Railroad will be allowed for hindrance or delay on account of railroad traffic; any work done by the Railroad or other delay incident to or necessary for safe maintenance of Railroad traffic or for any delays due to compliance with these Special Notes.
- D. The Contractor shall cooperate with others participating in the construction of the Project to the end that all work may be carried on to the best advantage.
- E. The Railroad does not assume any responsibility for work performed by others in connection with the Project. No claims of the Contractor against the Railroad for any inconvenience, delay, or additional cost incurred by the Contractor on account of operations by others shall be filed.

## XI. TRAINMAN'S WALKWAYS:

A. Along the outer side of each exterior track of multiple operated track, and on each side of single operated track, an unobstructed continuous space suitable for trainman's use in walking along trains, extending to a line not less than 12-10 feet from centerline of track, shall be maintained. Any temporary impediments to walkways and track drainage encroachments or obstructions allowed during work hours while Railroad's protective service is provided shall be removed before the close of each day. If there is any excavation near the walkway, a handrail, with 12'-0" minimum clearance from centerline of track, shall be placed.

### XII. GUIDELINES FOR PERSONNEL ON RAILROAD RIGHTS OF WAY:

- A. All persons shall wear hard hats and reflective vest. Appropriate eye and hearing protection must be used. Working in shorts is prohibited. Shirts must cover shoulders, back and abdomen. Working in tennis or jogging shoes, sandals, boots with high heels, cowboy and other slip on type boots is prohibited. High top (6-inch or more) safety-toe shoes with laces, oil-resistant soles, and a distinct separation between heel and sole are required.
- B. No one is allowed within <u>25' of the centerline of the track</u> without specific authorization from the flagman.
- C. All persons working near track when train is passing are to look out for dragging bands, chains and protruding or shifting cargo.
- D. No one is allowed to cross tracks without specific authorization from the flagman.
- E. All work within 25' of track must stop when train is passing.
- F. No steel tape or chain will be allowed to cross or touch rails without permission.

## XIII. GUIDELINES FOR EQUIPMENT ON RAILROAD RIGHTS OF WAY:

- A. No crane or boom equipment will be allowed to set up to work or park within boom distance plus 15' of centerline of track without specific permission from Railroad Engineer.
- B. No crane or boom equipment will be allowed to foul track or lift a load over the track without flag protection and track time.
- C. All employees will stay with their machines when crane or boom equipment is pointed toward track.
- D. All cranes and boom equipment under load will stop work while a train is passing (including pile driving).

- E. Swinging loads must be secured to prevent movement while train is passing.
- F. No loads will be suspended above a moving train.
- G. No equipment will be allowed within <u>50' of centerline of track</u> without specific authorization of the flagman.
- H. Trucks, tractors or any equipment will not touch ballast line without specific permission from railroad official and flagman.
- I. No equipment or load movement within 50' or above a standing train or other equipment without specific authorization of the flagman.
- J. All operating equipment within <u>50' of track must halt operations when a train is</u> <u>passing</u>. All other operating equipment may be halted by the flagman if the flagman views the operation to be dangerous to the passing train.
- *K.* All equipment, loads and cables are prohibited from touching rails.
- L. While clearing and grubbing, no vegetation will be removed from railroad embankment with heavy equipment without specific permission from the Railroad Engineer and flagman.
- M. No equipment or materials will be parked or stored on Railroad's property unless specific permission is granted from the Railroad Engineer.
- N. All unattended equipment that is left parked on Railroad property shall be effectively immobilized so that it cannot be moved by unauthorized persons.
- O. All cranes and boom equipment will be turned away from track after each work day or whenever unattended by an operator.

## XIV. INSURANCE:

- A. In addition to any other forms of insurance or bonds required under the terms of the contract and specifications, the Contractor will be required to carry insurance of the following kinds:
  - 1. Commercial General Liability coverage at their sole cost and expense with limits of not less than \$5,000,000 in combined single limits for bodily injury and/or property damage per occurrence, and such policies shall name the Railroad as an additional insured.
  - 2. Statutory Worker's Compensation and Employers Liability Insurance with limits of not less than \$1,000,000, which insurance must contain a waiver of subrogation against the Railroad and its affiliates.

- 3. Commercial automobile liability insurance with limits of not less than \$1,000,000 combined single limit for bodily injury and/or property damage per occurrence, and such policies shall name the Railroad as an additional insured.
- 4. Railroad Protective Liability (RPL) insurance with limits of not less than \$5,000,000 combined single limit for bodily injury and/or property damage per occurrence and an aggregate annual limit of \$10,000,000, which insurance shall satisfy the following additional requirements:
  - a. The Railroad Protective Insurance Policy must be on the ISO/RIMA Form of Railroad Protective Insurance – Insurance Services Office (ISO) Form CG 00 35.
  - b. The Railroad must be the named insured on the Railroad Protective Insurance Policy
  - c. Name and Address of the Contractor must be shown on the Declarations page.
  - d. Description of operations must appear on the Declarations page and must match the Project description, including project or contract identification numbers.
  - e. Terrorism Risk Insurance Act (TRIA) coverage must be included.
  - f. Authorized endorsements must include:
    - (i). Pollution Exclusion Amendment CG 28 31, unless using form CG 00 35 version 96 and later.
  - g. Authorized endorsements may include:
    - (i). Broad form Nuclear Exclusion IL 00 21
    - (ii). 30-day Advance Notices of Non-renewal or cancellation
    - (iii). Required State Cancellation Endorsement
    - (iv). Quick Reference or Index CL/IL 240
  - h. Authorized endorsements may not include:
    - (i). A Pollution Exclusion Endorsement except CG 28 31
    - (ii). An Endorsement that excludes TRIA coverage
    - (iii). An Endorsement that limits or excludes Professional Liability coverage
    - (iv). A Non-Cumulation of Liability or Pyramiding of Limits Endorsement

- (v). A Known Injury Endorsement
- (vi). A Sole Agent Endorsement
- (vii). A Punitive or Exemplary Damages Exclusion
- (viii). A 'Commong Policy Conditions' Endorsement
- (ix). Policies that contain any type of deductible
- (x). Any endorsement that is not named in Section 4 (f) or (g) above that the Railroad deems unacceptable
- 5. All insurance companies must be A. M. Best rated A- and Class VII or better.
- 6. Such additional or different insurance as the Railroad may require.

### B. Additional Terms:

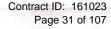
- 1. Contractor must submit the original Railroad Protective Liability policy, Certificates of Insurance, and all notices and correspondence regarding the insurance policy to the contact listed on the Project Summary Sheet.
- 2. The Contractor may not begin work on the Project until it has received the Railroad's written approval or the required insurance.
- C. Insurance policies shall follow the requirements of Subchapter G, Part 646, Subpart A of the Federal-Aid Policy Guide issued by the Federal Highway Administration on December 9, 1991, including all current amendments.
- D. If any part of the work is sublet, similar insurance and evidence thereof in the same amounts as required of the Prime Contractor shall be provided by or in behalf of the subcontractor to cover his operations. Endorsements to the Prime Contractor's policies specifically naming subcontractors and describing their operations will be acceptable for this purpose.
- E. All insurance herein before specified shall be carried until all work required to be performed under the terms of the contract has been satisfactorily completed within the limits of the rights of way of the Railroad as evidenced by the formal acceptance by the Department. Insuring Companies may cancel insurance by permission of the Department and Railroad or on thirty (30) days written notice to the Department and Railroad Insurance Contacts as listed on the Project Summary Sheet.

### XV. FAILURE TO COMPLY:

- A. These Special Notes are supplemental and amendatory to the current version of the Kentucky Department of Highways' Standard Specifications for Road and Bridge Construction and amendments thereof, and where in conflict therewith, these Special Notes shall govern.
- B. In the event the Contractor violates or fails to comply with any of the requirements of these Special Notes:
  - 1. The Railroad Engineer may require that the Contractor vacate Railroad property.
  - 2. The Engineer may withhold any and all monies due the Contractor on pay estimates.
  - 3. Any such orders shall remain in effect until the Contractor has remedied the situation to the satisfaction of the Railroad Engineer and the Engineer.

## XVI. PAYMENT FOR COST OF COMPLIANCE:

A. No separate payment will be made for any extra cost incurred on account of compliance with these Special Notes. All such cost shall be included in prices bid for other items of the work as specified in the payment items.



## **Kentucky Transportation Cabinet** Division of Right of Way & Utilities

TC 69-008 08/2010 Page 1 of 2

#### SUMMARY FOR KYTC PROJECTS THAT INVOLVE A RAILROAD

Date: 11/5/2015 (enter using M/d/yyyy format)

This project actively involves the below listed railroad company. This Project Summary provides an abbreviated listing of project specific railroad data. The detailed needs of the specified railroad company are included in the Special Notes for Protection of Railroad Interest in the proposal package. By submitting a bid, the contractor attests that they have dutifully considered and accepted the provisions as defined in both documents.

GENERAL ROAD PROJECT INFORMATION (This section must be provided by KYTC)

County:

Lewis

Federal Number:

N/A

State Number:

FD07 068 74738 30C

Route:

KY8

**Project Description:** 

Add Right Turn Lane on KY 8 at Nelson Brothers

**Item Number:** 

N/A

<u>5</u>

**Highway Milepost:** 

GENERAL RAIL INFORMATION (The below sections must be provided by Railroad Company)

Rail Company Name:

CSX Transportation, Inc.

AAR-DOT# (if applicable):

229 163W

Railroad Milepost:

CA-556.51

5 Train Count (24 hr total):

10

Train Count (6am to 6pm):

Train Count (6pm to 6am):

Maximum Train Speed: 79 mph

(This information is necessary to acquire the necessary insurances when working with Railroad Right of Way)

#### **INSURANCE REQUIREMENTS**

The named insured, description of the work and designation of the job site to be shown on the Policy are as follows:

- (a) Named Insured: CSX Transportation, Inc.
- The project description should be as indicated in the General Road Project Information section. (b)
- The designation of the jobsite is the route, Milepost, and AAR-DOT# listed above. (c)

#### FLAGGING INFORMATION

## Flagging Estimate:

See Special Note for Railroad Flagging for details. KYTC will be responsible for paying all flagging costs.

#### **Hourly Rate:**

\$1000.00 per day based on a 12 hour day effective as of the date of this document.

Work by a flagman in excess of 8 hours per day or 40 hours per week, but not more than 12 hours a day will result in overtime pay at 1 1/2 times the appropriate rate. Work by a flagman in excess of 12 hours per day will result in overtime pay at 2 times the appropriate rate. If work is performed on a holiday, the flagging rate is 2 ½ times the normal rate.

#### **Forecasted Rate Increases:**

Rates will increase to \$0.00 per hour based on a 0 hour day effective \_ (enter using M/d/yyyy format).

## RAILROAD CONTACTS

(to be provided by Railroad Company)

#### **General Railroad Contact:**

**Troy Creasy** 

CSX Transportation, Inc.

Project Manager - Public Projects

1610 Forest Ave., Suite 120

Richmond, VA 23229

(Phone) 804-226-7718

(Email) Troy Creasy@csx.com

## Regional Representative (Roadmaster):

**George Terry** 

CSX Transportation, Inc.

Roadmaster

(Phone) 606-564-3734

(Email) George Terry@CSX.com

#### Insurance contact:

**CSX Corporation** 

Insurance Department

(Phone)

(Email) insurancedocuments@csx.com

#### Railroad Designer Contact:

Contractor or In-House Employee? Consultant

Larry Shaw, PE

Sr. Project Manager

Benesch

201 N. Illinois St., 16th Floor South Tower

Indianapolis, IN 46204

(Phone) <u>317-610-3241</u>

(Email) LShaw@benesch.com

#### Railroad Construction Contact:

Contractor or In-House Employee? Consultant

Wayne Bolen, PE

Sr. Project Manager

Benesch

201 E Fifth Street, Suite 1900

Cincinnati, OH 45202

(Phone) <u>859-250-5483</u>

(Email) WBolen@benesch.com

## **KENTUCKY TRANSPORTATION CABINET CONTACTS**

(to be provided by KYTC)

#### **KYTC Railroad Coordinator:**

Allen Rust, PE Div. of Right of Way & Utilities **Kentucky Transportation Cabinet** 200 Mero Street, 5th Floor East Frankfort, Kentucky 40622 (Phone) 502-782-4950 (Email) allen.rust@ky.gov

#### **KYTC Construction Procurement Director:**

Rachel Mills, Director **Div. of Construction Procurement Kentucky Transportation Cabinet** 200 Mero Street, 3<sup>rd</sup> Floor West Frankfort, Kentucky 40622 (Phone) 502-782-5152 (Email) Rachel.Mills@ky.gov

#### KYTC Construction Director:

Ryan Griffith, Director Div. of Construction Procurement **Kentucky Transportation Cabinet** 200 Mero Street, 3<sup>rd</sup> Floor West Frankfort, Kentucky 40622 (Phone) 502-782-5127 (Email) ryan.griffith@ky.gov



The project specific information provided herein is valid as of the date indicated. However, the specific information may be subject to change due to the normal business operations of all parties. The terms and conditions defined here, and in the bid proposal in its entirety, are inclusive and constant.

# **CSX TRANSPORTATION**

## **CONSTRUCTION SUBMISSION CRITERIA**

CSXT Design and Construction Public Projects Group Jacksonville, FL Date Issued: November 1, 2013

## TABLE OF CONTENTS

NTRODUCTION	3
SECTION I: Definitions	3
SECTION II: Construction Submissions	5
SECTION III: Hoisting Operations	6
SECTION IV: Demolition Procedure	7
SECTION V: Erection Procedure	9
SECTION VI: Temporary Excavation and Shoring	10
SECTION VII: Track Monitoring	11

## INTRODUCTION

The intent of this document is to guide outside agencies and their Contractors when performing work on, over, or with potential to impact CSXT property (ROW). Work plans shall be submitted for review to the designated CSXT Engineering Representative for all work which presents the potential to affect CSXT property or operations; this document shall serve as a guide in preparing these work plans. All work shall be performed in a manner that does not adversely impact CSXT operations or safety; as such, the requirements of this document shall be strictly adhered to, in addition to all other applicable standards associated with the construction. Applicable standards include, but are not limited to, CSXT Standards and Special Provisions, CSXT Insurance Requirements, CSXT Pipeline Occupancy Criteria, as well as the governing local, county, state and federal requirements. It shall be noted that this document and all other CSXT standards are subject to change without notice, and future revisions will be made available at the CSXT website: <a href="https://www.csx.com">www.csx.com</a>.

## I. **DEFINITIONS**

- 1. **Agency** The project sponsor (i.e. State DOT, Local Agencies, Private Developer, etc.)
- AREMA American Railway Engineering and Maintenance-of-Way Association the North American railroad industry standards group. The use of this term shall be in specific reference to the AREMA Manual for Railway Engineering.
- 3. **Construction Submission** The Agency or its representative shall submit six (6) sets of plans, supporting calculations, and detailed means and methods procedures for the specific proposed activity. All plans, specifications, and supporting calculations shall be signed/sealed by a Professional Engineer as defined below.
- 4. **Controlled Demolition** Removal of an existing structure or subcomponents in a manner that positively prevents any debris or material from falling, impacting, or otherwise affecting CSXT employees, equipment or property. Provisions shall be made to ensure that there is no impairment of railroad operations or CSXT's ability to access its property at all times.
- 5. **Contractor** The Agency's representative retained to perform the project work.
- 6. **Engineer** CSXT Engineering Representative or a GEC authorized to act on the behalf of CSXT.
- 7. **Flagman** A qualified CSXT employee with the sole responsibility to direct or restrict movement of trains, at or through a specific location, to provide protection for workers.
- 8. **GEC** General Engineering Consultant who has been authorized to act on the behalf of CSXT.
- 9. **Horizontal Clearance** Distance measured perpendicularly from centerline of any track to the nearest obstruction at any elevation between TOR and the maximum vertical clearance of the track.
- 10. **Professional Engineer** An engineer who is licensed in State or Commonwealth in which the project is to occur. All plans, specifications, and supporting calculations shall be prepared by the Licensed Professional Engineer and shall bear his/her seal and signature.
- 11. **Potential to Foul** Work having the possibility of impacting CSXT property or operations; defined as one or more of the following:
  - a. Any activity where access onto CSXT property is required.
  - b. Any activity where work is being performed on CSXT ROW.
  - c. Any excavation work adjacent to CSXT tracks or facilities, within the Theoretical Railroad Live Load Influence Zone, or where the active earth pressure zone extends within the CSXT property limits.

Office of The Chief Engineer, Design & Construction CSXT Construction Submission Criteria Jacksonville Florida

Date issued: February 8, 2015

LEWIS COUNTY FD07 068 0008 028-029

- d. The use of any equipment where, if tipped and laid flat in any direction (360 degrees) about its center pin, can encroach within twenty five feet (25'-0") of the nearest track centerline. This is based upon the proposed location of the equipment during use, and may be a function of the equipment boom length. Note that hoisting equipment with the potential to foul must satisfy the 150% factor of safety requirement for lifting capacities.
- e. Any work where the scatter of debris, or other materials has the potential to encroach within twenty five feet (25'-0") of the nearest track centerline.
- f. Any work where significant vibration forces may be induced upon the track structure or existing structures located under, over, or adjacent to the track structure.
- g. Any other work which poses the potential to disrupt rail operations, threaten the safety of railroad employees, or otherwise negatively impact railroad property, as determined by CSXT.
- 12. **ROW** Right of Way; Refers to CSXT Right-of-Way as well as all CSXT property and facilities. This includes all aerial space within the property limits, and any underground facilities.
- 13. **Submission Review Period -** a minimum of thirty (30) days in advance of start of work. Up to thirty (30) days will be required for the initial review response. Up to an additional thirty (30) days may be required to review any/all subsequent submissions or resubmission.
- 14. **Theoretical Railroad Live Load Influence Zone** A 1½ horizontal to 1 vertical theoretical slope line starting 18 inches (1'-6") below top of tie elevation and twelve feet (12'-0") from the centerline of the nearest track.
- 15. **TOR** Top of Rail. This is the base point for clearance measurements. It refers to the crown (top) of the steel rail; the point where train wheels bear on the steel rails.
- 16. **Track Structure** All load bearing elements which support the train. This includes, but is not limited to, the rail, ties, appurtenances, ballast, sub-ballast, embankment, retaining walls, and bridge structures.
- 17. **Vertical Clearance** Distance measured from TOR to the lowest obstruction within six feet (6'-0") of the track centerline, in either direction.

Date issued: February 8, 2015

#### II. GENERAL SUBMISSION REQUIREMENTS

- A. A construction work plan is required to be submitted by the Agency or its Contractor, for review and acceptance, prior to accessing or performing any work with Potential to Foul.
- B. The Agency or its representative shall submit six (6) sets of plans, specifications, supporting calculations, and detailed means and methods procedures for the specific proposed work activity.
- C. Construction submissions shall include all information relevant to the work activity, and shall clearly and concisely explain the nature of the work, how it is being performed, and what measures are being taken to ensure that railroad property and operations are continuously maintained.
- D. All construction plans shall include a map of the work site, depicting the CSXT tracks, the CSXT right of way, proposed means of access, proposed locations for equipment and material staging (dimensioned from nearest track centerline), as well as all other relevant project information. An elevation drawing may also be necessary in order to depict clearances or other components of the work.
- E. Please note that CSXT will not provide pricing to individual contractors involved in bidding projects. Bidding contractors shall request information from the agency and not CSXT.
- F. The Contractor shall install a geotextile fabric ballast protection system to prevent construction or demolition debris and fines from fouling ballast. The geotextile ballast protection system shall be installed and maintained by the Contractor to the satisfaction of the Engineer.
- G. The Engineer shall be kept aware of the construction schedule. The Contractor shall provide timely communication to the Engineer when scheduling the work such that the Engineer may be present during the work. The Contractor's schedule shall not dictate the work plan review schedule, and flagging shall not be scheduled prior to receipt of an accepted work plan.
- H. At any time during construction activities, the Engineer may require revisions to the previously approved procedures to address weather, site conditions or other circumstances that may create a potential hazard to rail operations or CSXT facilities. Such revisions may require immediate interruption or termination of ongoing activities until such time the issue is resolved to the Engineer's satisfaction. CSXT and its GEC shall not be responsible for any additional costs or time claims associated with such revisions.
- I. Blasting will not be permitted to demolish a structure over or within CSXT's right-of-way. When blasting off of CSXT property but with Potential to Foul, vibration monitoring, track settlement surveying, and/or other protective measures may be required as determined by the Engineer.
- J. Blasting is not permitted adjacent to CSXT right-of-way without written approval from the Chief Engineer, CSXT.
- K. Mechanical and chemical means of rock removal must be explored before blasting is considered. If written permission for the use of explosives is granted, the Agency or Contractor must submit a work plan satisfying the following requirements:
  - 1. Blasting shall be done with light charges under the direct supervision of a responsible officer or employee of the Agency or Contractor.
  - 2. Electronic detonating fuses shall not be used because of the possibility of premature explosions resulting from operation of two-way train radios.
  - No blasting shall be done without the presence of an authorized representative of CSXT. Advance notice to the Engineer is required to arrange for the presence of an authorized CSXT representative and any flagging that CSXT may require.
  - 4. Agency or Contractor must have at the project site adequate equipment, labor and materials, and allow sufficient time, to clean up debris resulting from the blasting and correct any misalignment of tracks or other damage to CSXT property resulting from the blasting. Any corrective measures required must be performed as directed by the Engineer at the Agency's or Contractor's expense without any delay to trains. If Agency's or Contractor's actions result in the delay of any trains including passenger trains, the Agency or Contractor shall bear the entire cost thereof.

- 5. The Agency or Contractor may not store explosives on CSXT property.
- 6. At any time during blasting activities, the Engineer may require revisions to the previously approved procedures to address weather, site conditions or other circumstances that may create a potential hazard to rail operations or CSXT facilities. Such revisions may require immediate interruption or termination of ongoing activities until such time the issue is resolved to the Engineer's satisfaction. CSXT and its GEC shall not be responsible for any additional costs or time claims associated with such revisions.

#### III. HOISTING OPERATIONS

- A. All proposed hoisting operations with Potential to Foul shall be submitted in accordance with the following:
  - 1. A plan view drawing shall depict the work site, the CSXT track(s), the proposed location(s) of the lifting equipment, as well as the proposed locations for picking, any intermediate staging, and setting the load(s). All locations shall be dimensioned from centerline of the nearest track. Crane locations shall also be dimensioned from a stationary point at the work site for field confirmation.
  - 2. Computations showing the anticipated weight of all picks. Computations shall be made based upon the field-verified plans of the existing structure. Pick weights shall account for the weight of concrete rubble or other materials attached to the component being removed; this includes the weight of subsequent rigging devices/components. Rigging components shall be sized for the subsequent pick weight.
  - 3. All lifting equipment, rigging devices, and other load bearing elements shall have a rated (safe lifting) capacity that is greater than or equal to 150% of the load it is carrying, as a factor of safety. Supporting calculations shall be furnished to verify the minimum capacity requirement is maintained for the duration of the hoisting operation.
  - 4. Dynamic hoisting operations are prohibited when carrying a load with the Potential to Foul. Cranes or other lifting equipment shall remain stationary during lifting. (i.e. no moving picks).
  - 5. For lifting equipment, the manufacturer's capacity charts, including crane, counterweight, maximum boom angle, and boom nomenclature is to be submitted.
  - 6. A schematic rigging diagram must be provided to clearly call out each rigging component from crane hook to the material being hoisted. Copies of catalog or information sheets shall be provided to verify rigging weights and capacities.
  - 7. For built-up rigging devices, the contractor shall submit the following:
    - i. Details of the device, calling out material types, sizes, connections and other properties.
    - ii. Load test certification documents and/or design computations bearing the seal and signature of a Professional Engineer. Load test shall be performed in the configuration of its intended use as part of the subject demolition procedure.
    - iii. Copies of the latest inspection reports of the rigging device. The device shall be inspected within one (1) calendar year of the proposed date for use.
  - 8. A detail shall be provided showing the crane outrigger setup, including dimensions from adjacent slopes or facilities. The detail shall indicate requirements for bearing surface preparation, including material requirements and compaction efforts. As a minimum, outriggers and/or tracks shall bear on mats, positioned on level material with adequate bearing capacity.
  - 9. A complete written narrative that describes the sequence of events, indicating the order of lifts and any repositioning or re-hitching of the crane(s).

#### IV. DEMOLITION PROCEDURE

- A. The Agency or its Contractor shall submit a detailed procedure for a controlled demolition of any structure on, over, or adjacent to the ROW. The controlled demolition procedure must be approved by the Engineer prior to beginning work on the project.
- B. Existing Condition of structure being demolished:
  - 1. The Contractor shall submit as-built plans for the structure(s) being demolished.
  - 2. If as-built plans are unavailable, the Contractor shall perform an investigation of the structure, including any foundations, substructures, etc. The field measurements are to be made under the supervision of the Professional Engineer submitting the demolition procedure. Findings shall be submitted as part of the demolition means and methods submittal for review by the Engineer.
  - 3. Any proposed method for temporary stabilization of the structure during the demolition shall be based on the existing plans or investigative findings, and submitted as part of the demolition means and methods for review by the Engineer.
- C. Demolition work plans shall include a schematic plan depicting the proposed locations of the following, at various stages of the demolition:
  - 1. All cranes and equipment, calling out the operating radii.
  - All proposed access and staging locations with all dimensions referenced from the center line of the nearest track.
  - 3. Proposed locations for stockpiling material or locations for truck loading.
  - 4. The location, with relevant dimensions, of all tracks, other railroad facilities; wires, poles, adjacent structures, or buried utilities that could be affected, showing that the proposed lifts are clear of these obstructions.
  - 5. Note that no crane or equipment may be set on the CSXT rails or track structure and no material may be dropped on CSXT property.
- D. Demolition submittal shall also include the following information:
  - 1. All hoisting details, as dictated by Section III of this document.
  - 2. A time schedule for each of the various stages must be shown as well as a schedule for the entire lifting procedure. The proposed time frames for all critical subtasks (i.e., torch/saw cutting various portions of the superstructure or substructure, dismantling splices, installing temporary bracing, etc.) shall be furnished so that the potential impact(s) to CSXT operations may be assessed and eliminated or minimized.
  - 3. The names and experience of the key Contractor personnel involved in the operation shall be included in the Contractor's means and methods submission.
  - 4. Design and supporting calculations shall be prepared, signed, and sealed by the Professional Engineer for items including the temporary support of components or intermediate stages shall be submitted for review. A guardrail will be required to be installed in a track in the proximity of temporary bents or shoring towers, when located within twelve feet (12'-0") from the centerline of the track. The guardrail will be installed by CSXT forces, at the expense of the Agency or its contractor.
- E. Girders or girder systems shall be stable at all times during demolition. Temporary bracing shall be provided at the piers, abutments, or other locations to resist overturning and/or buckling of the member(s). The agency shall submit a design and details of the proposed temporary bracing system, for review by the Engineer. Lateral wind forces for the temporary conditions shall be considered in accordance with AREMA, Chapter 8, Section 28.6.2. The minimum lateral wind pressure shall be fifteen pounds per square foot (15 psf).

Office of The Chief Engineer, Design & Construction CSXT Construction Submission Criteria Jacksonville Florida

- F. Existing, obsolete, bridge piers shall be removed to a minimum of three feet (3'-0") below the finished grade, final ditch line invert, or as directed by the Engineer.
- G. A minimum quantity of twenty five (25) tons of CSXT approved granite track ballast may be required to be furnished and stockpiled on site by the Contractor, or as directed by the Engineer.
- H. The use of acetylene gas is prohibited for use on or over CSXT property. Torch cutting shall be performed utilizing other materials such as propane.
- I. CSXT's tracks, signals, structures, and other facilities shall be protected from damage during demolition of existing structure or replacement of deck slab.

#### J. Demolition Debris Shield

- 1. On-track or ground-level debris shields (such as crane mats) are prohibited for use by CSXT.
- Demolition Debris Shield shall be installed prior to the demolition of the bridge deck or other
  relevant portions of the structure. The demolition debris shield shall be erected from the underside
  of the bridge over the track area to catch all falling debris. The debris shield shall not be the primary
  means of debris containment.
  - i. The demolition debris shield design and supporting calculations, all signed/sealed by a Professional Engineer, shall be submitted for review and acceptance.
  - ii. The demolition debris shield shall have a minimum design load of 50 pounds per square foot (50 psf) plus the weight of the equipment, debris, personnel, and all other loads.
  - iii. The Contractor shall verify the maximum particle size and quantity of the demolition debris generated during the procedure does not exceed the shield design loads. Shield design shall account for loads induced by particle impact; however the demolition procedure shall be such that impact forces are minimized. The debris shield shall not be the primary means of debris containment.
  - iv. The Contractor shall include installation/removal means and methods for the demolition debris shield as part of the proposed Controlled Demolition procedure submission.
  - v. The demolition debris shield shall provide twenty three feet (23'-0") minimum vertical clearance, or maintain the existing vertical clearance if the existing clearance is less than twenty three feet (23'-0").
  - vi. Horizontal clearance to the centerline of the track should not be reduced unless approved by the Engineer.
  - vii. The Contractor shall clean the demolition debris shield daily or more frequently as dictated either by the approved design parameters or as directed by the Engineer.

#### K. Vertical Demolition Debris Shield

- 1. This type of shield may be required for substructure removals in close proximity to CSXT track and other facilities, as determined by the Engineer.
- 2. The Agency or its Contractor shall submit detailed plans with detailed calculations, prepared, signed, and sealed by a Professional Engineer, of the protection shield.

#### V. ERECTION PROCEDURE

- A. The Agency or its Contractor shall submit a detailed procedure for erection of a structure with Potential to Foul. The erection procedure must be approved by the Engineer prior to beginning work on the project.
- B. Erection work plans shall include a schematic plan depicting the following, at all stages of the construction:
  - 1. All proposed locations of all cranes and equipment, calling out the operating radii.
  - All proposed access and staging locations with all dimensions referenced from the center line of the nearest track.
  - 3. All proposed locations for stockpiling material or locations for truck loading.
  - 4. The location, with relevant dimensions, of all tracks, other railroad facilities; wires, poles, adjacent structures, or buried utilities that could be affected, showing that the proposed lifts are clear of these obstructions.
- C. No crane or equipment may be set on the CSXT rails or track structure and no material may be dropped on CSXT property.
- D. For erection of a structure over the tracks, the following information shall be submitted for review and acceptance by the Engineer, at least thirty (30) days prior to erection:
  - 1. As-built beam seat elevations field surveyed upon completion of pier/abutment construction.
  - 2. Current Top of Rail (TOR) elevations field measured at the time of as-built elevation collection.
  - 3. Computations verifying the anticipated minimum vertical clearance in the final condition which accounts for all deflection and camber, based upon the current TOR and as-built beam seat elevations. The anticipated minimum vertical clearance shall be greater than or equal to that which is indicated by the approved plans. Vertical clearance (see definitions) is measured from TOR to the lowest point on the overhead structure at any point within six feet (6'-0") from centerline of the track. Calculations shall be signed and sealed by a Professional Engineer.
- E. Girders or girder systems shall be stable at all times during erection. No crane may unhook prior to stabilizing the beam or girder.
  - 1. Lateral wind forces for the temporary conditions shall be considered in accordance with AREMA, Chapter 8, Section 28.6.2. The minimum lateral wind pressure shall be fifteen pounds per square foot (15 psf).
  - 2. Temporary bracing shall be provided at the piers, abutments, or other locations to resist overturning and/or buckling of the member(s). The agency shall submit a design and details of the proposed temporary bracing system, for review by the Engineer.
  - 3. Temporary bracing shall not be removed until sufficient lateral bracing or diaphragm members have been installed to establish a stable condition. Supporting calculations, furnished by the Professional Engineer, shall confirm the stable condition.
- F. Erection procedure submissions shall also include the following information:
  - 1. All hoisting details, as dictated by Section III of this document.
  - 2. A time schedule for each of the various stages must be shown as well as a schedule for the entire lifting procedure. The proposed time frames for all critical subtasks (i.e. performing aerial splices, installing temporary bracing, installation of diaphragm members, etc.) shall be furnished so that the potential impact(s) to CSXT operations may be assessed and eliminated or minimized.
  - 3. The names and experience of the key Contractor personnel involved in the operation shall be included in the Contractor's means and methods submission.

- 4. A guardrail will be required to be installed in a track in the proximity of temporary bents or shoring towers, when located within twelve feet (12'-0") from the centerline of the track. The guardrail will be installed by CSXT forces, at the expense of the Agency or its Contractor.
- 5. Design and supporting calculations prepared by the Professional Engineer for items including the temporary support of components or intermediate stages shall be submitted for review.

#### VI. TEMPORARY EXCAVATION AND SHORING

- A. The Agency or its Contractor shall submit a detailed design and procedure for the installation of a sheeting/shoring system adjacent to the tracks. Shoring protection shall be provided when excavating with Potential to Foul, or as otherwise determined by CSXT. Shoring shall be provided in accordance with the AREMA, except as noted below.
- B. Shoring may not be required if all of the following conditions are satisfied:
  - 1. The excavation does not encroach within the Theoretical Live Load Influence Zone. Please refer to Figure 1.
  - 2. The track structure is situated on level ground, or in a cut section, and on stable soil.
  - 3. The excavation does not adversely impact the stability of a CSXT facility (i.e. signal bungalow, drainage facility, under grade bridge, building, etc), or the stability of any structure on, over, or adjacent to CSXT property with potential to foul.
  - 4. Shoring is not required by any governing federal, state, local or other construction code.
- C. Shoring is required when excavating the toe of an embankment. Excavation of any embankment which supports an active CSXT track structure without shoring will not be permitted.
- D. Trench boxes are not an acceptable means of shoring. Trench boxes are prohibited for use on CSXT property or within the Theoretical Railroad Live Load Influence Zone.
- E. Shoring shall be a cofferdam-type, which completely encloses the excavation. However, where justified by site or work conditions, partial cofferdams with open sides away from the track may be permissible, as determined by the Engineer.
- F. Cofferdams shall be constructed using interlocking steel sheet piles, or when approved by the Engineer, steel soldier piles with timber lagging. Wales and struts shall be included when dictated by the design.
- G. The use of tiebacks can be permissible for temporary shoring systems, when conditions warrant. Tiebacks shall have a minimum clear cover of 6'-0", measured from the bottom of the rail. Upon completion of the work, tiebacks shall be grouted, cut off, and remain in place.
- H. All shoring systems on, or adjacent to CSXT right-of-way, shall be equipped with railings or other fall protection, compliant with the governing federal, state or local requirements. Area around pits shall be graded to eliminate all potential tripping hazards.
- I. Interlocking steel sheet piles shall be used for shoring systems qualifying one or more of the following conditions:
  - 1. Within 18'-0" of the nearest track centerline
  - 2. Within the live load influence zone
  - 3. Within slopes supporting the track structure
  - 4. As otherwise deemed necessary by the Engineer.
- J. Sheet piles qualifying for one or more of the requirements listed in Section VI.I (above) of this document shall not be removed. Sheet piles shall be left in place and cut off a minimum of 3'-0" below the finished grade, the ditch line invert, or as otherwise directed by the Engineer. The ground shall be backfilled and compacted immediately after sheet pile is cut off.

Office of The Chief Engineer, Design & Construction CSXT Construction Submission Criteria Jacksonville Florida

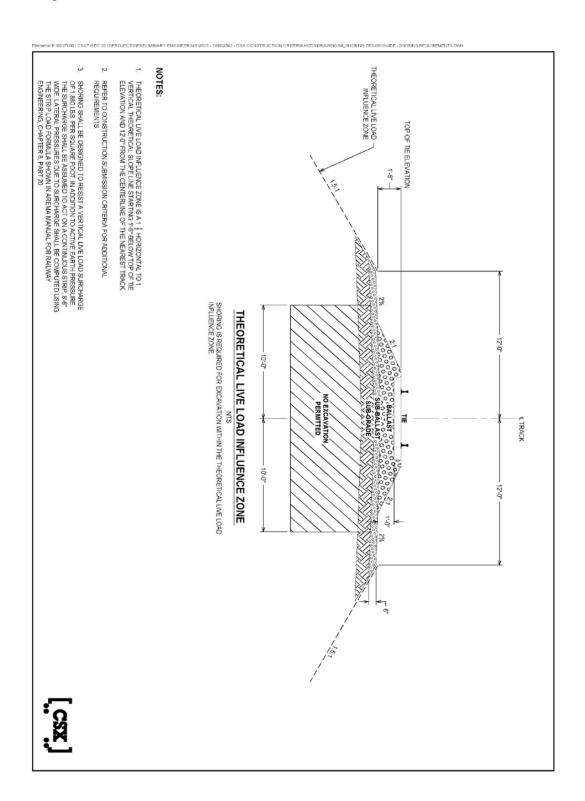
- K. The following design considerations shall be considered when preparing the shoring design package:
  - 1. Shoring shall be designed to resist a vertical live load surcharge of 1,880 lbs. per square foot, in addition to active earth pressure. The surcharge shall be assumed to act on a continuous strip, eight feet six inches (8'-6") wide. Lateral pressures due to surcharge shall be computed using the strip load formula shown in AREMA *Manual for Railway Engineering*, Chapter 8, Part 20.
  - 2. Allowable stresses in materials shall be in accordance with AREMA Chapter 7, 8, and 15.3.
  - 3. A minimum horizontal clearance of ten feet (10'-0") from centerline of the track to face of nearest point of shoring shall be maintained, provided a twelve feet (12'-0") roadbed is maintained with a temporary walkway and handrail system.
  - 4. For temporary shoring systems with Potential to Foul, piles shall be plumb under full dead load. Maximum deflection at the top of wall, under full live load, shall be as follows:
    - i. ½ inch for walls within twelve feet (12'-0") of track centerline (Measured from centerline of the nearest track to the nearest point of the supporting structure).
    - ii. 1 inch for walls located greater than twelve feet (12'-0") from track centerline
- L. Shoring work plans shall be submitted in accordance with Section II of this document, as well as the following additional requirements:
  - 1. The work plan shall include detailed drawings of the shoring systems calling out the sizes of all structural members, details of all connections. Both plan and elevation drawings shall be provided, calling out dimensions from the face of shoring relative to the nearest track centerline. The elevation drawing shall also show the height of shoring, and track elevation in relation to bottom of excavation.
  - 2. Full design calculations for the shoring system shall be furnished.
  - 3. A procedure for cutting off the sheet pile, backfilling and restoring the embankment.

#### VII. TRACK MONITORING

- A. When work being performed has the potential to disrupt the track structure, a work plan must be submitted detailing a track monitoring program which will serve to monitor and detect both horizontal and vertical movement of the CSXT track and roadbed.
- B. The program shall specify the survey locations, the distance between the location points, and frequency of monitoring before, during, and after construction. CSXT reserves to the right to modify the survey locations and monitoring frequency as necessary during the project.
- C. The survey data shall be collected in accordance with the approved frequency and immediately furnished to the Engineer for analysis.
- D. If any movement has occurred as determined by the Engineer, CSXT will be immediately notified. CSXT, at its sole discretion, shall have the right to immediately require all contractor operations to be ceased, have the excavated area immediately backfilled and/or determine what corrective action is required. Any corrective action required by CSXT or performed by CSXT including the monitoring of corrective action of the contractor will be at project expense.

Office of The Chief Engineer, Design & Construction CSXT Construction Submission Criteria Jacksonville Florida

Figure 1: Theoretical Live Load Influence Zone



South Portsmouth, Lewis Co., KY KYTC Project No. FD07 068 74738 30C

CSXT Milepost: CA-556.51 CSXT OP No.: KY0276

#### **EXHIBIT D**

### **CONTRACTOR'S ACCEPTANCE**

To and for the benefit of the <i>Company</i> , ("C	ompany")	and to induce the <i>Company</i> to
permit Contractor on or about <i>Company's</i> property	for the pu	urposes of performing work in
accordance with the Agreement dated	, 20_	_, between the Commonwealth of
Kentucky Transportation Cabinet, Department of H	Highways a	and the <i>Company</i> , Contractor
hereby agrees to abide by and perform all applicable	le terms of	f the Agreement, including,
particularly Exhibits B and C as included herein.		
Contra	actor: _	
	By:	
	Name:	
	Title: _	
	Date:	



# Kentucky Transportation Cabinet Highway District 9

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Construction

# Kentucky Pollutant Discharge Elimination System Permit KYR10 Best Management Practices (BMP) plan

**Groundwater protection plan** 

**For Highway Construction Activities** 

For

Lewis County; KY 8
Construct a Right Turning Lane approximately
located between MP 28.7 and 29.0

Project: PCN ## - ####; Item No. 9-0000.0

## **Project information**

Note -(1) = Design (2) = Construction (3) = Contractor

- 1. Owner Kentucky Transportation Cabinet, District 9
- 2. Resident Engineer: (2)
- 3. Contractor name: (2)

Address: (2)

Phone number: (2)

Contact: (2)

Contractors agent responsible for compliance with the KPDES permit requirements (3):

- 4. Project Control Number (2)
- 5. Route (Address) KY 8
- 6. Latitude/Longitude (project mid-point) 38/40/11; -83/05/20
- 7. County (project mid-point) Lewis
- 8. Project start date (date work will begin): (2)
- 9. Projected completion date: (2)

## A. Site description:

- Nature of Construction Activity (from letting project description) Construct a Right Turning Lane approximately located between MP 28.7 and 29.0
- 2. Order of major soil disturbing activities (2) and (3)
- 3. Projected volume of material to be moved 204 cubic yards
- 4. Estimate of total project area (acres) 0.85 acres
- 5. Estimate of area to be disturbed (acres) 0.85 acres
- Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
- 7. Data describing existing soil condition **None known.** & (2)
- 8. Data describing existing discharge water quality (if any) **None known.** & (2)
- 9. Receiving water name Scaffold Lick
- 10. TMDLs and Pollutants of Concern in Receiving Waters: Scaffold Lick does not appear on the KY Division of Water's 2012 303(d) list of impaired waters. It is also not listed as a Special Use Water by KY Division of Water. There are no TMDLs developed for this stream.
- 11. Site map Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.
- 12. Potential sources of pollutants:

The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

#### **B. Sediment and Erosion Control Measures:**

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

- 2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
- 3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
  - ➤ Construction Access This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
  - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover

- or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.
- ➤ Clearing and Grubbing The following BMP's will be considered and used where appropriate.
  - Leaving areas undisturbed when possible.
  - Silt basins to provide silt volume for large areas.
  - Silt Traps Type A for small areas.
  - Silt Traps Type C in front of existing and drop inlets which are to be saved
  - Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
  - Brush and/or other barriers to slow and/or divert runoff.
  - Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
  - Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
  - Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures The BMP Plan will be modified to show additional BMP's such as:
  - Silt Traps Type B in ditches and/or drainways as they are completed
  - Silt Traps Type C in front of pipes after they are placed
  - Channel Lining
  - Erosion Control Blanket
  - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
  - Non-standard or innovative methods
- ➤ Profile and X-Section in place The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
  - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
  - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
  - Additional Channel Lining and/or Erosion Control Blanket.
  - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
  - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) A final BMP Plan will result from modifications during this phase of construction. Probably changes include:

- Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
- Permanent Seeding and Protection
- Placing Sod
- Planting trees and/or shrubs where they are included in the project
- ▶ BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: None.

#### C. Other Control Measures

 No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.

#### 2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

#### 3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Resident Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

#### 4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

#### Good Housekeeping:

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

#### Hazardous Products:

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

#### The following product-specific practices will be followed onsite:

#### Petroleum Products:

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

#### > Fertilizers:

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

#### > Paints:

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

#### Concrete Truck Washout:

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

#### > Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as

appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.

- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contract with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill clean up will be disposed in accordance with appropriate regulations.

#### D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. *None.* 

#### E. Maintenance

- 1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
- Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. None.

## F. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- ➤ Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- ➤ Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 70 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

## G. Non - Storm Water discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- Water from water line flushings.
- Water form cleaning concrete trucks and equipment.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

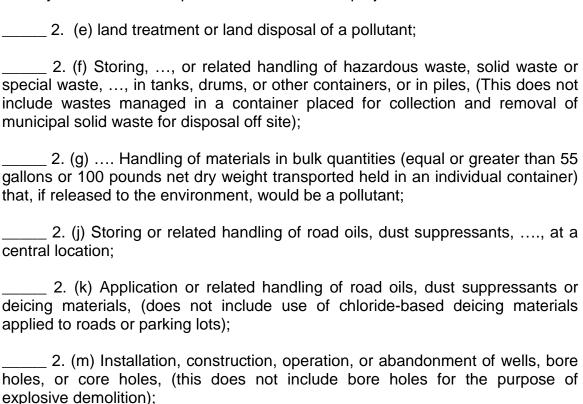
All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

## H. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:



Or, check the following only if there are no qualifying activities

\_\_\_\_\_ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the

401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

- (a) General information about this project is covered in the Project information;
- (b) Activities that require a groundwater protection plan have been identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
- (e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

#### Contractor and Resident Engineer Plan certification

The contractor that is responsible for implementing this BMP plan is identified in the Project Information section of this plan.

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

Resident Engineer and Contractor Certification:

(2) Resident Engine	er signature		
Signed Typed or p	title rinted name <sup>2</sup>	,signatu	re
(3) Signed Typed or pri	title nted name <sup>1</sup>	,sigr	nature

- 1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 200 Fair Oaks, Frankfort, Kentucky 40601. Reference the Project Control Number (PCN), KYTC Item No., and KPDES number when one has been issued.
- 2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 200 Fair Oaks, Frankfort, Kentucky 40601. Reference the Project Control Number (PCN), KYTC Item No., and KPDES number when one has been issued.

Subcontractor

KYTC BMP Plan for Project PCN ## - ####; Item No. 9-1000.0

### **Sub-Contractor Certification**

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

	Name: Address: Address:				
	Phone:				
The pa	art of BMP plan this sub	contractor is respons	sible to impler	nent is:	
Kentudischa discha	y under penalty of law cky Pollutant Discharge rges, the BMP plan tha rged as a result of stor gement of non-storm wa	Elimination System t has been develope m events associated	permit that and to manage with the con	uthorizes the sto the quality of wa struction site ac	rm water iter to be tivity and
Signed	d Typed or printed nam	_title e <sup>1</sup>	_,	signature	-

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 200 Fair Oaks, Frankfort, Kentucky 40601. Reference the Project Control Number (PCN), KYTC Item No., and KPDES number when one has been issued.

### SPECIAL NOTE

## **KPDES Stormwater Permit eNOI Process**

Lewis County; KY 8
Construct a Right Turning Lane approximately located between MP 28.7 and 29.0

Notices of Intent for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) should be submitted electronically using their form (eNOI) which is located at the following link:

https://dep.gateway.ky.gov/eForms/default.aspx?FormID=7.

The eNOI for this project has been initiated by the District 9 KYTC Project Development Branch and can be retrieved for completion using the following transaction ID number:

49e8d134-567e-4f9d-95e4-d7cfe4513136

Please be advised that the eNOI will be completed and submitted by District 9 personnel at some time after the project is let to construction and that no earth-disturbing activities can occur on the project until an official approval is obtained from the Kentucky Division of Water.

If there are any questions regarding this note, please contact David Waldner, Director, Division of Environmental Analysis, TCOB, 200 Mero Street, Frankfort, KY 40622, Phone: (502) 564-7250.

# **PART II**

# SPECIFICATIONS AND STANDARD DRAWINGS

### **SPECIFICATIONS REFERENCE**

Any reference in the plans or proposal to previous editions of the *Standard Specifications* for Road and Bridge Construction and Standard Drawings are superseded by Standard Specifications for Road and Bridge Construction, Edition of 2012 and Standard Drawings, Edition of 2016.

Subsection:	101.03 DEFINITIONS
Revision:	Add the following Definitions to this section:
220 (202022)	Superpave Mix Design Technologist (SMDT) - An inspector qualified by the KYTC to
	submit, adjust, or approve asphalt mix designs.
	Superpave Plant Technologist (SPT) - An inspector qualified by the KYTC to perform
	routine inspection and process control, acceptance, or verification testing on asphalt mixtures.
<b>Subsection:</b>	102.15 Process Agent.
Revision:	Replace the 1st paragraph with the following:
	Every corporation doing business with the Department shall submit evidence of compliance
	with KRS Sections 14A.4-010, 271B.11-010, 271B.11-070, 271B.11-080, 271B.5-010 and
	271B.16-220, and file with the Department the name and address of the process agent upon
	whom process may be served.
Subsection:	105.13 Claims Resolution Process.
<b>Revision:</b>	Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no
	longer available through the forms library and are forms generated within the AASHTO
	SiteManager software.
<b>Subsection:</b>	108.01 Subcontracting of Contract.
<b>Revision:</b>	Replace the section with the following:
	Do not subcontract, sell, transfer, assign, or otherwise dispose of the Contract or any portion of
	the Contract or Contracts, or of the right, title, or interest therein, without the Engineer's written consent. If the Contractor chooses to subcontract any portion of the Contract, a written
	request to sublet work must be submitted on the Subcontract Request (TC 63-35) form for the
	Engineer's approval. When directed by the Engineer, submit a certified copy of the actual
	subcontract agreement executed between the parties.
	•
	The Engineer will allow the Contractor to subcontract a portion, but the Contractor must
	perform with his own organization work amounting to no less than 30 percent of the total
	Contract cost. The Engineer will not allow any subcontractor to exceed the percentage to be
	performed by the Contractor and will require the Contractor to maintain a supervisory role over
	the entire project.
	Do not allow any subcontractor to further subcontract any portion of the work without
	obtaining written consent from the Engineer. When the Engineer gives such consent, the first
	tier subcontractor may further subcontract a portion of his work not to exceed 50 percent of the
	work originally subcontracted to him by the Contractor. Do not allow any second tier
	subcontractor to subcontract any portion of the work.
	Extra work performed by subcontractors in accordance with Section 109 will not be utilized in
	the computation of total dollar amount subcontracted. Subcontract percentages are based upon
	the original contract amount.
	Payment to subcontractors for satisfactory performance of their work or materials supplied must
	be made within 7 calendar days from receipt of payment from the Engineer. Upon request by
	the Engineer, provide proof that payment has been made to the subcontractor within the 7
	calendar days. Progress payments may be withheld for failure to comply with this request

The Engineer's written consent to subcontract, assign, or otherwise dispose of any portion of the Contract does not, under any circumstances, relieve the Contractor or the surety of their respective liabilities and obligations under the Contract. The Engineer will make transactions only with the Contractor. The Engineer will recognize subcontractors only in the similar capacity of employees or workers of the Contractor who are subject to the same requirements as to character and competence as specified in Subsection 108.06.

Lease agreements are acceptable on Department projects. No additional paperwork is needed when equipment is rented from a commercial rental company unless the leased equipment comes with an operator. In these circumstances, payroll records for the operator of the leased equipment must be maintained and submitted by the contractor in accordance with Department policy.

Lease agreements between contractors that involve equipment only will require the submittal of a TC 63-71 Department Equipment Rental Form. If a Contractor is found to be in violation of these requirements, the Engineer reserves the right to withhold payment for the work which was performed in violation of these requirements. This provision does not include the lease or use of equipment from a corporation or company wholly owned by the Contractor. The Contractor shall not use equipment in the performance of the Contract to which title is not held by the Contractor or an approved subcontractor without a submitted lease agreement.

If a public official has provided a documented Declaration of Emergency, then the Engineer may verbally waive the requirement of submitting a TC 63-71 Department Equipment Rental Form until the situation has ended. After the emergency situation ends, immediately remove the equipment from the project or submit a completed TC 63-71 Department Equipment Rental Form to the Engineer.

: 108.03 Preconstruction Conference.

#### **Revision:**

Replace 8) Staking with the following:

8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

#### **Subsection:**

109.07.02 Fuel.

#### **Revision:**

Revise item Crushed Aggregate Used for Embankment Stabilization to the following:

#### Crushed Aggregate

Used for Stabilization of Unsuitable Materials

Used for Embankment Stabilization

Delete the following item from the table.

Crushed Sandstone Base (Cement Treated)

#### **Subsection:**

110.02 Demobilization.

#### **Revision:**

Replace the first part of the first sentence of the second paragraph with the following:

Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12;

0 1 4 112.02

### **Subsection:**

112.03.12 Project Traffic Coordinator (PTC).

#### **Revision:** Replace the last paragraph of this subsection with the following:

Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses.

<b>Subsection:</b>	112.04.18 Diversions (By-Pass Detours).
Revision:	Insert the following sentence after the 2nd sentence of this subsection.
	The Department will not measure temporary drainage structures for payment when the contract
	documents provide the required drainage opening that must be maintained with the diversion.
	The temporary drainage structures shall be incidental to the construction of the diversion. If the
	contract documents fail to provide the required drainage opening needed for the diversion, the
	cost of the temporary drainage structure will be handled as extra work in accordance with
	section 109.04.
<b>Subsection:</b>	201.03.01 Contractor Staking.
<b>Revision:</b>	Replace the first paragraph with the following: Perform all necessary surveying under the
	general supervision of a Professional Engineer or Land Surveyor licensed in the
	Commonwealth of Kentucky.
<b>Subsection:</b>	201.04.01 Contractor Staking.
Revision:	Replace the last sentence of the paragraph with the following: Complete the general layout of
	the project under the supervision of a Professional Engineer or Land Surveyor licensed in the
	Commonwealth of Kentucky.
	206.04.01 Embankment-in-Place.
Revision:	Replace the fourth paragraph with the following: The Department will not measure <b>suitable</b>
	excavation included in the original plans that is disposed of for payment and will consider it
	incidental to Embankment-in-Place.
	208.02.01 Cement.
<b>Revision:</b>	Replace paragraph with the following:
	Select Type I or Type II cement conforming to Section 801. Use the same type cement
Carbanation.	throughout the work.  208.03.06 Curing and Protection.
Revision:	Replace the fourth paragraph with the following:  Do not allow traffic or equipment on the finished surface until the stabilized subgrade has
	cured for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A
	curing day consists of a continuous 24-hour period in which the ambient air temperature does
	not fall below 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but
	must total seven (7), 24-hour days with the ambient air temperature remaining at or above 40
	degrees Fahrenheit before traffic or equipment will be allowed to traverse the stabilized
	subgrade. The Department may allow a shortened curing period when the Contractor requests.
	The Contractor shall give the Department at least 3 day notice of the request for a shortened
ļ	curing period. The Department will require a minimum of 3 curing days after final compaction.
	The Contractor shall furnish cores to the treated depth of the roadbed at 500 feet intervals for
	each lane when a shortened curing time is requested. The Department will test cores using an
	unconfined compression test. Roadbed cores must achieve a minimum strength requirement of
	80 psi.
<b>Subsection:</b>	208.03.06 Curing and Protection.
Revision:	Replace paragraph eight with the following:
	At no expense to the Department, repair any damage to the subgrade caused by freezing.

**Revision:** 

Delete the second paragraph.

	Effective with the April 29, 2016 Letting
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Revision:	Revise <b>Seed Mix Type I</b> to the mixture shown below:
	50% Kentucky 31 Tall Fescue (Festuca arundinacea)
	35% Hard Fescue (Festuca (Festuca longifolia)
	10% Ryegrass, Perennial (Lolium perenne)
	5% White Dutch Clover (Trifolium repens)
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	2)
Revision:	Replace the paragraph with the following:
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed
	mix Type II at a minimum application rate of 100 pounds per acre. If adjacent to a golf course
	replace the crown vetch with Kentucky 31 Tall Fescue.
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	[3]
<b>Revision:</b>	Replace the paragraph with the following:
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and
	12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent
	to crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Delete the first sentence of the section.
<b>Subsection:</b>	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Replace the second and third sentence of the section with the following:
	Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of
	nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural
	limestone to the seedbed when the Engineer determines it is needed. When required, place
	agricultural limestone at a rate of 3 tons per acre.
	212.03.03 Permanent Seeding and Protection.
Part:	D) Top Dressing.
Revision:	Change the title of part to D) Fertilizer.
	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
Revision:	Replace the first paragraph with the following:
	Apply fertilizer at the beginning of the seeding operation and after vegetation is established.
	Use fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to
	the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-
	10 fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000
	square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply
	fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional
	cost to the Department. Re-establish any vegetation severely damaged or destroyed because of
Cubaatian	an excessive application of fertilizer at no cost to the Department.
	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.

Subsections	212.04.04 Agricultural Limestone.		
Revision:	Replace the entire section with the following:		
Kevision.	The Department will measure the quantity of agricultural limestone in tons.		
<b>Subsection:</b>	212.04.05 Fertilizer.		
Revision:	Replace the entire section with the following:		
Kevision:	The Department will measure fertilizer used in the seeding or sodding operations for payment.		
	The Department will measure the quantity by tons.		
<b>Subsection:</b>	212.05 PAYMENT.		
Revision:	Delete the following item code:		
Kevision:	Code Pay Item Pay Unit		
	05966 Topdressing Fertilizer Ton		
Subsection:	212.05 PAYMENT.		
Revision:	Add the following pay items:		
KCVISIOII.	Code Pay Item Pay Unit		
	05963 Initial Fertilizer Ton		
	05964 20-10-10 Fertilizer Ton		
	05992 Agricultural Limestone Ton		
Subsection:	213.03.02 Progress Requirements.		
Revision:			
	Replace the third paragraph with the following:		
	After exposing areas of erodible material, make every effort to stabilize and protect the areas as		
	quickly as possible. Permanently seed and mulch all areas at final grade within 14 days.		
	Temporary stabilization practices on those portions of the project where construction activities		
	have temporarily ceased shall be initiated within 14 days of the date of activity cessation. The		
	Engineer will suspend grading operations for instances where the Contractor fails to sustain		
	erosion control measures to effectively control erosion and to prevent water pollution in		
	accordance with the KPDES Permit. In addition, the Engineer will withhold monies due on		
	current estimates until corrective work has been initiated and is continuously progressing to		
	remediate noted deficiencies. Additionally, should noted deficiencies not be adequately		
	addressed to the satisfaction of the Engineer within 7 calendar days of receipt of written		
	notification of deficiencies, the Department will apply a penalty equal to the daily liquidated		
G 1 4	damages rate until all aspects of the work have been completed.		
	213.03.05 Temporary Control Measures.		
Part:	E) Temporary Seeding and Protection.		
Revision:	Delete the second sentence of the first paragraph.  304.02.01 Physical Properties.		
Subsection: Table:	· · · · · · · · · · · · · · · · · · ·		
Revision:	Required Geogrid Properties  Penlage all references to Test Method "GPL GG2 87" with ASTM D 7737		
Subsection:	Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.  402.03.02 Contractor Quality Control and Department Acceptance.		
Part:	B) Sampling.		
Revision:	Replace the second sentence with the following:		
IXC VISIUII.	The Department will determine when to obtain the quality control samples using the random-		
	number feature of the mix design submittal and approval spreadsheet. The Department will		
	randomly determine when to obtain the verification samples required in Subsections 402.03.03		
	and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.		
1			

**Subsection:** 402.03.02 Contractor Quality Control and Department Acceptance.

Part: D) Testing Responsibilities.

3) VMA. Number:

**Revision:** Add the following paragraph below Number 3) VMA:

> Retain the AV/VMA specimens and one additional corresponding G<sub>mm</sub> sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and specimens from the affected sublot(s) for the duration of the project.

**Subsection:** 402.03.02 Contractor Quality Control and Department Acceptance.

D) Testing Responsibilities. Part:

4) Density. Number:

**Revision:** Replace the second sentence of the Option A paragraph with the following:

Perform coring by the end of the following work day.

**Subsection:** 402.03.02 Contractor Quality Control and Department Acceptance.

D) Testing Responsibilities. Part:

Number: 5) Gradation.

**Revision:** Delete the second paragraph.

**Subsection:** 402.03.02 Contractor Quality Control and Department Acceptance.

H) Unsatisfactory Work. Part: 1) Based on Lab Data. Number:

Replace the second paragraph with the following: **Revision:** 

> When the Engineer determines that safety concerns or other considerations prohibit an immediate shutdown, continue work and the Department will make an evaluation of

acceptability according to Subsection 402.03.05.

402.03.03 Verification. **Subsection:** 

Replace the first paragraph with the following: Revision:

> **402.03.03 Mixture Verification.** For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA according to the corresponding procedures as given in Subsection 402.03.02. The Department will randomly determine when to obtain the verification sample using the Asphalt Mixture Sample Random Tonnage Generator. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405. The Contractor will obtain a quality control sample at the same time the Department obtains the mixture verification sample and perform testing according to the procedures given in Subsection 402.03.02. If the Contractor's quality control sample is verified by the Department's test results within the tolerances provided below, the Contractor's sample will serve as the quality control sample for the affected sublot. The Department may perform the mixture verification test on the Contractor's equipment or on the Department's equipment.

Subsection: 402.03.03 Verification.

A) Evaluation of Sublot(s) Verified by Department. Part:

**Revision:** Replace the third sentence of the second paragraph with the following:

> When the paired t-test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.

Subsection:	402.03.03 Verification.
Part:	B) Evaluation of Sublots Not Verified by Department.
<b>Revision:</b>	Replace the third sentence of the first paragraph with the following:
	When differences between test results are not within the tolerances listed below, the
	Department will resolve the discrepancy according to Subsection 402.03.05.
<b>Subsection:</b>	402.03.03 Verification.
Part:	B) Evaluation of Sublots Not Verified by Department.
<b>Revision:</b>	Replace the third sentence of the second paragraph with the following:
	When the F-test or t-test indicates that the Contractor's data and Department's data are possibly
	not from the same population, the Department will investigate the cause for the difference
	according to Subsection 402.03.05 and implement corrective measures as the Engineer deems
	appropriate.
<b>Subsection:</b>	402.03.03 Verification.
Part:	C) Test Data Patterns.
<b>Revision:</b>	Replace the second sentence with the following:
	When patterns indicate substantial differences between the verified and non-verified sublots,
	the Department will perform further comparative testing according to subsection 402.03.05.
<b>Subsection:</b>	402.03 CONSTRUCTION.
<b>Revision:</b>	Add the following subsection: 402.03.04 Testing Equipment and Technician Verification.
	For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the
	Department will obtain an additional verification sample at random using the Asphalt Mixture
	Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and
	Department's laboratory testing equipment and technicians. The Department will obtain a
	mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split
	it according to AASHTO R 47. The Department will retain one split portion of the sample and
	provide the other portion to the Contractor. At a later time convenient to both parties, the
	Department and Contractor will simultaneously reheat the sample to the specified compaction
	temperature and test the mixture for AV and VMA using separate laboratory equipment
	according to the corresponding procedures given in Subsection 402.03.02. The Department
	will evaluate the differences in test results between the two laboratories. When the difference
	between the results for AV or VMA is not within $\pm 2.0$ percent, the Department will investigate
	and resolve the discrepancy according to Subsection 402.03.05.
<b>Subsection:</b>	402.03.04 Dispute Resolution.
Revision:	Change the subsection number to 402.03.05.
	402.05 PAYMENT.
Part:	Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures
Table:	AC
Revision:	Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ±0.6.
	403.01 Description.
<b>Revision:</b>	Replace the sentence three and four of the first paragraph with the following:
	Provide a Superpave Plant Technologist (SPT) or Superpave Mix Design Technician (SMDT)
	qualified by the Laboratories' Quality Acceptance program. Be available to address all Quality
G 1 :	Control concerns arising during work performed under section 403.
	403.02.10 Material Transfer Vehicle (MTV).
Revision:	Replace the first sentence with the following:
	In addition to the equipment specified above, provide a MTV with the following minimum
	characteristics:

Cubacations	403.03.03 Preparation of Mixture
	C) Mix Design Criteria
Part:	
Number:	2) Revise part 2) to read as follows: Selection of Optimum AC. Normally, the Department will
<b>Revision:</b>	approve the AC at an air-void content of 4.0 percent. The Engineer may assign an AC
	corresponding to other air-void levels as deemed appropriate. Ensure the optimum AC is a
	minimum of 5.2 percent by weight of the total mixture for all 0.5-inch nominal surface
	mixtures and 5.5 percent by weight of the total mixture for all 0.38-inch nominal surface
Subsection:	mixtures. 412.02.09 Material Transfer Vehicle (MTV).
	` '
Revision:	Replace the paragraph with the following:
Cbasation.	Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.
Subsection: Revision:	412.03.07 Placement and Compaction.
Revision:	Replace the first paragraph with the following:
	Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on
	ramps and/or shoulders unless specified in the contract. When the Engineer determines the use
	of the MTV is not practical for a portion of the project, the Engineer may waive its requirement
C-14	for that portion of pavement by a letter documenting the waiver. 412.04 MEASUREMENT.
Revision:	Add the following subsection:  Al 2 0.4 0.3 Material Transfer Valida (MTV). The Department will not massure the MTV for
	412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for
C-14	payment and will consider its use incidental to the asphalt mixture.
	501.03.19 Surface Tolerances and Testing Surface.
Part:	B) Ride Quality.
Revision:	Add the following to the end of the first paragraph:
	The Department will specify if the ride quality requirements are Category A or Category B
	when ride quality is specified in the Contract. Category B ride quality requirements shall apply
	when the Department fails to classify which ride quality requirement will apply to the Contract.
Subsections	501.03.05 Weather Limitations and Protection.
Revision:	Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20.
	601.02.02 Cement
	Replace the third sentence with the following: The Department will allow the use of Type
ACVISIOII.	IP( $\leq 20$ ), Type IS( $\leq 30$ ), Type IL, Type II, and Type III when the Engineer approves.
<b>Subsection:</b>	601.02.02 Cement
Revision:	Replace the fifth sentence with the following: If unsatisfactory test results are obtained using
Kevisiuii:	Type IP( $\leq 20$ ), Type IS( $\leq 30$ ), Type IL, Type II, or Type III cement complete the work using
	Type I cement.
	Type I centent.

#### Contract ID: 161023 Page 71 of 107

# Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

				•	·		
Subsection:	601.03.02 Concrete	Producer Resp	onsibilities.				
Part:	E) Trip Tickets.						
Revision:	Replace the section with the following: Furnish a trip ticket containing the minimum information shown in the table below. Certify that						
	<del>-</del>					proved mix design.	
	Ensure that the plan				_		
	_	_			_		
	Department's jobsite inspector will complete all other necessary information on the back of the						
	trip ticket.						
	Contract Id:	Proj. Number:	Date:	County:			
	Truck No:	Producer Name:	Dute.	· · ·	er Sample Id:		
	Qty(Yds <sup>3</sup> ):						
		Time Loaded (Non					
	Begin Mixing T		M PM_	REV			
	Set Retarder Us		Yes	Type	No		
	Water Reducer		Yes	Туре	No		
	Water Underru	ınG	ial/Yd <sup>3</sup>		tal Gallons		
	Design W/C:	Actual W/C:	Slump (inche	s)			
	Batch Weight I	nformation:					
	Material: De	escription: Desig	gn Qty: Requ	ired: Batc	hed: %Var:	%Moisture: Actual:	
	Remarks:						
	*The data on th	his ticket is correc	t for the appro	oved concre	te mix design.	*	
	Signature:				Date:		
	oigilature.	KRMCA Level II Te	chnician or D	ant Manag			
		KRIVICA LEVEL II TE	chinician of P	ant Manage	er		
Subsection:	601.03.03 Proportioning and Requirements						
Part:	A) Concrete						
Revision:	Revise Table for INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VAR						
	CLASSES OF CONCRETE as follows: Replace "M1 w/ Type 1 cement" with "M1 w/ Type 1						
	or blended hydraulic cement"						
Subsection:			irements				
Part:	601.03.03 Proportioning and Requirements C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Revision:							
Xevision.	Revise part C) header to read as follows: Mixtures Using Type IP(≤20), IS(≤30), and IL Cement and Mineral Admixtures.						
			· ,				
	601.03.03 Proportioning and Requirements						
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	1)						
Revision:	Revise first sentence to read as follows: Type IP(≤20), IS(≤30), IL Cement.						
Subsection:	601.03.03 Proportion	oning and Requi	irements				
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures						
Number:	2)						
Revision:	Revise second sentence to read as follows: The use of fly ash, blast furnace slag cement, or						
WVISIUII.	TINE VISE SECURE SELL	chec to read as I	OHOWS. THE	use of HV	asii, viast lu	rnace Stag Cellielle, Ol	

micosilica in concrete is the Contractor's option.

<b>Subsection:</b>	601.03.03 Proportioning and Requirements				
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures				
Number:	2)				
<b>Revision:</b>	Revise the first sentence in the second paragraph to read as follows: When the ability to use				
	blast furnace slag cement or microsilica has not been demonstrated have the concrete producer				
	provide trial batches in accordance with Subsection 601.03.02 G) 1).				
<b>Subsection:</b>	601.03.03 Proportioning and Requirements				
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures				
Number:	2)				
Part:	b)				
<b>Revision:</b>	Revise first sentence to read as follows: Blast Furnace Slag Cement				
<b>Subsection:</b>	601.03.03 Proportioning and Requirements				
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures				
Number:	2)				
Part:	b)				
Revision:	Revise second sentence to read as follows: When added as a separate ingredient, use Grade				
	120 or Grade 100 slag to reduce the quantity of cement, except do not use blast furnace slag				
	cement to reduce the quantity of Type IS( $\leq$ 30) cement.				
<b>Subsection:</b>	601.03.03 Proportioning and Requirements				
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures				
Number:	2)				
Part:	b)				
<b>Revision:</b>	In part b), replace all references to "GGBF slag" with "blast furnace slag cement".				
	601.03.04 Classes and Primary Uses				
Part:	H) Class M1				
<b>Revision:</b>	Revise part H) to read as follows: High early strength for bridge joint repair and full or partial				
	depth bridge deck patching. (Type 1 cement or blended hydraulic cement)				
<b>Subsection:</b>	603.03.06 Cofferdams.				
Revision:	Replace the seventh sentence of paragraph one with the following:				
	Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of				
	Kentucky.				
<b>Subsection:</b>	605.03.04 Tack Welding.				
Revision:	Insert the subsection and the following:				
	605.03.04 Tack Welding. The Department does not allow tack welding.				
<b>Subsection:</b>	606.03.17 Special Requirements for Latex Concrete Overlays.				
Part:	A) Existing Bridges and New Structures.				
Number:	1) Prewetting and Grout-Bond Coat.				
Revision:	Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge				
	decks prepared by hydrodemolition.				
<b>Subsection:</b>	609.03 Construction.				
Revision:	Replace Subsection 609.03.01 with the following:				
	609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast				
	concrete release the temporary erection supports under the bridge and swing the span free on its				
	supports.				
	609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the				
	beam is placed in the final location and prior to placing steel reinforcement. At locations where				
	lift loops are cut, paint the top of the beam with galvanized or epoxy paint.				
	1 /1 1 S				

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	611.03.02 Precast Unit Construction.
Revision:	Replace the first sentence of the subsection with the following:
	Construct units according to ASTM C1577, replacing Table 1 (Design Requirements for
	Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions)
	with KY Table 1 (Precast Culvert KYHL-93 Design Table), and Section 605 with the
	following exceptions and additions:
<b>Subsection:</b>	613.03.01 Design.
Number:	2)
<b>Revision:</b>	Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD
	Bridge Design Specifications"
<b>Subsection:</b>	615.06.02
<b>Revision:</b>	Add the following sentence to the end of the subsection.
	The ends of units shall be normal to walls and centerline except exposed edges shall be beveled
	<sup>3</sup> / <sub>4</sub> inch.
<b>Subsection:</b>	615.06.03 Placement of Reinforcement in Precast 3-Sided Units.
<b>Revision:</b>	Replace the reference of 6.6 in the section to 615.06.06.
<b>Subsection:</b>	615.06.04 Placement of Reinforcement for Precast Endwalls.
<b>Revision:</b>	Replace the reference of 6.7 in the section to 615.06.07.
<b>Subsection:</b>	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.
<b>Revision:</b>	Replace the subsection with the following:
	Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be
	tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall
	meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and
	AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the
	overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1
	and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric
	shall be measured between the outer most longitudinal wires of each fabric sheet. For
	deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge
	Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a
	minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to
	center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no
	more than 4 inches. The spacing center to center of the longitudinal wires shall not be more
	than 8 inches. The spacing center to center of the longitudinal distribution steel for either line
	of reinforcing in the top slab shall be not more than 16 inches.
Cubaastiass	
Subsection: Revision:	615.06.07 Laps, Welds, and Spacing for Precast Endwalls.
IVEAI21011:	Replace the subsection with the following:  Splices in the reinforcement shall be made by lanning. I are may not be took yielded together.
	Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together
	for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements
	of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design
	Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the
	requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012
	Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet
	the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-
	to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.

Cbasation.	615 00 01 Time of Test Specimen		
	615.08.01 Type of Test Specimen.		
Revision:	Replace the subsection with the following:		
	Start-up slump, air content, unit weight, and temperature tests will be performed each day on		
	the first batch of concrete. Acceptable start-up results are required for production of the first		
	unit. After the first unit has been established, random acceptance testing is performed daily for		
	each 50 yd <sup>3</sup> (or fraction thereof). In addition to the slump, air content, unit weight, and		
	temperature tests, a minimum of one set of cylinders shall be required each time plastic		
	property testing is performed.		
<b>Subsection:</b>	615.08.02 Compression Testing.		
<b>Revision:</b>	Delete the second sentence.		
<b>Subsection:</b>	615.08.04 Acceptability of Core Tests.		
Revision:	Delete the entire subsection.		
<b>Subsection:</b>	615.12 Inspection.		
Revision:	Add the following sentences to the end of the subsection: Units will arrive at jobsite with the		
	"Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the		
	production facility. Units shall be inspected upon arrival for any evidence of damage resulting		
	from transport to the jobsite.		
<b>Subsection:</b>	701.04.16 Deduction for Pipe Deflection.		
Revision:	Insert the following at the end of the paragraph:		
	The section length is determined by the length of the pipe between joints where the failure		
	occurred.		
Subsection:	716.02.02 Paint.		
Revision:	Replace sentence with the following: Conform to Section 821.		
<b>Subsection:</b>	716.03 CONSTRUCTION.		
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural		
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current		
	interims,		
Subsection:	716.03.02 Lighting Standard Installation.		
Revision:	Replace the paragraph with the following:		
110 (151011)	Locate poles to avoid trees, drainage, structures, etc. Regardless of the station & offset noted,		
	locate all poles/bases behind guardrail a minimum of 4 feet behind the face of the guardrail.		
	All poles shall be placed as close to stations and offsets as stated on Plans to provide proper		
	illumination. If any pole needs to be relocated from stations indicated, the Division of Traffic		
	Operations shall be contacted. When submitting brochures for suggested luminaires include		
	iso lux curves, IES type distribution, lamp lumens, and typical ballast factor used for each type		
	of luminaire. Submit the photometric data in a digital IES format to the Division of Traffic		
	Operations. Include with the submittal a point of contact and phone number to answer		
	technical questions about the luminaire.		
Subsection:	716.03.02 Lighting Standard Installation.		
Part:	A) Conventional Installation.		
Revision:	Replace the third sentence with the following: Orient the transformer base so the door is		
	positioned on the side away from on-coming traffic.		
<b>Subsection:</b>	716.03.02 Lighting Standard Installation.		
Part:	A) Conventional Installation.		
Number:	1) Breakaway Installation and Requirements.		
Revision:	Replace the first sentence with the following: For breakaway supports, conform to Section 12		
14C v 151Ull.	of the AASHTO Standard Specifications for Structural Supports for Highway Signs,		
	Luminaires, and Traffic Signals, 2013-6th Edition with current interims.		
	Eummanes, and Traine Signals, 2013-001 Eumoli With Current Internits.		

**Subsection:** 716.03.02 Lighting Standard Installation.

Part: B) High Mast Installation

**Revision:** Replace the first three sentences of the first paragraph with the following: Install each high

mast pole as noted on Plans. Install each high mast pole on a separate circuit and use luminaires

with light patterns as indicated. Orient luminaires as shown in Plans.

**Subsection:** 716.03.02 Lighting Standard Installation.

Part: B) High Mast Installation
Number: 2) Concrete Base Installation

**Revision:** Modification of Chart and succeeding paragraphs within this section:

Drilled Shaft Depth Data							
3:1 Ground		2:1 (	Ground	1.5:1	Ground		
Level Ground		Sl	ope	Sl	lope	Slo	pe <sup>(2)</sup>
Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock
17 ft	7 ft	19 ft	7 ft	20 ft	7 ft	(1)	7 ft

Steel Requirements			
Vert	ical Bars	Tie	s or Spiral
Size	Total	Size	Spacing or Pitch
	Total	Size	Titell
#10	16	#4	12 inch

Note 1: Shaft length is 22 feet for cohesive soil only. For cohesionless soil, contact Geotechnical Branch for design.

Note 2: Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic Operations.

If rock is encountered during drilling operations and confirmed by the Engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the design table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted

If a shorter depth is desired for the drilled shaft, the Contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.

Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the Geotechnical Branch if such conditions

The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.

The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.

	716.03.03 Trenching.
Part:	A) Trenching of Conduit for Highmast Ducted Cables.
<b>Revision:</b>	Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain
	the Engineer's approval and maintain the required conduit depths coming into the junction
	boxes. No payment for additional junction boxes for greater depths will be allowed.
<b>Subsection:</b>	716.03.03 Trenching.
Part:	B) Trenching of Conduit for Non-Highmast Cables.
<b>Revision:</b>	Add the following after the second sentence: If depths greater than 24 inches are necessary for
	either situation listed previously, obtain the Engineer's approval and maintain the required
	conduit depths coming into the junction boxes.
<b>Subsection:</b>	716.03.04 Conduit Installation.
<b>Revision:</b>	Replace the first two sentences of the paragraph with the following: Provide rigid steel
	conduit encasement for all conductors except as specified in the Contract. Provide conduit that
	is listed on the Department's List of Approved Materials.
<b>Subsection:</b>	716.03.04 Conduit Installation.
Part:	A) Conduit Requirements in Junction Boxes.
Number: Revision:	1) Highmast Ducted Cable.
Revision:	Replace the first two sentences with the following: Install conduit horizontally through the junction box. Conduit shall be 4 inches from the bottom and 4 inches from the side of the
	junction box. Conduit shall be 4 inches from the bottom and 4 inches from the side of the junction box.
Subsection:	716.03.04 Conduit Installation.
Revision:	Add the following to the Part to the Subsection: <b>G) Bore and Jack.</b> Construction
Revision:	methods shall be in accordance with Subsections 706.03.02, paragraphs 1, 2 and 4.
<b>Subsection:</b>	716.03.08 Splicing.
Revision:	Replace the last sentence of the paragraph with the following: Ensure the splices are of the
ice vision.	correct size for the wire being used.
<b>Subsection:</b>	716.03.10 Junction Boxes.
Revision:	Replace subsection title with the following: Electrical Junction Box and replace the last
	sentence of the paragraph with the following: Any additional junction boxes shall be approved
	by the Engineer.
<b>Subsection:</b>	716.03.13 Temporary Lighting.
<b>Revision:</b>	Change subsection heading to the following: 716.03.13 Temporary/Maintain Lighting.
<b>Subsection:</b>	716.03.13 Temporary /Maintain Lighting.
Revision:	Replace the entire section with the following:
	The Contractor shall furnish and install all materials necessary to temporarily light the proposed
	roadway to design standards in Subsection 716.03. The Contractor shall submit his proposed
	design of temporary lighting to the Division of Traffic Operations for approval at least 30 days
	before installation.
	Maintain all lighting elements impacted within or outside the project limits until new lighting
	elements are installed and a functional inspection has been performed on the new lighting
	elements. The Contractor shall submit a proposed design for maintaining lighting to the
	Division of Traffic Operations for approval at least 30 days before installation.
	The state of the s

#### Contract ID: 161023 Page 77 of 107

<b>Subsection:</b>	716.03.14 Remove Lighting.
Revision:	
	Replace the section with the following: Remove all lighting equipment that is identified by the Engineer as no longer necessary including, but not limited to, the following: pole bases, poles, junction boxes, cabinets, and wood poles. Pole bases shall be removed a minimum of one foot below finished grade by chipping off or other method that is approved by the Engineer. Dispose of all removed concrete off right-of-way. Wood poles shall be removed a minimum of one foot below finished grade. Backfill holes with material approved by the Engineer. Conduit may be abandoned in the ground. All materials shall be removed from the project as directed by the Engineer. Transformers not owned by a utility shall be tested for PCB's and disposed of in accordance with state regulations.  716.03.15 Painting.
Revision:	710.03.13 Fainting.
Kevision.	
	Replace the first sentence with the following: Clean non-galvanized or damaged surfaces of exposed junction boxes, pull boxes, control panels, poles, and similar equipment, and apply one coat of an inhibiting paint and two coats of aluminum paint.
	716.04.01. Poles.
Revision:	Change the subsection heading to 716.04.01 Pole and replace the last sentence of the subsection with the following: The Department will not measure anchor bolts, washers, nuts, anchor bolt covers, ground lugs, and any associated hardware for payment and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.02 High Mast Pole.
Revision:	Replace the second sentence with the following: The Department will not measure the lowering device, anchor bolts, head frame assembly, cables, winch unit, power cables, wiring, connectors, circuit breakers, grounding lugs, ground wire, ground rods, conduits, test plugs,, adjustment and calibration of the unit to provide the desired operation, and any associated hardware for payment and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.03 Bracket.
Revision:	Replace the second sentence with the following: The Department will not measure any associated hardware needed for attaching the bracket to the pole for payment and will consider them incidental to this item of work.
	716.04.04 Pole Base.
<b>Revision:</b>	Change the subsection heading to 716.04.04 Pole Bases and delete the paragraph.
	716.04.04 Pole Bases.
Revision:	Insert the following:  A. Pole Base. The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure excavation, concrete, conduits, fittings, ground rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction of the Engineer, and any associated hardware for payment and will consider them incidental to this item of work.  B. Pole Base High Mast. The Department will measure the quantity in cubic yards furnished and installed. The Department will not measure excavation, concrete, conduits, fittings, ground rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction of the Engineer, and any associated hardware for payment and will consider them incidental to this item of work.

<b>Subsection:</b>	716.04.05 Pole Base in Median Wall.
	Replace the last sentence with the following: The Department will not measure conduits, fittings, junction boxes, additional reinforcing steel, ground rods, ground wire, ground lugs, and aluminum cover plates (if specified) for payment, and will consider them incidental to this item of work.
	716.04.06 Transformer Base.
Revision:	Replace the last sentence with the following: The Department will not measure transformer door, ground lug, anchoring bolts, nuts, washers, and any associated hardware for payment and will consider them incidental to this item of work. The filling of any unused holes will also be considered incidental to this item of work.
<b>Subsection:</b>	716.04.07 Pole with Secondary Equipment.
<b>Revision:</b>	Replace the heading with the following: 716.04.07 Pole with Secondary Control Equipment.
<b>Subsection:</b>	716.04.07 Pole with Secondary Control Equipment.
Revision:	Replace the second and third sentence with the following: The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, electrical inspection fees, and required building fees involving utility secondary, and primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The filling of unused holes will also be considered incidental to this item of work.
	716.04.08 Lighting Control Equipment.
Revision:	Replace the paragraph with the following:  The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The Department will not measure the filling of any unused holes with and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.09 Luminaire.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and will consider them incidental to this item of work.
Subsection:	716.04.10 Fused Connector Kits.

<b>Subsection:</b>	716.04.10 Fuse Connector Kits.
<b>Revision:</b>	Replace the paragraph with the following: The Department will measure the quantity as each
	individual unit furnished and installed. The Department will not measure fuses/lugs for
	payment and will consider them incidental to this item of work.
Subsection	716.04.11 Conduit.
Revision:	Replace the second sentence with the following: The Department will not measure installation
AC VISIOII.	in ground or on structures, conduit fittings, test plugs, expansion joints with bonding straps,
	grounding lugs, drill anchors, clamps, and any additional hardware required for payment and
	will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.12 Markers.
Revision:	Replace the section with the following: The Department will measure the quantity as each
AC VISIOII.	individual unit furnished and installed.
Subsection	716.04.13 Junction Box.
Revision:	Replace the subsection title with the following: Electrical Junction Box Type Various.
	716.04.13 Electrical Junction Box Type Various.
Revision:	Replace the section with the following: The Department will measure the quantity as each
210 (101011)	individual unit furnished and installed. The Department will not measure additional junction
	boxes for greater depths than those identified in Plans, #57 aggregate, backfilling, restoration of
	disturbed areas to the satisfaction of the Engineer, geotextile filter fabric, concrete, hot dipped
	galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for
	payment, and will consider them incidental to this item of work.
<b>Subsection:</b>	716.04.13 Junction Box.
Part:	A) Junction Electrical.
<b>Revision:</b>	Delete Part A.
<b>Subsection:</b>	716.04.14 Trenching and Backfilling.
<b>Revision:</b>	Replace the section with the following: The Department will measure the quantity in linear
	feet. The Department will not measure excavation, backfilling, underground utility warning
	tape (if required), and the restoration of disturbed areas to original condition for payment and
	will consider them incidental to this item of work.
	716.04.15 Wire or Cable.
<b>Revision:</b>	Replace the section with the following: The Department will measure the quantity in linear feet
	furnished and installed. The Department will not measure installation within conduit, splice
	boots, and any other hardware required for installing cable for payment and will consider them
	incidental to this item of work.
	716.04.16 Ducted Cable.
Subsection: Revision:	716.04.16 Ducted Cable.  Replace the second sentence of the paragraph with the following: The Department will not
	716.04.16 Ducted Cable.  Replace the second sentence of the paragraph with the following: The Department will not measure installation within trench or conduit and any other necessary hardware for payment
Revision:	716.04.16 Ducted Cable.  Replace the second sentence of the paragraph with the following: The Department will not measure installation within trench or conduit and any other necessary hardware for payment and will consider them incidental to this item of work.
Revision:	716.04.16 Ducted Cable.  Replace the second sentence of the paragraph with the following: The Department will not measure installation within trench or conduit and any other necessary hardware for payment

Subsection	716 04 17 Temr	orary Lighting/Maintain Lighting.			
Revision:	Delete the paragraph and add the following parts:				
Revision.		Lighting. The Department will measu	ire the quantity by lumn sum. The		
		I not measure poles, luminaires, wire			
	_	-	gn (if required), and any other necessary		
		The state of the s			
	hardware to make a complete installation for payment and will consider them incidental to this item of work.				
		thting. The Department will measure	e the quantity by lump sum. The		
			g elements and design (if required) for		
		Il consider them incidental to this ite			
<b>Subsection:</b>	716.04.18 Remo				
<b>Revision:</b>			partment will measure the quantity by lump		
		rtment will not measure backfilling a			
	equipment and i	naterials associated with any structur	ral or electrical component of the lighting		
	system includin	g, but not limited to pole bases, poles	s, junction boxes, cabinets, and wood poles		
	for payment and	will consider them incidental to this	sitem of work.		
<b>Subsection:</b>	716.04.19 Rem	ove Pole Base.			
<b>Revision:</b>	Delete Subsection	on.			
<b>Subsection:</b>	716.04.20 Bore	and Jack Conduit.			
<b>Revision:</b>	Renumber Subs	ection to 716.04.19 Bore and Jack Co	onduit.		
<b>Subsection:</b>	716.04.19 Bore	and Jack Conduit.			
<b>Revision:</b>	Replace the para	agraph with the following: The Depa	rtment will measure the quantity in linear		
	feet. This item shall include all work necessary for boring and installing conduit under an				
	existing roadway.				
	716.05 PAYME				
<b>Revision:</b>	Revise the follo	wing under <u>Code</u> , <u>Pay Item</u> , and <u>Pay</u>	<u>Unit</u> with the following:		
	<u>Code</u>	Pay Item	Pay Unit		
	04700-04701	Pole(Various)Mtg Ht	Each		
	04710-04714	Pole(Various)Mtg Ht High Mast	Each		
	04810-04811	Electrical Junction Box (Various)	Each		
	20391NS835	Electrical Junction Box Type A	Each		
	20392NS835	Electrical Junction Box Type C	Each		
	04770-04773	Luminaire (Various)	Each		
	04780	Fuse Connector Kit	Each		
	20410ED	Maintain Lighting	Lump Sum		
Cubaction	04941 722 02 02 Point	Remove Pole Base	<del></del>		
	723.02.02 Paint		otion 921		
Revision: Subsection:	Replace sentence with the following: Conform to Section 821.				
Revision:	723.03 CONSTRUCTION. Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural				
WEA191011!	_	·	-		
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims,				
<b>Subsection:</b>	723.03.02 Poles and Bases Installation.				
Revision:		with the following: 723.03.02 Pole	e and Base Installation		
110 (101011)	respined the title		with Dane Homitation.		

Subsection	723.03.02 Pole and Base Installation.	
	Replace the first paragraph with the following: Regardless of the station and offset noted,	
	locate all poles/bases behind the guardrail a minimum of four feet from the front face of the	
	guardrail to the front face of the pole base. Orient the handhole door away from traffic travel	
	path. If pole base is installed within a sidewalk the top of the pole base shall be the same grade	
	as the sidewalk.	
	723.03.02 Poles and Bases Installation.	
	A) Steel Strain and Mastarm Poles Installation	
	Replace the title of Part A) Steel Strain and Mast Arm Pole Installation.	
	723.03.02 Pole and Base Installation.	
	A) Steel Strain and Mast Arm Pole Installation.	
	Insert the following sentence at the beginning of the first paragraph: Install pole bases 4 to 6	
	inches above grade.	
	723.03.02 Pole and Base Installation.	
	A) Steel Strain and Mast Arm Pole Installation.	
	Replace the second paragraph with the following: For concrete base installation, see Subsection	
	716.03.02 B), 2), Paragraphs 2-6. Drilled shaft depth shall be based on the soil conditions	
	encountered during drilling and slope condition at the site. Refer to the design chart below:	
Cubaatian	723.03.02 Pole and Base Installation.	
	B) Pedestal or Pedestal Post Installation.	
	Replace the second sentence with the following: If over 12 feet high the base shall have the	
	minimum depth and diameter as Subsection 716.03.02 (A), paragraph 2.	
	723.03.02 Poles and Bases Installation.	
	B) Pedestal or Pedestal Post Installation.	
	Replace the fourth sentence of the paragraph with the following: For breakaway supports,	
	conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for	
	Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.	
	723.03.03 Trenching.	
	Replace the first sentence with the following: See Subsection 716.03.03 (B).	
	723.03.03 Trenching.	
	A) Under Roadway.	
<b>Revision:</b>	Delete Part A) Under Roadway.	
	723.03.05 Conduit Requirements in Junction Boxes.	
Revision:	Delete the Subsection and replace with the following:	
	723.03.05 Fuse Connector Kits. See Subsection 716.03.09.	
<b>Subsection:</b>	723.03.06 Coupling Installation.	
Revision:	Delete the Subsection and replace with the following:	
	723.03.06 Painting. See Subsection 716.03.15.	
<b>Subsection:</b>	723.03.07 Bonding Requirements.	
	Delete the Subsection and replace with the following:	
	723.03.07 Electrical Junction Boxes. See Subsection 716.03.10.	

Subsection:723.03.08 Painting.Revision:Replace with 723.03.06 Painting. See Subsection:Subsection:723.03.09 Underground Warning Tape.Revision:Renumber Subsection to 723.03.08 Underground Warning Tape.	section 716.03.15.
Subsection: 723.03.09 Underground Warning Tape. Revision: Renumber Subsection to 723.03.08 Undergo	section 716.03.15.
<b>Revision:</b> Renumber Subsection to 723.03.08 Undergo	
	<u> </u>
<b>Subsection:</b> 723.03.10 Backfilling and Disturbed Areas	3.
<b>Revision:</b> Renumber Subsection to 723.03.09 Backfi	lling and Disturbed Areas.
<b>Subsection:</b> 723.03.11 Wiring Installation.	
<b>Revision:</b> Renumber Subsection to 723.03.10 Wiring	Installation.
<b>Subsection:</b> 723.03.10 Wiring Installation.	
	fth and sixth sentences: Provide an extra two feet of
	duit in poles, pedestals, and junction boxes.
The state of the s	
<b>Subsection:</b> 723.03.12 Loop Installation.	
<b>Revision:</b> Renumber Subsection to 723.03.11 Loop I	nstallation.
<b>Subsection:</b>   723.03.11 Loop Installation.	
•	agraph with the following: Provide an extra two feet
of loop wire and lead-in past the installed of	conduit in poles, pedestals, and junction boxes.
Subsection: 723.03.13 Grounding Installation.	
<b>Revision:</b> Renumber Subsection to 723.03.12 Ground	ding Installation.
<b>Subsection:</b> 723.03.12 Grounding Installation.	
<b>Revision:</b> Replace the reference to "Standard Detail S	Sheets" in the first sentence with "Plans".
<b>Subsection:</b> 723.03.14 Splicing.	
<b>Revision:</b> Renumber Subsection to 723.03.13 Splicing	g.
<b>Subsection:</b> 723.03.13 Splicing.	
<b>Revision:</b> Delete the reference to (IMSA 19-2) from	the 5th sentence of the paragraph.
<b>Subsection:</b> 723.03.15 Painting.	
<b>Revision:</b> Delete Subsection.	
<b>Subsection:</b> 723.03.14 Splicing.	
<b>Revision:</b> Replace with new Subsection 723.03.14 Re	emove Signal Equipment.
<b>Subsection:</b> 723.03.14 Remove Signal Equipment.	
	: Remove all traffic signal equipment that is
S.	essary including, but not limited to, the following:
	wood poles, and advance warning flashers. Pole
	foot below finished grade by chipping off or other
	Dispose of all removed concrete off right-of-way.
	of one foot below finished grade. Backfill holes with
	nit may be abandoned in the ground. Contact the
	removed signal equipment needs to be returned to
the district and to determine the location/ti	me for such defiveries.
G. 1	
Subsection: 723.05.16 Drawings.	
<b>Revision:</b> Renumber the Subsection to 723.03.15 Dra	awings.

<b>Subsection:</b>	723.03.15 Drawings.				
Revision:	Replace Subsection with the following: Before final inspection of the traffic control device,				
110 (151011)	provide a complete set of reproducible as-built drawings that show the arrangement and				
	locations of all equipment including: junction boxes, conduits, spare conduits, etc. Keep a				
	daily record of all conduits placed in trenches, showing the distance from the pavement edge,				
	the depth, and the length of runs, and indicate this information on the as-built drawings.				
	the depair, and the length of runs, and maleute this information on the as built drawings.				
<b>Subsection:</b>	723.03.17 Acceptance and Inspection Requirements.				
Revision:	Renumber Subsection to 723.03.16 Acceptance and Inspection Requirements.				
<b>Subsection:</b>	723.03.16 Acceptance and Inspection Requirements.				
Revision:	Replace the first paragraph of the section with the following: See Subsection 105.12. In				
	coordination with the District Traffic Engineer, energize traffic control device as soon as it is				
	fully functional and ready for inspection. After the work has been completed, conduct an				
	operational test demonstrating that the system operates in accordance with the Plans in the				
	presence of the Engineer. The Department will also conduct its own tests with its own				
	equipment before final acceptance. Ensure that the traffic control device remains operational				
	until the Division of Traffic Operations has provided written acceptance of the electrical work.				
	723.04.01 Conduit.				
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not				
	measure conduit fittings, ground lugs, test plugs, expansion joints, and clamps for payment and				
	will consider them incidental to this item of work.				
<b>Subsection:</b>	723.04.02 Junction Box.				
Revision:	Replace subsection title with the following: Electrical Junction Box Type Various.				
<b>Subsection:</b>	<b>₹1</b>				
Revision:	Replace the subsection with the following: The Department will measure the quantity as each				
	individual unit furnished and installed. The Department will not measure additional junction				
	boxes for greater depths than those identified in Plans, Aggregate (#57), backfilling, restoration				
	of disturbed areas to the satisfaction of the Engineer, geotextile fabric, concrete, hot dipped				
	galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for				
Subsection	payment and will consider them incidental to this item of work.  723.04.03 Trenching and Backfilling.				
Revision:	Replace the second sentence with the following: The Department will not measure excavation,				
Kevision.	backfilling, underground utility warning tape, and the restoration of disturbed areas to original				
	condition for payment and will consider them incidental to this item of work.				
	condition for payment and will consider them metachtar to this item of work.				
Subcotion	723.04.04 Open Cut Roadway.				
Revision:	Replace the second sentence of the subsection with the following: The Department will not				
Kevisiuli:	measure concrete, reinforcing steel, and asphalt for payment and will consider them incidental				
	to this item of work.				
Subsection	723.04.05 Loop Wire.				
Revision:	Replace the second sentence of the subsection with the following: The Department will not				
ICCAISIOII:	measure splice boots, cable rings, and any other necessary hardware for payment and will				
	consider them incidental to this item of work.				
Subsection	723.04.06 Cable.				
Revision:	Replace the second sentence of the subsection with the following: The Department will not				
ACVISIUII.	measure splice boots, cable rings, and any other hardware for payment and will consider them				
	incidental to this item of work.				
	meldenar to and tent of work,				

	723.04.07 Pole-Wooden.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider
	them incidental to this item of work.
	723.04.08 Steel Strain Pole.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider
	them incidental to this item of work.
	723.04.09 Mast Arm Pole.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure anchor bolts, arms, mounting brackets, and any other necessary hardware for payment
	and will consider them incidental to this item of work.
	723.04.10 Signal Pedestal.
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not
	measure excavation, concrete, reinforcing steel, conduits, fittings, ground rods, ground wire,
	ground lugs, backfilling, restoring disturbed areas, and other necessary hardware for payment
	and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.11 Post.
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider
	them incidental to this item of work.
	723.04.12 Anchor.
Revision:	Replace the second sentence of the subsection with the following: . The Department will not
	measure down-guy, messenger, clamps, guy guard, or insulators, and possible installation in
	various soil conditions for payment and will consider them incidental to this item of work.
	723.04.13 Messenger.
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not
	measure strand vises, bolts, washers, and other necessary hardware for payment and will
	consider them incidental to this item of work.
	723.04.14 Install Signal LED.
Revision:	Revise subsection title to 723.04.14 Install Beacon Controller - 2 Circuit.
	723.04.14 Install Beacon Controller - 2 Circuit.
<b>Revision:</b>	Replace the subsection with the following: The Department will measure the quantity as each
	individual unit furnished and installed. The Department will not measure the controller
	housing, mounting equipment, S5-1 school zone sign, time clock, nema flasher, ground rods,
	ground wires, ground lugs, metering disconnect hardware, electrical inspection fees, and
	required building fees involving utility secondary/primary service for payment and will
	consider them incidental to this item of work.

Subsection:	723.04.15 Loop Saw Slot and Fill.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
110 (151011)	measure sawing, cleaning, filling induction loop saw slot, loop sealant, backer rod, drilling hole
	for conduit, and grout for payment and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.16 Pedestrian Detector.
<b>Revision:</b>	Replace the subsection with the following: The Department will measure the quantity as each
	individual unit furnished, installed and connected to pole/pedestal. The Department will not
	measure installing R10-3e signs, detector housing, and installing mounting hardware for sign
	for payment and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.17 Signal.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure furnishing and installing LED modules, retroreflective tape, back plates, and any other
	hardware for payment and will consider them incidental to this item of work.
<b>Subsection:</b>	723.04.18 Signal Controller- Type 170.
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not
	measure the concrete base, mounting the cabinet, connecting the signal and detectors,
	excavation, backfilling, restoration, any necessary pole mounting hardware, electric service,
	electrical inspection fees, and building fees involving secondary/primary service for payment
	and will consider them incidental to this item of work. The Department will also not measure
	furnishing and connecting the induction of loop amplifiers, pedestrian isolators, load switches,
	model 400 modem card, electrical service conductors, conduits, anchors, meter base, fused
	cutout, fuses, ground rods, ground wires, and ground lugs for payment and will consider them
	incidental to this item of work.
	723.04.19 Beacon Controller - 2 Circuit.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure the controller housing, mounting equipment, S5-1 school zone sign, time clock, nema
	flasher, ground rods, ground wires, ground lugs, metering disconnect hardware, electrical
	inspection fees, and required building fees involving utility secondary/primary service for
	payment and will consider them incidental to this item of work.
	723.04.20 Install Signal Controller - Type 170.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each
	individual unit installed. The Department will not measure the concrete base, mounting the
	cabinet, connecting the signal and detectors, excavation, backfilling, restoration, any necessary
	pole mounting hardware, electric service, electrical inspection fees, and required building fees
	involving utility secondary/primary service for payment and will consider them incidental to
	this item of work. The Department will also not measure connecting the induction loop
	amplifiers, pedestrian isolators, load switches, model 400 modem card for payment and will consider them incidental to this item of work. The Department will also not measure furnishing
	and installing electrical service conductors, conduits, anchors, meter base, fused cutout, fuses,
	ground rods, ground lugs, and ground wires for payment and will consider them incidental to
	this item of work.
<b>Subsection:</b>	723.04.21 Install Steel Strain Pole.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
ACTISIUII.	measure any necessary clamp assemblies for payment and will consider them incidental to this
	item of work.
	item of work.

<b>Subsection:</b>	723.04.22 Remove Signal Equipment.
Revision:	Replace the paragraph with the following: The Department will measure the quantity by lump sum. The Department will not measure backfilling and the disposal or transportation of equipment and materials associated with any structural or electrical component of the signal system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.23 Install Span/Pole Mounted Sign. Replace the second sentence of the subsection with the following: The Department will not measure the hanger or any other hardware necessary to install the sign for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.24 Install Pedestrian Head LED. Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.25 Install Signal LED.  Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules, retroreflective tape, back plates, and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.26 Install Coordinating Unit.  Replace the subsection with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure radio, modem, cable(s), antenna(s), router, repeater, and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.27 Video Camera.  Replace the second sentence of the subsection with the following: The Department will not measure video modules, mounting bracket, truss type arm, power cable, coaxial cable, and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.28 Install Pedestrian Detector Audible. Replace the second sentence with the following: The Department will not measure installing R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.29 Audible Pedestrian Detector. Replace the second sentence with the following: The Department will not measure furnishing and installing the R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.30 Bore and Jack Conduit. Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway.

<b>Subsection:</b>	723.04.31 Install Pedestrian Detector.
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each
	individual unit installed and connected to pole/pedestal. The Department will not measure
	installing R 10-3e sign, detector housing, and installing mounting hardware for payment and
	will consider them incidental to this item of work.
Subsection:	723.04.32 Install Mast Arm Pole.
Revision:	Replace the second sentence with the following: The Department will not measure installation
	of arms, signal mounting brackets, anchor bolts, and any other necessary hardware for payment
	and will consider them incidental to this item of work.
Subsection:	723.04.33 Pedestal Post.
Revision:	Replace the second sentence with the following: The Department will not measure excavation,
KC VISIOII.	backfilling, restoration, furnishing and installing concrete, reinforcing steel, anchor bolts,
	conduit, fittings, ground rod, ground wire, ground lugs, or any other necessary hardware for
	payment and will consider them incidental to this item of work.
	payment and will consider them incidental to this item of work.
	723.04.34 Span Mounted Sign.
Revision:	Revise subsection title to 723.04.34 Span/Pole-Mounted Sign.
	723.04.34 Span/Pole-Mounted Sign.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure the hanger, sign, and any other necessary hardware for payment and will consider
	them incidental to this item of work.
<b>Subsection:</b>	723.04.35 Remove and Reinstall Coordinating Unit.
Revision:	Add the following sentence to the end of the subsection: The Department will not measure
	removing, storage, reinstalling, and connecting radio, modem, cable(s), antenna(s), router,
	repeater, and any other necessary hardware for payment and will consider them incidental to
	this item of work.
<b>Subsection:</b>	723.04.36 Traffic Signal Pole Base.
<b>Revision:</b>	Replace the second sentence of the subsection with the following: The Department will not
	measure excavation, backfilling, restoration, furnishing and installing reinforcing steel, anchor
	bolts, conduits, ground rods, ground wires, and ground lugs for payment and will consider
	them incidental to this item of work.
Subsection:	723.04.37 Install Signal Pedestal.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
re vision.	measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing
	steel, conduits, fittings, ground rod, ground wire, ground lugs, and any other necessary
	hardware for payment and will consider them incidental to this item of work.
	hardware for payment and will consider them incidental to this ferm of work.
Subsection:	723.04.38 Install Pedestal Post.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
IXC VISIUII.	measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing
	steel, conduit, fittings, ground rod, ground wire, ground lugs, and any other necessary hardware
	for payment and will consider them incidental to this item of work.
<b>a.</b> 1	
	723.04.39 Install Antenna.
Revision:	Replace the second sentence of the subsection with the following: The Department will not
	measure any other materials necessary to complete the installation for payment and will consider them incidental to this item of work.

Subsection:	723.05 PAYMENT.							
Revision:								
ACVISION.								
	2 10 20 DD under <u>code</u> , <u>ray teem</u> , and <u>ray one</u> with the ronowing.							
	Code Pay Item Pay Unit							
	04810 Electrical Junction Box Each							
	04811 Electrical Junction Box Type B Each							
	20391NS835 Electrical Junction Box Type A Each							
	20392NS835 Electrical Junction Box Type C Each							
	23052NN Span/Pole-Mounted Sign Each							
	24526ED Install Beacon Controller 2 Cir Each							
Subsection	801.01 REQUIREMENTS							
Revision:	Replace first sentence in paragraph one with the following: Provide Portland cement or							
Kevision.	blended hydraulic cement from approved mills listed in the Department's List of Approved							
	Materials.							
<b>Subsection:</b>								
Number:	1)							
Revision:	Replace first sentence with the following: Type I, II, III, and IV <i>Portland cement</i> conforms to							
Revision:	ASTM C 150.							
Subsections								
Number:	ion: 801.01 REQUIREMENTS 3)							
Revision:								
Revision:	Replace the first sentence with the following: Type IP (<20), Portland-pozzolan cement,							
	conforms to ASTM C595, and the following additional requirements to Type IP (≤20).							
Cubaadian	801.01 REQUIREMENTS							
Number:								
Part:	3)							
	b) Delete mort b)							
Revision:	Delete part b)							
Number:								
Part: Revision:	801.01 REQUIREMENTS 3) c) Rename Part c) to Part b) and replace the text with the following: The cement manufacturer shall furnish to the Engineer reports showing the results of tests performed on the fly ash used							
Revision:								
	shall turnish to the Engineer reports showing the results of tests performed on the fly ash used in the manufacture of the Type IP( $\leq 20$ ) cement shipped to the project.							
	in the manufacture of the Type IP(\(\sigma 20\)) cement shipped to the project.							
Subsection	801.01 REQUIREMENTS							
Number:	3)							
Part:	d)							
<b>Revision:</b>	Rename Part d) to Part c)							
Number:	3)							
Part:	e)							
<b>Revision:</b>	Rename Part e) to Part d) and replace the text with the following: Use only one brand of Type							
	IP(≤20) cement throughout the project, unless the Engineer approved a change in brand in							
	writing.							
Number:	4)							
Revision:	Replace first sentence with the following: Type IS(≤30), Portland blast furnace slag cement,							
	conforms to ASTM C 595 and the following requirements:							

Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	a)				
Revision:	Replace part a) with the following: Use Grade 100 or 120 blast furnace slag cement				
210 (101011)	conforming to the requirements of ASTM C 989.				
Subsection:	801.01 REQUIREMENTS				
Number:	4)				
Part:	b)				
Revision:	Delete part b)				
	801.01 REQUIREMENTS				
Number:	4)				
Part:	c)				
Revision:	Rename Part c) to Part b) and replace the text with the following: The cement manufacturer				
	shall furnish to the Engineer reports showing the results of the tests performed on the blast				
	furnace slag cement used in the manufacturing of the Type IS(≤30) shipped to the project.				
G 1	201 A1 DEOLUBE (ENTE				
	801.01 REQUIREMENTS				
Number:	4)				
Part:	d)				
	Rename Part d) to Part c)				
	801.01 REQUIREMENTS				
Number:	4)				
Part:	e)  Powers Port of to Port d) and replace the text with the followings. Her only one brend of Type				
<b>Revision:</b>	Rename Part e) to Part d) and replace the text with the following: Use only one brand of Type				
	IS(≤30) cement throughout the project, unless the Engineer approves otherwise.				
G I di	201 A1 DEOLUBEACENTO				
	801.01 REQUIREMENTS				
Number:	5)  Livert and 5) and by Cillianian Toron II (5, 15). Postland liverton control of Course to ASTM.				
<b>Revision:</b>	Insert part 5) as the following: Type IL(5-15), Portland-limestone cement, conforms to ASTM				
C-l	C 595 and the following additional requirements:				
	801.01 REQUIREMENTS				
Number:	5)				
Part:	a)  Insert part a) as the following. The compute manufacturer shall furnish to the Engineer reports				
<b>Revision:</b>	Insert part a) as the following: The cement manufacturer shall furnish to the Engineer reports				
	showing the results of test performed on the limestone used in the manufacture of the Type IL cement shipped to the project.				
Subsection:	801.01 REQUIREMENTS				
Number:	5)				
Part:	b)				
Revision:	Insert part b) as the following: Use only one brand of Type IL cement throughout the project,				
IXC VISIUII.	unless the Engineer approves a brand change in writing.				
<b>Subsection:</b>	801.01 REQUIREMENTS				
Number:	5)				
Part:	c)				
Revision:	Insert part c) as the following: The Type IL blended cement shall be an intimate and uniform				
ACVISIUII:	blend produced by intergrinding of the Portland cement and limestone.				
Subsection:	804.01.02 Crushed Sand.				
Revision:	Delete last sentence of the section.				
176.1121011;	Defend fast sentence of the section.				

Subsection	804.01.06 Slag.							
Revision:	Add subsection and following sentence.							
Kevision.	Provide blast furnace slag sand where permitted. The Department will allow steel slag sand							
	only in asphalt surface applications.							
C-14'								
<b>Subsection:</b>	1							
<b>Revision:</b>	Replace the subsection with the following:							
	Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as							
	necessary, to meet gradation requirements. The Department will allow any combination of							
	natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved							
	using cold feeds at the plant. The Engineer may allow other fine aggregates.							
<b>Subsection:</b>	1							
<b>Revision:</b>	Replace the second sentence of the paragraph with the following:							
	Additionally, the material must have a minimum solubility of 99.0 percent when tested							
	according to AASHTO T 44 and PG 76-22 must exhibit a minimum recovery of 60 percent,							
	with a $J_{NR}$ (non-recoverable creep compliance) between 0.1 and 0.5, when tested according to							
	AASHTO TP 70.							
<b>Subsection:</b>	806.03.01 General Requirements.							
Table:	PG Binder Requirements and Price Adjustment Schedule							
<b>Revision:</b>	Replace the Elastic Recovery, % (3) (AASHTO T301) and all corresponding values in the table							
	with the following:							
	Test Specification 100% Pay 90% Pay 80% Pay 70% Pay 50% Pay							
	MSCR recovery, % <sup>(3)</sup> 60 Min. ≥58 56 55 54 <53							
	(AASHTO TP 70)							
<b>Subsection:</b>	806.03.01 General Requirements.							
Table:	PG Binder Requirements and Price Adjustment Schedule							
Superscript								
<b>Revision:</b>	Replace (3) with the following:							
	Perform testing at 64°C.							
Subsection	808.07 Polypropylene Waterproofing Membrane.							
Revision:	Replace the paragraph and table with the following: Furnish a layered waterproofing							
ite vision.	membrane. The layers will consist of an internal puncture resistant woven polypropylene fabri							
	sandwiched between two rubberized mastic layers. The mastic will have a heavy polyethylene							
	membrane attached on the top and the bottom mastic layer will be covered by a protective							
	release film.							
Cubaction	808.09 Acceptance.							
Revision:	Replace the reference to "KMIMS" in the second paragraph with SiteManager.							
	811.10.04 Properties of the Coated Bar.							
Part:	B) Flexibility of Coating.							
Revision:	Replace the second sentence of the paragraph with the following: Ensure that the coated bars							
IVEA121011	are capable of being bent to 180 degrees (after rebound) over a mandrel, without any visible							
	evidence of cracking the coating.							
Subsections	813.04 Gray Iron Castings.							
Revision:	Replace the reference to "AASHTO M105" with "ASTM A48".							
Subsection:	813.09.02 High Strength Steel Bolts, Nuts, and Washers.							
Number:	A) Bolts.							
	1 '							
<b>Revision:</b>	Delete first paragraph and "Hardness Number" Table. Replace with the following:  A) Polts, Conform to ASTM A 225 (A ASUTO M164) or ASTM A 400 (A ASUTO 252) as							
	A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as							
	applicable.							

a						
	: 814.04.02 Timber Guardrail Posts.					
Revision:	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".					
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.					
Revision:	Replace the first sentence of the fourth paragraph with the following:					
	Use any of the species of wood for round or square posts covered under AWPA U1.					
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.					
Revision:	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B,					
	Paragraph 4.1".					
<b>Subsection:</b>	814.04.02 Timber Guardrail Posts.					
Revision:	Delete the second sentence of the fourth paragraph.					
<b>Subsection:</b>	814.05.02 Composite Plastic.					
Revision:	1) Add the following to the beginning of the first paragraph: Select composite offset blocks					
	conforming to this section and assure blocks are from a manufacturer included on the					
	Department's List of Approved Materials.					
	2) Delete the last paragraph of the subsection.					
<b>Subsection:</b>	816.07.02 Wood Posts and Braces.					
<b>Revision:</b>	First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph					
	4.1".					
<b>Subsection:</b>	816.07.02 Wood Posts and Braces.					
Revision:	Delete the second sentence of the first paragraph.					
<b>Subsection:</b>	818.07 Preservative Treatment.					
<b>Revision:</b>	First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".					
<b>Subsection:</b>	833.01.02 Sheeting Signs.					
<b>Revision:</b>	Replace the second sentence with the following: Provide a thickness of 125 mils if any single					
	edge dimension of the sign exceeds 3 feet.					
<b>Subsection:</b>	834.14 Lighting Poles.					
Revision:	Replace the first sentence with the following: Lighting pole design shall be in accordance with loading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).					
Subsection	834.14.03 High Mast Poles.					
Revision:	Remove the second and fourth sentence from the first paragraph.					
Subsection	834.14.03 High Mast Poles.					
Revision:	Replace the third paragraph with the following: Provide calculations and drawings that are					
	stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.					

Subsection: Revision:

834.14.03 High Mast Poles.

595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield strength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential welded tube butt splices and laminated tubes are not permitted. Provide pole sections that are telescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications.

Replace paragraph six with the following: Provide a pole section that conforms to ASTM A

The thickness of the transverse base shall not be less than 2 inches. Plates shall be integrally welded to the tubes with a telescopic welded joint or a full penetration groove weld with backup bar.

The handhole cover shall be removable from the handhole frame. One the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM A 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7-guage stainless steel to provide adjustability to insure weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).

**Subsection:** 

834.16 ANCHOR BOLTS.

**Revision:** 

Insert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.

**Subsection:** 

834.17.01 Conventional.

**Revision:** 

Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage.

Subsection

**Subsection:** | 834.21.01 Waterproof Enclosures.

**Revision:** 

Replace the last five sentences in the second paragraph with the following sentences: Provide a cabinet door with a louvered air vent, filter-retaining brackets and an easy to clean metal filter. Provide a cabinet door that is keyed with a factory installed standard no. 2 corbin traffic control key. Provide a light fixture with switch and bulb. Use a 120-volt fixture and utilize a L.E.D. bulb (equivalent to 60 watts minimum). Fixture shall be situated at or near the top of the cabinet and illuminate the contents of the cabinet. Provide a 120 VAC GFI duplex receptacle in the enclosure with a separate 20 amp breaker.

Subsections	835.07 Traffic Poles.
Revision:	Replace the first sentence of the first paragraph with the following: Pole diameter and wall thickness shall be calculated in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Revision:	835.07 Traffic Poles.  *Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates have a thickness ≥ 2 inches.  *Add the following sentence to the end of the fourth paragraph: The bottom pole diameter shall not be less than 16.25 inches.
Subsection: Revision:	835.07 Traffic Poles.  Replace the third sentence of the fifth paragraph with the following: For anchor bolt design, pole forces shall be positioned in such a manner to maximize the force on any individual
Subsection: Revision:	anchor bolt regardless of the actual anchor bolt orientation with the pole.  835.07 Traffic Poles.  Replace the first and second sentence of the sixth paragraph with the following:  The pole handhole shall be 25 inches by 6.5 inches. The handhole cover shall be removable from the handhole frame. On the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7 gauge stainless steel to provide adjustability to insure a weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube but needs to be at least 12 inches.
Subsection: Revision:	835.07 Traffic Poles.  *Replace the first sentence of the last paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.  *Replace the third sentence of the last paragraph with the following: All tables referenced in 835.07 are found in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection: Revision:	835.07.01 Steel Strain Poles. Replace the second sentence of the second paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.
Subsection: Revision:	835.07.01 Steel Strain Poles. Replace number 7. after the second paragraph with the following: 7. Fatigue calculations should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.
Subsection: Revision:	835.07.02 Mast Arm Poles. Replace the second sentence of the fourth paragraph with the following: The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.

Subsection:	835.07.02 Mast Arm Po	oles.					
Revision:		r the fourth paragraph with the follo	wing: 7) Fatigue calculations				
	should be shown for all fatigue related connections. Provide the corresponding detail, stress category and example from table 11.9.3.1-1.						
Subsection	835.07.03 Anchor Bolts						
Revision:	Add the following to the end of the paragraph: There shall be two steel templates (one can be						
Kevision.	•	t of the anchor bolt when designed in	• `				
		ained within a 26.5 inch diameter.					
			An templates shan be fully				
C14:	galvanized (ASTM A 1						
	835.16.05 Optical Units						
Revision:	Replace the 3rd paragra		1 1 //				
		ducts can be found on the following	website: http://www.intertek.com.				
	835.19.01 Pedestrian D	•					
Revision:	-	ce with the following: Provide a fou	•				
		t is compatible with the pedestrian d	letector.				
	843.01.01 Geotextile Fa						
Table:		TEXTILES FOR SLOPE PROTECT	TION AND CHANNEL LINING				
Revision:	Add the following to th	e chart:					
	<u>Property</u>	Minimum Value <sup>(1)</sup>	Test Method				
	CBR Puncture (lbs)	494	ASTM D6241				
	Permittivity (1/s)	0.7	ASTM D4491				
		0.,	1151111 5 1 151				
Subsection:	843.01.01 Geotextile Fa	abric.					
Table:	TYPE II FABRIC GEO	TEXTILES FOR UNDERDRAINS					
Revision:	Add the following to th						
	Property	Minimum Value <sup>(1)</sup>	Test Method				
	CBR Puncture (lbs)	210	ASTM D6241				
	Permittivity (1/s)	0.5	ASTM D0241 ASTM D4491				
	reminitivity (1/8)	0.3	AS 1 W D4491				
Subsection	843.01.01 Geotextile Fa	abric					
Table:		OTEXTILES FOR SUBGRADE OF	REMBANKMENT				
I anici	STABILIZATION						
Revision:	Add the following to th	e chart:					
vearinii:			T (3.6.4.1.1				
	<u>Property</u>	Minimum Value <sup>(1)</sup>	Test Method				
	CBR Puncture (lbs)	370	ASTM D6241				
	Permittivity (1/s)	0.05	ASTM D4491				
Cb	942 01 01 Castantile E	Sheria					
	843.01.01 Geotextile Fa		EDDADIA CE DI ANIZEZZANE				
Table:		OTEXTILES FOR EMBANKMEN'	I DKAINAGE BLANKEIS AND				
	PAVEMENT EDGE DRAINS						
Revision:	Add the following to th						
	<u>Property</u>	Minimum Value <sup>(1)</sup>	Test Method				
	CBR Puncture (lbs)	309	ASTM D6241				
	Permittivity (1/s)	0.5	ASTM D4491				
	(-, -)						

**Subsection:** 843.01.01 Geotextile Fabric.

 Table:
 TYPE V HIGH STRENGTH GEOTEXTILE FABRIC

**Revision:** Make the following changes to the chart:

<u>Property</u> <u>Minimum Value<sup>(1)</sup></u> <u>Test Method</u>

CBR Puncture (lbs) 618 ASTM D6241

Apparent Opening Size U.S. #40<sup>(3)</sup> ASTM D4751

(3) Maximum average roll value.

### **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.

Federal-State Sheet 1 of 1

# EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

### **FEDERAL MINIMUM WAGE**

\$7.25

PER HOUR

**BEGINNING JULY 24, 2009** 

#### **OVERTIME PAY**

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

#### **CHILD LABOR**

LEWIS COUNTY FD07 068 0008 028-029 An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

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

Page 102 of 107

#### 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.



### **PART IV**

### **INSURANCE**

#### **INSURANCE**

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

- 1) 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**

Page 1 of 2

#### 161023

#### **PROPOSAL BID ITEMS**

Report Date 8/2/16

Section: 0001 - PAVING

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	AMOUNT
0010	00001	DGA BASE	599.00	TON		\$	
0020	00100	ASPHALT SEAL AGGREGATE	7.00	TON		\$	
0030	00103	ASPHALT SEAL COAT	.89	TON		\$	
0040	00190	LEVELING & WEDGING PG64-22	12.00	TON		\$	
0050	00212	CL2 ASPH BASE 1.00D PG64-22	487.00	TON		\$	
0060	00301	CL2 ASPH SURF 0.38D PG64-22	171.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	<b>AMOUNT</b>
0070	02200		ROADWAY EXCAVATION	204.00	CUYD		\$	
0800	02242		WATER	100.00	MGAL		\$	
0090	02545		CLEARING AND GRUBBING 0.85 ACRES	1.00	LS		\$	
0100	02562		TEMPORARY SIGNS	9.00	SQFT		\$	
0110	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0120	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0130	02696		SHOULDER RUMBLE STRIPS-SAWED	480.00	LF		\$	
0140	02701		TEMP SILT FENCE	75.00	LF		\$	
0150	02704		SILT TRAP TYPE B	3.00	EACH		\$	
0160	02705		SILT TRAP TYPE C	1.00	EACH		\$	
0170	02707		CLEAN SILT TRAP TYPE B	3.00	EACH		\$	
0180	02708		CLEAN SILT TRAP TYPE C	1.00	EACH		\$	
0190	02726		STAKING	1.00	LS		\$	
0200	05950		EROSION CONTROL BLANKET	558.00	SQYD		\$	
0210	05963		INITIAL FERTILIZER	.03	TON		\$	
0220	05985		SEEDING AND PROTECTION	558.00	SQYD		\$	
0230	05992		AGRICULTURAL LIMESTONE	.35	TON		\$	
0240	06514		PAVE STRIPING-PERM PAINT-4 IN	2,540.00	LF		\$	
0250	06568		PAVE MARKING-THERMO STOP BAR-24IN	50.00	LF		\$	
0260	06572		PAVE MARKING-DOTTED LANE EXTEN	280.00	LF		\$	
0270	06573		PAVE MARKING-THERMO STR ARROW	2.00	EACH		\$	
0280	06574		PAVE MARKING-THERMO CURV ARROW	2.00	EACH		\$	
0290	06576		PAVE MARKING-THERMO ONLY	2.00	EACH		\$	
0300	20430ED		SAW CUT	570.00	LF		\$	
0310	21289ED		LONGITUDINAL EDGE KEY	570.00	LF		\$	
0320	24659EN		D/B RR FLAGGER	1.00	LS		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0330	00461		CULVERT PIPE-15 IN	110.00	LF		\$	
0340	01370		METAL END SECTION TY 1-15 IN	2.00	EACH		\$	
0350	02599		FABRIC-GEOTEXTILE TYPE IV	141.00	SQYD		\$	

Contract ID: 161023 Page 107 of 107

#### **PROPOSAL BID ITEMS**

161023

Report Date 8/2/16

Page 2 of 2

#### Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	AMOUNT
0360	02569		DEMOBILIZATION	1.0	0 LS	}	\$	