**CALL NO. 200**

**CONTRACT ID. 162605**

**GRAVES - MARSHALL COUNTIES**

**FED/STATE PROJECT NUMBER 121GR16M093-FD52**

**DESCRIPTION VARIOUS BRIDGES AND RAMP CONSTRUCTION ALONG JC-9003**

**WORK TYPE BRIDGE DECK RESTORATION & WATERPROOFING**

**PRIMARY COMPLETION DATE 11/15/2017**

**LETTING DATE: September 30,2016**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME September 30,2016. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**DBE CERTIFICATION REQUIRED - 3%**

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

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# PART I

# SCOPE OF WORK

# ADMINISTRATIVE DISTRICT - 01

**CONTRACT ID - 162605**

**121GR16M093-FD52**

**COUNTY - GRAVES**

**PCN - MB04290031601**
**NHPP 0011 (034)**

JC-9003 B00155L (MP 24.72). BRIDGE OVER US-45BRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:46:02.00 LONGITUDE 88:38:35.00

**PCN - MB04290031602**
**NHPP 0011 (034)**

JC-9003 B00155R (MP 24.74). BRIDGE OVER US-45BRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:46:02.00 LONGITUDE 88:38:35.00

**PCN - MB04290031605**
**NHPP 0011 (034)**

JC-9003 B00167L (MP 33.997). BRIDGE OVER CLARKS RIVER OVERFLOWBRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:48:40.00 LONGITUDE 88:29:24.00

**PCN - MB04290031606**
**NHPP 0011 (034)**

JC-9003 B00167R (MP 34.020). BRIDGE OVER CLARKS RIVER OVERFLOWBRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:48:40.00 LONGITUDE 88:29:23.00

**PCN - MB04290031607**
**NHPP 0011 (034)**

JC-9003 B00168R (MP 34.35). BRIDGE OVER KY-564BRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:48:55.00 LONGITUDE 88:29:12.00

**PCN - MB04290031608**
**NHPP 0011 (034)**

RAMP WORK ON JC 9003 IN GRAVES COUNTY RAMP WORK ON THE JULIAN CARROLL PURCHASE PARKWAYASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:46:10.00 LONGITUDE 88:37:16.00

**COUNTY - MARSHALL**

**PCN - MB07990031601**
**NHPP 0011 (034)**

JC-9003 B00074R (MP 42.76). BRIDGE OVER ABANDONED RRBRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:52:17.00 LONGITUDE 88:21:48.00

**PCN - MB07990031603**
**NHPP 0011 (034)**

JC-9003 B00076L (MP 43.645). BRIDGE OVER EAST FORK CLARKS RIVERBRIDGE DECK RESTORATION & WATERPROOFING SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:53:00.00 LONGITUDE 88:21:23.00

**PCN - MB07990031608**
**NHPP 0011 (034)**

RAMP WORK ON JC 9003 IN MARSHALL COUNTY RAMP WORK ON THE JULIAN CARROLL PURCHASE PARKWAYASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 01-00234.30.

GEOGRAPHIC COORDINATES LATITUDE 36:55:41.00 LONGITUDE 88:20:47.00

**COMPLETION DATE(S):**

COMPLETED BY 11/15/2017 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 https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

## SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

## HARDWOOD REMOVAL RESTRICTIONS

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

## INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

**ACCESS TO RECORDS**

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

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

06/01/16

# FEDERAL CONTRACT NOTES

The Kentucky Department of Highways, in accordance with the Regulations of the United States Department of Transportation 23 CFR 635.112 (h), hereby notifies all bidders that failure by a bidder to comply with all applicable sections of the current Kentucky Standard Specifications, including, but not limited to the following, may result in a bid not being considered responsive and thus not eligible to be considered for award:

102.02 Current Capacity Rating 102.10 Delivery of Proposals
102.8 Irregular Proposals 102.14 Disqualification of Bidders
102.9 Proposal Guaranty

## CIVIL RIGHTS ACT OF 1964

The Kentucky Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Federal Department of Transportation (49 C.F.R., Part 21), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin.

## NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071.

The U.S. Department of Transportation (DOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of the DOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

## SECOND TIER SUBCONTRACTS

Second Tier subcontracts on federally assisted projects shall be permitted. However, in the case of DBE’s, second tier subcontracts will only be permitted where the other subcontractor is also a DBE. All second tier subcontracts shall have the consent of both the Contractor and the Engineer.

## DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

It is the policy of the Kentucky Transportation Cabinet ("the Cabinet") that Disadvantaged Business Enterprises ("DBE") shall have the opportunity to participate in the performance of highway construction projects financed in whole or in part by Federal Funds in order to create a level playing field for all businesses who wish to contract with the Cabinet. To that end, the Cabinet will comply with the regulations found in 49 CFR Part 26, and the definitions and requirements contained therein shall be adopted as if set out verbatim herein.

The Cabinet, contractors, subcontractors, and sub-recipients shall not discriminate on the basis of race, color, national origin, or sex in the performance of work performed pursuant to Cabinet contracts. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted highway construction projects. The contractor will include this provision in all its subcontracts and supply agreements pertaining to contracts with the Cabinet.

Failure by the contractor to carry out these requirements is a material breach of its contract with the Cabinet, which may result in the termination of the contract or such other remedy as the Cabinet deems necessary.

## DBE GOAL

The Disadvantaged Business Enterprise (DBE) goal established for this contract, as listed on the front page of the proposal, is the percentage of the total value of the contract.

The contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in a least the percent of the contract as set forth above as goals for this contract.

## OBLIGATION OF CONTRACTORS

Each contractor prequalified to perform work on Cabinet projects shall designate and make known to the Cabinet a liaison officer who is assigned the responsibility of effectively administering and promoting an active program for utilization of DBEs.

If a formal goal has not been designated for the contract, all contractors are encouraged to consider DBEs for subcontract work as well as for the supply of material and services needed to perform this work.

Contractors are encouraged to use the services of banks owned and controlled by minorities and women.

**CERTIFICATION OF CONTRACT GOAL**

Contractors shall include the following certification in bids for projects for which a DBE goal has been established. BIDS SUBMITTED WHICH DO NOT INCLUDE CERTIFICATION OF DBE PARTICIPATION WILL NOT BE ACCEPTED. These bids will not be considered for award by the Cabinet and they will be returned to the bidder.

"The bidder certifies that it has secured participation by Disadvantaged Business Enterprises ("DBE") in the amount of_____percent of the total value of this contract and that the DBE participation is in compliance with the requirements of 49 CFR 26 and the policies of the Kentucky Transportation Cabinet pertaining to the DBE Program."

**The certification statement is located in the electronic bid file. All contractors must certify their DBE participation on that page. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted.**

**DBE PARTICIPATION PLAN**

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within 7 days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder's DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

1 Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;

2 Description of the work each is to perform including the work item , unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Project Code Number (PCN), Category Number, and the Project Line Number can be found in the "material listing" on the Construction Procurement website under the specific letting;

3 The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows; a) If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:

- The entire expenditure paid to a DBE manufacturer;
- 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to the public, maintain an inventory and own and operate distribution equipment; and
- The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.

b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;

c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;

4 Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and

5 Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

**UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED**

Contractors must submit the signed subcontract between the contractor and the DBE contractor, the DBE's certificate of insurance, and an affidavit for bidders, offerors, and contractors from the DBE to the Division of Construction Procurement. The affidavit can be found on the Construction Procurement website. If the DBE is a supplier of materials for the project, a signed purchase order and an affidavit for bidders, offerors, and contractors must be submitted to the Division of Construction Procurement.

Changes to DBE Participation Plans must be approved by the Cabinet. The Cabinet may consider extenuating circumstances including, but not limited to, changes in the nature or scope of the project, the inability or unwillingness of a DBE to perform the work in accordance with the bid, and/or other circumstances beyond the control of the prime contractor.

**CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS**

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set and nine (9) copies of this information must be received in the office of the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Cabinet considers in judging good faith efforts. This documentation may include written subcontractors' quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The Good Faith Effort Package shall include, but may not be limited to information showing evidence of the following:

1 Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
2 Whether the bidder provided solicitations through all reasonable and available means;
3 Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
4 Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainly whether they were interested. If a reasonable amount of DBEs within the targeted districts do not provide an intent to quote or no DBEs are prequalified in the subcontracted areas, the bidder must notify the DBE Liaison in the Office of Minority Affairs to give notification of the bidder's inability to get DBE quotes;
5 Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
6 Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
7 Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
8 Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
9 Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
10 Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
11 Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

**FAILURE TO MEET GOOD FAITH REQUIREMENT**

Where the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Good Faith Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. The bidder will be notified of the Committee's decision within 24 hours of its decision. The bidder will have 24 hours to request reconsideration of the Committee's decision. The reconsideration meeting will be held within two days of the receipt of a request by the bidder for reconsideration.

The request for reconsideration will be heard by the Office of the Secretary. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration explaining the basis for the finding that the bidder did or did not meet the goal or made adequate Good Faith efforts to do so.

The result of the reconsideration process is not administratively appealable to the Cabinet or to the United States Department of Transportation.

The Cabinet reserves the right to award the contract to the next lowest responsive bidder or to rebid the contract in the event that the contract is not awarded to the low bidder as the result of a failure to meet the good faith requirement.

**SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT**

Failure by the prime contractor to fulfill the DBE requirements of a project under contract or to demonstrate good faith efforts to meet the goal constitutes a breach of contract. When this occurs, the Cabinet will hold the prime contractor accountable, as would be the case with all other contract provisions. Therefore, the contractor's failure to carry our the DBE contract requirements shall constitute a breach of contract and as such the Cabinet reserves the right to exercise all administrative remedies at its disposal including, but not limited to the following:

- Disallow credit toward the DBE goal;
- Withholding progress payments;
- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

**PROMPT PAYMENT**

The prime contractor will be required to pay the DBE within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

**CONTRACTOR REPORTING**

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a signed and notarized affidavit (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These documents must be submitted within 10 days of being paid by the Cabinet.

Payment information that needs to be reported includes date the payment is sent to the DBE, check number, Contract ID, amount of payment and the check date. Before Final Payment is made on this contract, the Prime Contractor will certify that all payments were made to the DBE subcontractor and/or DBE suppliers.

The Prime Contractor should supply the payment information at the time the DBE is compensated for their work. Form to use is located at:
http://transportation.ky.gov/Construction/Pages/Subcontracts.aspx

The prime contractor should notify the KYTC Office of Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact is Melvin Bynes and the telephone number is (502) 564-3601.

Photocopied payments and completed, signed and notarized affidavit must be submitted by the Prime Contractor to: Office of Civil Rights and Small Business Development
6th Floor West 200 Mero Street
Frankfort, KY 40622

**DEFAULT OR DECERTIFICATION OF THE DBE**

If the DBE subcontractor or supplier is decertified or defaults in the performance of its work, and the overall goal cannot be credited for the uncompleted work, the prime contractor may utilize a substitute DBE or elect to fulfill the DBE goal with another DBE on a different work item. If after exerting good faith effort in accordance with the Cabinet's Good Faith Effort policies and procedures, the prime contractor is unable to replace the DBE, then the unmet portion of the goal may be waived at the discretion of the Cabinet.

3/24/2016

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO PREFERENCE ACT (CPA).**

**(REV 12-17-15) (1-16)**

SECTION 7 is expanded by the following new Article:

102.10 **Cargo Preference Act – Use of United States-flag vessels.**

Pursuant to Title 46CFR Part 381, the Contractor agrees

- To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
- To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.
- To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**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.

**OPTION A**

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

# SPECIAL NOTE FOR REPLACING EXPANSION DAMS AND/OR INSTALLING ARMORED EDGES FOR CONCRETE ON BRIDGES

**I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2012 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Remove existing concrete and expansion device(s) and/or bridge ends; (3) Install armored edges and new concrete as specified and in accordance with the attached detail drawings; (4) Install new joint seals (where required); (5) Maintain and control traffic; and (6) Any other work specified as part of this contract.

**II. MATERIALS.**

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

**B. Structural Steel.** Use new, commercial grade steel suitable for welding. The Engineer will base acceptance on visual inspection. For armored edges that make up the 4" neoperene joint, use Steelflex Strip Seal expansion joint by DS Brown, or approved equal. To be approved, armored edge extrusions must be embedded.

**C. Stud Anchors.** The armored edge stud anchors are ¾" x 6" embedded stud shear connectors conforming to ASTM A108, Grade 1015 (Nelson Studs or equal).

**D. Steel Reinforcement.** Use Grade 60. See Section 602.

**E. Epoxy Bond Coat.** See Section 511.

**F. Pre-Compressed Horizontal Expansion Joint System**. It shall have a cellular, or micro-cell, polyurethane foam impregnated with a hydrophobic acrylic emulsion, or a hydrophobic polymer. The polyurethane foam external facing shall be factory coated and cured with highway-grade, fuel resistant silicone or a highway-grade elastomeric coating at a width greater than the maximum joint expansion.

**G. Neoprene Strip Seals.** See attached detail drawings and Section 807.

**III. EQUIPMENT.**

**A. Hammers.** See Section 606.02.10 B.

**B. Sawing Equipment**. See Section 606.02.10 C.

**C. Hydraulic Impact Equipment.** See Section 606.02.10 D.

**IV. CONSTRUCTION.**

**A. Remove Existing Materials.** Remove existing Expansion Dam, Bridge End, Armored Edges and specified areas of concrete as shown on the attached sketches. Remove debris and/or expansion joint filler as directed by the Engineer. . Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department.

Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Expansion Joint Replacement" or "Armored Edge for Concrete".

**B. Place New Concrete and Armored Edges.** After all specified existing materials have been removed; place new armored edges to match the grade of the proposed overlay or to match the original grade (See attached detail drawings). Place the new Class "M" concrete to the scarified grade and finish to receive the new overlay or place the new Class "M" concrete to the original grade and finish with broom strokes drawn transversely from curb to curb.

All new structural steel shall be cleaned and painted in accordance with requirements of Section 607.03.23, except that surfaces to come in contact with concrete are not to be painted.

Blast clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible.

**C. Additional Steel Reinforcement.** Furnish for replacement, as directed by the Engineer, 3,200 linear feet of #4 steel reinforcing bars in 20' lengths. Place these bars in areas deemed by the Engineer to require additional reinforcement. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of Nelson Studs on the armored edges. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class "M" concrete. Deliver unused bars to the Local County Maintenance Barn. Payment will be made in accordance with Section 602.

**D. Stage Construction.** Installation of concrete and armored edges in two (or more if specified) stages is necessary. Join the armored edges at or near the centerline of the roadway or lane line, field weld and grind smooth.

**E. Pre-Compressed Horizontal Expansion Joint System.** System shall be supplied in pre-compressed sticks for easy installation. System shall be installed in accordance with manufacturer's recommendations concerning approved adhesives, welds between sticks and appurtenances, and adhesion to concrete deck or armored edges. Joint seal is to be installed ½" recessed from the surface.

**F. Preformed Neoprene Strip Seal.** Place the preformed joint seal in one continuous, unbroken length. Place neoprene strip seals as recommended by the manufacturer and in accordance with Section 609.03.04

**G. Shop Plans.** Shop plans will <u>not</u> be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.

## V. MEASUREMENT.

**A. Expansion Joint Replacement – 2", 4".** The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint.

**B. Armored Edge for Concrete.** The Department will measure the quantity in linear feet from gutterline to gutterline along the face of the bridge end.

**C. Steel Reinforcement.** See Section 602.

## VI. PAYMENT.

**A. Expansion Joint Replacement – 2", 4".** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, neoprene strip seal or pre-compressed horizontal expansion joint system, and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.

**B. Armored Edge for Concrete.** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.

**C. Steel Reinforcement.** See Section 602.

# SPECIAL NOTE FOR BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS

**I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2012 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Machine prep the existing slab; (3) Complete full-depth and partial depth repairs as directed by the Engineer; (4) Repair/replace damaged and corroded reinforcing bars; (5) Place new concrete overlay and epoxy-sand slurry in accordance with Section 606; (6) Complete asphalt approach pavement; (7) Maintain and control traffic; and (8) Any other work specified as part of this contract.

All construction will be in accordance with Section 606 unless otherwise specified.

**II. MATERIALS**.

**A. Latex Concrete.** See Section 606.03.17.

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

**C. Bituminous Asphalt**. Use CL4 ASPH SURF 0.5A PG76-22.

**D. Epoxy-Sand Slurry.** See Section 606.03.10.

**III. CONSTRUCTION.**

**A. Machine prep of existing slab.** Remove concrete from existing slab to a depth of at least ¼" below the existing surface, and remove all patches completely, in accordance with the requirements of Section 606.03.03.

**B. Partial Depth Slab Repair and Latex Overlay.** Remove areas determined to be unsound by the Engineer via hydrodemolition or via hand held jackhammers weighing less than 45lbs in accordance with Section 606.02.10 D. Repair/Replace all damaged or severely corroded reinforcing bars prior to partial depth repair operation. The Department will not measure material removal and will consider this work incidental to the bid item "PARTIAL DEPTH PATCHING". Mix and place Latex Modified Concrete Overlay in accordance with Sections 606.03.08 and 606.03.17.

**C. Asphalt Approach Pavement.** Mill each existing asphalt approach for a distance of 100' from the bridge end. Remove the bituminous material uniformly by making an edge key, so as to provide a smooth transition to the finished bridge when a new bituminous overlay of compacted depth of approximately 1½" is added to the approaches. The grinding depth may vary depending of the condition of the existing approach and final elevation of bridge end. Dispose of all removed material away from the site.

**D. Surface Texturing.** Texture the concrete surface of the overlay in accordance with Section 609.03.10.

**IV. MEASUREMENT.** See Section 606 and the following:

**A. Latex Modified Concrete for Overlay.** The Department will measure the quantity in cubic yards using the theoretical volume as follows for each bridge:

| | | | |
|---|---|---|---|
| **042B00155L** | **(283'x 38'x 1.50")** | **=** | **49.8 cuyd** |
| **042B00155R** | **(283'x 38'x 1.50")** | **=** | **49.8 cuyd** |
| **042B00167L** | **(108'x 38'x 1.50")** | **=** | **19.0 cuyd** |
| **042B00167R** | **(108'x 38'x 1.50")** | **=** | **19.0 cuyd** |
| **042B00168R** | **(132'x 38'x 1.50")** | **=** | **23.2 cuyd** |
| **079B00074R** | **(158'x 38'x 1.50")** | **=** | **27.8 cuyd** |
| **079B00076L** | **(519'x 30'x 1.50")** | **=** | **72.1 cuyd** |

**B. Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will measure the quantity in cubic yards by deducting the theoretical volume of bridge deck overlay (LMC) from the total volume (as indicated by the batch quantity tickets) of Concrete required to obtain the finished grade shown on the Plans or established by the Engineer.

**C. Machine Prep of Slab.** The Department will measure the machine preparation of the existing bridge deck in square yards, which shall include all labor, equipment, and material needed to complete this work.

**D. Steel Reinforcement.** The Department will measure any reinforcing steel necessary for the partial or full depth patch in pounds, which shall include all labor, equipment, and material needed to complete this work.

**E. Asphalt Approach Pavement.** The Department will measure the quantity in square yards, which shall include all labor, equipment, and material needed to complete this work.

**V. PAYMENT.** See Section 606 and the following:

**A. Latex Modified Concrete for Overlay.** The Department will make payment for the Latex Modified Concrete under bid item #08534 "CONCRETE OVERLAY – LATEX" for the quantity in cubic yards complete in place.

**B. Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will make payment for the Partial Depth Patching under bid item #24094EC "PARTIAL DEPTH PATCHING". Payment will be for the quantity per cubic yard complete in place.

**C. Machine Prep of Slab.** The Department will make payment for the removal of the existing overlay under bid item #08551 "MACHINE PREP OF SLAB"**.** Payment will be for the square yard complete.

**D. Steel Reinforcement.** The Department will make payment for steel reinforcement, if necessary, under bid item #08150 "STEEL REINFORCEMENT". Payment will be at the unit price per pound.

**E. Asphalt Approach Pavement.** The Department will make payment for the completed and accepted quantity of this work under the bid item #03304 "BRIDGE OVERLAY APPROACH PAVEMENT".

# SPECIAL NOTES
# DISTRICT NO. 1
# BRIDGE CLEANING AND PREVENTATIVE MAINTENACE
# VARIOUS COUNTIES
# CID - 162605
# FEDERAL PROJECT – NHPP0011034

**FD52 042 9003 B00155L 24.72**
Graves County ~ Jackson Purchase Parkway over US-45

Latitude – 36° 46’ 02.00’’
Longitude – 088° 38’ 35.00’’

**Description**
57’-57’-57’-57’ Prestressed Concrete Multi-beam Spans

**FD52 042 9003 B00155R 24.74**
Graves County ~ Jackson Purchase Parkway over US-45

Latitude – 36° 46’ 02.00’’
Longitude – 088° 38’ 35.00’’

**Description**
57’-57’-57’-57’ Prestressed Concrete Multi-beam Spans

**FD52 042 9003 B00167L 33.99**
Graves County ~ Jackson Purchase Parkway over Clarks River Overflow

Latitude – 36° 48’ 40.00’’
Longitude – 088° 29’ 24.00’’

**Description**
30’7½” – 41’3” - 30’7½” Continuous RCDG Spans

**FD52 042 9003 B00167R 34.02**
Graves County ~ Jackson Purchase Parkway over Clarks River Overflow

Latitude – 36° 48’ 40.00’’
Longitude – 088° 29’ 23.00’’

**Description**
30’7½” – 41’3” - 30’7½” Continuous RCDG Spans

**FD52 042 9003 B00168R 34.35**
Graves County ~ Jackson Purchase Parkway over KY-564

Latitude – 36° 48’ 55.00’’
Longitude – 088° 29’ 12.00’’

**Description**
40’7½” – 46’3” – 40’7½” Continuous RCDG Spans.

**FD52 079 9003 B00074R 42.76**
Marshall County ~ Jackson Purchase Parkway over Abandoned Railroad

Latitude – 36° 52’ 17.00’’
Longitude – 088° 21’ 48.00’’

**Description**
50’-50’-50’ Precast Prestressed Concrete Girder Spans

**FD52 079 9003 B00076L 43.65**
Marshall County ~ Purchase Parkway over East Fork Clarks River

Latitude – 36° 53’ 00.00’’
Longitude – 088° 21’ 33.00’’

**Description**
48’-48’-48’-68’–90’– 68’– 48’– 48’– 48’ Continuous T-Beam

# SPECIAL NOTES FOR CLEANING AND PREVENTATIVE MAINTENANCE

SPECIAL NOTE FOR BRIDGE CLEANING AND PREVENTATIVE MAINTENANCE

SPECIAL NOTE FOR WASTE MANAGEMENT

SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY REGULATIONS

SPECIAL NOTE FOR UTILITIES AND SIGNS

# SPECIAL NOTE FOR BRIDGE CLEANING AND PREVENTATIVE MAINTENANCE

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2012 Standard Specification for Road and Bridge Construction applicable Supplemental Specifications, Standard Drawings, this Note and Attached Detailed Drawings. Section references are to the Standard Specifications. This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) remove and bag large debris; (3) Power wash all structural steel members, drainage system, joints, bearing devices, end bent, abutment, and pier caps as specified in these notes and as shown in the detailed drawings; (4) Coating Rusted Steel Members; (5) Remove stratified rust and apply lubricant to the bearings; (6) Apply concrete sealer to the end bent, abutment, and pier caps as specified in these notes and as shown in the detailed drawings.

## A. SUBMITTALS

The Contractor shall comply with the submittal requirements detailed in Section 108 of the 2012 Standard Specifications for Road and Bridge Construction and submit the following **written** items to the Project Engineer **14 days** prior to the Pre-Construction Conference:

1. A detailed Progress of Work Schedule. The Progress of Work Schedule will be reviewed and approved by the KYTC Engineer.
2. Traffic Control Plan. The Traffic Control Plan will be reviewed and approved by the KYTC Engineer.
3. Worker Protection Plan. The Worker Protection Plan will be reviewed by the KYTC Engineer.
4. Environmental Compliance Plan, including a Waste Management and a Ground Water and Surface Water Protection Plan. The Environmental Compliance Plans will be reviewed by the KYTC Engineer.

**All submittals must be received, accepted and/or approved prior to beginning any work.**

## B. SCOPE OF WORK

### DEBRIS REMOVAL

All debris shall be collected from the bearing devises, structural steel members (girders, diaphragms and stiffeners), abutment/end bent/pier caps, drainage system, joints and bridge deck. Equipment for collecting debris from bridge decks shall be determined by the Contractor, subject to the approval of the Engineer. The Contractor shall use care not to damage any coating system on the structures. The Contractor shall prevent any debris from entering any body of water, bridge drainage system, or traffic lanes. All debris collected shall be disposed of in a suitable off-site disposal facility. Prior to all cleaning work, the Contractor shall conform that the bridge drainage system is not blocked by un-removable debris by rodding with a sewer road or similar tool.

A blocked drainage system is considered to be one from which debris cannot be removed using the means specified in this note. If the Engineer has be notified, and concurs that the

drainage system is blocked prior to performing other cleaning work, then proceed at the direction of the engineer. If the Contractor does not inspect the bridge drainage system and notify the engineer prior to beginning work any blocked drains will be considered to be the result of the Contractor's operations, and all clearing and cleaning of the drainage system shall be done as part of the work of the specification. All vegetation present at substructure units shall be removed for access as determined by the Engineer.

**STRATIFIED AND PACK RUST REMOVAL**

All stratified and/or pack rust shall be removed by wire brushes, scrapers or impact devices (hand hammers or power chisels). All surfaces where stratified and or pack rust have be removed shall be clean to an SSPC SP-2 level. All debris collected shall be disposed of in a suitable off-site disposal facility. Surfaces shall include all **bearing devices and steel members** (girders, diaphragms and stiffeners) within 4 feet longitudinal of an open joint. See attached detailed drawings for location of specified work.

**POWER WASHING**

All, bearing devises, structural steel members (girders, diaphragms and stiffeners) abutment/end bent caps and back walls, pier caps, drainage system and joints shall be power washed. See detailed drawing for each structure. All equipment for pressure washing shall be operated at a pressure of approximately 1,000 psi. (plus or minus 200 psi) at the working location with a minimum flow rate of 3.5 gal/minute provided that these pressures do not damage any components of the structure. Pressure and flow rates shall be reduced to a level satisfactory to the Engineer should any damage occur due to power washing procedures. Pressure washing shall be operated at distance of approximately six inches from and perpendicular to the surface. All pressure washing wands shall be equipped with a gauge to accurately determine the amount pressure used. Pressure washing of any bridge element will proceed from top of wash area to bottom of wash area. Wash water will not be released to a bridge element previously washed. Wash all exposed steel within 10 feet of any joint in girder spans.

**BEARING LUBRICATION**

After all stratified rust and pack rust is removed and power washing is complete, bearings shall have lubricant applied to all surfaces of the bearing including bearing plates and points of movement. Allow bearings to dry before lubricant is applied. Lubricant must be applied within 48 hours of completing washing. There are **28** total movable bearings. One of the following lubricants shall be used:

**'Never Seez – Mariner's Choice' produce by Bostik Inc.,**

**'Mobil Centaur Moly NLGI Grades 1 or 2' produced by Mobil Oil**

**'Premalube #1 WG' produced by Certified Labs.**

**CONCRETE SEALING**

All abutment/end bent caps, pedestals and back walls and pier caps shall be sealed after debris removal and power washing. Use compressed air to remove any loose debris from the surfaces that are to be sealed after power washing. Apply sealer to abutment / end bent / pier caps to all horizontal surfaces including pedestals and all vertical surfaces 3 feet below the top of cap or ground line whichever is least. Allow the surfaces to be sealed 24 hours minimum to dry before any sealer is applied. The sealer must be applied within 72 hours of pressure washing. The sealer used shall be 'Belzona 5122 Clear Cladding' produced by Belzona International in accordance with the manufactures application instructions. See attached detailed drawings for locations of specified work for each structure.

## C. STRUCTURE COMPONENT DEFINITIONS

### DRAINAGE SYSTEM

The drainage system includes all inside surfaces of plinth gutter lines 3 feet onto the deck the entire length of bridge including end bent/abutment wing walls, see detailed drawing for each structure, grate, drain castings, couplings, funneling systems, drains, scuppers and downspouts.

### BEARINGS

See attached detailed drawings for locations of bearings for each structure.

### ABUTMENT, END BENT AND PIER CAPS

Substructure areas to receive debris removal, power washing and concrete sealing.

## D. WASH WATER

Use clean potable water for all pressure washing.

## E. ACCESS AND INSPECTION

### ACCESS

The Contractor shall provide OSHA compliant safe access for all cleaning operations and inspection.

### INSPECTION

The Cabinet will provide inspection for all items required in this contract. Visual inspection will be required upon completion of each work item for each structure component or at the discretion of the Engineer at anytime. All visual inspection shall be preformed for an arm's length distance.

**Debris Removal:** Visual Inspection

**Stratified Rust or Pack Rust Removal:** Visual Inspection and Scraper Test any surface cleaned to SSPC SP2 will be inspected by a dull scraper test to ascertain adherence of coating edges.

**Power Washing:** Visual Inspection

**Bearing Greasing:** Visual Inspection

**Concrete Sealing:** Visual Inspection

**F. SEASONAL AND WEATHER LIMITATIONS**

No work will be performed as specified in these notes after November 15 and before April 1 unless the Engineer provides written permission. Work will only be performed when the temperature measured at the area of the bridge is greater than 40 degrees Fahrenheit. All materials specified shall be applied according to the manufactures specifications.

**G. DAMAGE**

Any damage to structure that occurs during the cleaning operations shall be repaired by the Contractor to satisfaction of the Engineer at no additional expense to the cabinet.

**H. MEASURMENT**

'BRIDGE CLEANING AND PREVENTIVE MAINTENANCE'. The Cabinet shall measure this item as a lump sum.

**I. PAYMENT**

'BRIDGE CLEANING AND PREVENTIVE MAINTENANCE'. The contract price for this item will be paid as a lump sum. The payment for this bid item at the contract unit price of Lump Sum shall be considered full compensation for complete and accepted work for all work items described in this note which includes all labor, materials, equipment needed to complete all specified items in this contract for 'BRIDGE CLEANING AND PREVENTIVE MAINTENANCE

## SPECIAL NOTE FOR WASTE MANAGEMENT

The Contractor will arrange for an independent agency to obtain representative samples of wastes created at each structure. Samples will be submitted to a KYTC approved independent agency for Toxicity Characteristic Leaching Procedure (TCLP) waste determination. Any debris determined to be hazardous by TCLP will be handled, transported, and disposed of as hazardous waste. Additional payment will be made for the cost only to transport and dispose of any debris that is determined hazardous.

The Department will provide a site on its property for the Contractor to store any debris that is determined hazardous.

The Contractor shall be solely responsible for the management and the disposal of all hazardous waste generated during the cleaning and painting operations in accordance with the Kentucky Revised Statutes, Chapter 224, Subchapter 46, and the Kentucky Administrative Regulations promulgated pursuant thereto.

The Kentucky Transportation Cabinet will file a Notification of Hazardous Waste Activity with the Kentucky Division of Waste Management to obtain an EPA Identification Number in accordance with **401 KAR 32:010, Section 3**. The Cabinet will provide the Contractor with this EPA ID number to be used in hazardous waste management in compliance with **401 KAR 32:010, Section 3** (1).

The Contractor shall be responsible for furnishing appropriate U.S. DOT containers that are made or lined with materials which are compatible with the hazardous waste to be stored in accordance with **401 KAR 35:180, Section 3**. All hazardous wastes collected at the job site shall be placed in those containers for transport to the storage site. The containers shall be used and managed at the job site and at the storage site in accordance with **401 KAR 35:180**. Prior to the transfer of the containers of hazardous waste from the job site to the storage area, the containers shall be correctly sealed, labeled, marked and placarded as defined in the pre-transport requirements of **401 KAR 32:030**.

Each container shall be labeled "Hazardous Waste" and the date clearly marked when the hazardous waste is ***first*** added to the container in compliance with **401KAR 35:180**, **Section 4(3)**. That date marked is the *start date* of the **seventy-five** (75) day storage period

The generator for the waste under this contract is the Kentucky Transportation Cabinet. All records including the labels on the waste containers and the manifests shall be completed using the Transportation Cabinet as the generator.

The Department requires that all hazardous waste shall be removed within seventy-five (75) days of the accumulation start date. The Contractor shall select a registered hazardous waste transporter to transport the containers of hazardous waste generated during the painting operations to a permitted hazardous waste treatment, storage or disposal facility. The hazardous waste must be manifested with a Uniform Hazardous Waste Manifest that is to be completed, in entirety, as per the regulations of **401 KAR 32:020** and **401 KAR 32:100**. Copies of all manifests with the Land

Disposal Restriction Notice must be provided to the Project Manager and the Central Office, Division of Construction.

# SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY REGULATIONS

## (A) Governing regulations

The coatings on the structures in this contract may contain lead, which is classified as a hazardous (toxic) material. Be knowledgeable of and comply with, all **lead-related** environmental and health regulations governing the Contractor's operations. Comply with regulations current at the time the work is performed and all requirements herein. Collect, transport to waste storage sites, and store hazardous wastes in accordance with applicable environmental and health regulations. The contractor is solely responsible for collection, transport, storage and disposal of all hazardous wastes.

## (B) Liabilities and Obligations

The contractor shall be solely responsible for compliance with all applicable environmental and health and safety regulations to the satisfaction of the applicable government regulatory agencies and the Department. The Department assumes no obligations or liabilities for work stoppages or fines due to enforcement actions by government regulatory agencies or to related delays that the Department deems necessary.

## (C) State and Local Regulatory Agencies

State and local regulatory agencies charged with enforcing **most** regulations affecting the generation of hazardous wastes and worker safety issues are:

Kentucky Occupational Safety and Health Program, Labor Cabinet, Commonwealth of Kentucky, Frankfort, Kentucky

Environmental and Public Protection Cabinet, Commonwealth of Kentucky, Frankfort, Kentucky

## (D) Groundwater and Surface water Protection

The contractor shall prepare and implement a groundwater and surface water protection plan in accordance with **401 KAR 5:037 (Ground Water), KRS 224.70-110 and 401 KAR 10:031 (Surface water**) with the exception that hazardous waste or hazardous materials container volume is not limited to greater than 55 gallons or weight to 100 pounds.

## SPECIAL NOTE FOR UTILITIES AND SIGNS

All utilities, traffic lighting, navigational lighting and traffic signs shall be maintain and protected from damage.

# SPECIAL NOTE FOR CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES ON BRIDGE REPAIR CONTRACTS

**I. COMPLETION DATE.** The Contractor has the option of selecting the starting date for this Contract. Once selected, notify the Department in writing of the date selected at least two weeks prior to beginning work. All work is to be completed by November 15, 2017. An allotted number of Calendar days are assigned to each structure in this contract as shown below.

| STRUCTURE | NO. OF CALENDAR DAYS | COMPLETION DATE |
|---|---|---|
| 042B00155L | 30 | November 15, 2017 |
| 042B00155R | 30 | November 15, 2017 |
| 042B00167L | 30 | November 15, 2017 |
| 042B00167R | 30 | November 15, 2017 |
| 042B00168R | 30 | November 15, 2017 |
| 079B00074R | 30 | November 15, 2017 |
| 079B00076L | 30 | November 15, 2017 |

Contrary to Section 108.07.02, the Engineer will begin charging calendar days for a structure on the day the Contractor starts work or sets up traffic control on that particular structure.

**II. LIQUIDATED DAMAGES**. Liquidated damages will be assessed the Contractor in accordance with the Transportation Cabinet, Department of Highway's 2012 Standard Specifications for Road and Bridge Construction, Section 108.09, when either the allotted number of calendar days or the November 15, 2017 date is exceeded.

Contrary to the Standard Specifications, liquidated damages will be assessed the Contractor during the months of December, January, February and March when the contract time has expired on any individual bridge or bridges. Contract time will be charged during these months.

All construction must be completed in accordance with the weather limitations specified in Section 606 and/or Section 601 as applicable. No extension of Contract time will be granted due to inclement weather or temperature limitations that occur due to starting work on the Contract or a structure late in the construction season.

# SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply the first course of asphalt seal coat at the rate of 3.2 lbs/sy of asphalt and 30 lbs/sy of size #78 seal coat aggregate. Apply the second course at 2.8 lbs/sy of asphaltt and 20 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to “Asphalt Material for Asphalt Seal Coat”.

1-3215 Double Asphalt Seal Coat
01/02/2012

# SPECIAL NOTE FOR
# ASPHALT MILLING AND TEXTURING

Begin paving operations within **two weeks** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Take possession of the millings and recycle the millings or dispose of the millings off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.

1-3505 2 weeks Contractor keeps millings
01/2/2012

# SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

1-3725 Typical Section Dimensions
01/02/2012

# TRAFFIC CONTROL PLAN

## TRAFFIC CONTROL GENERAL

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

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

## PROJECT PHASING & CONSTRUCTION PROCEDURES

Do not erect lane closures during the following days and hours:

Quilt Week

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

At locations with three or more lanes, maintain one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. Provide a minimum clear lane width of 10 feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

## LANE CLOSURES

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

## SIGNS

Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

## CHANGEABLE MESSAGE SIGNS

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

## ARROW PANELS

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

## TEMPORARY ENTRANCES

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

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

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

## TRAFFIC SIGNAL LOOPS

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

## THERMOPLASTIC INTERSECTION MARKINGS

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

## BARRICADES

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

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

## PAVEMENT MARKINGS

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exceptions:

1. Include edge lines in Temporary Striping; and
2. Place Temporary or Permanent Striping before opening a lane to traffic; and
3. If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

**PAVEMENT EDGE DROP-OFFS**

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

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

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

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

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

## USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

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

### Application

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

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

**CMS should not be used for**:

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

**Messages**

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

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

**Placement**

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

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

**Standard Abbreviations**

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

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

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

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

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

| | | |
|---|---|---|
| TEMP | Temporary | Temperature |
| WRNG | Warning | Wrong |

**TYPICAL MESSAGES**

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

| **Reason/Problem** | Action |
|---|---|
| ACCIDENT | ALL TRAFFIC EXIT RT |
| ACCIDENT/XX MILES | AVOID DELAY USE XX |
| XX ROAD CLOSED | CONSIDER ALT ROUTE |
| XX EXIT CLOSED | DETOUR |
| BRIDGE CLOSED | DETOUR XX MILES |
| BRIDGE/(SLIPPERY, ICE, ETC.) | DO NOT PASS |
| CENTER/LANE/CLOSED | EXPECT DELAYS |
| DELAY(S), MAJOR/DELAYS | FOLLOW ALT ROUTE |
| DEBRIS AHEAD | KEEP LEFT |
| DENSE FOG | KEEP RIGHT |
| DISABLED/VEHICLE | MERGE XX MILES |
| EMER/VEHICLES/ONLY | MERGE LEFT |
| EVENT PARKING | MERGE RIGHT |
| EXIT XX CLOSED | ONE-WAY TRAFFIC |
| FLAGGER XX MILES | PASS TO LEFT |
| FOG XX MILES | PASS TO RIGHT |
| FREEWAY CLOSED | PREPARE TO STOP |
| FRESH OIL | REDUCE SPEED |
| HAZMAT SPILL | SLOW |
| ICE | SLOW DOWN |
| INCIDENT AHEAD | STAY IN LANE |
| LANES (NARROW, SHIFT, MERGE, ETC.) | STOP AHEAD |
| LEFT LANE CLOSED | STOP XX MILES |
| LEFT LANE NARROWS | TUNE RADIO 1610 AM |
| LEFT 2 LANES CLOSED | USE NN ROAD |
| LEFT SHOULDER CLOSED | USE CENTER LANE |
| LOOSE GRAVEL | USE DETOUR ROUTE |
| MEDIAN WORK XX MILES | USE LEFT TURN LANE |
| MOVING WORK ZONE, WORKERS IN ROADWAY | USE NEXT EXIT |
| NEXT EXIT CLOSED | USE RIGHT LANE |
| NO OVERSIZED LOADS | WATCH FOR FLAGGER |
| NO PASSING | |
| NO SHOULDER | |
| ONE LANE BRIDGE | |

PEOPLE CROSSING
RAMP CLOSED
RAMP (SLIPPERY, ICE, ETC.)
RIGHT LANE CLOSED
RIGHT LANE NARROWS
RIGHT SHOULDER CLOSED
ROAD CLOSED
ROAD CLOSED XX MILES
ROAD (SLIPPERY, ICE, ETC.)
ROAD WORK
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)
ROAD WORK XX MILES
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)
NEW SIGNAL XX MILES
SLOW 1 (OR 2) - WAY TRAFFIC
SOFT SHOULDER
STALLED VEHICLES AHEAD
TRAFFIC BACKUP
TRAFFIC SLOWS
TRUCK CROSSING
TRUCKS ENTERING
TOW TRUCK AHEAD
UNEVEN LANES
WATER ON ROAD
WET PAINT
WORK ZONE XX MILES
WORKERS AHEAD

# SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

## I. TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the 2012 Standard Specifications, Section 112. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new or used in new condition, at the beginning of the work and maintained in like new condition until completion of the work.

## II. TRAFFIC COORDINATOR

Furnish a Traffic Coordinator as per Section 112. The Traffic Coordinator shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor's operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

The Traffic Coordinator shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

## III. SIGNS

Contrary to Section 112.04.02, only long term signs (sign intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

The contractor is to install warning signs for wide loads in advance of the bridge under the direction of the Engineer. The Department will not measure installation, maintenance, or removal for payment, and will consider these incidentals to Maintain and Control Traffic.

## IV. TEMPORARY PAVEMENT STRIPING

Skip lines and/or solid lines through the length of the tapers for lane closures and other striping as directed by the Engineer shall be temporarily covered with 6" black removable tape. Permanent removal of all other pavement striping for traffic control shall be considered incidental to Maintain and Control Traffic. Temporary pavement striping shall be paid only once per course in accordance with Section 112.04.07. The Contractor shall replace any temporary striping that becomes damaged or fails to adhere to the pavement before dark on the day of the notification. Liquidated damages shall be assessed to the Contractor at a rate of $500 per day for failing to replace temporary striping within this time limit.

## V. PROJECT PHASING & CONSTRUCTION PROCEDURES

The Contractor shall maintain one lane of traffic on the Parkway at all times in accordance with Standard Drawing No. TTC-120 and the attached detail drawings. The clear lane width required is:

| Structure | Clear Lane Width |
|---|---|
| 042B00155L | 13 ft. |
| 042B00155R | 13 ft. |
| 042B00167L | 13 ft. |
| 042B00167R | 13 ft. |
| 042B00168R | 13 ft. |
| 079B00074R | 13 ft. |
| 079B00076L | 13 ft. |

Parkway lane closures will not be permitted on these days:

Memorial Day Weekend (Friday-Monday)
Independence Day, when July 4th is on Tuesday, Wednesday, or Thursday; or
Independence Day Weekend, when July 4th is on Monday (Saturday-Monday) or Friday (Friday-Sunday)
Labor Day Weekend (Friday-Monday)

## VI. BARRIER WALL

Payment of the contract unit price per linear foot for "CONCRETE BARRIER WALL TYPE 9T" shall be full compensation for furnishing, installing, maintaining, adjusting alignment as needed, removing the barrier when no longer needed, and all incidental items necessary to complete the work.

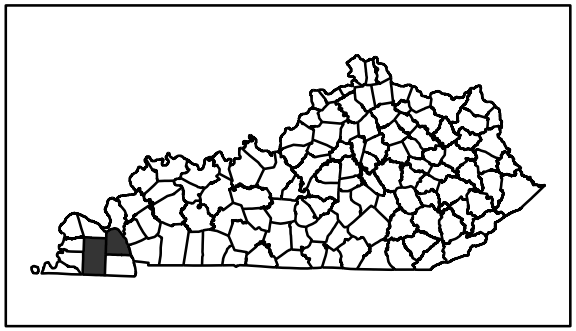
Provide one side mounted barrier wall delineator per each section of barrier. See Standard Drawing RBM-020 for types. No direct payment allowed for delineators.

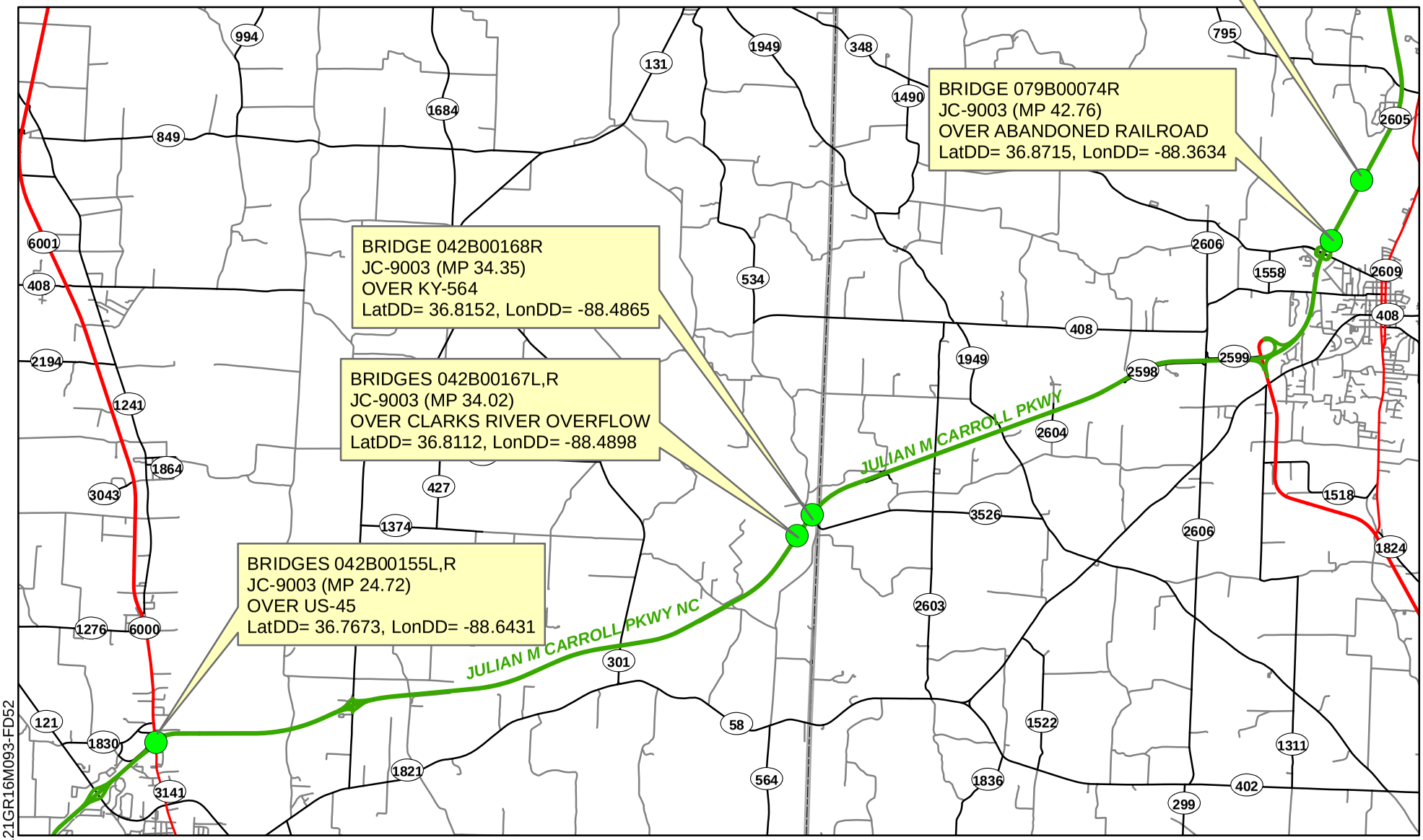
## VII. CRASH CUSHION / END TREATMENTS

To the satisfaction of the Engineer extend Barrier wall out of the clear zone. If Barrier wall is not extended out of the clear zone to the satisfaction of the engineer provide crash cushions / end treatments for the barrier wall.

Provide Barrier end treatments that comply with NCHRP 350 LEVEL 3.

# GRAVES AND MARSHALL COUNTIES





# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031601**

JC-9003 B00155L (MP 24.72). BRIDGE OVER US-45 BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0005 | 02003 | RELOCATE TEMP CONC BARRIER | 640.00 | LF |
| 0010 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0015 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 042B00155L | 1.00 | LS |
| 0020 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0025 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0030 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0035 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 640.00 | LF |
| 0040 | 03298 | EXPAN JOINT REPLACE 4 IN | 97.10 | LF |
| 0045 | 03299 | ARMORED EDGE FOR CONCRETE | 97.10 | LF |
| 0050 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 844.44 | SQYD |
| 0055 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 1,087.07 | LF |
| 0060 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0065 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0070 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0075 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0080 | 08504 | EPOXY SAND SLURRY | 62.90 | SQYD |
| 0085 | 08526 | CONC CLASS M FULL DEPTH PATCH | 5.00 | CUYD |
| 0090 | 08534 | CONCRETE OVERLAY-LATEX | 49.80 | CUYD |
| 0095 | 08549 | BLAST CLEANING | 1,258.00 | SQYD |
| 0100 | 08551 | MACHINE PREP OF SLAB | 1,195.00 | SQYD |
| 0105 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0110 | 24094EC | PARTIAL DEPTH PATCHING | 33.20 | CUYD |
| 0115 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0120 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0125 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031602**

JC-9003 B00155R (MP 24.74). BRIDGE OVER US-45 BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0130 | 02003 | RELOCATE TEMP CONC BARRIER | 640.00 | LF |
| 0135 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0140 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 042B00155R | 1.00 | LS |
| 0145 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0150 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0155 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0160 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 640.00 | LF |
| 0165 | 03298 | EXPAN JOINT REPLACE 4 IN | 97.10 | LF |
| 0170 | 03299 | ARMORED EDGE FOR CONCRETE | 97.10 | LF |
| 0175 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 844.44 | SQYD |
| 0180 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 1,087.07 | LF |
| 0185 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0190 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0195 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0200 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0205 | 08504 | EPOXY SAND SLURRY | 62.90 | SQYD |
| 0210 | 08526 | CONC CLASS M FULL DEPTH PATCH | 5.00 | CUYD |
| 0215 | 08534 | CONCRETE OVERLAY-LATEX | 49.80 | CUYD |
| 0220 | 08549 | BLAST CLEANING | 1,258.00 | SQYD |
| 0225 | 08551 | MACHINE PREP OF SLAB | 1,195.00 | SQYD |
| 0230 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0235 | 24094EC | PARTIAL DEPTH PATCHING | 33.20 | CUYD |
| 0240 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0245 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0250 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031605**

JC-9003 B00167L (MP 33.997). BRIDGE OVER CLARKS RIVER OVERFLOW BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0255 | 02003 | RELOCATE TEMP CONC BARRIER | 460.00 | LF |
| 0260 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0265 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 042B00167L | 1.00 | LS |
| 0270 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0275 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0280 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0285 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 460.00 | LF |
| 0290 | 03295 | EXPAN JOINT REPLACE 2 IN | 87.80 | LF |
| 0295 | 03299 | ARMORED EDGE FOR CONCRETE | 87.80 | LF |
| 0300 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 844.44 | SQYD |
| 0305 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 719.00 | LF |
| 0310 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0315 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0320 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0325 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0330 | 08504 | EPOXY SAND SLURRY | 24.00 | SQYD |
| 0335 | 08526 | CONC CLASS M FULL DEPTH PATCH | 5.00 | CUYD |
| 0340 | 08534 | CONCRETE OVERLAY-LATEX | 19.00 | CUYD |
| 0345 | 08549 | BLAST CLEANING | 480.00 | SQYD |
| 0350 | 08551 | MACHINE PREP OF SLAB | 456.00 | SQYD |
| 0355 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0360 | 24094EC | PARTIAL DEPTH PATCHING | 12.70 | CUYD |
| 0365 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0370 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0375 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031606**

JC-9003 B00167R (MP 34.020). BRIDGE OVER CLARKS RIVER OVERFLOW BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0380 | 02003 | RELOCATE TEMP CONC BARRIER | 460.00 | LF |
| 0385 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0390 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 042B00167R | 1.00 | LS |
| 0395 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0400 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0405 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0410 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 460.00 | LF |
| 0415 | 03295 | EXPAN JOINT REPLACE 2 IN | 87.80 | LF |
| 0420 | 03299 | ARMORED EDGE FOR CONCRETE | 87.80 | LF |
| 0425 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 844.44 | SQYD |
| 0430 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 719.00 | LF |
| 0435 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0440 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0445 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0450 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0455 | 08504 | EPOXY SAND SLURRY | 24.00 | SQYD |
| 0460 | 08526 | CONC CLASS M FULL DEPTH PATCH | 5.00 | CUYD |
| 0465 | 08534 | CONCRETE OVERLAY-LATEX | 19.00 | CUYD |
| 0470 | 08549 | BLAST CLEANING | 480.00 | SQYD |
| 0475 | 08551 | MACHINE PREP OF SLAB | 456.00 | SQYD |
| 0480 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0485 | 24094EC | PARTIAL DEPTH PATCHING | 12.70 | CUYD |
| 0490 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0495 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0500 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031607**

JC-9003 B00168R (MP 34.35). BRIDGE OVER KY-564 BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0505 | 02003 | RELOCATE TEMP CONC BARRIER | 500.00 | LF |
| 0510 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0515 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 042B00168R | 1.00 | LS |
| 0520 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0525 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0530 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0535 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 500.00 | LF |
| 0540 | 03295 | EXPAN JOINT REPLACE 2 IN | 79.00 | LF |
| 0545 | 03299 | ARMORED EDGE FOR CONCRETE | 79.00 | LF |
| 0550 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 733.33 | SQYD |
| 0555 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 775.00 | LF |
| 0560 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0565 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0570 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0575 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0580 | 08504 | EPOXY SAND SLURRY | 29.30 | SQYD |
| 0585 | 08526 | CONC CLASS M FULL DEPTH PATCH | 2.00 | CUYD |
| 0590 | 08534 | CONCRETE OVERLAY-LATEX | 23.20 | CUYD |
| 0595 | 08549 | BLAST CLEANING | 587.00 | SQYD |
| 0600 | 08551 | MACHINE PREP OF SLAB | 557.00 | SQYD |
| 0605 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0610 | 24094EC | PARTIAL DEPTH PATCHING | 15.50 | CUYD |
| 0615 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0620 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0625 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB04290031608**

RAMP WORK ON JC 9003 IN GRAVES COUNTY RAMP WORK ON THE JULIAN CARROLL PURCHASE PARKWAY BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0880 | 01903 | REMOVE CONCRETE ROLL CURB | 7,907.00 | LF |
| 0885 | 01705 | REMOVE CURB & GUTTER BOX INLET | 6.00 | EACH |
| 0890 | 02562 | TEMPORARY SIGNS | 550.00 | SQFT |
| 0895 | 05950 | EROSION CONTROL BLANKET | 3,953.50 | SQYD |
| 0900 | 24530ED | LONGITUDINAL SAW CUT 8 IN | 7,907.00 | LF |
| 0905 | 00103 | ASPHALT SEAL COAT | 12.70 | TON |
| 0910 | 00100 | ASPHALT SEAL AGGREGATE | 105.50 | TON |
| 0915 | 05985 | SEEDING AND PROTECTION | 3,953.50 | SQYD |
| 0920 | 02696 | SHOULDER RUMBLE STRIPS-SAWED | 7,407.00 | LF |
| 0925 | 23159EN | DURABLE WATERBORNE MARKING-6 IN W | 7,907.00 | LF |
| 0930 | 23160EN | DURABLE WATERBORNE MARKING-6 IN Y | 7,907.00 | LF |
| 0935 | 06592 | PAVEMENT MARKER TYPE V-B W/R | 50.00 | EACH |
| 0940 | 06593 | PAVEMENT MARKER TYPE V-B Y/R | 136.00 | EACH |
| 0945 | 02383 | REMOVE & RESET GUARDRAIL | 2,754.00 | LF |
| 0950 | 02650 | MAINTAIN & CONTROL TRAFFIC - (GRAVES COUNTY RAMPS) | 1.00 | LS |
| 0955 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0960 | 02483 | CHANNEL LINING CLASS II | 60.00 | TON |
| 0965 | 01007 | PERFORATED PIPE EDGE DRAIN-8 IN | 7,907.00 | LF |
| 0970 | 01030 | PERF PIPE HEADWALL TY 3-8 IN | 8.00 | EACH |
| 0975 | 00003 | CRUSHED STONE BASE | 2,060.00 | TON |
| 0980 | 00216 | CL3 ASPH BASE 1.00D PG76-22 | 1,110.00 | TON |
| 0985 | 00332 | CL3 ASPH SURF 0.50A PG76-22 | 420.00 | TON |
| 0990 | 02676 | MOBILIZATION FOR MILL & TEXT | 1.00 | LS |
| 0995 | 02677 | ASPHALT PAVE MILLING & TEXTURING | 50.00 | TON |
| 1000 | 01012 | NON-PERFORATED PIPE-8 IN | 300.00 | LF |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB07990031601**

JC-9003 B00074R (MP 42.76). BRIDGE OVER ABANDONED RR BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0630 | 02003 | RELOCATE TEMP CONC BARRIER | 510.00 | LF |
| 0635 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0640 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 079B00074R | 1.00 | LS |
| 0645 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0650 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0655 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0660 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 510.00 | LF |
| 0665 | 03295 | EXPAN JOINT REPLACE 2 IN | 79.20 | LF |
| 0670 | 03299 | ARMORED EDGE FOR CONCRETE | 79.20 | LF |
| 0675 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 844.44 | SQYD |
| 0680 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 835.32 | LF |
| 0685 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0690 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0695 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0700 | 08150 | STEEL REINFORCEMENT | 267.20 | LB |
| 0705 | 08504 | EPOXY SAND SLURRY | 35.10 | SQYD |
| 0710 | 08526 | CONC CLASS M FULL DEPTH PATCH | 2.00 | CUYD |
| 0715 | 08534 | CONCRETE OVERLAY-LATEX | 27.80 | CUYD |
| 0720 | 08549 | BLAST CLEANING | 703.00 | SQYD |
| 0725 | 08551 | MACHINE PREP OF SLAB | 668.00 | SQYD |
| 0730 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0735 | 24094EC | PARTIAL DEPTH PATCHING | 18.50 | CUYD |
| 0740 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0745 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0750 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB07990031603**

JC-9003 B00076L (MP 43.645). BRIDGE OVER EAST FORK CLARKS RIVER BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 0755 | 02003 | RELOCATE TEMP CONC BARRIER | 870.00 | LF |
| 0760 | 02562 | TEMPORARY SIGNS | 149.00 | SQFT |
| 0765 | 02650 | MAINTAIN & CONTROL TRAFFIC - APPLIES TO 079B00076L | 1.00 | LS |
| 0770 | 02653 | LANE CLOSURE | 2.00 | EACH |
| 0775 | 02671 | PORTABLE CHANGEABLE MESSAGE SIGN | 1.00 | EACH |
| 0780 | 02775 | ARROW PANEL | 1.00 | EACH |
| 0785 | 03171 | CONCRETE BARRIER WALL TYPE 9T | 870.00 | LF |
| 0790 | 03298 | EXPAN JOINT REPLACE 4 IN | 120.00 | LF |
| 0795 | 03299 | ARMORED EDGE FOR CONCRETE | 60.00 | LF |
| 0800 | 03304 | BRIDGE OVERLAY APPROACH PAVEMENT | 667.00 | SQYD |
| 0805 | 06514 | PAVE STRIPING-PERM PAINT-4 IN | 1,678.00 | LF |
| 0810 | 06549 | PAVE STRIPING-TEMP REM TAPE-B | 500.00 | LF |
| 0815 | 06550 | PAVE STRIPING-TEMP REM TAPE-W | 2,000.00 | LF |
| 0820 | 06551 | PAVE STRIPING-TEMP REM TAPE-Y | 2,000.00 | LF |
| 0825 | 08150 | STEEL REINFORCEMENT | 534.40 | LB |
| 0830 | 08504 | EPOXY SAND SLURRY | 115.30 | SQYD |
| 0835 | 08526 | CONC CLASS M FULL DEPTH PATCH | 5.00 | CUYD |
| 0840 | 08534 | CONCRETE OVERLAY-LATEX | 72.10 | CUYD |
| 0845 | 08549 | BLAST CLEANING | 1,845.00 | SQYD |
| 0850 | 08551 | MACHINE PREP OF SLAB | 1,730.00 | SQYD |
| 0855 | 23949EC | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS |
| 0860 | 24094EC | PARTIAL DEPTH PATCHING | 48.10 | CUYD |
| 0865 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 0870 | 02898 | RELOCATE CRASH CUSHION | 1.00 | EACH |
| 0875 | 02900 | INSTALL TEMP CRASH CUSHION | 1.00 | EACH |

# MATERIAL SUMMARY

**CONTRACT ID: 162605** **121GR16M093-FD52** **MB07990031608**

RAMP WORK ON JC 9003 IN MARSHALL COUNTY RAMP WORK ON THE JULIAN CARROLL PURCHASE PARKWAY BRIDGE DECK RESTORATION & WATERPROOFING.

| Project Line No | Bid Code | DESCRIPTION | Quantity | Unit |
|---|---|---|---|---|
| 1005 | 00100 | ASPHALT SEAL AGGREGATE | 40.30 | TON |
| 1010 | 00103 | ASPHALT SEAL COAT | 4.85 | TON |
| 1015 | 00216 | CL3 ASPH BASE 1.00D PG76-22 | 390.00 | TON |
| 1020 | 00332 | CL3 ASPH SURF 0.50A PG76-22 | 130.00 | TON |
| 1025 | 00003 | CRUSHED STONE BASE | 725.00 | TON |
| 1030 | 01007 | PERFORATED PIPE EDGE DRAIN-8 IN | 2,620.00 | LF |
| 1035 | 01030 | PERF PIPE HEADWALL TY 3-8 IN | 3.00 | EACH |
| 1040 | 01705 | REMOVE CURB & GUTTER BOX INLET | 1.00 | EACH |
| 1045 | 01903 | REMOVE CONCRETE ROLL CURB | 3,020.00 | LF |
| 1050 | 02383 | REMOVE & RESET GUARDRAIL | 2,636.00 | LF |
| 1055 | 02483 | CHANNEL LINING CLASS II | 10.00 | TON |
| 1060 | 02562 | TEMPORARY SIGNS | 550.00 | SQFT |
| 1065 | 02650 | MAINTAIN & CONTROL TRAFFIC - (MARSHALL COUNTY RAMPS) | 1.00 | LS |
| 1070 | 02696 | SHOULDER RUMBLE STRIPS-SAWED | 3,020.00 | LF |
| 1075 | 05950 | EROSION CONTROL BLANKET | 1,510.00 | SQYD |
| 1080 | 05985 | SEEDING AND PROTECTION | 1,510.00 | SQYD |
| 1085 | 06592 | PAVEMENT MARKER TYPE V-B W/R | 10.00 | EACH |
| 1090 | 06593 | PAVEMENT MARKER TYPE V-B Y/R | 50.00 | EACH |
| 1095 | 23159EN | DURABLE WATERBORNE MARKING-6 IN W | 3,020.00 | LF |
| 1100 | 23160EN | DURABLE WATERBORNE MARKING-6 IN Y | 3,020.00 | LF |
| 1105 | 24530ED | LONGITUDINAL SAW CUT 8 IN | 3,020.00 | LF |
| 1110 | 02569 | DEMOBILIZATION | 1.00 | LS |
| 1115 | 01012 | NON-PERFORATED PIPE-8 IN | 100.00 | LF |

| EXIT 25 | | |
|---|---|---|
| **North Bound On Ramp** | | |
| Curb Box Removal | 1 | ea. |
| Curb Removal | 1216 | L.F. |
| Asphalt Seal Aggregate (Double Application) | 16.21 | tons |
| Asphalt Seal Coat (Double Application) | 1.95 | tons |
| | | |
| **North Bound Off Ramp** | | |
| Curb Box Removal | 1 | ea. |
| Curb Removal | 1240 | L.F. |
| Asphalt Seal Aggregate (Double Application) | 16.53 | tons |
| Asphalt Seal Coat (Double Application) | 1.98 | tons |
| | | |
| **South Bound On Ramp** | | |
| Curb Box Removal | 1 | ea. |
| Curb Removal | 1706 | L.F. |
| **Large island at US 45** | | |
| Asphalt Seal Aggregate (Double Application) | 22.75 | tons |
| Asphalt Seal Coat (Double Application) | 2.73 | tons |
| | | |
| **South Bound Off Ramp** | | |
| Curb Box Removal | 1 | ea. |
| Curb Removal | 745 | L.F. |
| **Small Island with Box at US 45** | | |
| Asphalt Seal Aggregate (Double Application) | 9.93 | tons |
| Asphalt Seal Coat (Double Application) | 1.19 | tons |
| | | |
| **TOTALS FOR EXIT 25:** | | |
| CURB REMOVAL | 4907 | LF |
| CURB BOX REMOVAL | 4 | EA |
| ASPHALT SEAL AGGREGATE | 65.43 | TONS |
| ASPHALT SEAL COAT | 7.85 | TONS |
| LONGITUDINAL SAW CUT 8 IN | 4907 | LF |
| SHOULDER RUMBLE STRIPS-SAWED | 4907 | LF |
| DURABLE WATERBORNE MARKING-6 IN Y | 4907 | LF |
| DURABLE WATERBORNE MARKING-6 IN W | 4907 | LF |
| SEEDING AND PROTECTION | 2453.5 | SY |
| EROSION CONTROL BLANKET | 2453.5 | SY |
| REMOVE AND RESET GUARDRAIL | 300 | LF |
| PAVEMENT MARKER TYPE V-B Y/R | 84 | EA |
| PAVEMENT MARKER TYPE V-B W/R | 40 | EA |
| PERFORATED PIPE EDGE DRAIN-8 IN | 4907 | LF |
| 8" NON-PERFORATED PIPE | 200 | LF |
| PERF PIPE HEADWALL TY 3-8 IN | 5 | EA |
| CHANNEL LINING CLASS II | 40 | TONS |
| | | |

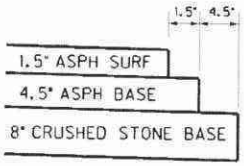
| | | |
|---|---|---|
| **EXIT 27** | | |
| **North Bound On Ramp** | | |
| Curb Box Removal | 2 | ea. |
| Curb Removal | 1810 | L.F. |
| Mill and Inlay (100' x 10'X 4" depth) | 111.11 | sy |
| Asphalt Seal Aggregate (Double Application) | 24.13 | tons |
| Asphalt Seal Coat (Double Application) | 2.90 | tons |
| | | |
| **South Bound Off Ramp** | | |
| Curb Removal | 1190 | L.F. |
| Mill and Inlay (100' x 10'X 4" depth) | 111.11 | sy |
| Asphalt Seal Aggregate (Double Application) | 15.87 | tons |
| Asphalt Seal Coat (Double Application) | 1.90 | tons |
| | | |
| **TOTALS FOR EXIT 27:** | | |
| CURB REMOVAL | 3000 | LF |
| CURB BOX REMOVAL | 2 | EA |
| ASPHALT SEAL AGGREGATE | 40 | TONS |
| ASPHALT SEAL COAT | 4.8 | TONS |
| LONGITUDINAL SAW CUT 8 IN | 3000 | LF |
| SHOULDER RUMBLE STRIPS-SAWED | 2500 | LF |
| DURABLE WATERBORNE MARKING-6 IN Y | 3000 | LF |
| DURABLE WATERBORNE MARKING-6 IN W | 3000 | LF |
| SEEDING AND PROTECTION | 1500 | SY |
| EROSION CONTROL BLANKET | 1500 | SY |
| REMOVE AND RESET GUARDRAIL | 2454 | LF |
| PAVEMENT MARKER TYPE V-B Y/R | 52 | EA |
| PAVEMENT MARKER TYPE V-B W/R | 10 | EA |
| PERFORATED PIPE EDGE DRAIN-8 IN | 3000 | LF |
| 8" NON-PERFORATED PIPE | 100 | LF |
| PERF PIPE HEADWALL TY 3-8 IN | 3 | EA |
| CHANNEL LINING CLASS II | 20 | TONS |
| | | |

| EXIT 47 | | |
|---|---|---|
| **North Bound Off Ramp** | | |
| Curb Removal | 1320 | L.F. |
| | | |
| Asphalt Seal Aggregate (Double Application) | 17.6 | tons |
| Asphalt Seal Coat (Double Application) | 2.11 | tons |
| | | |
| **South Bound On Ramp** | | |
| Curb Box Removal | 1 | ea. |
| Curb Removal | 1700 | L.F. |
| | | |
| Asphalt Seal Aggregate (Double Application) | 22.67 | tons |
| Asphalt Seal Coat (Double Application) | 2.72 | tons |
| | | |
| **TOTALS FOR EXIT 47:** | | |
| CURB REMOVAL | 3020 | LF |
| CURB BOX REMOVAL | 1 | EA |
| ASPHALT SEAL AGGREGATE | 40.27 | TONS |
| ASPHALT SEAL COAT | 4.83 | TONS |
| LONGITUDINAL SAW CUT 8 IN | 3020 | LF |
| SHOULDER RUMBLE STRIPS-SAWED | 3020 | LF |
| DURABLE WATERBORNE MARKING-6 IN Y | 3020 | LF |
| DURABLE WATERBORNE MARKING-6 IN W | 3020 | LF |
| SEEDING AND PROTECTION | 1510 | SY |
| EROSION CONTROL BLANKET | 1510 | SY |
| REMOVE AND RESET GUARDRAIL | 2636 | LF |
| PAVEMENT MARKER TYPE V-B Y/R | 50 | EA |
| PAVEMENT MARKER TYPE V-B W/R | 10 | EA |
| PERFORATED PIPE EDGE DRAIN-8 IN | 2620 | LF |
| 8" NON-PERFORATED PIPE | 100 | LF |
| PERF PIPE HEADWALL TY 3-8 IN | 3 | EA |
| CHANNEL LINING CLASS II | 10 | TONS |
| | | |
| | | |

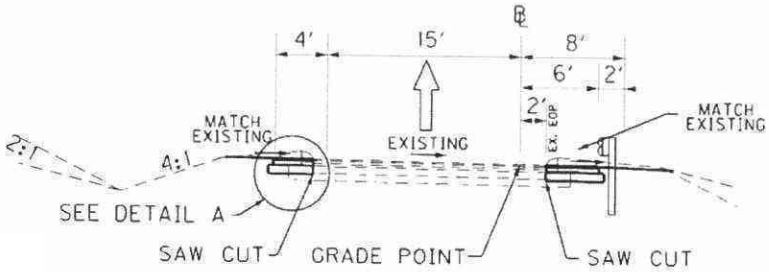
| EXIT 25 & 27 ASPHALT QUANTITIES | | |
|---|---|---|
| Base for Shoulders (8" Crushed Stone Base) (6' Shoulder) | 948.21 | tons |
| Base for Shoulders (8" Crushed Stone Base) (4' Shoulder) | 1107.07 | tons |
| | | |
| Asphalt BASE (1-4.5" lifts per Typical) (6' shoulder) | 510.18 | tons |
| Asphalt BASE (1-4.5" lifts per Typical) (4' shoulder) | 595.65 | tons |
| | | |
| Asphalt SURFACE (1.5" lifts per Typical) (6' shoulder) | 170.06 | tons |
| Asphalt SURFACE (1.5" lifts per Typical) (4' shoulder) | 198.55 | tons |
| | | |
| **EXIT 47 ASPHALT QUANTITIES** | | |
| Base for Shoulders (8" Crushed Stone Base) (6' Shoulder) | 322 | tons |
| Base for Shoulders (8" Crushed Stone Base) (4' Shoulder) | 402.76 | tons |
| | | |
| Asphalt BASE (1-4.5" lifts per Typical) (6' shoulder) | 173.25 | tons |
| Asphalt BASE (1-4.5" lifts per Typical) (4' shoulder) | 216.70 | tons |
| | | |
| Asphalt SURFACE (1.5" lifts per Typical) (6' shoulder) | 57.75 | tons |
| Asphalt SURFACE (1.5" lifts per Typical) (4' shoulder) | 72.23 | tons |
| | | |

| COUNTY OF | ITEM NO. | SHEET NO. |
|---|---|---|
| MARSHALL GRAVES | | |

# TYPICAL SECTION
# RAMPS - ROLL HEADER CURB




DETAIL A




ASPHALT SEAL COAT REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FOOT DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL COAT - 2.4 LBS/SY
ASPHALT SEAL AGGREGATE - 20 LBS/SY

CONSTRUCT RAMP WIDENING PAVEMENT DESIGN FROM GORE TO MAINLINE TIE-IN. CONSTRUCT RAMP (ROLLED CURB REMOVE) PAVEMENT DESIGN ALONG RAMP WHERE ROLLED CURB IS PRESENT.

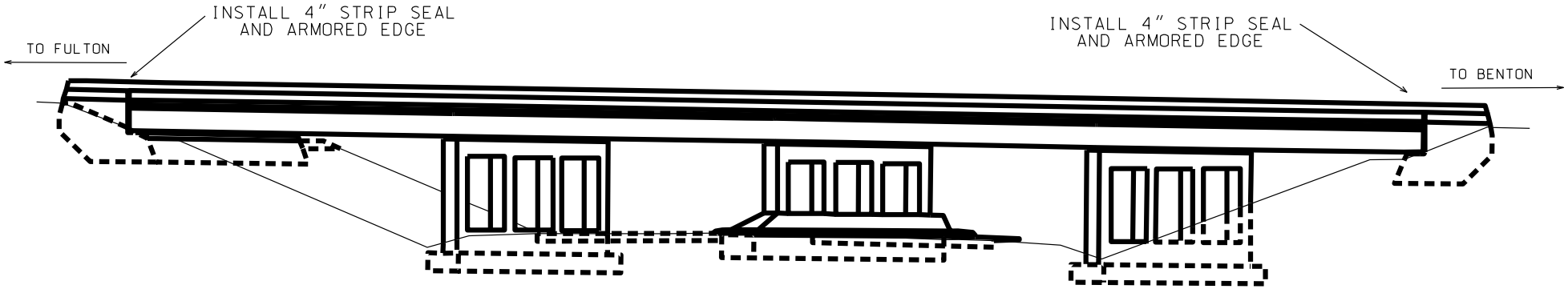
NTS

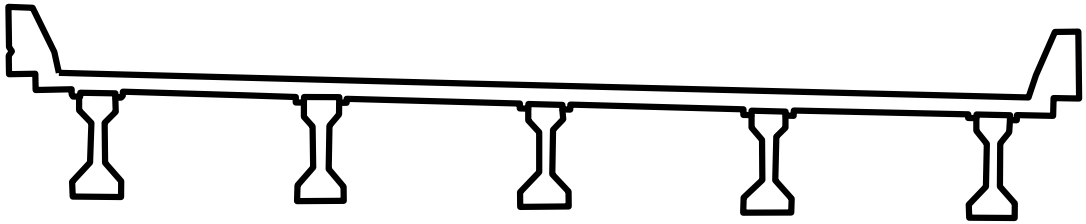
I-69 CORRIDOR IMPROVEMENTS
RAMP
TYPICAL SECTION

# 042B00155L

## (4) 57'PRESTRESSED CONCRETE MULTI-BEAM SPANS

## 283.14' TOTAL - 38°28'14" SKEW



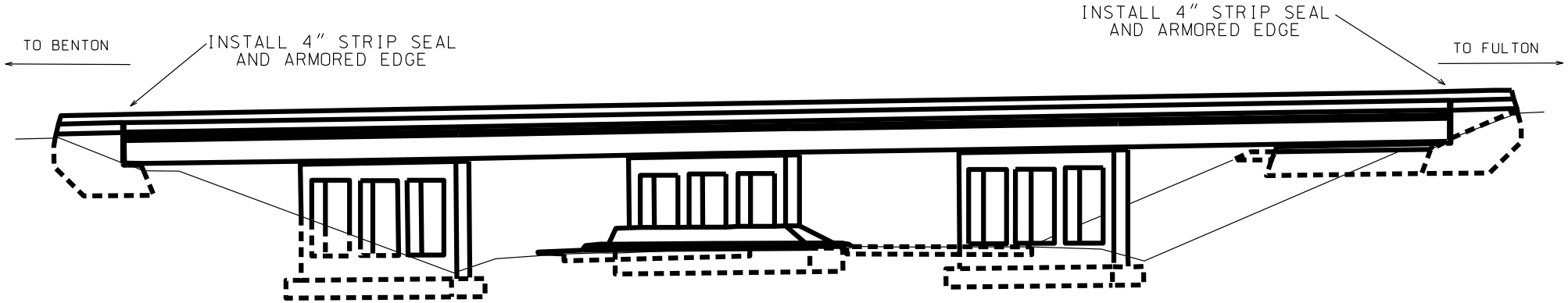



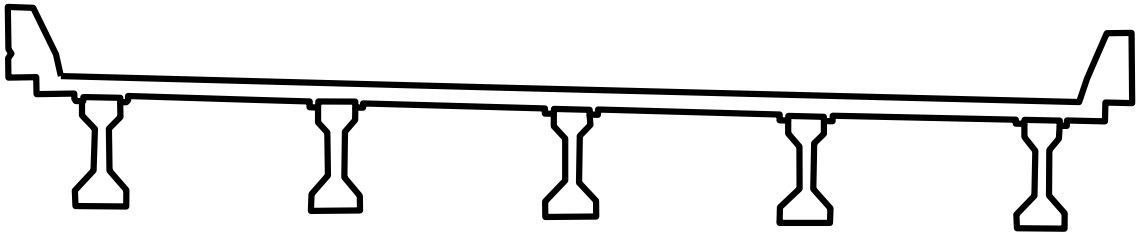
38' CURB TO CURB

# 042B00155R

## (4) 57'PRESTRESSED CONCRETE MULTI-BEAM SPANS

## 283.14' TOTAL - 38°28'14" SKEW



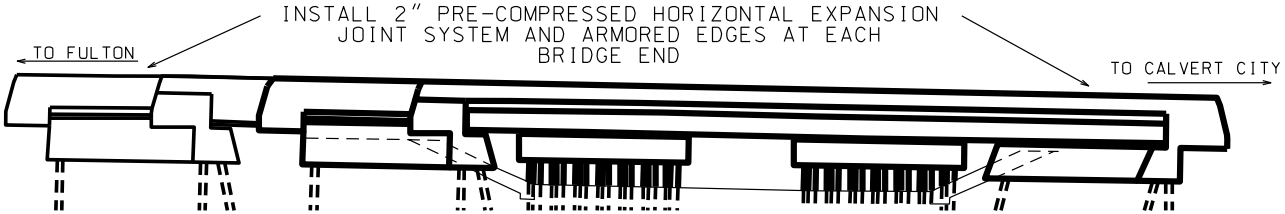



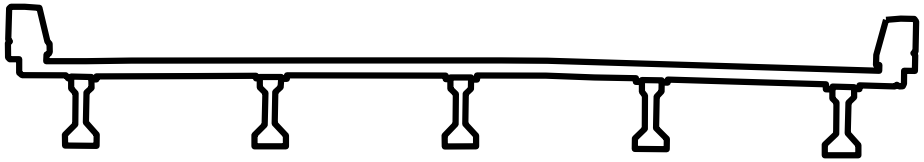
38' CURB TO CURB

# 042B00167L,R

## 30'7½", 41'3", 30'7½" CONTINUOUS RCDG SPANS

## 108' TOTAL EACH - 30° SKEW



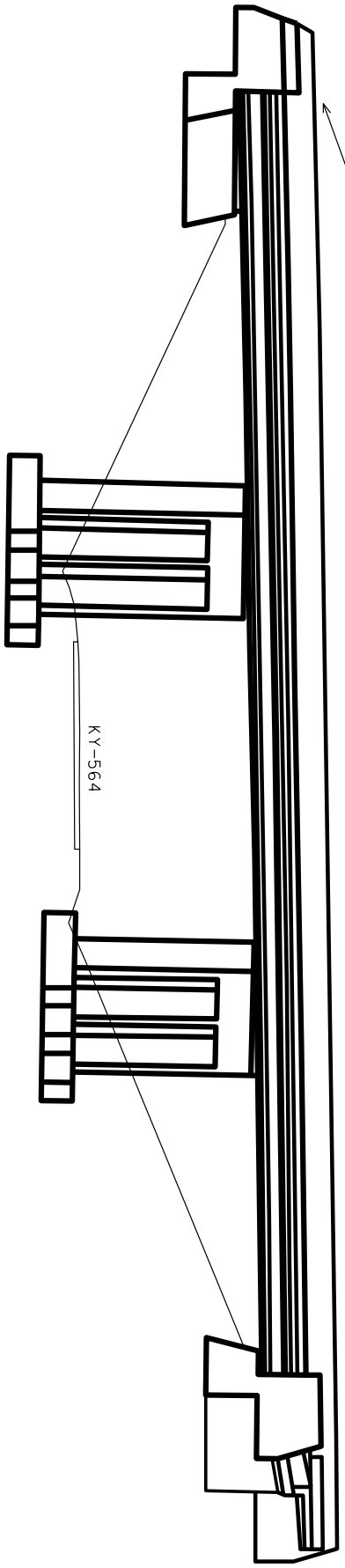



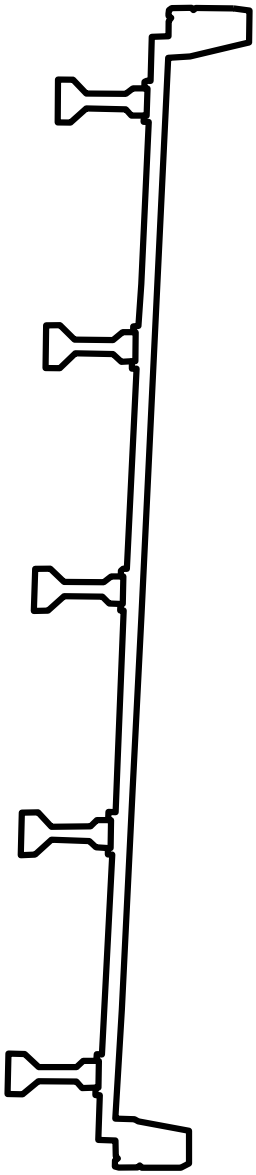
38' CURB TO CURB
(BOTH L and R BRIDGES)

# 042B00168R

## 40'7½", 46'3", 40'7½" CONTINUOUS RCDG SPANS

## 132' TOTAL - 15°46'19" SKEW



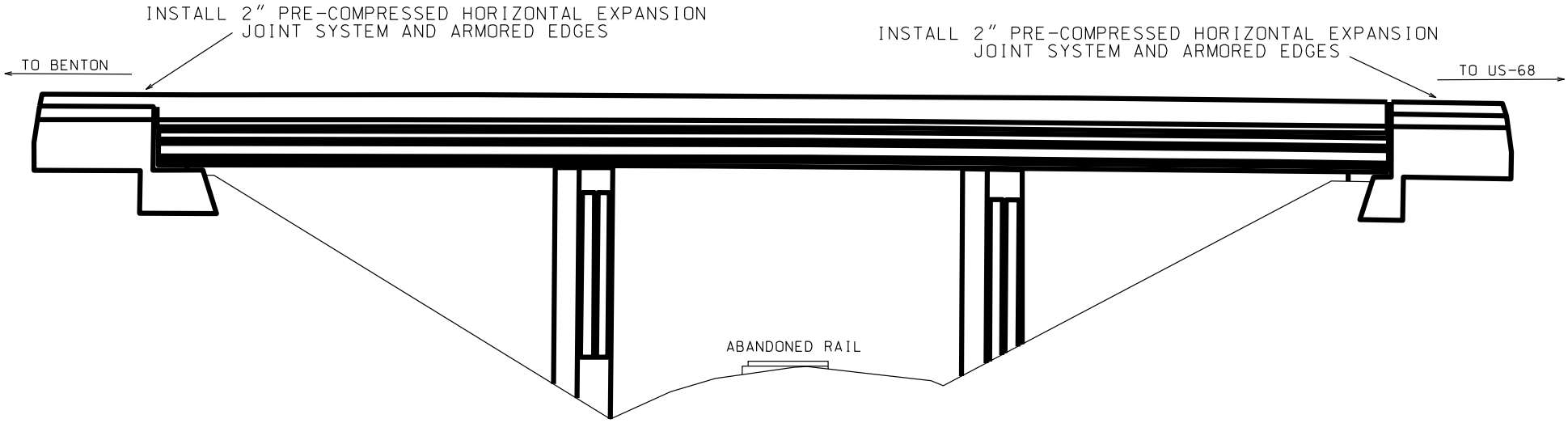



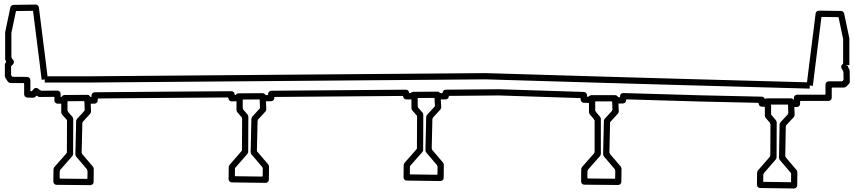
38' CURB TO CURB

# 079B00074R

## 50', 50', 50' PRECAST PRESTRESSED CONCRETE GIRDER SPANS

## 158' TOTAL - 16°19'00" SKEW



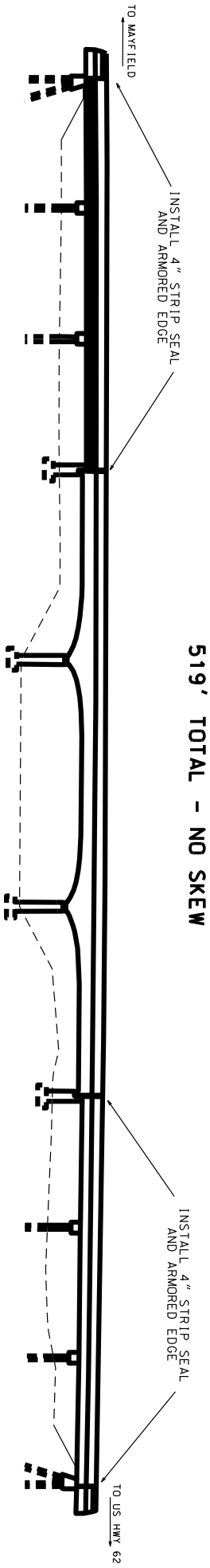



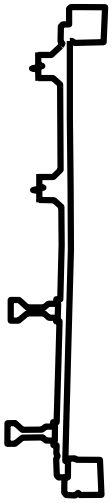
38' CURB TO CURB

# 079B00076L

## (3)48'-68'-90'-68'-(3)48' CONTINUOUS T-BEAM

## 519' TOTAL - NO SKEW

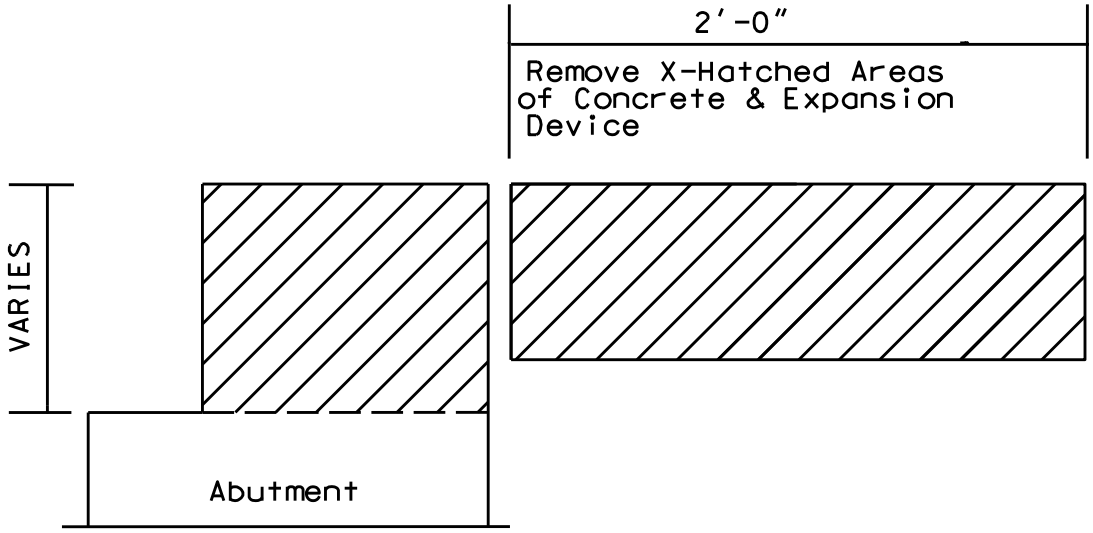


30' CURB TO CURB

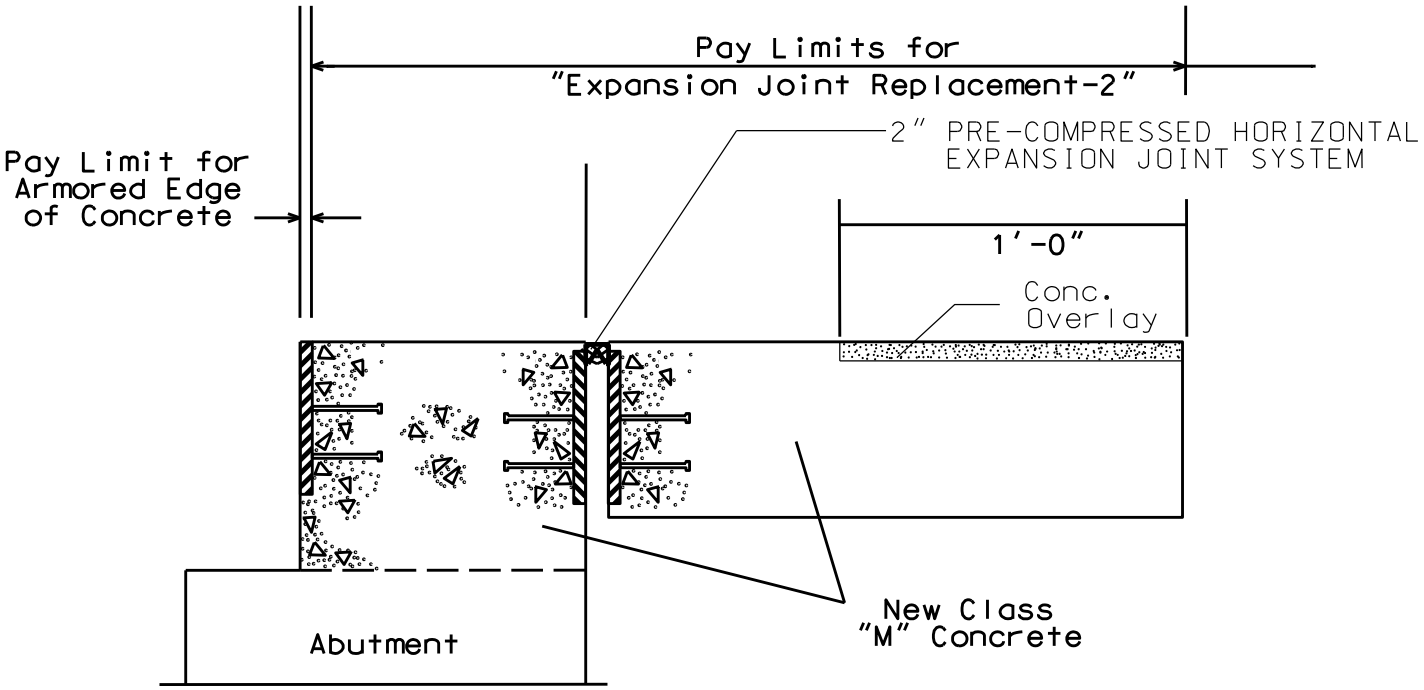
# EXPANSION DAM DETAIL

## Abutments #1 and #2




Clean & Leave Steel Reinf. in place.

## EXISTING SECTION

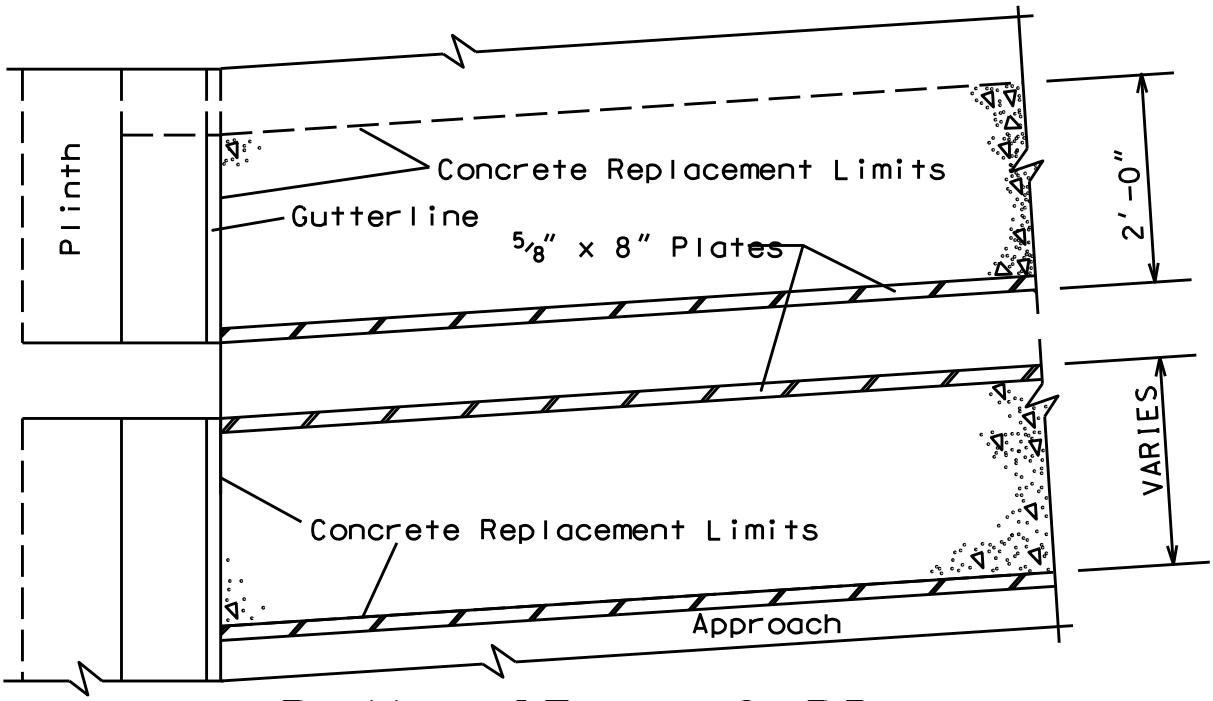



## PROPOSED SECTION

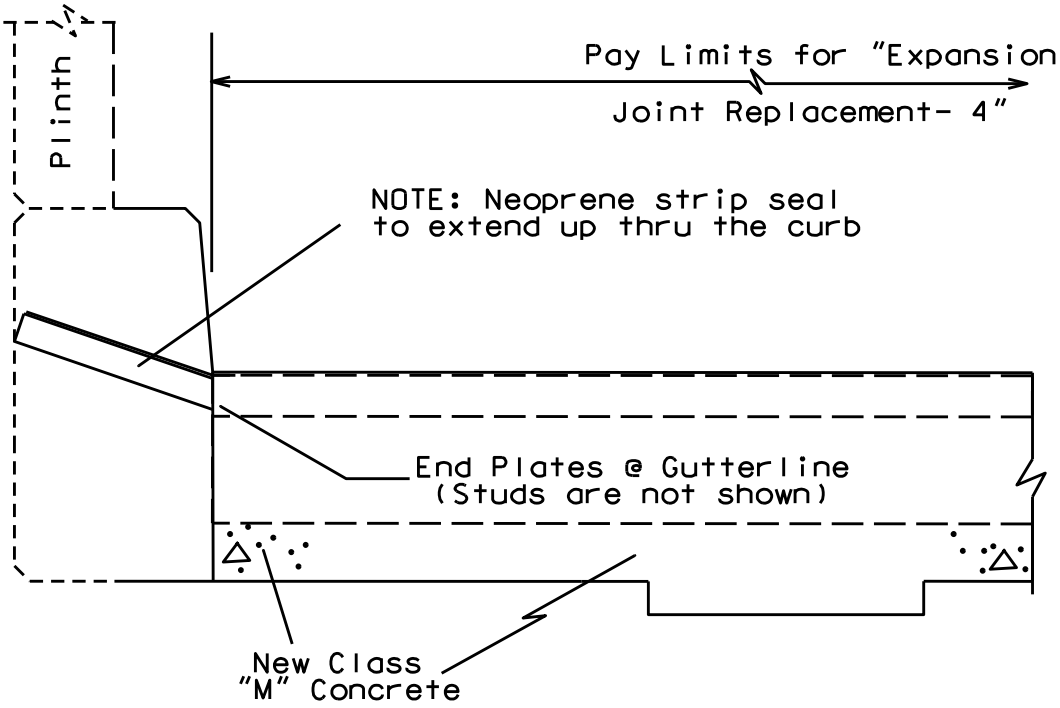
042B00167L, 042B00167R, 042B00168R, 079B00074R

# CURB SECTION

## END BENTS




## PLAN VIEW @ CURB

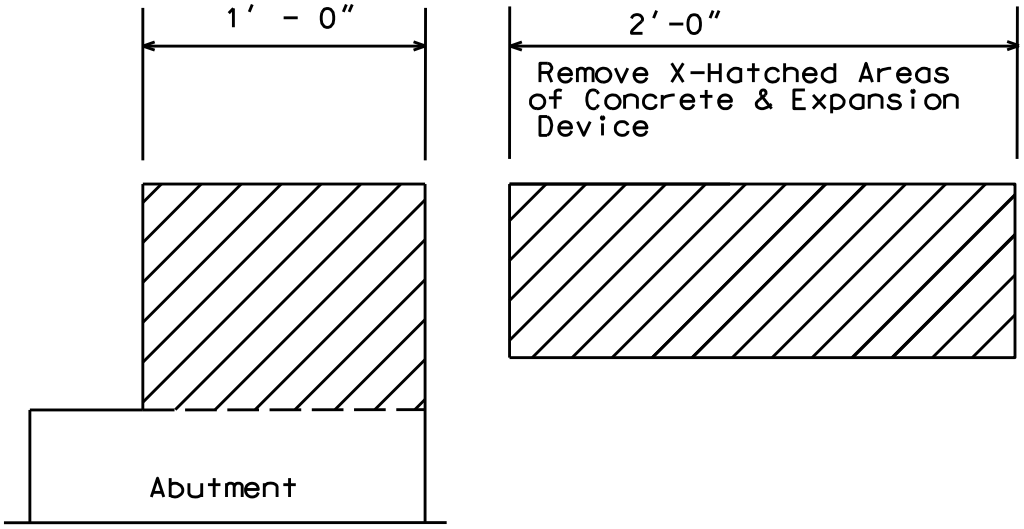



## PROPOSED SECTION @ CURB

042B00155L, 042B00155R, 079B00076L

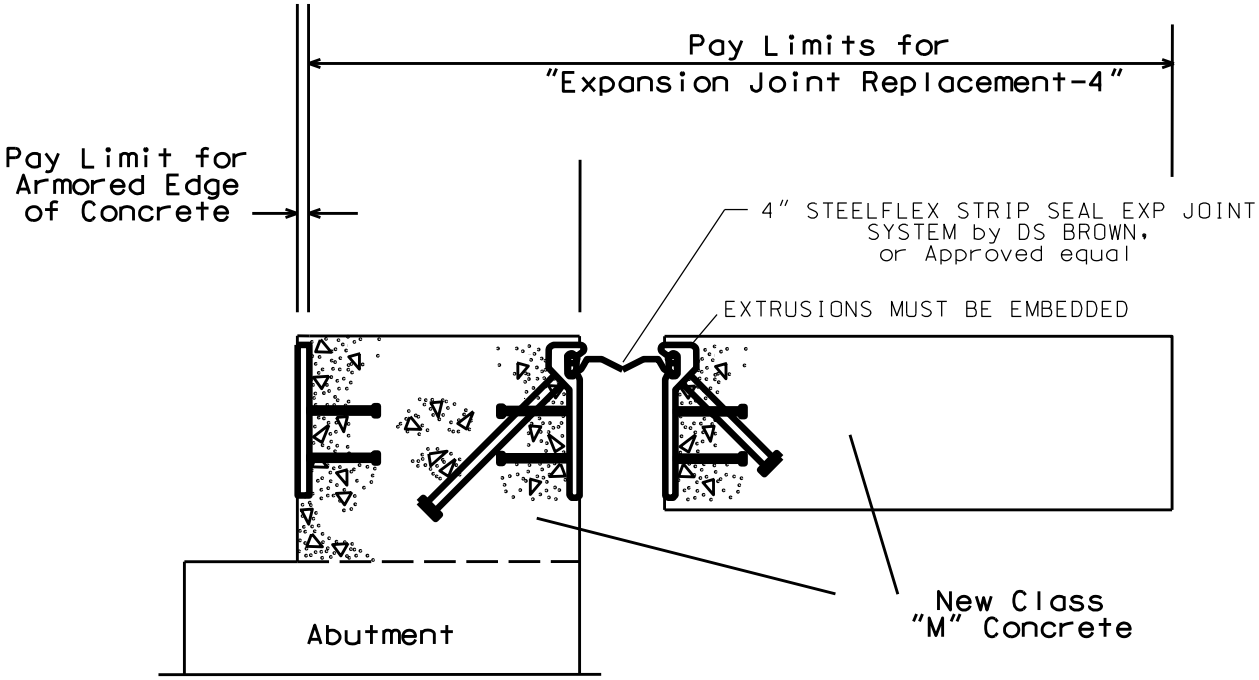
# EXPANSION DAM DETAIL

Abutments #1 and #2




Clean & Leave Steel Reinf. in place.

# EXISTING SECTION

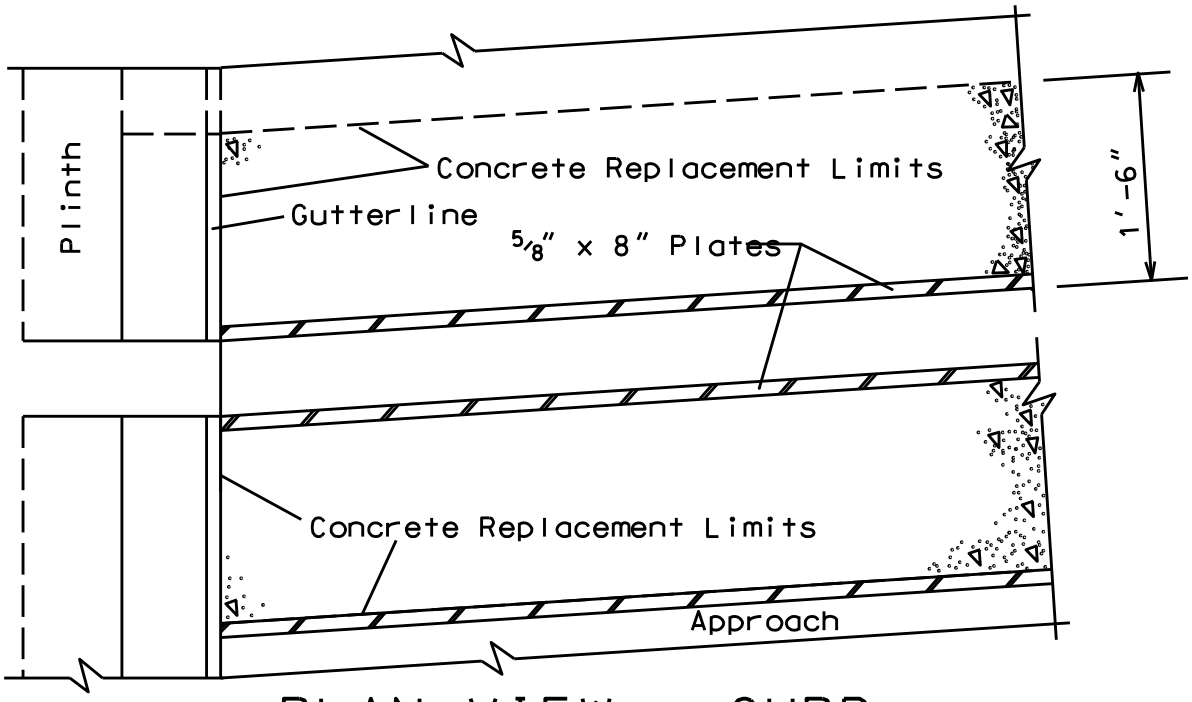



# PROPOSED SECTION

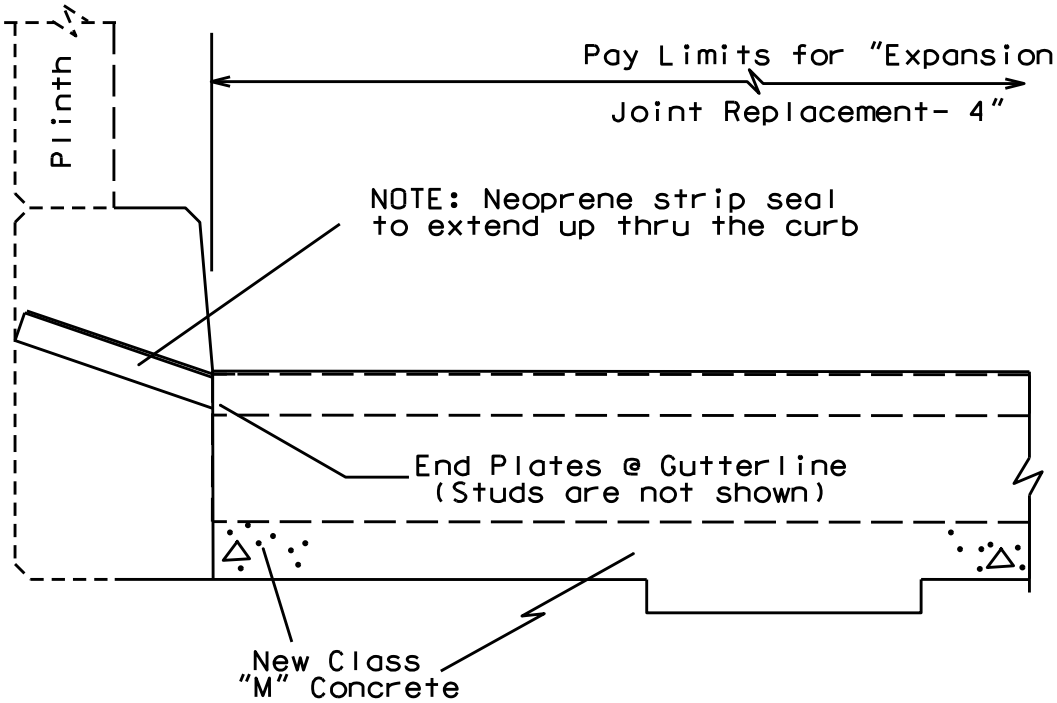
042B00155L, 042B00155R, 079B00076L

# CURB SECTION

## ABUTMENT/END BENT



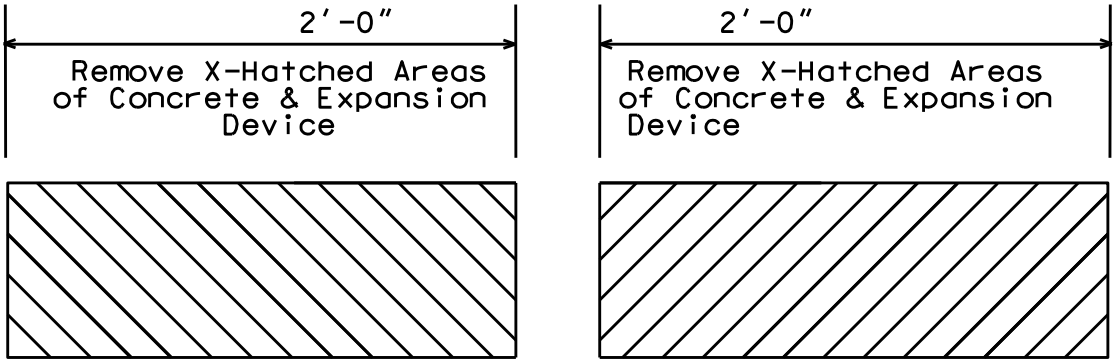

## PLAN VIEW @ CURB



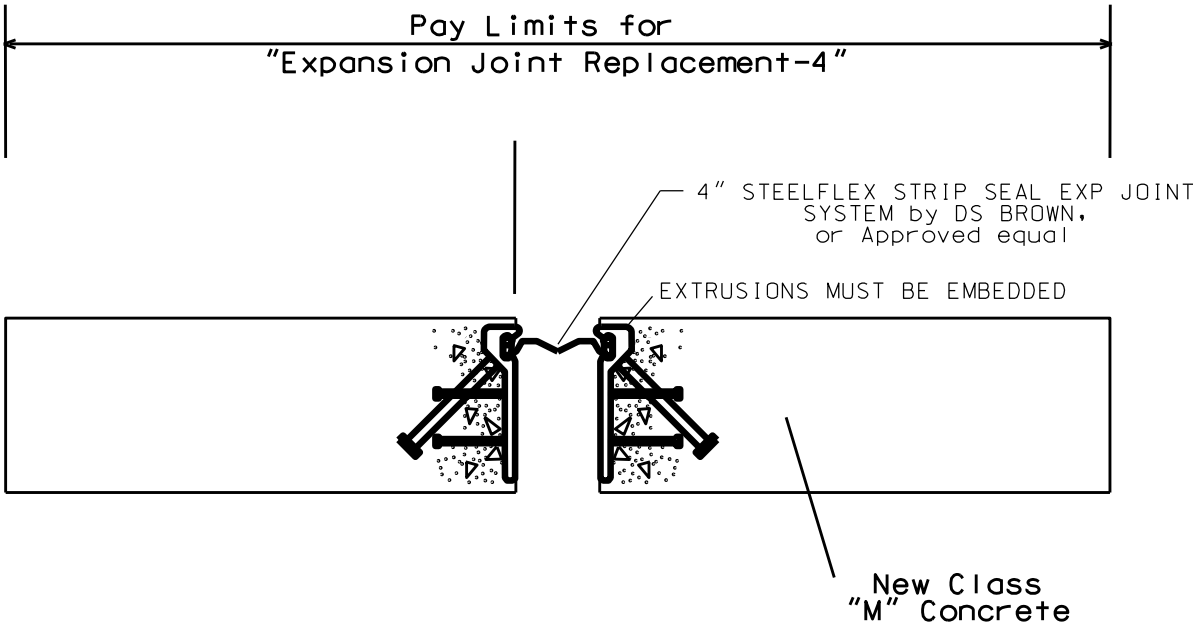

## PROPOSED SECTION @ CURB

079B00076L

# EXPANSION DAM DETAIL



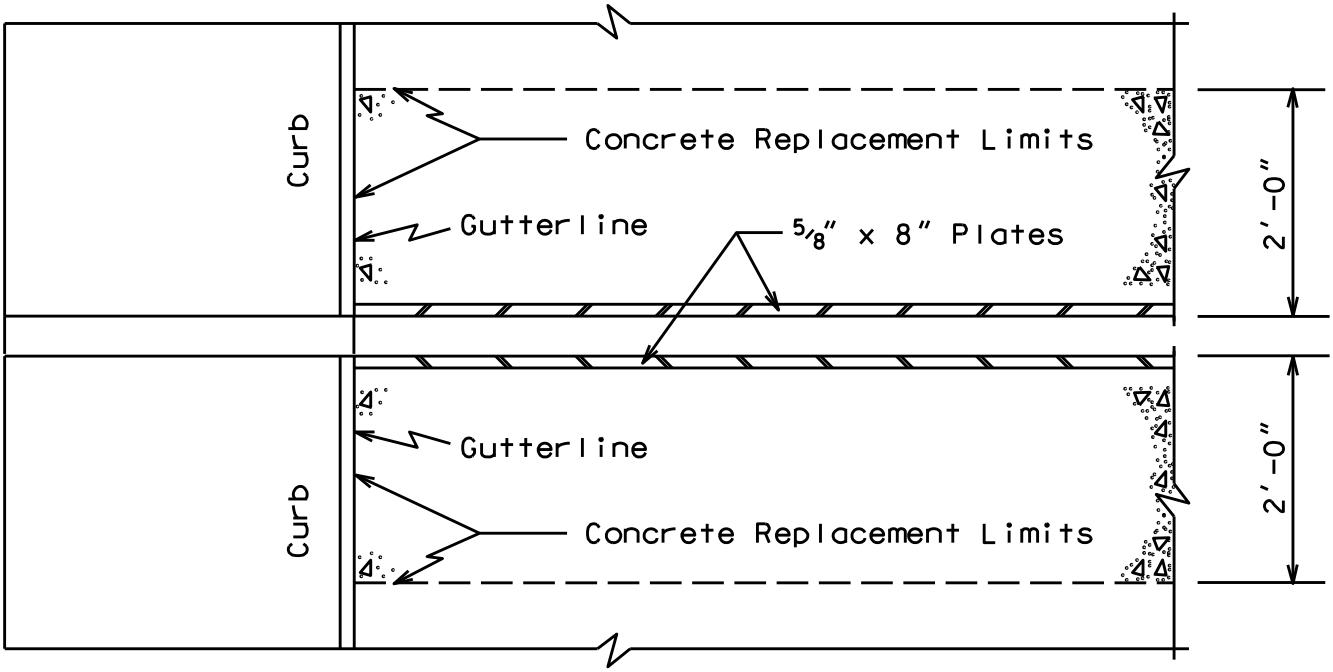

## EXISTING SECTION



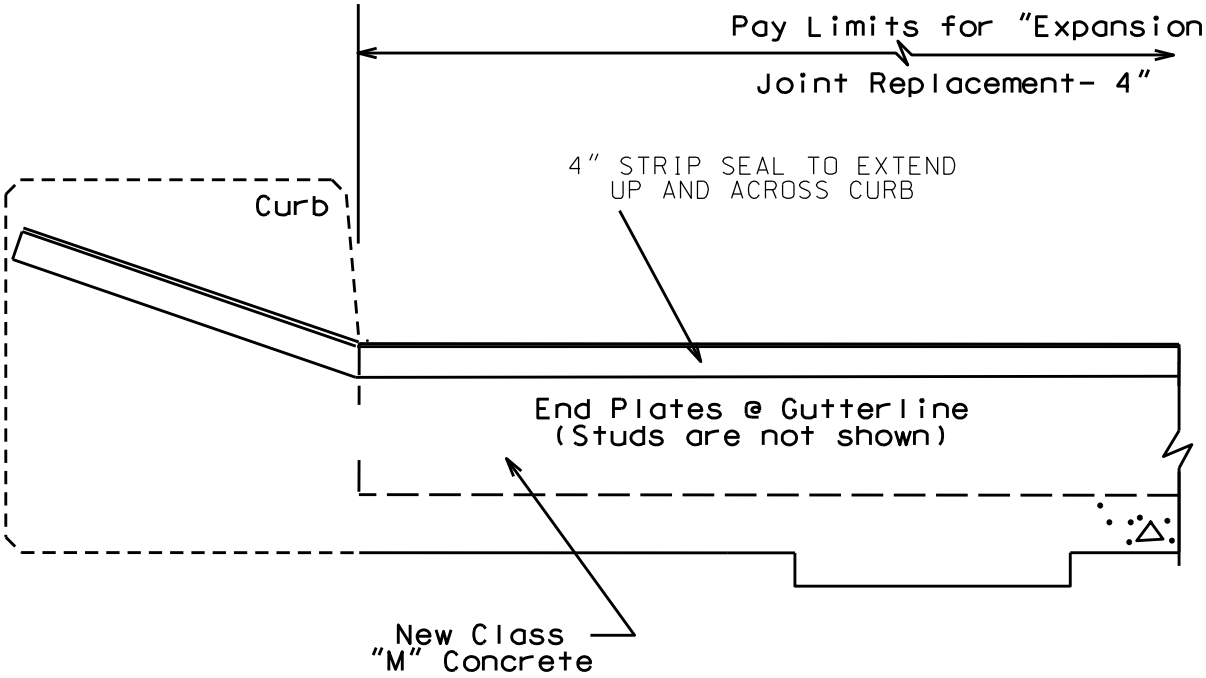

## PROPOSED SECTION

079B00076L

# CURB SECTION




# PLAN VIEW @ CURB




# PROPOSED SECTION @ CURB

# 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.*

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

| | |
|---|---|
| **Subsection:**<br>**Revision:** | 101.03 DEFINITIONS<br>Add the following Definitions to this section:<br>**Superpave Mix Design Technologist (SMDT)** - An inspector qualified by the KYTC to submit, adjust, or approve asphalt mix designs.<br><br>**Superpave Plant Technologist (SPT)** - An inspector qualified by the KYTC to perform routine inspection and process control, acceptance, or verification testing on asphalt mixtures. |
| **Subsection:**<br>**Revision:** | 102.15 Process Agent.<br>Replace the 1st paragraph with the following:<br>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:**<br>**Revision:** | 105.13 Claims Resolution Process.<br>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. |
| **Subsection:**<br>**Revision:** | 108.01 Subcontracting of Contract.<br>Replace the section with the following:<br>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.<br><br>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.<br><br>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.<br><br>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.<br><br>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 |

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| | 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.<br><br>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.<br><br>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.<br><br>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. |
| **Subsection:**<br>**Revision:** | 108.03 Preconstruction Conference.<br>Replace 8) Staking with the following:<br>8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky. |
| **Subsection:**<br>**Revision:** | 109.07.02 Fuel.<br>Revise item Crushed Aggregate Used for Embankment Stabilization to the following:<br>Crushed Aggregate<br>Used for Stabilization of Unsuitable Materials<br>Used for Embankment Stabilization |
| | Delete the following item from the table.<br>~~Crushed Sandstone Base (Cement Treated)~~ |
| **Subsection:**<br>**Revision:** | 110.02 Demobilization.<br>Replace the first part of the first sentence of the second paragraph with the following:<br>Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12; |
| **Subsection:**<br>**Revision:** | 112.03.12 Project Traffic Coordinator (PTC).<br>Replace the last paragraph of this subsection with the following:<br>Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses. |

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| **Subsection:**<br>**Revision:** | 112.04.18 Diversions (By-Pass Detours).<br>Insert the following sentence after the 2nd sentence of this subsection.<br>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. |
| **Subsection:**<br>**Revision:** | 201.03.01 Contractor Staking.<br>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. |
| **Subsection:**<br>**Revision:** | 201.04.01 Contractor Staking.<br>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. |
| **Subsection:**<br>**Revision:** | 206.04.01 Embankment-in-Place.<br>Replace the fourth paragraph with the following: The Department will not measure **suitable** excavation included in the original plans that is disposed of for payment and will consider it incidental to Embankment-in-Place. |
| **Subsection:**<br>**Revision:** | 208.02.01 Cement.<br>Replace paragraph with the following:<br>Select Type I or Type II cement conforming to Section 801. Use the same type cement throughout the work. |
| **Subsection:**<br>**Revision:** | 208.03.06 Curing and Protection.<br>Replace the fourth paragraph with the following:<br>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 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. |
| **Subsection:**<br>**Revision:** | 208.03.06 Curing and Protection.<br>Replace paragraph eight with the following:<br>At no expense to the Department, repair any damage to the subgrade caused by freezing. |

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| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | A) Seed Mixtures for Permanent Seeding. |
| **Revision:** | Revise **Seed Mix Type I** to the mixture shown below:<br>50% Kentucky 31 Tall Fescue (Festuca arundinacea)<br>35% Hard Fescue (Festuca (Festuca longifolia)<br>10% Ryegrass, Perennial (Lolium perenne)<br>5% White Dutch Clover (Trifolium repens) |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | A) Seed Mixtures for Permanent Seeding. |
| **Number:** | 2) |
| **Revision:** | Replace the paragraph with the following:<br>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. |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | A) Seed Mixtures for Permanent Seeding. |
| **Number:** | 3) |
| **Revision:** | Replace the paragraph with the following:<br>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. |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | B) Procedures for Permanent Seeding. |
| **Revision:** | Delete the first sentence of the section. |
| **Subsection:** | 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:<br>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. |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | D) Top Dressing. |
| **Revision:** | Change the title of part to D) Fertilizer. |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | D) Fertilizer. |
| **Revision:** | Replace the first paragraph with the following:<br>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 an excessive application of fertilizer at no cost to the Department. |
| **Subsection:** | 212.03.03 Permanent Seeding and Protection. |
| **Part:** | D) Fertilizer. |
| **Revision:** | Delete the second paragraph. |

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| **Subsection:** | 212.04.04 Agricultural Limestone. |
| **Revision:** | Replace the entire section with the following:<br>The Department will measure the quantity of agricultural limestone in tons. |
| **Subsection:** | 212.04.05 Fertilizer. |
| **Revision:** | Replace the entire section with the following:<br>The Department will measure fertilizer used in the seeding or sodding operations for payment. The Department will measure the quantity by tons. |
| **Subsection:** | 212.05 PAYMENT. |
| **Revision:** | Delete the following item code:<br>Code — Pay Item — Pay Unit<br>05966 — Topdressing Fertilizer — Ton |
| **Subsection:** | 212.05 PAYMENT. |
| **Revision:** | Add the following pay items:<br>Code — Pay Item — Pay Unit<br>05963 — Initial Fertilizer — Ton<br>05964 — 20-10-10 Fertilizer — Ton<br>05992 — Agricultural Limestone — Ton |
| **Subsection:** | 213.03.02 Progress Requirements. |
| **Revision:** | Replace the third paragraph with the following:<br>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 damages rate until all aspects of the work have been completed. |
| **Subsection:** | 213.03.05 Temporary Control Measures. |
| **Part:** | E) Temporary Seeding and Protection. |
| **Revision:** | Delete the second sentence of the first paragraph. |
| **Subsection:** | 304.02.01 Physical Properties. |
| **Table:** | Required Geogrid Properties |
| **Revision:** | Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737. |
| **Subsection:** | 402.03.02 Contractor Quality Control and Department Acceptance. |
| **Part:** | B) Sampling. |
| **Revision:** | Replace the second sentence with the following:<br>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. |

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| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 402.03.02 Contractor Quality Control and Department Acceptance.<br>D) Testing Responsibilities.<br>3) VMA.<br>Add the following paragraph below Number 3) VMA:<br>Retain the AV/VMA specimens and one additional corresponding $G_{mm}$ 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:**<br>**Part:**<br>**Number:**<br>**Revision:** | 402.03.02 Contractor Quality Control and Department Acceptance.<br>D) Testing Responsibilities.<br>4) Density.<br>Replace the second sentence of the Option A paragraph with the following:<br>Perform coring by the end of the following work day. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 402.03.02 Contractor Quality Control and Department Acceptance.<br>D) Testing Responsibilities.<br>5) Gradation.<br>Delete the second paragraph. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 402.03.02 Contractor Quality Control and Department Acceptance.<br>H) Unsatisfactory Work.<br>1) Based on Lab Data.<br>Replace the second paragraph with the following:<br>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. |
| **Subsection:**<br>**Revision:** | 402.03.03 Verification.<br>Replace the first paragraph with the following:<br>**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:**<br>**Part:**<br>**Revision:** | 402.03.03 Verification.<br>A) Evaluation of Sublot(s) Verified by Department.<br>Replace the third sentence of the second paragraph with the following:<br>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. |

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| **Subsection:**<br>**Part:**<br>**Revision:** | 402.03.03 Verification.<br>B) Evaluation of Sublots Not Verified by Department.<br>Replace the third sentence of the first paragraph with the following:<br>When differences between test results are not within the tolerances listed below, the Department will resolve the discrepancy according to Subsection 402.03.05. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 402.03.03 Verification.<br>B) Evaluation of Sublots Not Verified by Department.<br>Replace the third sentence of the second paragraph with the following:<br>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. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 402.03.03 Verification.<br>C) Test Data Patterns.<br>Replace the second sentence with the following:<br>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. |
| **Subsection:**<br>**Revision:** | 402.03 CONSTRUCTION.<br>Add the following subsection: **402.03.04 Testing Equipment and Technician Verification.**<br>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 ± 2.0 percent, the Department will investigate and resolve the discrepancy according to Subsection 402.03.05. |
| **Subsection:**<br>**Revision:** | 402.03.04 Dispute Resolution.<br>Change the subsection number to 402.03.05. |
| **Subsection:**<br>**Part:**<br>**Table:**<br>**Revision:** | 402.05 PAYMENT.<br>Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures<br>AC<br>Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ±0.6. |
| **Subsection:**<br>**Revision:** | 403.01 Description.<br>Replace the sentence three and four of the first paragraph with the following:<br>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 Control concerns arising during work performed under section 403. |
| **Subsection:**<br>**Revision:** | 403.02.10 Material Transfer Vehicle (MTV).<br>Replace the first sentence with the following:<br>In addition to the equipment specified above, provide a MTV with the following minimum characteristics: |

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| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 403.03.03 Preparation of Mixture<br>C) Mix Design Criteria<br>2)<br>Revise part 2) to read as follows: Selection of Optimum AC. Normally, the Department will 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 mixtures. |
| **Subsection:**<br>**Revision:** | 412.02.09 Material Transfer Vehicle (MTV).<br>Replace the paragraph with the following:<br>Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10. |
| **Subsection:**<br>**Revision:** | 412.03.07 Placement and Compaction.<br>Replace the first paragraph with the following:<br>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 for that portion of pavement by a letter documenting the waiver. |
| **Subsection:**<br>**Revision:** | 412.04 MEASUREMENT.<br>Add the following subsection:<br>412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for payment and will consider its use incidental to the asphalt mixture. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 501.03.19 Surface Tolerances and Testing Surface.<br>B) Ride Quality.<br>Add the following to the end of the first paragraph:<br>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. |
| **Subsection:**<br>**Revision:** | 501.03.05 Weather Limitations and Protection.<br>Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20. |
| **Subsection:**<br>**Revision:** | 601.02.02 Cement<br>Replace the third sentence with the following: The Department will allow the use of Type IP(≤20), Type IS(≤30), Type IL, Type II, and Type III when the Engineer approves. |
| **Subsection:**<br>**Revision:** | 601.02.02 Cement<br>Replace the fifth sentence with the following: If unsatisfactory test results are obtained using Type IP(≤20), Type IS(≤30), Type IL, Type II, or Type III cement complete the work using Type I cement. |

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**Subsection:** 601.03.02 Concrete Producer Responsibilities.
**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 the data on the ticket is correct and that the mixture conforms to the approved mix design. Ensure that the plant manager or a Level II concrete technician signs the ticket. The 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: | | SiteManager Sample Id: | |
| Qty(Yds$^3$): | Time Loaded (Non Agitated Concrete Only): | | | |
| Begin Mixing Time: _____ AM ____ PM ____ REV _____ | | | | |
| Set Retarder Used | | Yes ___ | Type____ | No____ |
| Water Reducer Used | | Yes ___ | Type____ | No____ |
| Water Underrun _____ Gal/Yd$^3$ _____ Total Gallons | | | | |
| Design W/C: | Actual W/C: | Slump (inches) | | |
| ***Batch Weight Information:*** | | | | |
| Material: | Description: | Design Qty: | Required: | Batched: |
| | | | | |
| | | | | |
| Remarks: | | | | |
| | | | | |

| %Var: | %Moisture: | Actual: |
|---|---|---|
| | | |
| | | |

*The data on this ticket is correct for the approved concrete mix design.*

Signature: _____ Date: _____
KRMCA Level II Technician or Plant Manager

**Subsection:** 601.03.03 Proportioning and Requirements
**Part:** A) Concrete
**Revision:** Revise Table for INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS CLASSES OF CONCRETE as follows: Replace "M1 w/ Type 1 cement" with "M1 w/ Type 1 or blended hydraulic cement"

**Subsection:** 601.03.03 Proportioning and Requirements
**Part:** C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
**Revision:** Revise part C) header to read as follows: Mixtures Using Type IP(≤20), IS(≤30), and IL Cement and Mineral Admixtures.

**Subsection:** 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 Proportioning and Requirements
**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 micosilica in concrete is the Contractor's option.

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| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 601.03.03 Proportioning and Requirements<br>C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures<br>2)<br>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). |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Part:**<br>**Revision:** | 601.03.03 Proportioning and Requirements<br>C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures<br>2)<br>b)<br>Revise first sentence to read as follows: Blast Furnace Slag Cement |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Part:**<br>**Revision:** | 601.03.03 Proportioning and Requirements<br>C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures<br>2)<br>b)<br>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(≤30) cement. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Part:**<br>**Revision:** | 601.03.03 Proportioning and Requirements<br>C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures<br>2)<br>b)<br>In part b), replace all references to "GGBF slag" with "blast furnace slag cement". |
| **Subsection:**<br>**Part:**<br>**Revision:** | 601.03.04 Classes and Primary Uses<br>H) Class M1<br>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) |
| **Subsection:**<br>**Revision:** | 603.03.06 Cofferdams.<br>Replace the seventh sentence of paragraph one with the following:<br>Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. |
| **Subsection:**<br>**Revision:** | 605.03.04 Tack Welding.<br>Insert the subsection and the following:<br>605.03.04 Tack Welding. The Department does not allow tack welding. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 606.03.17 Special Requirements for Latex Concrete Overlays.<br>A) Existing Bridges and New Structures.<br>1) Prewetting and Grout-Bond Coat.<br>Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge decks prepared by hydrodemolition. |
| **Subsection:**<br>**Revision:** | 609.03 Construction.<br>Replace Subsection 609.03.01 with the following:<br>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.<br>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. |

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| **Subsection:**<br>**Revision:** | 611.03.02 Precast Unit Construction.<br>Replace the first sentence of the subsection with the following:<br>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: |
| **Subsection:**<br>**Number:**<br>**Revision:** | 613.03.01 Design.<br>2)<br>Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD Bridge Design Specifications" |
| **Subsection:**<br>**Revision:** | 615.06.02<br>Add the following sentence to the end of the subsection.<br>The ends of units shall be normal to walls and centerline except exposed edges shall be beveled ¾ inch. |
| **Subsection:**<br>**Revision:** | 615.06.03 Placement of Reinforcement in Precast 3-Sided Units.<br>Replace the reference of 6.6 in the section to 615.06.06. |
| **Subsection:**<br>**Revision:** | 615.06.04 Placement of Reinforcement for Precast Endwalls.<br>Replace the reference of 6.7 in the section to 615.06.07. |
| **Subsection:**<br>**Revision:** | 615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.<br>Replace the subsection with the following:<br>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. |
| **Subsection:**<br>**Revision:** | 615.06.07 Laps, Welds, and Spacing for Precast Endwalls.<br>Replace the subsection with the following:<br>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. |

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| **Subsection:**<br>**Revision:** | 615.08.01 Type of Test Specimen.<br>Replace the subsection with the following:<br>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 $yd^3$ (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. |
| **Subsection:**<br>**Revision:** | 615.08.02 Compression Testing.<br>Delete the second sentence. |
| **Subsection:**<br>**Revision:** | 615.08.04 Acceptability of Core Tests.<br>Delete the entire subsection. |
| **Subsection:**<br>**Revision:** | 615.12 Inspection.<br>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. |
| **Subsection:**<br>**Revision:** | 701.04.16 Deduction for Pipe Deflection.<br>Insert the following at the end of the paragraph:<br>The section length is determined by the length of the pipe between joints where the failure occurred. |
| **Subsection:**<br>**Revision:** | 716.02.02 Paint.<br>Replace sentence with the following: Conform to Section 821. |
| **Subsection:**<br>**Revision:** | 716.03 CONSTRUCTION.<br>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:**<br>**Revision:** | 716.03.02 Lighting Standard Installation.<br>Replace the paragraph with the following:<br>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:**<br>**Part:**<br>**Revision:** | 716.03.02 Lighting Standard Installation.<br>A) Conventional Installation.<br>Replace the third sentence with the following: Orient the transformer base so the door is positioned on the side away from on-coming traffic. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 716.03.02 Lighting Standard Installation.<br>A) Conventional Installation.<br>1) Breakaway Installation and Requirements.<br>Replace the first sentence 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. |

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**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 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Level Ground | | 3:1 Ground Slope | | 2:1 Ground Slope | | 1.5:1 Ground Slope (2) | |
| 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 | | | |
|---|---|---|---|
| Vertical Bars | | Ties or Spiral | |
| Size | Total | Size | Spacing or Pitch |
| #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.

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| **Subsection:**<br>**Part:**<br>**Revision:** | 716.03.03 Trenching.<br>A) Trenching of Conduit for Highmast Ducted Cables.<br>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. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 716.03.03 Trenching.<br>B) Trenching of Conduit for Non-Highmast Cables.<br>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. |
| **Subsection:**<br>**Revision:** | 716.03.04 Conduit Installation.<br>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. |
| **Subsection:**<br>**Part:**<br>**Number:**<br>**Revision:** | 716.03.04 Conduit Installation.<br>A) Conduit Requirements in Junction Boxes.<br>1) Highmast Ducted Cable.<br>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. |
| **Subsection:**<br>**Revision:** | 716.03.04 Conduit Installation.<br>Add the following to the Part to the Subsection: **G) Bore and Jack.** Construction methods shall be in accordance with Subsections 706.03.02, paragraphs 1, 2 and 4. |
| **Subsection:**<br>**Revision:** | 716.03.08 Splicing.<br>Replace the last sentence of the paragraph with the following: Ensure the splices are of the correct size for the wire being used. |
| **Subsection:**<br>**Revision:** | 716.03.10 Junction Boxes.<br>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. |
| **Subsection:**<br>**Revision:** | 716.03.13 Temporary Lighting.<br>Change subsection heading to the following: **716.03.13 Temporary/Maintain Lighting.** |
| **Subsection:**<br>**Revision:** | 716.03.13 Temporary /Maintain Lighting.<br>Replace the entire section with the following:<br>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.<br><br>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. |

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| **Subsection:** 716.03.14 Remove Lighting.<br>**Revision:**<br><br>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. | |
| **Subsection:** 716.03.15 Painting.<br>**Revision:**<br><br>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. | |
| **Subsection:** 716.04.01. Poles.<br>**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. | |
| **Subsection:** 716.04.02 High Mast Pole.<br>**Revision:**<br><br>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. | |
| **Subsection:** 716.04.03 Bracket.<br>**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. | |
| **Subsection:** 716.04.04 Pole Base.<br>**Revision:** Change the subsection heading to 716.04.04 Pole Bases and delete the paragraph. | |
| **Subsection:** 716.04.04 Pole Bases.<br>**Revision:** Insert the following:<br>**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.<br>**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. | |

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| **Subsection:**<br>**Revision:** | 716.04.05 Pole Base in Median Wall.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.06 Transformer Base.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.07 Pole with Secondary Equipment.<br>Replace the heading with the following: 716.04.07 Pole with Secondary Control Equipment. |
| **Subsection:**<br>**Revision:** | 716.04.07 Pole with Secondary Control Equipment.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.08 Lighting Control Equipment.<br>Replace the paragraph with the following:<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.09 Luminaire.<br>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:**<br>**Revision:** | 716.04.10 Fused Connector Kits.<br>Replace the heading with the following: 716.04.10 Fuse Connector Kits. |

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| **Subsection:**<br>**Revision:** | 716.04.10 Fuse Connector Kits.<br>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:**<br>**Revision:** | 716.04.11 Conduit.<br>Replace the second sentence with the following: The Department will not measure installation 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. |
| **Subsection:**<br>**Revision:** | 716.04.12 Markers.<br>Replace the section with the following: The Department will measure the quantity as each individual unit furnished and installed. |
| **Subsection:**<br>**Revision:** | 716.04.13 Junction Box.<br>Replace the subsection title with the following: Electrical Junction Box Type Various. |
| **Subsection:**<br>**Revision:** | 716.04.13 Electrical Junction Box Type Various.<br>Replace the section 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, #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. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 716.04.13 Junction Box.<br>A) Junction Electrical.<br>Delete Part A. |
| **Subsection:**<br>**Revision:** | 716.04.14 Trenching and Backfilling.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.15 Wire or Cable.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.16 Ducted Cable.<br>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. |
| **Subsection:**<br>**Revision:** | 716.04.17 Temporary Lighting<br>Rename the subsection as follows: 716.04.17 Temporary Lighting/Maintain Lighting. |

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**Subsection:** 716.04.17 Temporary Lighting/Maintain Lighting.
**Revision:** Delete the paragraph and add the following parts:
A) Temporary Lighting. The Department will measure the quantity by lump sum. The Department will not measure poles, luminaires, wire, conduit, trenching and backfilling, control equipment, all relocations and removal, design (if required), and any other necessary hardware to make a complete installation for payment and will consider them incidental to this item of work.
B) Maintain Lighting. The Department will measure the quantity by lump sum. The Department will not measure maintenance of lighting elements and design (if required) for payment and will consider them incidental to this item of work.

**Subsection:** 716.04.18 Remove Lighting.
**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 lighting 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:** 716.04.19 Remove Pole Base.
**Revision:** Delete Subsection.
**Subsection:** 716.04.20 Bore and Jack Conduit.
**Revision:** Renumber Subsection to 716.04.19 Bore and Jack Conduit.

**Subsection:** 716.04.19 Bore and Jack Conduit.
**Revision:** 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.

**Subsection:** 716.05 PAYMENT.
**Revision:** Revise the following under Code, Pay Item, and Pay Unit with the following:

| Code | 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 |
| ~~04941~~ | ~~Remove Pole Base~~ | ~~Each~~ |

**Subsection:** 723.02.02 Paint.
**Revision:** Replace sentence with the following: Conform to Section 821.

**Subsection:** 723.03 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:** 723.03.02 Poles and Bases Installation.
**Revision:** Replace the title with the following: 723.03.02 Pole and Base Installation.

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| **Subsection:**<br>**Revision:** | 723.03.02 Pole and Base Installation.<br>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. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.02 Poles and Bases Installation.<br>A) Steel Strain and Mastarm Poles Installation<br>Replace the title of Part A) Steel Strain and Mast Arm Pole Installation. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.02 Pole and Base Installation.<br>A) Steel Strain and Mast Arm Pole Installation.<br>Insert the following sentence at the beginning of the first paragraph: Install pole bases 4 to 6 inches above grade. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.02 Pole and Base Installation.<br>A) Steel Strain and Mast Arm Pole Installation.<br>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: |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.02 Pole and Base Installation.<br>B) Pedestal or Pedestal Post Installation.<br>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. |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.02 Poles and Bases Installation.<br>B) Pedestal or Pedestal Post Installation.<br>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. |
| **Subsection:**<br>**Revision:** | 723.03.03 Trenching.<br>Replace the first sentence with the following: See Subsection 716.03.03 (B). |
| **Subsection:**<br>**Part:**<br>**Revision:** | 723.03.03 Trenching.<br>A) Under Roadway.<br>Delete Part A) Under Roadway. |
| **Subsection:**<br>**Revision:** | 723.03.05 Conduit Requirements in Junction Boxes.<br>Delete the Subsection and replace with the following:<br>723.03.05 Fuse Connector Kits. See Subsection 716.03.09. |
| **Subsection:**<br>**Revision:** | 723.03.06 Coupling Installation.<br>Delete the Subsection and replace with the following:<br>723.03.06 Painting. See Subsection 716.03.15. |
| **Subsection:**<br>**Revision:** | 723.03.07 Bonding Requirements.<br>Delete the Subsection and replace with the following:<br>723.03.07 Electrical Junction Boxes. See Subsection 716.03.10. |

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| **Subsection:** | 723.03.08 Painting. |
| **Revision:** | Replace with 723.03.06 Painting. See Subsection 716.03.15. |
| **Subsection:** | 723.03.09 Underground Warning Tape. |
| **Revision:** | Renumber Subsection to 723.03.08 Underground Warning Tape. |
| **Subsection:** | 723.03.10 Backfilling and Disturbed Areas. |
| **Revision:** | Renumber Subsection to 723.03.09 Backfilling and Disturbed Areas. |
| **Subsection:** | 723.03.11 Wiring Installation. |
| **Revision:** | Renumber Subsection to 723.03.10 Wiring Installation. |
| **Subsection:** | 723.03.10 Wiring Installation. |
| **Revision:** | Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes. |
| **Subsection:** | 723.03.12 Loop Installation. |
| **Revision:** | Renumber Subsection to 723.03.11 Loop Installation. |
| **Subsection:** | 723.03.11 Loop Installation. |
| **Revision:** | Replace the fourth sentence of the 2nd paragraph with the following: Provide an extra two feet of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes. |
| **Subsection:** | 723.03.13 Grounding Installation. |
| **Revision:** | Renumber Subsection to 723.03.12 Grounding Installation. |
| **Subsection:** | 723.03.12 Grounding Installation. |
| **Revision:** | Replace the reference to "Standard Detail Sheets" in the first sentence with "Plans". |
| **Subsection:** | 723.03.14 Splicing. |
| **Revision:** | Renumber Subsection to 723.03.13 Splicing. |
| **Subsection:** | 723.03.13 Splicing. |
| **Revision:** | Delete the reference to (IMSA 19-2) from the 5th sentence of the paragraph. |
| **Subsection:** | 723.03.15 Painting. |
| **Revision:** | Delete Subsection. |
| **Subsection:** | 723.03.14 Splicing. |
| **Revision:** | Replace with new Subsection 723.03.14 Remove Signal Equipment. |
| **Subsection:** | 723.03.14 Remove Signal Equipment. |
| **Revision:** | Insert the following for the new subsection: Remove all traffic signal equipment that is identified by the Engineer as no longer necessary including, but not limited to, the following: pole bases, poles, junction boxes, cabinets, wood poles, and advance warning flashers. 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. Contact the district traffic Engineer to determine if any removed signal equipment needs to be returned to the district and to determine the location/time for such deliveries. |
| **Subsection:** | 723.05.16 Drawings. |
| **Revision:** | Renumber the Subsection to 723.03.15 Drawings. |

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| **Subsection:**<br>**Revision:** | 723.03.15 Drawings.<br>Replace Subsection with the following: Before final inspection of the traffic control device, 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. |
| **Subsection:**<br>**Revision:** | 723.03.17 Acceptance and Inspection Requirements.<br>Renumber Subsection to 723.03.16 Acceptance and Inspection Requirements. |
| **Subsection:**<br>**Revision:** | 723.03.16 Acceptance and Inspection Requirements.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.01 Conduit.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.02 Junction Box.<br>Replace subsection title with the following: Electrical Junction Box Type Various. |
| **Subsection:**<br>**Revision:** | 723.04.02 Electrical Junction Box Type Various.<br>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 payment and will consider them incidental to this item of work. |
| **Subsection:**<br>**Revision:** | 723.04.03 Trenching and Backfilling.<br>Replace the second sentence with the following: The Department will not measure excavation, 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. |
| **Subsection:**<br>**Revision:** | 723.04.04 Open Cut Roadway.<br>Replace the second sentence of the subsection with the following: The Department will not measure concrete, reinforcing steel, and asphalt for payment and will consider them incidental to this item of work. |
| **Subsection:**<br>**Revision:** | 723.04.05 Loop Wire.<br>Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other necessary hardware for payment and will consider them incidental to this item of work. |
| **Subsection:**<br>**Revision:** | 723.04.06 Cable.<br>Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other hardware for payment and will consider them incidental to this item of work. |

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| **Subsection:**<br>**Revision:** | 723.04.07 Pole-Wooden.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.08 Steel Strain Pole.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.09 Mast Arm Pole.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.10 Signal Pedestal.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.11 Post.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.12 Anchor.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.13 Messenger.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.14 Install Signal LED.<br>Revise subsection title to 723.04.14 Install Beacon Controller - 2 Circuit. |
| **Subsection:**<br>**Revision:** | 723.04.14 Install Beacon Controller - 2 Circuit.<br>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. |

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| **Subsection:** | 723.04.15 Loop Saw Slot and Fill. |
| **Revision:** | Replace the second sentence of the subsection with the following: The Department will not 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. |
| **Subsection:** | 723.04.16 Pedestrian Detector. |
| **Revision:** | 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. |
| **Subsection:** | 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. |
| **Subsection:** | 723.04.18 Signal Controller- Type 170. |
| **Revision:** | 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. |
| **Subsection:** | 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. |
| **Subsection:** | 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. |
| **Subsection:** | 723.04.21 Install Steel Strain Pole. |
| **Revision:** | Replace the second sentence of the subsection with the following: The Department will not measure any necessary clamp assemblies for payment and will consider them incidental to this item of work. |

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| **Subsection:**<br>**Revision:** | 723.04.22 Remove Signal Equipment.<br>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:**<br>**Revision:** | 723.04.23 Install Span/Pole Mounted Sign.<br>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:**<br>**Revision:** | 723.04.24 Install Pedestrian Head LED.<br>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:**<br>**Revision:** | 723.04.25 Install Signal LED.<br>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:**<br>**Revision:** | 723.04.26 Install Coordinating Unit.<br>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:**<br>**Revision:** | 723.04.27 Video Camera.<br>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:**<br>**Revision:** | 723.04.28 Install Pedestrian Detector Audible.<br>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:**<br>**Revision:** | 723.04.29 Audible Pedestrian Detector.<br>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:**<br>**Revision:** | 723.04.30 Bore and Jack Conduit.<br>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. |

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| **Subsection:**<br>**Revision:** | 723.04.31 Install Pedestrian Detector.<br>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:**<br>**Revision:** | 723.04.32 Install Mast Arm Pole.<br>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:**<br>**Revision:** | 723.04.33 Pedestal Post.<br>Replace the second sentence with the following: The Department will not measure excavation, 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. |
| **Subsection:**<br>**Revision:** | 723.04.34 Span Mounted Sign.<br>Revise subsection title to 723.04.34 Span/Pole-Mounted Sign. |
| **Subsection:**<br>**Revision:** | 723.04.34 Span/Pole-Mounted Sign.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.35 Remove and Reinstall Coordinating Unit.<br>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. |
| **Subsection:**<br>**Revision:** | 723.04.36 Traffic Signal Pole Base.<br>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:**<br>**Revision:** | 723.04.37 Install Signal Pedestal.<br>Replace the second sentence of the subsection with the following: . The Department will not 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. |
| **Subsection:**<br>**Revision:** | 723.04.38 Install Pedestal Post.<br>Replace the second sentence of the subsection with the following: The Department will not 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. |
| **Subsection:**<br>**Revision:** | 723.04.39 Install Antenna.<br>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. |

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| **Subsection:**<br>**Revision:** | 723.05 PAYMENT.<br>Replace items 04810-04811, 20391NS835, 20392NS835,23052NN and add item number 24526ED under Code, Pay Item, and Pay Unit with the following:<br><br>Code — Pay Item — Pay Unit<br>04810 — Electrical Junction Box — Each<br>04811 — Electrical Junction Box Type B — Each<br>20391NS835 — Electrical Junction Box Type A — Each<br>20392NS835 — Electrical Junction Box Type C — Each<br>23052NN — Span/Pole-Mounted Sign — Each<br>24526ED — Install Beacon Controller 2 Cir — Each |
| **Subsection:**<br>**Revision:** | 801.01 REQUIREMENTS<br>Replace first sentence in paragraph one with the following: Provide Portland cement *or blended hydraulic cement* from approved mills listed in the Department's List of Approved Materials. |
| **Subsection:**<br>**Number:**<br>**Revision:** | 801.01 REQUIREMENTS<br>1)<br>Replace first sentence with the following: Type I, II, III, and IV *Portland cement* conforms to ASTM C 150. |
| **Subsection:**<br>**Number:**<br>**Revision:** | 801.01 REQUIREMENTS<br>3)<br>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). |
| **Subsection:**<br>**Number:**<br>**Part:**<br>**Revision:** | 801.01 REQUIREMENTS<br>3)<br>b)<br>Delete part b) |
| **Subsection:**<br>**Number:**<br>**Part:**<br>**Revision:** | 801.01 REQUIREMENTS<br>3)<br>c)<br>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 in the manufacture of the Type IP(≤20) cement shipped to the project. |
| **Subsection**<br>**Number:**<br>**Part:**<br>**Revision:** | 801.01 REQUIREMENTS<br>3)<br>d)<br>Rename Part d) to Part c) |
| **Subsection:**<br>**Number:**<br>**Part:**<br>**Revision:** | 801.01 REQUIREMENTS<br>3)<br>e)<br>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. |
| **Subsection:**<br>**Number:**<br>**Revision:** | 801.01 REQUIREMENTS<br>4)<br>Replace first sentence with the following: Type IS(≤30), Portland blast furnace slag cement, conforms to ASTM C 595 and the following requirements: |

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| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 4) |
| **Part:** | a) |
| **Revision:** | Replace part a) with the following: Use Grade 100 or 120 blast furnace slag cement conforming to the requirements of ASTM C 989. |
| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 4) |
| **Part:** | b) |
| **Revision:** | Delete part b) |
| **Subsection:** | 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. |
| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 4) |
| **Part:** | d) |
| **Revision:** | Rename Part d) to Part c) |
| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 4) |
| **Part:** | e) |
| **Revision:** | 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. |
| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 5) |
| **Revision:** | Insert part 5) as the following: Type IL(5-15), Portland-limestone cement, conforms to ASTM C 595 and the following additional requirements: |
| **Subsection:** | 801.01 REQUIREMENTS |
| **Number:** | 5) |
| **Part:** | a) |
| **Revision:** | 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, unless the Engineer approves a brand change in writing. |
| **Subsection:** | 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 blend produced by intergrinding of the Portland cement and limestone. |
| **Subsection:** | 804.01.02 Crushed Sand. |
| **Revision:** | Delete last sentence of the section. |

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**Subsection:** 804.01.06 Slag.
**Revision:** Add subsection and following sentence.
Provide blast furnace slag sand where permitted. The Department will allow steel slag sand only in asphalt surface applications.

**Subsection:** 804.04 Asphalt Mixtures.
**Revision:** 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.

**Subsection:** 806.03.01 General Requirements.
**Revision:** 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.

**Subsection:** 806.03.01 General Requirements.
**Table:** PG Binder Requirements and Price Adjustment Schedule
**Revision:** 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[1] |
|---|---|---|---|---|---|---|
| MSCR recovery, % [3] (AASHTO TP 70) | 60 Min. | ≥58 | 56 | 55 | 54 | <53 |

**Subsection:** 806.03.01 General Requirements.
**Table:** PG Binder Requirements and Price Adjustment Schedule
**Superscript:** (3)
**Revision:** 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 membrane. The layers will consist of an internal puncture resistant woven polypropylene fabric 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.

**Subsection:** 808.09 Acceptance.
**Revision:** Replace the reference to "KMIMS" in the second paragraph with SiteManager.

**Subsection:** 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 are capable of being bent to 180 degrees (after rebound) over a mandrel, without any visible evidence of cracking the coating.

**Subsection:** 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.
**Revision:** Delete first paragraph and "Hardness Number" Table. Replace with the following:
A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as applicable.

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| **Subsection:**<br>**Revision:** | 814.04.02 Timber Guardrail Posts.<br>Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1". |
| **Subsection:**<br>**Revision:** | 814.04.02 Timber Guardrail Posts.<br>Replace the first sentence of the fourth paragraph with the following:<br>Use any of the species of wood for round or square posts covered under AWPA U1. |
| **Subsection:**<br>**Revision:** | 814.04.02 Timber Guardrail Posts.<br>Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B, Paragraph 4.1". |
| **Subsection:**<br>**Revision:** | 814.04.02 Timber Guardrail Posts.<br>Delete the second sentence of the fourth paragraph. |
| **Subsection:**<br>**Revision:** | 814.05.02 Composite Plastic.<br>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.<br>2) Delete the last paragraph of the subsection. |
| **Subsection:**<br>**Revision:** | 816.07.02 Wood Posts and Braces.<br>First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph 4.1". |
| **Subsection:**<br>**Revision:** | 816.07.02 Wood Posts and Braces.<br>Delete the second sentence of the first paragraph. |
| **Subsection:**<br>**Revision:** | 818.07 Preservative Treatment.<br>First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A". |
| **Subsection:**<br>**Revision:** | 833.01.02 Sheeting Signs.<br>Replace the second sentence with the following: Provide a thickness of 125 mils if any single edge dimension of the sign exceeds 3 feet. |
| **Subsection:**<br>**Revision:** | 834.14 Lighting Poles.<br>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**<br>**Revision:** | 834.14.03 High Mast Poles.<br>Remove the second and fourth sentence from the first paragraph. |
| **Subsection**<br>**Revision:** | 834.14.03 High Mast Poles.<br>Replace the third paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. |

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| **Subsection:**<br>**Revision:** | 834.14.03 High Mast Poles.<br>Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 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. 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.<br><br>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:**<br>**Revision:** | 834.16 ANCHOR BOLTS.<br>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:**<br>**Revision:** | 834.17.01 Conventional.<br>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:**<br>**Revision:** | 834.21.01 Waterproof Enclosures.<br>Replace the last five sentences in the second paragraph with the following sentences:<br>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. |

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| **Subsection:** | 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. |
| **Subsection:** | 835.07 Traffic Poles. |
| **Revision:** | *Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates have a thickness ≥ 2 inches.<br>*Add the following sentence to the end of the fourth paragraph: The bottom pole diameter shall not be less than 16.25 inches. |
| **Subsection:** | 835.07 Traffic Poles. |
| **Revision:** | 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 anchor bolt regardless of the actual anchor bolt orientation with the pole. |
| **Subsection:** | 835.07 Traffic Poles. |
| **Revision:** | Replace the first and second sentence of the sixth paragraph with the following:<br>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:** | 835.07 Traffic Poles. |
| **Revision:** | *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.<br>*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:** | 835.07.01 Steel Strain Poles. |
| **Revision:** | Replace the second sentence of the second paragraph with the following:<br>The detailed analysis shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky. |
| **Subsection:** | 835.07.01 Steel Strain Poles. |
| **Revision:** | 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:** | 835.07.02 Mast Arm Poles. |
| **Revision:** | 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. |

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**Subsection:** 835.07.02 Mast Arm Poles.
**Revision:** Replace number 7) after the fourth 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:** 835.07.03 Anchor Bolts.
**Revision:** Add the following to the end of the paragraph: There shall be two steel templates (one can be used for the headed part of the anchor bolt when designed in this manner) provided per pole. Templates shall be contained within a 26.5 inch diameter. All templates shall be fully galvanized (ASTM A 153).

**Subsection:** 835.16.05 Optical Units.
**Revision:** Replace the 3rd paragraph with the following:
The list of certified products can be found on the following website: http://www.intertek.com.

**Subsection:** 835.19.01 Pedestrian Detector Body.
**Revision:** Replace the first sentence with the following: Provide a four holed pole mounted aluminum rectangular housing that is compatible with the pedestrian detector.

**Subsection:** 843.01.01 Geotextile Fabric.
**Table:** TYPE I FABRIC GEOTEXTILES FOR SLOPE PROTECTION AND CHANNEL LINING
**Revision:** Add the following to the chart:

| Property | Minimum Value(1) | Test Method |
|---|---|---|
| CBR Puncture (lbs) | 494 | ASTM D6241 |
| Permittivity (1/s) | 0.7 | ASTM D4491 |

**Subsection:** 843.01.01 Geotextile Fabric.
**Table:** TYPE II FABRIC GEOTEXTILES FOR UNDERDRAINS
**Revision:** Add the following to the chart:

| Property | Minimum Value(1) | Test Method |
|---|---|---|
| CBR Puncture (lbs) | 210 | ASTM D6241 |
| Permittivity (1/s) | 0.5 | ASTM D4491 |

**Subsection:** 843.01.01 Geotextile Fabric.
**Table:** TYPE III FABRIC GEOTEXTILES FOR SUBGRADE OR EMBANKMENT STABILIZATION
**Revision:** Add the following to the chart:

| Property | Minimum Value(1) | Test Method |
|---|---|---|
| CBR Puncture (lbs) | 370 | ASTM D6241 |
| Permittivity (1/s) | 0.05 | ASTM D4491 |

**Subsection:** 843.01.01 Geotextile Fabric.
**Table:** TYPE IV FABRIC GEOTEXTILES FOR EMBANKMENT DRAINAGE BLANKETS AND PAVEMENT EDGE DRAINS
**Revision:** Add the following to the chart:

| Property | Minimum Value(1) | Test Method |
|---|---|---|
| CBR Puncture (lbs) | 309 | ASTM D6241 |
| Permittivity (1/s) | 0.5 | ASTM D4491 |

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**Subsection:** 843.01.01 Geotextile Fabric.
**Table:** TYPE V HIGH STRENGTH GEOTEXTILE FABRIC
**Revision:** Make the following changes to the chart:

| Property | Minimum Value[1] | Test Method |
|---|---|---|
| CBR Puncture (lbs) | 618 | ASTM D6241 |
| Apparent Opening Size | U.S. #40[3] | ASTM D4751 |

[3] Maximum average roll value.

# 2016 STANDARD DRAWINGS THAT APPLY

## ROADWAY

### ~ *BARRIERS* ~

ENERGY ABSORPTION DEVICES

CRASH CUSHION TYPE VI-BT ..... RBE-100-10

CONCRETE MEDIAN BARRIERS

DELINEATORS FOR CONCRETE BARRIERS ..... RBM-020-09
CONCRETE BARRIER WALL TYPE 9T (TEMPORARY) ..... RBM-115-10

## TRAFFIC

### ~ TEMPORARY ~

TRAFFIC CONTROL

LANE CLOSURE TWO-LANE HIGHWAY ..... TTC-100-04
LANE CLOSURE USING TRAFFIC SIGNALS ..... TTC-110-03
LANE CLOSURE MULTI-LANE HIGHWAY CASE I ..... TTC-115-03
LANE CLOSURE MULTI-LANE HIGHWAY CASE II ..... TTC-120-03

DEVICES

DOUBLE FINES ZONES SIGNS ..... TTD-120-02
PAVEMENT CONDITION WARNING SIGNS ..... TTD-125-02

## BRIDGES

MISCELLANEOUS STANDARDS

BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS ..... BGX-009-04

JOINTS

NEOPRENE EXPANSION DAMS AND ARMORED EDGES ..... BJE-001-13

# PART III

# EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

FHWA-1273 -- Revised May 1, 2012

**REQUIRED CONTRACT PROVISIONS**
**FEDERAL-AID CONSTRUCTION CONTRACTS**

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

## I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

## II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

**III. NONSEGREGATED FACILITIES**

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

**IV. DAVIS-BACON AND RELATED ACT PROVISIONS**

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

**1. Minimum wages**

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

**2. Withholding**

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

**3. Payrolls and basic records**

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee ( e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a “Statement of Compliance,” signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

**4. Apprentices and trainees**

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

## V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** 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 such laborer or mechanic in any workweek in which he or she is employed on such work to work 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 the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages**. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

**VI. SUBLETTING OR ASSIGNING THE CONTRACT**

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

**VII. SAFETY: ACCIDENT PREVENTION**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

**VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

**IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

**X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

**2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

# KENTUCKY TRANSPORTATION CABINET
# DEPARTMENT OF HIGHWAYS

## EMPLOYMENT REQUIREMENTS
## RELATING TO
## NONDISCRIMINATION OF EMPLOYEES
## (APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)

**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.

REVISED: 12-3-92

# Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:

    a. withholding payments to the contractor under the contract until the contractor complies; and/or
    b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

## Standard Title VI/Non-Discrimination Statutes and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq*., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq*.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq*.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq*.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

# 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.

General Decision Number: KY160102 08/26/2016 KY102

Superseded General Decision Number: KY20150102

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.15 for calendar year 2016 applies to all contracts subject to the Davis-Bacon Act for which the solicitation was issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.15 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2016. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

| Modification Number | Publication Date |
|---|---|
| 0 | 01/08/2016 |
| 1 | 02/19/2016 |
| 2 | 03/25/2016 |
| 3 | 04/22/2016 |
| 4 | 05/06/2016 |
| 5 | 05/13/2016 |
| 6 | 06/03/2016 |
| 7 | 07/01/2016 |
| 8 | 08/26/2016 |

BRIN0004-002 06/01/2015

BALLARD, BUTLER, CALDWELL, CARLISLE, CRITTENDEN, DAVIESS, EDMONSON, FULTON, GRAVES, HANCOCK, HENDERSON, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, MCLEAN, MUHLENBERG, OHIO, UNION, and WEBSTER COUNTIES

| | Rates | Fringes |
|---|---|---|
| BRICKLAYER | | |
| Ballard, Caldwell, | | |

Carlisle, Crittenden,
Fulton, Graves, Hickman,
Livingston, Lyon,
Marshall, and McCracken
Counties.....$ 29.52 13.37
Butler, Edmonson, Hopkins,
Muhlenberg, and Ohio
Counties.....$ 25.96 10.64
Daviess, Hancock,
Henderson, McLean, Union,
and Webster Counties.....$ 28.68 13.72

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BRTN0004-005 06/01/2015

ALLEN, CALLOWAY, CHRISTIAN, LOGAN, SIMPSON, TODD, TRIGG, and WARREN COUNTIES

| | Rates | Fringes |
|---|---|---|
| BRICKLAYER | $ 25.96 | 10.64 |

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CARP0357-002 04/01/2016

| | Rates | Fringes |
|---|---|---|
| CARPENTER | $ 27.70 | 17.03 |
| Diver | $ 41.93 | 17.03 |
| PILEDRIVERMAN | $ 27.95 | 17.03 |

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ELEC0369-006 06/01/2016

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 30.56 | 16.10 |

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ELEC0429-001 06/01/2015

ALLEN & SIMPSON COUNTIES:

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 24.84 | 11.90 |

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ELEC0816-002 06/01/2015

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON (Except a 5 mile radius of City Hall in Fulton), GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 31.03 | 25.5%+6.35 |

Cable spicers receive $.25 per hour additional.

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ELEC1701-003 01/01/2015

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO, UNION & WEBSTER COUNTIES:

| | Rates | Fringes |
|---|---|---|
| ELECTRICIAN | $ 30.15 | 14.69 |

Cable spicers receive $.25 per hour additional.

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ELEC1925-002 01/01/2015

FULTON COUNTY (Up to a 5 mile radius of City Hall in Fulton):

| | Rates | Fringes |
|---|---|---|
| CABLE SPLICER | $ 25.00 | 10.27 |
| ELECTRICIAN | $ 24.55 | 11.51 |

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ENGI0181-017 07/01/2015

| | Rates | Fringes |
|---|---|---|
| POWER EQUIPMENT OPERATOR | | |
| GROUP 1 | $ 29.95 | 14.40 |
| GROUP 2 | $ 27.26 | 14.40 |
| GROUP 3 | $ 27.68 | 14.40 |
| GROUP 4 | $ 26.96 | 14.40 |

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller; Batcher Plant; Bituminous Paver; Bituminous Transfer Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All Scoop; Carry Deck Crane; Central Compressor Plant; Cherry Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over); Concrete Paver; Truck-Mounted Concrete Pump; Core Drill; Crane; Crusher Plant; Derrick; Derrick Boat; Ditching & Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor;

Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Conrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points;& Whirley Oiler

GROUP 3 -All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling equals or exceeds 150 ft. - $1.00 above Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10% ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

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IRON0070-005 06/01/2016

BUTLER COUNTY (Eastern eighth, including the Townships of Decker, Lee & Tilford);
EDMONSON COUNTY (Northern three-fourths, including the Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff, Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda, Sunfish & Sweden)

| | Rates | Fringes |
|---|---|---|
| IRONWORKER | | |
| Structural; Ornamental; Reinforcing; Precast Concrete Erectors | $ 27.91 | 21.11 |

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IRON0103-004 08/01/2015

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION & WEBSTER COUNTIES
BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey, Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport, Monford, Morgantown, Provo, Rochester, South Hill & Welchs Creek);
CALDWELL COUNTY (Northeastern third, including the Township of Creswell);
CHRISTIAN COUNTY (Northern third, including the Townships of

Apex, Crofton, Kelly, Mannington & Wynns);
CRITTENDEN COUNTY (Northeastern half, including the Townships of Grove, Mattoon, Repton, Shady Grove & Tribune);
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction, Benton, Brennen, Browder, Central City, Cleaton, Depoy, Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City, Martwick, McNary, Millport, Moorman, Nelson, Paradise, Powderly, South Carrollton, Tarina & Weir)

| | Rates | Fringes |
|---|---|---|
| Ironworkers:..... | $ 28.14 | 18.675 |

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IRON0492-003 05/01/2014

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
BUTLER COUNTY (Southern third, including the Townships of Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar Grove & Woodbury);
CHRISTIAN COUNTY (Eastern two-thirds, including the Townships of Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);
EDMONSON COUNTY (Southern fourth, including the Townships of Chalybeate & Rocky Hill);
MUHLENBERG COUNTY (Southern eighth, including the Townships of Dunnior, Penrod & Rosewood)

| | Rates | Fringes |
|---|---|---|
| Ironworkers:..... | $ 24.33 | 11.48 |

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IRON0782-006 05/01/2016

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES
CALDWELL COUNTY (Southwestern two-thirds, including the Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown, Dulaney, Farmersville, Fredonia, McGowan, Otter Pond & Princeton);
CHRISTIAN COUNTY (Western third, Excluding the Townships of Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);
CRITTENDEN COUNTY (Southwestern half, including the Townships of Crayne, Dycusburg, Frances, Marion, Mexico, Midway, Sheridan & Told)

| | Rates | Fringes |
|---|---|---|
| Ironworkers: | | |
| Projects with a total contract cost of $20,000,000.00 or above..... | $ 27.59 | 22.94 |
| All Other Work..... | $ 26.00 | 21.52 |

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LABO0189-005 07/01/2015

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,
LIVINGSTON, LYON, MARSHALL & MCCRACKEN COUNTIES

| | Rates | Fringes |
|---|---|---|
| Laborers: | | |
| GROUP 1 | $ 22.30 | 12.46 |
| GROUP 2 | $ 22.55 | 12.46 |
| GROUP 3 | $ 22.60 | 12.46 |
| GROUP 4 | $ 23.20 | 12.46 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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LABO0189-006 07/01/2014

ALLEN, BUTLER, CALDWELL, CHRISTIAN, DAVIESS, EDMONSON, HANCOCK,
HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, SIMPSON, TODD, TRIGG
& WARREN COUNTIES

| | Rates | Fringes |
|---|---|---|
| Laborers: | | |
| GROUP 1 | $ 22.66 | 11.10 |
| GROUP 2 | $ 22.91 | 11.10 |
| GROUP 3 | $ 22.96 | 11.10 |
| GROUP 4 | $ 23.56 | 11.10 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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LABO0561-001 07/01/2016

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

| | Rates | Fringes |
|---|---|---|
| Laborers: | | |
| GROUP 1 | $ 22.01 | 14.00 |
| GROUP 2 | $ 22.26 | 14.00 |
| GROUP 3 | $ 22.31 | 14.00 |
| GROUP 4 | $ 22.91 | 14.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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PAIN0032-002 05/01/2016

BALLARD COUNTY

| | Rates | Fringes |
|---|---|---|
| Painters: | | |
| Bridges | $ 33.56 | 15.18 |
| All Other Work | $ 31.26 | 15.18 |

Spray, Blast, Steam, High & Hazardous (Including Lead Abatement) and All Epoxy - $1.00 Premium

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PAIN0118-003 06/01/2014

EDMONSON COUNTY:

| | Rates | Fringes |
|---|---|---|
| Painters: | | |
| Brush & Roller | $ 18.50 | 11.97 |
| Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning | $ 19.50 | 11.97 |

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PAIN0156-006 04/01/2015

DAVIESS, HANCOCK, HENDERSON, MCLEAN, OHIO, UNION & WEBSTER COUNTIES

| | Rates | Fringes |
|---|---|---|
| Painters: | | |
| BRIDGES | | |
| GROUP 1 | $ 27.60 | 12.85 |
| GROUP 2 | $ 27.85 | 12.85 |
| GROUP 3 | $ 28.60 | 12.85 |
| GROUP 4 | $ 29.60 | 12.85 |
| ALL OTHER WORK: | | |
| GROUP 1 | $ 26.45 | 12.85 |
| GROUP 2 | $ 26.70 | 12.85 |
| GROUP 3 | $ 27.45 | 12.85 |
| GROUP 4 | $ 28.45 | 12.85 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

GROUP 3 - Spray; Sandblast; Power Tools; Waterblast; Steamcleaning; Brush & Roller of Mastics, Creosotes, Kwinch Koate & Coal Tar Epoxy

GROUP 4 - Spray of Mastics, Creosotes, Kwinch Koate & Coal Tar Epoxy

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PAIN0456-003 01/01/2015

ALLEN, BUTLER, LOGAN, MUHLENBERG, SIMPSON, TODD & WARREN COUNTIES:

| | Rates | Fringes |
|---|---|---|
| Painters: | | |
| BRIDGES | | |
| Brush & Roller | $ 23.25 | 9.95 |
| Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning | $ 24.25 | 9.95 |
| ALL OTHER WORK | | |
| Brush & Roller | $ 19.25 | 9.95 |
| Spray; Sandblast; Power Tools; Waterblast & Steam | | |

Cleaning.....$ 20.25 9.95

ALL OTHER WORK - HIGH TIME PAY
Over 35 feet (up to 100 feet) - $1.00 above base wage
100 feet and over - $2.00 above base wage

DURING SPRAY PAINTING AND SANDBLASTING OPERATIONS, POT TENDERS SHALL RECEIVE THE SAME WAGE RATES AS THE SPRAY PAINTER OR NOZZLE OPERATOR

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PAIN0500-002 06/01/2015

CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

| | Rates | Fringes |
|---|---|---|
| Painters: | | |
| Bridges | $ 26.85 | 12.35 |
| All Other Work | $ 20.60 | 12.35 |

Waterblasting units with 3500 PSI and above - $.50 premium
Spraypainting and all abrasive blasting - $1.00 premium
Work 40 ft. and above ground level - $1.00 premium

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* PLUM0184-002 07/01/2016

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN and TRIGG COUNTIES

| | Rates | Fringes |
|---|---|---|
| Plumber; Steamfitter | $ 34.36 | 16.78 |

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PLUM0502-004 08/01/2015

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

| | Rates | Fringes |
|---|---|---|
| Plumber; Steamfitter | $ 32.00 | 19.13 |

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PLUM0633-002 07/01/2015

DAVIESS, HANCOCK, HENDERSON, HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, TODD, UNION & WEBSTER COUNTIES:

| | Rates | Fringes |
|---|---|---|
| PLUMBER/PIPEFITTER | $ 31.54 | 14.78 |

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TEAM0089-003 03/30/2014

ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

| | Rates | Fringes |
|---|---|---|
| Truck drivers: | | |
| Zone 1: | | |
| Group 1 | $ 19.58 | 17.83 |
| Group 2 | $ 19.76 | 17.83 |
| Group 3 | $ 19.84 | 17.83 |
| Group 4 | $ 19.86 | 17.83 |

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic; Single Axle Dump; Flat Bed; All Terrain Vehicles when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors

GROUP 3 - Mixer All Types

GROUP 4 - Winch and A-Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker; Euclid and Other Heavy Earth Moving Equipment; Low Boy; Articulator Cat; Five Axle Vehicle

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TEAM0215-003 03/31/2013

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO & WEBSTER COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| Group 1 | $ 20.93 | 16.85 |
| Group 2 | $ 21.16 | 16.85 |
| Group 3 | $ 21.23 | 16.85 |
| Group 4 | $ 21.24 | 16.85 |

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; 5 Axle Vehicle; Winch and A- Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker

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TEAM0236-001 03/31/2013

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,

FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL,
MCCRACKEN,TODD & TRIGG COUNTIES

| | Rates | Fringes |
|---|---|---|
| TRUCK DRIVER | | |
| Group 1 | $ 19.38 | 16.85 |
| Group 2 | $ 19.56 | 16.85 |
| Group 3 | $ 19.56 | 16.85 |
| Group 4 | $ 19.66 | 16.85 |
| Group 5 | $ 19.64 | 16.85 |

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Drivers of Distributors

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame when used in transporting materials; Ross Carrier

GROUP 5: Mixer All Types

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example:

PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

These rates are listed pursuant to the Kentucky Determination No. CR-16-I-HWY dated July 1, 2016.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

**The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.**

**OVERTIME:**

**Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. 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. Wage violations or questions should be directed to the designated Engineer or the undersigned.**

Director
Division of Construction Procurement
Frankfort, Kentucky 40622
502-564-3500

# NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

| GOALS FOR MINORITY PARTICIPATION IN EACH TRADE | GOALS FOR FEMALE PARTICIPATION IN EACH TRADE |
|---|---|
| 5.2% | 6.9% |

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director**
**Office of Federal Contract Compliance Programs**
**61 Forsyth Street, SW, Suite 7B75**
**Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the **"covered area"** is Graves County.

# NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

| GOALS FOR MINORITY PARTICIPATION IN EACH TRADE | GOALS FOR FEMALE PARTICIPATION IN EACH TRADE |
|---|---|
| 5.2% | 6.9% |

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director**
**Office of Federal Contract Compliance Programs**
**61 Forsyth Street, SW, Suite 7B75**
**Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the **"covered area"** is Marshall County.

# 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

162605

# PROPOSAL BID ITEMS



**Report Date** 9/2/16

## Section: 0001 - PAVING

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|---|---|---|---|---|---|---|---|---|
| 0010 | 00100 | | ASPHALT SEAL AGGREGATE | 145.80 | TON | | $ | |
| 0020 | 00103 | | ASPHALT SEAL COAT | 17.55 | TON | | $ | |
| 0030 | 00216 | | CL3 ASPH BASE 1.00D PG76-22 | 1,500.00 | TON | | $ | |
| 0040 | 00332 | | CL3 ASPH SURF 0.50A PG76-22 | 550.00 | TON | | $ | |

## Section: 0002 - ROADWAY

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|---|---|---|---|---|---|---|---|---|
| 0050 | 00003 | | CRUSHED STONE BASE | 2,785.00 | TON | | $ | |
| 0060 | 01007 | | PERFORATED PIPE EDGE DRAIN-8 IN | 10,527.00 | LF | | $ | |
| 0070 | 01012 | | NON-PERFORATED PIPE-8 IN | 400.00 | LF | | $ | |
| 0080 | 01030 | | PERF PIPE HEADWALL TY 3-8 IN | 11.00 | EACH | | $ | |
| 0090 | 01705 | | REMOVE CURB & GUTTER BOX INLET | 7.00 | EACH | | $ | |
| 0100 | 01903 | | REMOVE CONCRETE ROLL CURB | 10,927.00 | LF | | $ | |
| 0110 | 02383 | | REMOVE & RESET GUARDRAIL | 5,390.00 | LF | | $ | |
| 0120 | 02483 | | CHANNEL LINING CLASS II | 70.00 | TON | | $ | |
| 0130 | 02562 | | TEMPORARY SIGNS | 1,100.00 | SQFT | | $ | |
| 0140 | 02650 | | MAINTAIN & CONTROL TRAFFIC (GRAVES COUNTY RAMPS) | 1.00 | LS | | $ | |
| 0150 | 02650 | | MAINTAIN & CONTROL TRAFFIC (MARSHALL COUNTY RAMPS) | 1.00 | LS | | $ | |
| 0160 | 02676 | | MOBILIZATION FOR MILL & TEXT | 1.00 | LS | | $ | |
| 0170 | 02677 | | ASPHALT PAVE MILLING & TEXTURING | 50.00 | TON | | $ | |
| 0180 | 02696 | | SHOULDER RUMBLE STRIPS-SAWED | 10,427.00 | LF | | $ | |
| 0190 | 05950 | | EROSION CONTROL BLANKET | 5,463.50 | SQYD | | $ | |
| 0200 | 05985 | | SEEDING AND PROTECTION | 5,463.50 | SQYD | | $ | |
| 0210 | 06592 | | PAVEMENT MARKER TYPE V-B W/R | 60.00 | EACH | | $ | |
| 0220 | 06593 | | PAVEMENT MARKER TYPE V-B Y/R | 186.00 | EACH | | $ | |
| 0230 | 23159EN | | DURABLE WATERBORNE MARKING-6 IN W | 10,927.00 | LF | | $ | |
| 0240 | 23160EN | | DURABLE WATERBORNE MARKING-6 IN Y | 10,927.00 | LF | | $ | |
| 0250 | 24530ED | | LONGITUDINAL SAW CUT 8 IN | 10,927.00 | LF | | $ | |

## Section: 0003 - BRIDGE

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|---|---|---|---|---|---|---|---|---|
| 0260 | 02003 | | RELOCATE TEMP CONC BARRIER | 4,080.00 | LF | | $ | |
| 0270 | 02562 | | TEMPORARY SIGNS | 1,043.00 | SQFT | | $ | |
| 0280 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 042B00155L | 1.00 | LS | | $ | |
| 0290 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 042B00155R | 1.00 | LS | | $ | |
| 0300 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 042B00167L | 1.00 | LS | | $ | |
| 0310 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 042B00167R | 1.00 | LS | | $ | |
| 0320 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 042B00168R | 1.00 | LS | | $ | |

162605

# PROPOSAL BID ITEMS



**Report Date** 9/2/16

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|---|---|---|---|---|---|---|---|---|
| 0330 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 079B00074R | 1.00 | LS | | $ | |
| 0340 | 02650 | | MAINTAIN & CONTROL TRAFFIC APPLIES TO 079B00076L | 1.00 | LS | | $ | |
| 0350 | 02653 | | LANE CLOSURE | 14.00 | EACH | | $ | |
| 0360 | 02671 | | PORTABLE CHANGEABLE MESSAGE SIGN | 7.00 | EACH | | $ | |
| 0370 | 02775 | | ARROW PANEL | 7.00 | EACH | | $ | |
| 0380 | 02898 | | RELOCATE CRASH CUSHION | 7.00 | EACH | | $ | |
| 0390 | 02900 | | INSTALL TEMP CRASH CUSHION | 7.00 | EACH | | $ | |
| 0400 | 03171 | | CONCRETE BARRIER WALL TYPE 9T | 4,080.00 | LF | | $ | |
| 0410 | 03295 | | EXPAN JOINT REPLACE 2 IN | 333.80 | LF | | $ | |
| 0420 | 03298 | | EXPAN JOINT REPLACE 4 IN | 314.20 | LF | | $ | |
| 0430 | 03299 | | ARMORED EDGE FOR CONCRETE | 588.00 | LF | | $ | |
| 0440 | 03304 | | BRIDGE OVERLAY APPROACH PAVEMENT | 5,622.55 | SQYD | | $ | |
| 0450 | 06514 | | PAVE STRIPING-PERM PAINT-4 IN | 6,900.45 | LF | | $ | |
| 0460 | 06549 | | PAVE STRIPING-TEMP REM TAPE-B | 3,500.00 | LF | | $ | |
| 0470 | 06550 | | PAVE STRIPING-TEMP REM TAPE-W | 14,000.00 | LF | | $ | |
| 0480 | 06551 | | PAVE STRIPING-TEMP REM TAPE-Y | 14,000.00 | LF | | $ | |
| 0490 | 08150 | | STEEL REINFORCEMENT | 2,137.60 | LB | | $ | |
| 0500 | 08504 | | EPOXY SAND SLURRY | 353.50 | SQYD | | $ | |
| 0510 | 08526 | | CONC CLASS M FULL DEPTH PATCH | 29.00 | CUYD | | $ | |
| 0520 | 08534 | | CONCRETE OVERLAY-LATEX | 260.70 | CUYD | | $ | |
| 0530 | 08549 | | BLAST CLEANING | 6,611.00 | SQYD | | $ | |
| 0540 | 08551 | | MACHINE PREP OF SLAB | 6,257.00 | SQYD | | $ | |
| 0550 | 23949EC | | BRIDGE CLEANING & PREVENTIVE MAINTENANCE | 1.00 | LS | | $ | |
| 0560 | 24094EC | | PARTIAL DEPTH PATCHING | 173.90 | CUYD | | $ | |

## Section: 0004 - DEMOBILIZATION

| LINE | BID CODE | ALT | DESCRIPTION | QUANTITY | UNIT | UNIT PRIC | FP | AMOUNT |
|---|---|---|---|---|---|---|---|---|
| 0570 | 02569 | | DEMOBILIZATION | 1.00 | LS | | $ | |